

California Independent System Operator Corporation  
Fifth Replacement Tariff

**Appendix DD**

**Generator Interconnection and Deliverability Allocation Procedures (GIDAP)**

November 1, 2023

Appendix DD

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## **Section 1 Objectives And Applicability**

### **1.1 Objectives and Applicability**

The objective of this Generation Interconnection and Deliverability Allocation Procedures (GIDAP) is to implement the requirements for both Small and Large Generating Facility interconnections to the CAISO Controlled Grid and to provide a process for allocating Transmission Plan Deliverability for Interconnection Requests starting with Queue Cluster 5 and for subsequent Queue Clusters. This GIDAP applies to Interconnection Requests that are either assigned to Queue Cluster 5 and subsequent Queue Clusters, or submitted for the Independent Study Process, or Fast Track Process after July 25, 2012. The exception to this rule of limited applicability is the annual reassessment process set forth in Section 7.4, which shall apply to all CAISO Interconnection Customers in Queue Clusters.

### **1.2 Definitions**

Unless the context otherwise requires, any word or expression defined in the Master Definitions Supplement, Appendix A to the CAISO Tariff, will have the same meaning where used in this GIDAP. References to the GIDAP are to this Appendix DD.

### **1.3 Pre-Application**

**1.3.1** An Interconnection Customer with a proposed Small Generating Facility may submit a formal written request form along with a non-refundable fee of \$300 to the CAISO for a pre-application report on a proposed project at a specific site. The CAISO shall provide the pre-application data described in Section 1.3.2 to the Interconnection Customer within twenty (20) Business Days of receipt of the completed request form and payment of the \$300 fee. The CAISO shall coordinate with the Participating TO to complete the pre-application report. At the request of the CAISO, the Participating TO shall provide any readily available information necessary to complete the pre-application report. Readily available information shall mean information that the Participating TO currently has on hand. The Participating TO is not required to create new information but is required to compile, gather, and summarize information that it has on hand in a format that presents the information in a manner that informs the Interconnection Customer regarding issues related to its proposed Small Generating Facility. If providing any item in the pre-application report would require the Participating TO to perform a study or analysis beyond gathering and presenting existing information, then the information shall be deemed not readily available. The pre-application report produced by the CAISO is non-binding, does not confer any rights, and the Interconnection Customer must still successfully apply to interconnect to the CAISO's system. The written pre-application report request form shall include the information in Sections 1.3.1.1 through 1.3.1.8 below to clearly and sufficiently identify the location of the proposed Point of Interconnection that is under CAISO operational control.

**1.3.1.1** Project contact information, including name, address, phone number, and email address.

**1.3.1.2** Project location (street address with nearby cross streets and town).

**1.3.1.3** Single proposed Point of Interconnection that is either an existing substation or a transmission line under CAISO operational control.

**1.3.1.4** Generator Type (e.g., solar, wind, combined heat and power, etc.)

**1.3.1.5** Size (alternating current kW/MW)

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- 1.3.1.6** Single or three phase generator configuration
- 1.3.1.7** Stand-alone generator (no onsite load, not including station service – Yes or No?)
- 1.3.1.8** Is new service requested? Yes or No? If there is existing service, include the customer account number, site minimum and maximum current or proposed electric loads in kW/MW (if available) and specify if the load is expected to change.
- 1.3.2** Subject to Section 1.3.1, the pre-application report will include the following information:
  - 1.3.2.1** Electrical configuration of the substation, including information of transmission lines terminating in the substation, transformers, buses and other devices, if the proposed Point of Interconnection is a substation.
  - 1.3.2.2** Existing aggregate generation capacity (in MW) interconnected to a substation or circuit (i.e., amount of generation online) likely to serve the proposed Point of Interconnection.
  - 1.3.2.3** Aggregate queued generation capacity (in MW) for a substation or circuit (i.e., amount of generation in the queue) likely to serve the proposed Point of Interconnection.
  - 1.3.2.4** Based on the proposed Point of Interconnection, existing or known constraints such as, but not limited to, electrical dependencies at that location, short circuit issues, instability issues, facility loading issues, or voltage issues.
  - 1.3.2.5** Available capacity on a substation or circuit likely to serve the proposed Point of Interconnection.
- 1.3.3** The pre-application report need only include existing data. A pre-application report request does not obligate the CAISO to conduct a study or other analysis of the proposed generator in the event that data is not readily available. If the CAISO cannot complete all or some of a pre-application report due to lack of available data, the CAISO shall provide the Interconnection Customer with a pre-application report that includes the data that is available. There are many variables studied as part of the interconnection review process, and data provided in the pre-application report may become outdated at the time of the submission of the complete Interconnection Request. Notwithstanding any of the provisions of this section, the CAISO shall, in good faith, include data in the pre-application report that represents the best available information at the time of reporting.

## **Section 2 Scope and Application**

### **2.1 Application of Generator Interconnection Procedures**

Sections 2 through 15 apply to processing an Interconnection Request pertaining to a Generating Facility that is either: (i) assigned to Queue Clusters 5 and subsequent Queue Clusters, or (ii) included in the Independent Study Process, or (iii) included in the Fast Track Process, after July 25, 2012 pursuant to the terms of this CAISO Tariff for the performance of its Interconnection Studies.

### **2.2 Comparability**

The CAISO shall receive, process, and analyze Interconnection Requests in a timely manner as

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set forth in this GIDAP. The CAISO will use the same Reasonable Efforts in processing and analyzing Interconnection Requests from all Interconnection Customers as set forth in this GIDAP, whether the Generating Facilities are owned by a Participating TO, its subsidiaries, or Affiliates or others.

### **2.3 Interconnection Base Case Data**

For each Interconnection Study Cycle, the CAISO, in coordination with applicable Participating TO(s), shall maintain updated Interconnection Base Case Data, including, as applicable, separate Interconnection Base Case Data for each Group Study to reflect system conditions particular to the Group Study, to a secured section of the CAISO Website. Interconnection Base Case Data will represent the network model and underlying assumptions used during the most recent Interconnection Study and represent system conditions in the near term planning horizon.

The CAISO will update and publish the Interconnection Base Case Data:

- (1) prior to the Phase I Interconnection Study with the Generation reflected in valid Interconnection Requests for the Interconnection Study Cycle, as well as all Generation reflected in the Interconnection Requests in the Independent Study Process that entered the CAISO's interconnection queue prior to the creation of the Base Case, along with any associated transmission upgrades or additions;
- (2) after the Phase I Interconnection Study with the Generation reflected in valid Interconnection Requests submitted in the Cluster Application Window for the Interconnection Study Cycle, and the identified preliminary transmission upgrades or additions, as well as all Generation reflected in the Interconnection Requests in the Independent Study Process that entered the CAISO's interconnection queue prior to the creation of the Base Case, along with any associated transmission upgrades or additions;
- (3) prior to the Phase II Interconnection Study, including all remaining Generation from the Phase I Interconnection Study for the Interconnection Study Cycle, as well as all Generation reflected in the Interconnection Requests in the Independent Study Process that entered the CAISO's interconnection queue prior to the creation of the Base Case, along with any associated transmission upgrades or additions; and
- (4) after the Phase II Interconnection Study, including all remaining Generation from the applicable Phase I Interconnection Study and the identified transmission upgrades and additions for the Interconnection Study Cycle, as well as all Generation reflected in the Interconnection Requests in the Independent Study Process that entered the CAISO's interconnection queue prior to the creation of the Base Case, along with any associated transmission upgrades or additions.

Interconnection Base Case Data shall include information subject to the confidentiality provisions in Section 15.1.

The CAISO shall require current and former Interconnection Customers, Market Participants, and electric utility regulatory agencies within California to sign a CAISO confidentiality agreement and, where the current or former Interconnection Customer or Market Participant is not a member of WECC, or its successor, an appropriate form of agreement with WECC, or its successor, as necessary. All other entities or persons seeking Interconnection Base Case Data must satisfy the foregoing requirements as well as all requirements under 18 C.F.R. Section 388.113 for obtaining the release of Critical Energy Infrastructure Information (as that term is defined by FERC). The CAISO will maintain a link on OASIS to the secured section of the CAISO website with the Interconnection Base Case Data.

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## **2.4 Interconnection Service and Studies**

### **2.4.1 No Applicability to Transmission Service.**

Nothing in this GIDAP shall constitute a request for transmission service or confer upon an Interconnection Customer any right to receive transmission service.

### **2.4.2 The Product.**

Interconnection Service allows the Interconnection Customer to connect the Generating Facility to the CAISO Controlled Grid and be eligible to deliver the Generating Facility's output using the available capacity of the CAISO Controlled Grid. Interconnection Service does not in and of itself convey any right to deliver electricity to any specific customer or point of delivery or rights to any specific MW of available capacity on the CAISO Controlled Grid.

### **2.4.3 The Interconnection Studies.**

For Interconnection Requests in Queue Cluster 5 and subsequent Queue Clusters, the Interconnection Studies consist of a Phase I Interconnection Study, a reassessment conducted prior to the commencement of a Phase II Interconnection Study, a Phase II Interconnection Study, and an update to the Phase II Interconnection Study report to reflect the results of a reassessment conducted after the TP Deliverability allocation process for the Queue Cluster.

For Interconnection Requests processed under the Independent Study Process, the Interconnection Studies consist of a system impact and facilities study, and, as applicable to Full Capacity or Partial Capacity Deliverability Status, Phase I and Phase II Interconnection Studies and a reassessment.

#### **2.4.3.1 The Phase I Interconnection Studies**

The Phase I Interconnection Studies for Queue Cluster Generating Facilities will include, but not be limited to, short circuit/fault duty, steady state (thermal and voltage) and stability analyses. The Phase I Interconnection Studies will identify direct Interconnection Facilities and required Reliability Network Upgrades necessary to interconnect the Generating Facility, mitigate thermal overloads and voltage violations, and address short circuit, stability, and reliability issues associated with the requested Interconnection Service. The Phase I Interconnection Studies will also identify LDNUs and LOPNUs for Generating Facilities, including those being processed under the Independent Study Process, that have selected Full Capacity, Partial Capacity Deliverability Status, and Off-Peak Deliverability Status, as applicable. Such Network Upgrades shall be identified in accordance with the Deliverability Assessments set forth in Section 6.3.2. The Phase I Interconnection Studies will also provide cost estimates for ADNUs and AOPNUs, as described in Section 6.3.2. The Phase I Interconnection Study report shall include cost estimates for RNUs, LDNUs, ADNUs, LOPNUs, AOPNUs, and Participating TO Interconnection Facilities that shall, as applicable, establish the basis for the initial Interconnection Financial Security postings under Section 11.2.

#### **2.4.3.2 The Reassessment Prior to Phase II Interconnection Studies**

Before undertaking the Phase II Interconnection Studies, the CAISO will conduct a reassessment, as specified in Section 7.4, to conform the Base Case and

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Interconnection Base Case Data to account for later conditions since the CAISO performed the Phase II Interconnection Study in the prior Interconnection Study Cycle.

#### **2.4.3.3 The Phase II Interconnection Studies**

The Phase II Interconnection Studies will include, but not be limited to, short circuit/fault duty, steady state (thermal and voltage) and stability analyses, and will identify direct Interconnection Facilities and required RNUs necessary to interconnect the Generating Facility, mitigate thermal overloads and voltage violations, and address short circuit, stability, and reliability issues associated with the requested Interconnection Service. The Phase II Interconnection Studies shall identify LDNUs and LOPNUs for Generating Facilities participating in Phase II (including those being processed under the Independent Study Process) that have elected Full Capacity, Partial Capacity Deliverability Status, and Off-Peak Deliverability Status, as applicable, and ADNUs for Interconnection Customers selecting Option (B) in accordance with Section 7.2.

The Phase II Interconnection Study report shall also set forth the applicable cost estimates for RNUs, LDNUs, ADNUs, LOPNUs, and AOPNUs, and Participating TO Interconnection Facilities that shall, as applicable, establish the basis for the second and third Interconnection Financial Security postings under Section 11.3.

Where an Interconnection Study report identifies specific transmission facilities for Network Upgrade or Interconnection Facilities, the cost estimates determined in accordance with Section 6.4 will be set forth in present dollar costs as well as time-adjusted dollar costs, adjusted to the estimated year of expenditure for construction of the components being constructed.

#### **2.4.3.4 Update Following TP Deliverability Allocation Process**

Following the completion of Phase II Interconnection Studies for the Queue Cluster and provision by the ISO of the results to Interconnection Customers in the Queue Cluster, the ISO will perform the allocation of TP Deliverability to eligible Generating Facilities in accordance with Section 8.9. Based on the results of the allocation process and the responses to those results as reported by affected Interconnection Customers to the ISO, the ISO will provide updates where needed to the Phase II Interconnection Study reports of affected Interconnection Customers. The update to the Phase II Interconnection Study report provided under this section shall not extend the time for the second Interconnection Financial Security posting under Section 11.3.

### **Section 3 Interconnection Requests**

#### **3.1 General**

Pursuant to CAISO Tariff Section 25.1, a duly authorized officer or agent of the Interconnection Customer will submit to the CAISO (1) an Interconnection Request consistent with Appendix 1 to this GIDAP, including (2) an executed Generator Interconnection Study Process Agreement consistent with Appendix 3 to this GIDAP. All forms may be submitted electronically as provided on the CAISO website. Interconnection customers will submit Appendix B to the Generator Interconnection Study Process Agreement pursuant to Section 7 of this GIDAP. The CAISO will forward a copy of the Interconnection Request to the applicable Participating TO within five (5) Business Days of receipt.

The Interconnection Customer shall submit a separate Interconnection Request for each site and

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may submit multiple Interconnection Requests for a single site. The Interconnection Customer must submit a deposit with each Interconnection Request even when more than one request is submitted for a single site. An Interconnection Request to evaluate one site at two different voltage levels shall be treated as two Interconnection Requests.

Interconnection Customers may request Interconnection Service Capacity below the Generating Facility Capacity. The CAISO will study these requests for Interconnection Service at the level of Interconnection Service Capacity requested for purposes of Interconnection Studies, Network Upgrades, and associated costs. If the Generating Facility Capacity requires additional Network Upgrades beyond the Interconnection Service Capacity, the CAISO will provide a detailed explanation of why the additional Network Upgrades are necessary. Any Interconnection Facility and/or Network Upgrade cost required for safety and reliability will be assigned to the Interconnection Customer and eligible for reimbursement consistent with the treatment of Interconnection Facilities and Network Upgrade provided in this GIDAP. Interconnection Customers may be subject to additional control technologies, as well as testing and validation of those technologies consistent with Article 6 of the GIA and Article 2 of the SGIA. The necessary control technologies and protection systems shall be established in Appendix C of that executed, or requested to be filed unexecuted, GIA.

### **3.2 Roles and Responsibilities**

- (a) Each Interconnection Request will be subject to the direction and oversight of the CAISO. The CAISO will conduct or cause to be performed the required Interconnection Studies and any additional studies the CAISO determines to be reasonably necessary, and will direct the applicable Participating TO to perform portions of studies where the Participating TO has specific and non-transferable expertise or data and can conduct the studies more efficiently and cost effectively than the CAISO. The CAISO will coordinate with Affected System Operators in accordance with Section 3.7.
- (b) The CAISO will complete or cause to be completed all studies as required within the timelines provided in this. Any portion of the studies performed at the direction of the CAISO by the Participating TOs or by a third party shall also be completed within timelines provided in this GIDAP.
- (c) The CAISO has established a pro forma Roles and Responsibilities Agreement, attached hereto as Appendix 4 and incorporated herein by reference, for execution by the CAISO and the applicable Participating TOs.
- (d) Each Interconnection Customer shall pay the actual costs of all Interconnection Studies, and any additional studies the CAISO determines to be reasonably necessary in response to the Interconnection Request. The CAISO shall reimburse the Participating TO for the actual cost of any portion of all Interconnection Studies that such Participating TO performs at the direction of the CAISO.

### **3.3 Timing for Submitting Interconnection Requests**

#### **3.3.1 Timing for Submitting Interconnection Requests for a Queue Cluster**

Except for Interconnection Customers requesting processing under the Independent Study Process or Fast Track Process, Interconnection Requests must be submitted during a Cluster Application Window. The Cluster Application Window will open on April 1 and close on April 15 of each year. If any date set forth in this section is not a Business Day, then the applicable date shall be the next Business Day.

### **3.3.2 Timing for Submitting Interconnection Requests for Independent Study Process and Fast Track Process**

Interconnection Customers may submit Interconnection Requests for processing under the Independent Study Process or the Fast Track Process at any time during the year.

### **3.3.3 Timing for Wholesale Distribution Transfers**

After the Cluster Application Window, the CAISO will accept Interconnection Requests from Utility Distribution Companies that accepted interconnection requests for wholesale participation the Interconnection Customer reasonably believed were to the distribution grid based on available information, but should have been to the CAISO Controlled Grid. The CAISO will only accept those Interconnection Requests it can include in the Phase I Interconnection Study without delaying that Queue Cluster. The CAISO will not accept any Interconnection Request transfers after the commencement of the Phase I Interconnection Study.

After the Utility Distribution Company has transferred the Interconnection Request to the CAISO, the CAISO will notify the Interconnection Customer whether it can be included in the Phase I Interconnection Study and request any data still required under Section 3.5.1.

## **3.4 Surplus Interconnection Service**

The CAISO will allow an Interconnection Customer to utilize or transfer Surplus Interconnection Service. The Interconnection Customer will notify the CAISO that it has transferred its Surplus Interconnection Service to another entity. The total Interconnection Service Capacity of the original Interconnection Customer and the assignee of the Surplus Interconnection Capacity may not exceed the original Interconnection Customer's constructed Generating Facility Capacity, regardless of the Interconnection Service Capacity it requested in its Interconnection Request or memorialized in its GIA. The Generating Facility of the assignee must interconnect at the same Point of Interconnection as the original Interconnection Customer.

If the assignee's Generating Facility would not require a new Interconnection Request pursuant to Section 25.1.1 of the CAISO Tariff, the original Interconnection Customer may transfer Surplus Interconnection Service, and the CAISO will study the transfer, as a modification under Section 6.7.2. Otherwise, the assignee of the Surplus Interconnection Service will submit an Interconnection Request under the Independent Study Process pursuant to Section 3.5 of this GIDAP. The CAISO and Participating TO will study and treat the use of the Surplus Interconnection Service and any capacity beyond the Interconnection Service Capacity as a behind-the-meter capacity expansion consistent with Section 4.2 of this GIDAP. The Independent Study Process for Surplus Interconnection Service will identify any additional Interconnection Facilities and/or Network Upgrades necessary. Reimbursement for additional Reliability Network Upgrades will be capped pursuant to Section 14.3.2 of this GIDAP. The CAISO will use the constructed Generating Facility Capacity of the original Interconnection Customer for the MW value of the RNU reimbursement cap, and will subtract the costs of the original Interconnection Customer's Reliability Network Upgrades to determine any remaining eligible reimbursement under the cap for the assignee's Reliability Network Upgrades, if any.

Notwithstanding any other provision in this GIDAP, if the original Interconnection Customer has Full or Partial Capacity Deliverability Status, it will notify the CAISO whether its transfer of Surplus Interconnection Service includes any Deliverability currently associated with the constructed Generating Facility capacity. The transfer amount of Deliverability may not exceed the transfer amount of Surplus Interconnection Service. The transfer amount of Surplus Interconnection Service will not operate as a basis to increase the Net Qualifying Capacity of the Generating Facility (including the expansion) that pre-existed the transfer. In all cases, the original Generating Facility and the behind-the-meter capacity expansion will be metered separately from

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one another and be assigned separate Resource IDs. If the original Interconnection Customer's Generating Facility permanently retires, or ceases operation for three (3) years without having begun active construction of a repowered Generating Facility, both the original Interconnection Customer and the assignee of the Surplus Interconnection Service will be converted to Energy Only. At any point, the assignee may seek its own TP Deliverability allocation pursuant to Section 8.9 of this GIDAP. If the assignee receives its own TP Deliverability allocation, it will exist completely independent of the original Interconnection Customer and will not be converted to Energy Only due to the retirement or inoperability of the original Interconnection Customer, notwithstanding any other provision herein.

The CAISO, Participating TO, and original Interconnection Customer will work in good faith to amend the original Interconnection Customer's GIA to reflect the transfer of Surplus Interconnection Service before the execution of the assignee's GIA.

### **3.5 Processing of Interconnection Requests**

#### **3.5.1 Initiating an Interconnection Request.**

To initiate an Interconnection Request, except as set forth for the Fast Track Process in Section 5, and have the Interconnection Request considered for validation under Section 3.5.2, the Interconnection Customer must submit all of the following during the Cluster Application Window, or at any time during the year for proposed Generating Facilities applying for processing under the Independent Study Process:

- (i) An Interconnection Study Deposit of \$150,000.
- (ii) A completed application in the form of Appendix 1, including requested Deliverability statuses, requested study process (either Queue Cluster or Independent Study Process), preferred Point of Interconnection and voltage level, and all other required technical data, including all data requested in Attachment A to Appendix 1 in Excel format.
- (iii) Demonstration of Site Exclusivity or, for Interconnection Requests in a Queue Cluster, a posting of a Site Exclusivity Deposit of \$250,000 for a Small Generating Facility or \$500,000 for a Large Generating Facility. The demonstration of Site Exclusivity, at a minimum, must be through the Commercial Operation Date of the new Generating Facility or increase in capacity of the existing Generating Facility.
- (iv) A load flow model.
- (v) A dynamic data file.
- (vi) A reactive power capability document.
- (vii) A site drawing.
- (viii) A single-line diagram.
- (ix) A flat run plot and a bump test plot from the positive sequence transient stability simulation application.
- (x) A plot showing the requested MW at the Point of Interconnection from the positive sequence load flow application.

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The CAISO requires the foregoing information to be complete and specific to the Interconnection Request. The CAISO will first determine whether a submitted Interconnection Request is complete. The CAISO will not initiate any review of an Interconnection Request for completeness until the Interconnection Study Deposit is received by the CAISO. Consistent with Section 3.5.3, the CAISO will review each Interconnection Request and notify the Interconnection Customer whether it is complete or contains omissions within five (5) Business Days of submission. Any Interconnection Customer that has not submitted a complete Interconnection Request by April 15 (or the next Business Day if April 15 is not a Business Day) will be deemed incomplete with no opportunity to cure or otherwise be included in that year's Queue Cluster.

The CAISO requires Interconnection Study Deposits to review and validate the Interconnection Request. Notwithstanding Section 3.5.2 of this GIDAP or any other provision regarding validation or the ability to cure deficiencies, the CAISO will not review, process, or validate an Interconnection Request absent the Interconnection Study Deposit. Any interconnection Customer that has not submitted a complete Interconnection Study Deposit by April 15 (or the next Business Day if April 15 is not a Business Day) will be deemed invalid with no opportunity to cure or otherwise be included in that year's Queue Cluster.

The CAISO will include examples of how Interconnection Customers can demonstrate Site Exclusivity, including on public sites, in its Business Practice Manual.

**3.5.1.1 Use of Interconnection Study Deposit.**

The CAISO shall deposit all Interconnection Study Deposits in an interest bearing account at a bank or financial institution designated by the CAISO. The Interconnection Study Deposit shall be applied to pay for prudent costs incurred by the CAISO, the Participating TOs, or third parties at the direction of the CAISO or Participating TOs, as applicable, to perform and administer the Interconnection Studies and to meet and otherwise communicate with Interconnection Customers with respect to their Interconnection Requests.

Except for proposed Generating Facilities processed under the Fast Track Process set forth in Section 5, the Interconnection Study Deposits shall be refundable as follows:

- (a) Should an Interconnection Request be withdrawn by the Interconnection Customer or be deemed withdrawn by the CAISO by written notice under Section 3.8 on or before thirty (30) calendar days following the Scoping Meeting, the CAISO shall refund to the Interconnection Customer any portion of the Interconnection Customer's Interconnection Study Deposit, including interest earned at the rate provided for in the interest-bearing account from the date of deposit to the date of withdrawal, that exceed the costs the CAISO, Participating TOs, and third parties have incurred on the Interconnection Customer's behalf.
- (b) Should an Interconnection Request made under Section 3.5.1 be withdrawn by the Interconnection Customer or be deemed withdrawn by the CAISO by written notice under Section 3.8 more than thirty (30) calendar days after the Scoping Meeting, but on or before thirty (30) calendar days following the Results Meeting (or the latest date permitted under this GIDAP for a Results Meeting if a customer elects not to have a Results Meeting) for the Phase I Interconnection Study or the system impact and facilities study for Generating Facilities processed under the

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Independent Study Process, the CAISO shall refund to the Interconnection Customer the difference between (i) the Interconnection Customer's Interconnection Study Deposit and (ii) the greater of the costs the CAISO and Participating TOs have incurred on the Interconnection Customer's behalf or one-half of the original Interconnection Study Deposit up to a maximum of \$75,000, including interest earned at the rate provided for in the interest-bearing account from the date of deposit to the date of withdrawal.

Interconnection Customers in Queue Cluster 5 who have provided the Study Deposit may receive a refund of the Interconnection Study Deposit, less actual costs expended on the Interconnection Studies to date, by withdrawing from the Queue within ten (10) calendar days after July 25, 2012.

- (c) Should an Interconnection Request be withdrawn by the Interconnection Customer or be deemed withdrawn by the CAISO by written notice under Section 3.8 at any time more than thirty (30) calendar days after the Results Meeting (or the latest date permitted for a Results Meeting if a customer elects not to have a Results Meeting) for the Phase I Interconnection Study, or the system impact and facilities study for proposed Generating Facilities processed under the Independent Study Process, the Interconnection Study Deposit shall be non-refundable.
- (d) Upon execution of a GIA by an Interconnection Customer, the CAISO and the applicable Participating TOs, or the approval by FERC of an unexecuted GIA, the CAISO shall refund to the Interconnection Customer any portion of the Interconnection Customer's Interconnection Study Deposit, including interest earned at the rate provided for in the interest-bearing account from the date of deposit to the date of withdrawal, that exceeds the costs the CAISO, Participating TOs, and third parties have incurred on the Interconnection Customer's behalf.

Notwithstanding the foregoing, an Interconnection Customer that withdraws or is deemed to have withdrawn its Interconnection Request during an Interconnection Study Cycle shall be obligated to pay to the CAISO all costs in excess of the Interconnection Study Deposit that have been prudently incurred or irrevocably have been committed to be incurred with respect to that Interconnection Request prior to withdrawal. The CAISO will reimburse the applicable Participating TO(s) or third parties, as applicable, for all work performed on behalf of the withdrawn Interconnection Request at the CAISO's direction. The Interconnection Customer must pay all monies due before it is allowed to obtain any Interconnection Study data or results.

All non-refundable portions of the Interconnection Study Deposit that exceed the costs the CAISO, Participating TOs, or third parties have incurred on the Interconnection Customer's behalf, and any non-refundable interconnection study deposit funds that are received by the CAISO from a Participating TO, pursuant to a requirement in the Participating TO's wholesale distribution tariff for such funds to be distributed by the CAISO, shall be treated in accordance with Section 7.6.

Notwithstanding any other provision, all refunds pursuant to this Appendix DD will be processed in accordance with the CAISO's generally accepted accounting practices, including monthly batched deposit refund disbursements. Any CAISO deadline will be tolled to the extent the Interconnection Customer has not

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provided the CAISO with the appropriate documents to facilitate the Interconnection Customer's refund, or if the Interconnection Customer has any outstanding invoice balance due to the CAISO on another project owned by the same Interconnection Customer.

**3.5.1.2 Obligation for Study Costs.**

Except as otherwise provided in Section 3.5.1.1, the CAISO shall charge and the Interconnection Customer(s) shall pay the actual costs of the Interconnection Studies. Where an Interconnection Study is performed by means of a Group Study, the cost of the Group Study will be charged pro rata to each Interconnection Request assigned to the Group Study. The cost of Interconnection Studies performed for an individual Interconnection Request, not part of a Group Study, will be charged solely to the Interconnection Customer that submitted the Interconnection Request.

Following offsets from non-refundable Site Exclusivity Deposit funds, the actual costs of each reassessment, as set forth in Section 7.4, will be divided and allocated equally amongst the following Interconnection Customers:

- (1) Interconnection Customers whose Generating Facilities' Phase II Interconnection Studies were completed in the most recent Interconnection Study Cycle prior to the applicable reassessment;
- (2) Interconnection Customers whose Generating Facilities are parked pursuant to this GIDAP at the time of the applicable reassessment process; and
- (3) Interconnection Customers with Interconnection Requests for Generating Facilities in Queue Clusters for whose Interconnection Studies the results of the applicable annual reassessment process will be used to establish the Base Case.

An Interconnection Customer will be allocated a single share of the actual costs of the reassessment per Generating Facility in these four categories, even if a Generating Facility falls within more than one of these categories.

The Participating TO and any third parties performing work on the Interconnection Customer's behalf shall invoice the CAISO for such work, and the CAISO shall issue invoices for Interconnection Studies that shall include a detailed and itemized accounting of the cost of each Interconnection Study. The CAISO shall draw from the Interconnection Study Deposit any undisputed costs within thirty (30) calendar days of issuance of an invoice. Whenever the actual cost of performing the Interconnection Studies exceeds the Interconnection Study Deposit, the Interconnection Customer shall pay the undisputed difference in accordance with the CAISO issued invoice within thirty (30) calendar days. The CAISO shall not be obligated to continue to have any studies conducted unless the Interconnection Customer has paid all undisputed amounts in compliance herewith. In the event an Interconnection Study, or portions thereof, is performed by the CAISO, the Interconnection Customer shall pay only the costs of those activities performed by the Participating TO to adequately review or validate that Interconnection Study or portions thereof.

**3.5.1.3 Use of Site Exclusivity Deposit.**

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The CAISO shall deposit all Site Exclusivity Deposits in an interest bearing account at a bank or financial institution designated by the CAISO. The Site Exclusivity Deposit and all interest shall be refundable to the Interconnection Customer at any time upon demonstration of Site Exclusivity. For Site Exclusivity Deposits provided after September 1, 2022, if the Interconnection Request is withdrawn by the Interconnection Customer or deemed withdrawn by the CAISO by written notice under Section 3.8 thirty (30) calendar days after the Scoping Meeting and before demonstrating Site Exclusivity, fifty percent (50%) of the Site Exclusivity will be non-refundable and subject to Section 7.6 of this GIDAP. The refund of the Site Exclusivity Deposit shall include interest earned at the rate provided for in the interest-bearing account from the date of deposit to the date of withdrawal on the refundable portion only.

Interconnection Customers in Clusters 15 and thereafter may not use Site Exclusivity Deposits after the Phase I Interconnection Study. Interconnection Customers must demonstrate Site Exclusivity for the Generating Facility at least ten (10) Business Days prior to the initial Interconnection Financial Security posting is required. Interconnection Customers that fail to demonstrate Site Exclusivity prior to this deadline will be deemed withdrawn.

**3.5.1.4 Proposed Commercial Operation Date.**

The proposed Commercial Operation Date of the new Generating Facility or increase in capacity of the existing Generating Facility shall not exceed seven years from the date the Interconnection Request is received by the CAISO, unless the Interconnection Customer demonstrates, and the applicable Participating TO(s) and the CAISO agree, such agreement not to be unreasonably withheld, that engineering, permitting and construction of the new Generating Facility or increase in capacity of the existing Generating Facility will take longer than the seven year period. The CAISO's agreement to an extension of the proposed Commercial Operation Date does not relieve the Interconnection Customer from compliance with the requirements of any of the criteria in Section 8.9.3 for retention of TP Deliverability.

**3.5.1.5 Third-party Interconnection Facilities.**

Interconnection Customers proposing to use third-party Interconnection Facilities must provide documentation to the CAISO demonstrating they are negotiating or have secured rights on those Interconnection Facilities to be deemed valid pursuant to Section 3.5.2. On or before their initial Interconnection Financial Security posting, such Interconnection Customers must provide documentation to the CAISO demonstrating they have secured rights on those Interconnection Facilities through their Commercial Operation Date.

**3.5.2 Validation of Interconnection Request.**

For each Interconnection Request that is deemed complete pursuant to Section 3.5.1, the CAISO and Participating TO will determine whether the Interconnection Request is valid. An Interconnection Request will be deemed valid if it does not contain deficiencies that would prevent its inclusion in the Phase I Interconnection Studies. Deficiencies include but are not limited to modeling errors, inaccurate data, and unusable files.

**3.5.2.1 Validation Process.**

The CAISO and Participating TO will notify the Interconnection Customer whether its Interconnection Request is valid or contains deficiencies within ten

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(10) Business Days of April 15 or when the Interconnection Request is deemed complete, whichever is later. All Interconnection Requests must be deemed valid by June 30 to be included in that year's Queue Cluster.

**3.5.2.2 Deficiencies in Interconnection Request.**

If an Interconnection Request has deficiencies, the CAISO shall include in its notification to the Interconnection Customer that the Interconnection Request does not constitute a valid request and explain the deficiencies. The Interconnection Customer shall provide the CAISO the corrected requested information needed to constitute a valid request. Consistent with Section 3.5, whenever corrected requested information is provided by the Interconnection Customer, the CAISO shall notify the Interconnection Customer within five (5) Business Days of receipt of the corrected requested information whether the Interconnection Request is valid. If the Interconnection Request continues to provide deficient information, the CAISO shall include in its notification to the Interconnection Customer the reasons for such failure. If an Interconnection Request is not deemed valid, the Interconnection Customer must cure all deficiencies no later than June 30 or the next Business Day if June 30 is not a Business Day. Interconnection Requests with deficiencies after that date will be deemed invalid and will not be included in an Interconnection Study Cycle or otherwise studied.

Interconnection Requests deemed invalid under this Section 3.5.2.2 are not subject to Section 3.8. Interconnection Customers with invalid Interconnection Request under this Section 3.5.2.2 may seek relief under Section 15.5 by so notifying the CAISO within two (2) Business Days of the notice of invalidity.

**3.5.3 Day-for-day Extensions**

The CAISO and Participating TO will use Reasonable Efforts to meet all deadlines in this Section 3.5.3 of the GIDAP. To the extent the CAISO and Participating TO cannot meet any deadline, the Interconnection Customer will receive a day-for-day extension on all remaining deadlines requiring its response until May 31.

Pursuant to Section 3.5.1, Interconnection Customers that submit their Interconnection Requests more than five (5) Business Days before April 15 will receive a notification from the CAISO regarding their Interconnection Request's completion, and will have an opportunity to provide any missing information by April 15. To the extent the CAISO and Participating TO cannot meet the five (5) Business Day response time for Interconnection Requests submitted or corrected more than five (5) Business Days before April 15, the Interconnection Customer will receive a day-for-day extension on the April 15 completion deadline and the June 30 validation deadline. Interconnection Customers that submit or correct their Interconnection Requests within five (5) Business Days of April 15 may not receive a notification by April 15, will not receive an extension of the April 15 deadline, and must have submitted a complete Interconnection Request to be validated pursuant to Section 3.5.2.

Pursuant to Section 3.5.2, the CAISO and Participating TO will notify the Interconnection Customer whether its Interconnection Request is valid or contains deficiencies within ten (10) Business Days of April 15 or when the Interconnection Request is deemed complete, whichever is later. The CAISO will notify an Interconnection Customer within five (5) Business Days whether its Interconnection Request is now valid when an Interconnection Customer attempts to cure a deficiency. For all information submitted prior to May 31, to the extent the CAISO and Participating TO cannot meet the deadlines described here, the Interconnection Customer will receive a day-for-day extension on the June 30

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deadline for validation. If an Interconnection Customer does not respond to a deficiency notice until after May 31, it will not receive any extension beyond the June 30 deadline for validation.

### **3.6 Internet Posting**

The CAISO will maintain on the CAISO Website a list of all Interconnection Requests. The list will identify, for each Interconnection Request: (i) the maximum summer and winter megawatt electrical output; (ii) the location by county and state; (iii) the station or transmission line or lines where the interconnection will be made; (iv) the most recent projected Commercial Operation Date; (v) the status of the Interconnection Request, including whether it is active or withdrawn; (vi) the availability of any studies related to the Interconnection Request; (vii) the date of the Interconnection Request; (viii) the type of Generating Facility to be constructed (e.g., combined cycle, combustion turbine, wind turbine, and fuel type); (ix) requested Deliverability statuses, and (x) project name.

Except in the case of an Affiliate, the list will not disclose the identity of the Interconnection Customer until the Interconnection Customer executes a GIA or requests that the applicable Participating TO(s) and the CAISO file an unexecuted GIA with FERC. The CAISO shall post on the CAISO Website an advance notice whenever a Scoping Meeting will be held with an Affiliate of a Participating TO.

The CAISO shall post to the CAISO Website any deviations from the study timelines set forth herein. The CAISO shall further post to the secure CAISO Website portions of the Phase I Interconnection Study that do not contain customer-specific information following the final Results Meeting and portions of the Phase II Interconnection Study that do not contain customer-specific information no later than publication of the final Transmission Plan under CAISO Tariff Section 24.2.5.2 (such posted information to be placed on the secure CAISO Website to protect any Critical Energy Infrastructure Information contained therein). The CAISO shall post to the secure CAISO Website any documents or other materials posted pursuant to this or a Business Practice Manual that contain Critical Energy Infrastructure Information.

#### **3.6.1 Interconnection Studies Statistics**

The CAISO will maintain on its website summary statistics related to processing Interconnection Studies pursuant to Interconnection Requests, updated quarterly. The CAISO will maintain a link on OASIS to the CAISO website with the interconnection statistics. These statistics will include:

##### **3.6.1.1 Phase I Interconnection Studies**

- (A) The number of Interconnection Requests to the CAISO Controlled Grid that had Phase I Interconnection Studies completed;
- (B) The number of Interconnection Requests to the CAISO Controlled Grid that had Phase I Interconnection Studies completed beyond the one hundred seventy (170) days planned for the Phase I Interconnection Study pursuant to Section 6.6 of this GIDAP;
- (C) The number of active, valid Interconnection Requests with ongoing incomplete Phase I Interconnection Studies that have exceeded the one hundred seventy (170) days planned for the Phase I Interconnection Study pursuant to Section 6.6 of this GIDAP;
- (D) The mean time (in days) of Phase I Interconnection Studies completed from the date when the CAISO began the annual Phase I Interconnection Study pursuant to Section 6.6 of this GIDAP to the date the CAISO provided the completed Phase I Interconnection Study to the Interconnection Customer;

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- (E) The percentage of Phase I Interconnection Studies exceeding the one hundred seventy (170) days planned for the Phase I Interconnection Study pursuant to Section 6.6 of this GIDAP, calculated as the sum of (B) plus (C), divided by the sum of (A) plus (C).

**3.6.1.2 Phase II Interconnection Studies**

- (A) The number of Interconnection Requests to the CAISO Controlled Grid that had Phase II Interconnection Studies completed;
- (B) The number of Interconnection Requests to the CAISO Controlled Grid that had Phase II Interconnection Studies completed beyond the two hundred and five (205) days planned for the Phase II Interconnection Study pursuant to Section 8.5 of this GIDAP;
- (C) The number of active, valid Interconnection Requests with ongoing incomplete Phase II Interconnection Studies that have exceeded the two hundred and five (205) days planned for the Phase II Interconnection Study pursuant to Section 8.5 of this GIDAP;
- (D) The mean time (in days) of Phase II Interconnection Studies completed from the date when the CAISO began the annual Phase II Interconnection Study pursuant to Section 8.5 of this GIDAP to the date the CAISO provided the completed Phase II Interconnection Study to the Interconnection Customer;
- (E) The percentage of Phase II Interconnection Studies exceeding the two hundred and five (205) days planned for the Phase II Interconnection Study pursuant to Section 8.5 of this GIDAP, calculated as the sum of (B) plus (C), divided by the sum of (A) plus (C).

**3.6.1.3 Interconnection Requests Withdrawn**

- (A) The number of Interconnection Requests withdrawn;
- (B) The number of Interconnection Requests withdrawn before completion of any Interconnection Studies;
- (C) The number of Interconnection Requests withdrawn before completion of their Phase II Interconnection Study;
- (D) The number of Interconnection Requests withdrawn after executing a GIA or before the Interconnection Customer requests filing an unexecuted, new GIA;
- (E) Mean time (in days), for all withdrawals, from the date when the request was determined to be valid to when the CAISO received the request to withdraw from the queue.

**3.6.2 Retention**

The CAISO will keep the quarterly interconnection studies statistics on the CAISO Website for three (3) calendar years, commencing in the first quarter of 2020.

**3.6.3 FERC Reporting**

In the event that any of the percentages calculated in any subparagraph E of Section 3.6.1.1 and 3.6.1.2 exceeds twenty five (25) percent for two (2) consecutive quarters, the CAISO will, for the next four quarters and until those percentages fall below twenty five (25) percent for two (2) consecutive quarters:

- (i) submit a report to FERC describing the reason for each study or group of clustered

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studies pursuant to an Interconnection Request that exceeded its deadline for completion (excluding any allowance for Reasonable Efforts). The CAISO will describe the reasons for each study delay and any steps taken to remedy these specific issues and, if applicable, prevent such delays in the future. The CAISO will file the report with FERC within forty five (45) days of the end of the calendar quarter.

- (ii) aggregate and publish on the CAISO Website the total number of employee-hours and third party consultant hours expended towards its Interconnection Studies. The CAISO will publish these figures within thirty (30) days of the end of the calendar quarter.

### **3.7 Coordination with Affected Systems**

Pursuant to Section 3.7.1, the CAISO will notify the Affected System Operators that are potentially affected by the Interconnection Customer's Interconnection Request or Group Study within which the Interconnection Customer's Interconnection Request will be studied. The CAISO will coordinate the conduct of any studies required to determine the impact of the Interconnection Request on Affected Systems with Affected System Operators, to the extent possible, and, if possible, the CAISO will include those results (if available) in its applicable Interconnection Study within the time frame specified in this GIDAP. The CAISO will include Affected System Operators in all meetings held with the Interconnection Customer as required by this GIDAP.

The Interconnection Customer will cooperate with the CAISO in all matters related to the conduct of studies and the determination of modifications to Affected Systems, including providing consent to CAISO's identification of Interconnection Customer's name, Generating Facility project name, and release of information that the Interconnection Customer provided as part of its Interconnection Request to the Affected System, and participating in any coordinating activities and communications undertaken by the Affected System or CAISO. If required by an Identified Affected System, the Interconnection Customer will sign separate study agreements with the Identified Affected System and pay for necessary studies. Identified Affected Systems will cooperate with the CAISO in all matters related to the Identified Affected System Operators' determination of modifications to Identified Affected Systems.

#### **3.7.1 Timing for Identification of Identified Affected Systems**

The CAISO will provide notice to the Affected System Operators that are potentially affected by the Interconnection Customer's Interconnection Request or Group Study within thirty (30) calendar days after determining which projects in each study cluster have posted their initial Interconnection Financial Security.

The CAISO may later notify Affected Systems if (i) the CAISO failed to identify the Affected System initially; (ii) the Interconnection Customer modifies its project such that an electric system becomes a potentially Affected System; or (iii) the Interconnection Customer converts from a Wholesale Distribution Access Tariff to the CAISO Tariff and the same Affected Systems were not notified previously or the conversion was due to a system change. In such cases, the CAISO will coordinate with the Interconnection Customer and the potentially Affected System Operator to develop an expedited timeline to determine whether the Affected System is an Identified Affected System. The CAISO will then notify the Interconnection Customer as soon as practical of the new Identified Affected System.

Within sixty (60) calendar days of notification from the CAISO, the Affected System Operator will advise the CAISO in writing that either: (i) the CAISO should consider the electric system to be an Identified Affected System; or (ii) the electric system should not be considered an Identified Affected System. If the Affected System Operator fails to advise the CAISO within (60) calendar days of notification, the CAISO will assume that the electric system is not an Affected System.

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If an electric system operator advises the CAISO that it is an Identified Affected System after the 60-day notification period, the CAISO will not delay the synchronization or Commercial Operation of the Generating Facility for mitigation required by the Affected System unless the Affected System identifies, and the CAISO confirms, a legitimate reliability issue. Where legitimate reliability issues are present, the CAISO will work with the Affected System and the Interconnection Customer to establish temporary mitigations, if possible, for the identified reliability issue. An Affected System's mitigation remedies that may be available outside the CAISO Tariff are unaffected by these provisions.

### **3.8 Withdrawal**

The Interconnection Customer may withdraw its Interconnection Request at any time by written notice of such withdrawal to the CAISO, and the CAISO will notify the applicable Participating TO(s) and Affected System Operators, if any, within three (3) Business Days of receipt of such a notice. In addition, after confirmation by the CAISO of a valid Interconnection Request under Section 3.5.2, if the Interconnection Customer fails to adhere to all requirements of this GIDAP, except as provided in Section 15.5 (Disputes), the CAISO shall deem the Interconnection Request to be withdrawn and shall provide written notice to the Interconnection Customer within five (5) Business Days of the deemed withdrawal and an explanation of the reasons for such deemed withdrawal. Upon receipt of such written notice, the Interconnection Customer shall have five (5) Business Days in which to respond with information or action that either cures the deficiency or supports its position that the deemed withdrawal was erroneous and notifies the CAISO of its intent to pursue Dispute Resolution.

Withdrawal shall result in the removal of the Interconnection Request from the Interconnection Study Cycle. If an Interconnection Customer disputes the withdrawal and removal from the Interconnection Study Cycle and has elected to pursue Dispute Resolution, the Interconnection Customer's Interconnection Request will not be considered in any ongoing Interconnection Study during the Dispute Resolution process.

In the event of such withdrawal, the CAISO, subject to the provisions of Sections 15.1 and 3.5.1.1, shall provide, at the Interconnection Customer's request, all information that the CAISO developed for any completed study conducted up to the date of withdrawal of the Interconnection Request.

### **3.9 Transferability of Interconnection Request**

An Interconnection Customer may transfer its Interconnection Request to another entity only if such entity acquires the specific Generating Facility identified in the Interconnection Request and the Point of Interconnection does not change.

### **3.10 Emergency Interconnection Process**

The CAISO and Participating TO(s) may conduct expedited studies to approve emergency interconnections when all of the following conditions are satisfied:

- (a) The State of California Governor declared an emergency that requires capacity on an expedited basis;
- (b) The CPUC, the CEC, or a California agency specifically identified the interconnection as needed to respond to the State of California Governor's emergency declaration;
- (c) The interconnection would not have a negative impact on the cost or timing of any

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existing Interconnection Request unless the impacted Interconnection Request belongs to the same developer and the developer consents to the impact;

- (d) The interconnection does not require Network Upgrades above \$1 million. The CAISO will publish an annual inflation factor and adjusted amount for this figure with the per unit cost publication on the CAISO Website pursuant to Section 6.4 of this GIDAP;
- (e) The Reliability Network Upgrades required will be constructed in fewer than six (6) months;
- (f) The GIA or amendment for the emergency interconnection will expressly terminate the interconnection for the emergency capacity within three (3) years of the Commercial Operation Date of the emergency capacity. The Interconnection Customer may obtain standard Interconnection Service for the emergency capacity by submitting a subsequent Interconnection Request pursuant to Sections 3.5 or 5.1 of this GIDAP and supplanting the emergency GIA or amendment;
- (g) The emergency interconnection will be ineligible for Delivery Network Upgrades or TP Deliverability except Interim Deliverability consistent with Section 4.6 of this GIDAP, or until it can obtain TP Deliverability by submitting a subsequent Interconnection Request pursuant to Sections 3.5 or 5.1 of this GIDAP;
- (h) The emergency interconnection will not impact Affected Systems; and
- (i) The expedited studies confirm the interconnection may mitigate the emergency.

The Interconnection Customer will provide the CAISO a \$50,000 deposit and all necessary technical information to assess the interconnection. The Interconnection Customer will be responsible for the actual costs incurred by the CAISO and applicable Participating TO(s) in conducting the assessment. If the actual costs of the assessment are less than the deposit provided by the Interconnection Customer, the Interconnection Customer will be refunded the balance. If the actual costs of the assessment are greater than the deposit provided by the Interconnection Customer, the Interconnection Customer shall pay the balance within 30 days of being invoiced. The CAISO shall coordinate the assessment with the Participating TO(s). The Participating TO(s) shall invoice the CAISO for any assessment work within seventy-five (75) calendar days of completion of the assessment, and, within thirty (30) days thereafter, the CAISO shall issue an invoice or refund to the Interconnection Customer, as applicable, based upon such submitted Participating TO invoices and the CAISO's own costs for the assessment.

The CAISO and Participating TO(s) will conduct all necessary studies, publish study results, and tender a draft GIA or amendment to the Interconnection Customer.

Notwithstanding any other provision, all refunds pursuant to this section will be processed in accordance with the CAISO's generally accepted accounting practices, including monthly batched deposit refund disbursements. Any CAISO deadline will be tolled to the extent the Interconnection Customer has not provided the CAISO with the appropriate documents to facilitate the Interconnection Customer's refund, or if the Interconnection Customer has any outstanding invoice balance due to the CAISO on another project owned by the same Interconnection Customer.

#### **Section 4 Independent Study Process**

The CAISO, in coordination with the applicable Participating TO(s), will study Interconnection Requests eligible for treatment under this Independent Study Process independently from other Interconnection Requests.

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In the event of a conflict between this Section 4 and another provision of this GIDAP, Section 4 shall govern.

**4.1 Criteria for Independent Study Process Eligibility**

Any Interconnection Request that meets the following criteria will be processed under the Independent Study Process:

- 4.1.1** The Interconnection Customer must provide, along with its Interconnection Request, an objective demonstration that inclusion in a Queue Cluster will not accommodate the desired Commercial Operation Date for the Generating Facility. As part of this demonstration, the Interconnection Customer must show that the desired Commercial Operation Date is physically and commercially achievable, by demonstrating all of the following:
- (i) The Interconnection Customer has obtained, or has demonstrated the ability to obtain, all regulatory approvals and permits needed to complete construction in time to meet the Generating Facility's requested Commercial Operation Date.
  - (ii) The Interconnection Customer is able to provide, or has demonstrated the ability to obtain, a purchase order for generating equipment specific to the proposed Generating Facility, or a statement signed by an officer or authorized agent of the Interconnection Customer demonstrating that the Interconnection Customer has a commitment for the supply of its major generating equipment in time to meet the Commercial Operation Date through a purchase agreement to which the Interconnection Customer is a party.
  - (iii) The Interconnection Customer can provide reasonable evidence of adequate financing or other financial resources necessary to make the Interconnection Financial Security postings required in Sections 11.2 and 11.3.
  - (iv) The Point of Interconnection proposed by the Interconnection Customer must be to either: (1) an existing facility on the CAISO Controlled Grid that does not require any expansion in order to accommodate the interconnection of the Generating Facility; or (2) a facility approved in the Transmission Planning Process or identified as necessary through Interconnection Studies performed for other Interconnection Customers that is fully permitted, is under construction at the time the Interconnection Request is made, and is expected to be in service by the requested Commercial Operation Date of the Generating Facility.
  - (v) With respect to any Reliability Network Upgrades that are anticipated to be needed to interconnect the Generating Facility, and that are already part of an existing plan of service or have been identified as necessary through Interconnection Studies performed for other Interconnection Customers, or have been identified in the Transmission Planning Process, such Reliability Network Upgrades must be either in service or under construction and have a completion date no later than the requested Commercial Operation Date of the Generating Facility.
- 4.1.2** The Interconnection Customer must demonstrate Site Exclusivity.
- 4.1.3** The proposed Generating Facility must be electrically independent of Interconnection Requests included in an existing Queue Cluster, pursuant to Section 4.2. In addition, the proposed Generating Facility must be electrically independent of any other Generating Facility that is currently being studied under an earlier-queued Independent Study Process Interconnection Request.



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- 4.1.4** The CAISO will inform an Interconnection Customer whether it has satisfied the requirements set forth in Sections 4.1.1 and 4.1.2 within thirty (30) calendar days of receiving the Interconnection Request.
- 4.1.5** The CAISO will inform an Interconnection Customer whether it has satisfied the requirements set forth in Sections 4.1.3 within thirty (30) calendar days of receiving the data necessary to determine whether the Interconnection Customer has satisfied such requirements. For a proposed Generating Facility in a study area with active Interconnection Requests in the current Queue Cluster or the Independent Study Process, such 30-calendar day period will commence when the Phase I Interconnection Study results are available for the current Queue Cluster and all system impact studies (or combined system impact and facilities studies) have been completed for all earlier-queued Independent Study Process Interconnection Requests in the same study area.
- 4.1.6** Any Interconnection Request that does not satisfy the criteria set forth in Sections 4.1.1, 4.1.2, and 4.1.3 shall be deemed withdrawn, without prejudice to the Interconnection Customer submitting a request at a later date, unless the Interconnection Customer notifies the CAISO in writing within ten (10) Business Days that it wishes the CAISO to hold the Interconnection Request for inclusion in the next Queue Cluster Window, in which event the CAISO will do so.

**4.2 Determination of Electrical Independence**

An Interconnection Request will qualify for the Independent Study Process without having to demonstrate electrical independence pursuant to this Section 4.2 if, at the time the Interconnection Request is submitted, there are no other active Interconnection Requests in the same study area in the current Queue Cluster or in the Independent Study Process.

Otherwise, an Interconnection Request submitted under the Independent Study Process must pass all of the tests for determining electrical independence set forth in this Section 4.2 in order to qualify for the Independent Study Process. These tests will utilize study results for active Interconnection Requests in the same study area, including Phase I Interconnection study results for Generating Facilities in the current Queue Cluster and any system impact study (or combined system impact and facilities study) results for earlier queued Generating Facilities being studied in the Independent Study Process.

**4.2.1 Flow Impact Test**

An Interconnection Request shall have satisfied the requirements of this Section if it satisfies, alternatively, either the set of requirements set forth in Section 4.2.1.1 or the set of requirements set forth in Section 4.2.1.2.

**4.2.1.1 Requirement Set Number One: General Independent Study Requests**

The CAISO, in coordination with the applicable Participating TO(s), will perform the flow impact test for an Interconnection Request requesting to be processed under the Independent Study Process as follows:

- (i) Identify the transmission facility closest, in terms of electrical distance, to the proposed Point of Interconnection of the Generating Facility being tested that will be electrically impacted, either as a result of Reliability Network Upgrades identified or reasonably expected to be needed in order to alleviate power flow concerns caused by Generating Facilities currently being studied in a Queue Cluster, or as a result of Reliability Network Upgrades identified or reasonably expected to be needed to alleviate power flow concerns caused by earlier queued Generating

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Facilities currently being studied through the Independent Study Process. If the current Queue Cluster studies or earlier queued Independent Study Process studies have not yet determined which transmission facilities electrically impacted by the Generating Facility being tested require Reliability Network Upgrades to alleviate power flow concerns, and the CAISO cannot reasonably anticipate whether such transmission facilities will require such Reliability Network Upgrades from other data, then the CAISO will wait to conduct the independence analysis under this section until sufficient information exists in order to make this determination. If the flow impact on a Reliability Network Upgrade identified pursuant to these criteria cannot be tested due to the nature of the Upgrade, then the flow impact test will be performed on the limiting element(s) causing the need for the Reliability Network Upgrade.

- (ii) The incremental power flow on the transmission facility identified in Section 4.2.1.1(i) that is caused by the Generating Facility being tested will be divided by the lesser of the Generating Facility's size or the transmission facility capacity. If the result is five percent (5%) or less, the Generating Facility shall pass the flow impact test. If the Generating Facility being tested is tested against the nearest transmission facility and that transmission facility has been impacted by a cluster that required an upgrade as a result of a contingency, then that contingency will be used when applying the flow impact test.
- (iii) If the Generating Facility being tested under the flow impact test is reasonably expected to impact transmission facilities that were identified, per Section 4.2.1.1(i), when testing one or more earlier queued Generating Facilities currently being studied through the Independent Study Process, then an additional aggregate power flow test shall be performed on these earlier identified transmission facilities. The aggregate power flow test shall require that the aggregated power flow of the Generating Facility being tested, plus the flow of all earlier queued Generating Facilities currently being studied under the Independent Study Process that were tested against the transmission facilities described in the previous sentence, must be five (5) percent or less of those transmission facilities' capacity. However, even if the aggregate power flow on any transmission facility tested pursuant to this section (iii) is greater than five (5) percent of the transmission facility's capacity but the incremental power flow as a result of the Generating Facility being tested is one (1) percent or less than of the transmission facility's capacity, the Generating Facility shall pass the test.

If the Generating Facility being tested is tested against the nearest transmission facility and that transmission facility has been impacted by a cluster that required an upgrade as a result of a contingency, then that contingency will be used when applying the flow impact test.

The Generating Facility being tested must pass both this aggregate test as well as the individual flow test described in Section 4.2.1.1(ii), in no particular order.

**4.2.1.2 Requirement Set Number Two: for Requests for Independent Study of Behind-the-Meter Capacity Expansion of Generating Facilities**

This Section 4.2.1.2 applies to an Interconnection Request relating to a behind-the-meter capacity expansion of a Generating Facility. Such an Interconnection

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Request submitted under the Independent Study Process will satisfy the requirements of Section 4.2.1 if it satisfies all of the following technical and business criteria:

(i) Technical criteria.

- 1) The behind-the-meter capacity expansion shall not take place until after the original Generating Facility has achieved Commercial Operation and all Reliability Network Upgrades for the original Generating Facility have been placed in service. An Interconnection Request for behind-the-meter capacity expansion may be submitted prior to the Commercial Operation Date of the original Generating Facility.
- 2) The Interconnection Customer must install an automatic generator tripping scheme sufficient to ensure that the total output of the Generating Facility, including the behind-the-meter capacity expansion, does not at any time exceed the capacity studied in the Generating Facility's original Interconnection Request. The CAISO will have the authority to trip the generating equipment subject to the automatic generator tripping scheme or take any other actions necessary to limit the output of the Generating Facility so that the total output of the Generating Facility does not exceed the originally studied capacity.

(ii) Business criteria.

- 1) The Deliverability Status (Full Capacity, Partial Capacity or Energy-Only, and Off-Peak Deliverability Status or Off-Peak Energy Only) of the original Generating Facility will remain the same after the behind-the-meter capacity expansion. The capacity expansion will have Energy-Only, Off-Peak Energy Only Deliverability Statuses unless otherwise specified in this GIDAP, and the original Generating Facility and the behind-the-meter capacity expansion will be metered separately from one another and be assigned separate Resource IDs, except as set forth in (2) below.
- 2) If the original Generating Facility has Full Capacity Deliverability Status and/or Off-Peak Deliverability Status and the behind-the-meter capacity expansion will use the same technology as the original Generating Facility, the Interconnection Customer may elect to have the original Generating Facility and the behind-the-meter capacity expansion metered together, in which case both the original Generating Facility and the behind-the-meter capacity expansion may have Partial Capacity Deliverability Status and Off-Peak Deliverability Status, as applicable, pursuant to CAISO study results to determine Deliverability, and a separate Resource ID will not be established for the behind-the-meter capacity expansion.
- 3) A request for behind-the-meter expansion shall not operate as a

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basis under the CAISO Tariff to increase the Deliverability of the Generating Facility beyond what was or would have been allocated to the original Generating Facility before the Interconnection Request for behind-the-meter capacity expansion, unless the expansion has received a separate TP Deliverability allocation pursuant to Section 8.9.2.

- 4) The GIA will be amended to reflect the revised operational features of the Generating Facility's behind-the-meter capacity expansion.
- 5) An active Interconnection Customer may at any time request that the CAISO convert the Interconnection Request for behind-the-meter capacity expansion to an Independent Study Process Interconnection Request to evaluate an incremental increase in electrical output (MW generating capacity) for the existing Generating Facility. The Interconnection Customer must accompany such a conversion request with an appropriate Interconnection Study Deposit and agree to comply with other sections of Section 4 applicable to an Independent Study Process Interconnection Request.

#### **4.2.2 Short Circuit Test**

The Generating Facility shall pass the short circuit test if (i) the combined short circuit contribution from all the active Interconnection Requests in the Independent Study Process in the same study area is less than five (5) percent of the available capacity of the circuit breaker upgrade identified in Section 4.2.1.1 and; (ii) total fault duty on each circuit breaker upgrade identified for the current Queue Cluster and active Independent Study Process Interconnection Requests in the same study area is less than eighty (80) percent of the nameplate capacity of the respective circuit breaker upgrade.

#### **4.2.3 Transient Stability Test**

The Generating Facility shall pass the transient stability test if the Generating Facility has requested interconnection in a study area where transient stability issues are not identified for active Interconnection Requests in the current Queue Cluster or Independent Study Process.

#### **4.2.4 Reactive Support Test**

The Generating Facility shall pass the reactive support test if the Generating Facility has requested interconnection in a study area where reactive support needs are not identified as requiring Reliability Network Upgrades for active Interconnection Requests in the current Queue Cluster or Independent Study Process.

### **4.3 Scoping Meeting**

Within five (5) Business Days after the CAISO notifies the Interconnection Customer that the Generating Facility associated with its Interconnection Request has satisfied the electrical independence test set forth in Section 4.2, the CAISO shall establish a date agreeable to the Interconnection Customer and the applicable Participating TO(s) for the Scoping Meeting. With input from the Participating TO, the CAISO shall evaluate whether the Interconnection Request is at or near the boundary of an affected Participating TO(s)' service territory or of any other Affected System(s) so as to potentially affect such third parties, and, if such is the case, the CAISO shall invite the affected Participating TO(s) and/or Affected System Operator(s), in

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accordance with Section 3.7, to the Scoping Meeting by informing such third parties, as soon as practicable, of the time and place of the scheduled Scoping Meeting.

The purpose of the Scoping Meeting shall be to discuss the Interconnection Request and review existing studies relevant to the Interconnection Request. The applicable Participating TO(s) and the CAISO will bring to the meeting, as reasonably necessary to accomplish its purpose, technical data, including, but not limited to, (i) general facility loadings, (ii) general instability issues, (iii) general short circuit issues, (iv) general voltage issues, and (v) general reliability issues. The Interconnection Customer will bring to the Scoping Meeting, in addition to the technical data in Attachment A to Appendix 1, any system studies previously performed. The applicable Participating TO(s), the CAISO, and the Interconnection Customer will also bring to the meeting personnel and other resources as may be reasonably required to accomplish the purpose of the meeting in the time allocated for the meeting. The CAISO shall prepare minutes from the meeting, and provide an opportunity for other attendees and the Interconnection Customer to confirm the accuracy thereof. The Scoping Meeting may be omitted by agreement of the Interconnection Customer, Participating TO, and the CAISO.

The CAISO shall, no later than five (5) Business Days after the Scoping Meeting (or agreement to forego such Scoping Meeting), provide the Interconnection Customer with an Independent Study Process Study Agreement (in the form set forth in Appendix 6 to the GIDAP), which shall contain an outline of the scope of the system impact and facilities study and a non-binding good-faith estimate of the cost to perform the study. The Interconnection Customer shall return the executed Independent Study Process Study Agreement or request an extension of time for good cause within thirty (30) Business Days thereafter, or the Interconnection Request shall be deemed withdrawn.

#### **4.4 System Impact and Facilities Study**

- 4.4.1** The system impact and facilities study will consist of a short circuit analysis, a stability analysis, a power flow analysis, an assessment of the potential magnitude of financial impacts, if any, on Local Furnishing Bonds, and a proposed resolution, and any other studies that are deemed necessary.
- 4.4.2** The system impact and facilities study shall state the assumptions upon which it is based, state the results of the analyses, and provide the requirement or potential impediments to providing the requested Interconnection Service. The system impact and facilities study shall specify and estimate the cost of the equipment, engineering, procurement, and construction work (including overheads) needed to implement the conclusions of the study, including, if applicable, the cost of remedial measures that address the financial impacts, if any, on Local Furnishing Bonds. The system impact and facilities study shall also identify (1) the electrical switching configuration of the equipment, including, without limitation, transformer, switchgear, meters, and other station equipment, (2) the nature and estimated cost of the Participating TO's Interconnection Facilities and Reliability Network Upgrades necessary to accomplish the Interconnection, and (3) an estimate of the time required to complete the construction and installation of such facilities or for effecting remedial measures that address the financial impacts, if any, on Local Furnishing Bonds.
- 4.4.3** The system impact and facilities study will be completed and the results transmitted to the Interconnection Customer within one hundred twenty (120) calendar days after the execution of an Independent Study Process Study Agreement. The Interconnection Customer shall execute the agreement(s) and deliver them to the CAISO, and shall make its initial posting of Interconnection Financial Security in accordance with Section 11.2, or its Interconnection Request shall be deemed withdrawn.
- 4.4.4** If requested by the Interconnection Customer, a Results Meeting shall be held among the

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CAISO, the applicable Participating TO(s), and the Interconnection Customer to discuss the results of the system impact and facilities study report, including assigned cost responsibility. The CAISO shall prepare minutes from the meeting. Any such Results Meeting will be held within twenty (20) Business Days of the date the system impact and facilities study report is provided to the Interconnection Customer.

Should the Interconnection Customer provide written comments on the system impact and facilities study report within ten (10) Business Days of receipt of the report, but in no event fewer than three (3) Business Days before the Results Meeting conducted to discuss the report, whichever is sooner, the CAISO will address the written comments in the Results Meeting. Should the Interconnection Customer provide comments at any later time (up to the time of the Results Meeting), then such comments shall be considered informal inquiries to which the CAISO will provide informal, informational responses at the Results Meeting, to the extent possible. The Interconnection Customer may submit, in writing, additional comments on the final system impact and facilities study report up to three (3) Business Days following the Results Meeting. The CAISO shall include any written comments received from the Interconnection Customer in the final system impact and facilities study report.

Based on any discussion at the Results Meeting and any comments received, the CAISO (in consultation with the applicable Participating TO(s)) will determine whether it is necessary to follow the final system impact and facilities study report with a revised study report or an addendum. The CAISO will issue any such revised report or addendum to the Interconnection Customer no later than fifteen (15) Business Days following the Results Meeting.

Upon request, the CAISO shall provide the Interconnection Customer all supporting documentation, workpapers, and relevant pre-Interconnection Request and post-Interconnection Request power flow, short circuit, and stability databases for the final system impact or facilities study, subject to confidentiality arrangements consistent with Section 15.1.

- 4.4.5** For Interconnection Requests under the Independent Study Process, the postings of Interconnection Financial Security described in Section 11.3 will be based on the cost responsibility for Network Upgrades, and Participating TO's Interconnection Facilities set forth in the system impact and facilities study.

**4.5 Intentionally left blank.**

**4.6 Deliverability Assessments**

Interconnection Customers under the Independent Study Process that request Partial Capacity, Full Capacity Deliverability Status, or Off-Peak Deliverability Status will be deemed to have selected Option (A) under Section 7.2 and will have Deliverability Assessments performed as part of the next scheduled Phase I and Phase II Interconnection Studies for the Queue Cluster study performed for the next Queue Cluster Window that opens after the CAISO received the request. If the Deliverability Assessment identifies any Network Upgrades that are triggered by the Interconnection Request, the Interconnection Customer will be responsible to pay its proportionate share of the costs of those Upgrades, pursuant to Sections 6, 7, and 8, and for posting Interconnection Financial Security pursuant to the rules for Interconnection Customers in Queue Clusters pursuant to Section 11. If the Generating Facility (or increase in capacity of an existing Generating Facility) achieves its Commercial Operation Date before the Deliverability Assessment is completed or before any necessary Delivery Network Upgrades are in service, the CAISO will determine whether Interim Deliverability is available, and will award it to the Generating Facility. The CAISO will make this determination as soon as practical, but no later than the calendar month before the Generating Facility or capacity increase achieves its

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Commercial Operation Date. The Generating Facility will maintain any Interim Deliverability until (1) the Interconnection Customer to which that Deliverability was originally allocated achieves its Commercial Operation Date; or (2) the CAISO completes the next scheduled Deliverability Assessment and the Generating Facility's Delivery Network Upgrades are complete, enabling Partial Capacity or Full Capacity Deliverability Status. If the CAISO determines Interim Deliverability is not available, the Generating Facility or capacity increase will be Energy Only until the CAISO completes the next scheduled Deliverability Assessment and the Generating Facility's Delivery Network Upgrades are complete. This Section shall not apply to Interconnection Customers requesting behind-the-meter capacity expansion under Section 4.2.1.2. Separate rules regarding the Deliverability Status of such requests are set forth in that Section.

#### **4.7 Extensions of Commercial Operation Date**

Extensions of the Commercial Operation Date for Interconnection Requests under the Independent Study Process will not be granted except for circumstances beyond the control of the Interconnection Customer.

#### **4.8 Generator Interconnection Agreement**

An Interconnection Customer in the Independent Study Process that requests Off-Peak Deliverability Status, Partial Capacity or Full Capacity Deliverability Status must still negotiate and execute a GIA reflecting Off-Peak Energy Only and Energy-Only Deliverability Status pursuant to the requirements and timelines set forth in Section 13. Upon the completion of the Deliverability Assessments per Section 4.6, the Interconnection Customer's GIA will be amended as appropriate to reflect the results thereof.

### **Section 5 Fast Track Process**

#### **5.1 Applicability and Initiation of Fast Track Process Request**

Applicability to a proposed Generating Facility. An Interconnection Customer may request interconnection of a proposed Generating Facility to the CAISO Controlled Grid under the Fast Track Process if the Generating Facility is no larger than 5 MW and is requesting Energy-Only Deliverability Status and if the Interconnection Customer's proposed Generating Facility meets the codes, standards, and certification requirements of Appendices 9 and 10 of this GIDAP, or if the applicable Participating TO notifies the CAISO that it has reviewed the design for or tested the proposed Small Generating Facility and has determined that the proposed Generating Facility may interconnect consistent with Reliability Criteria and Good Utility Practice.

Applicability to an existing Generating Facility. If the Interconnection of an existing Generating Facility meets the qualifications for Interconnection under CAISO Tariff Section 25.1(d) or (e) but, at the same time, the Interconnection Customer also seeks to repower or reconfigure the existing Generating Facility in a manner that increases the gross generating capacity by not more than 5 MW, then the Interconnection Customer may request that the Fast Track Process be applied with respect to the repowering or reconfiguration of the existing Generating Facility that results in the incremental increase in MW.

Initiating the Fast Track Interconnection Request. To initiate an Interconnection Request under the Fast Track Process, and have the Interconnection Request considered for validation the Interconnection Customer must provide the CAISO with:

- (i) a completed Interconnection Request as set forth in Appendix 1;
- (ii) a non-refundable processing fee of \$500; and
- (iii) a demonstration of Site Exclusivity. For the Fast Track Process, such demonstration may

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include documentation reasonably demonstrating a right to locate the Generating Facility on real estate or real property improvements owned, leased, or otherwise legally held by another.

The CAISO shall review and validate the Fast Track Process Interconnection Request pursuant to Section 5.2.

In the event of a conflict between this Section 5 and another provision of this GIDAP, Section 5 shall govern.

## **5.2 Initial Review**

Within thirty (30) Calendar Days after the CAISO notifies the Interconnection Customer that the Interconnection Request is deemed complete, valid, and ready to be studied, the applicable Participating TO shall perform an initial review using the screens set forth in Section 5.2.1 below, and shall notify the Interconnection Customer of the results in a report that provides the details of and data underlying the Participating TO's determinations under the screens.

### **5.2.1 Screens**

**5.2.1.1** The proposed Generating Facility's Point of Interconnection must be on the CAISO Controlled Grid.

**5.2.1.2** For interconnection of a proposed Generating Facility to a radial transmission circuit on the CAISO controlled grid, the aggregated generation on the circuit, including the proposed Generating Facility, shall not exceed 15 percent of the line section annual peak load as most recently measured at the substation. For purposes of this Section 5.2.1.2, a line section shall be considered as that portion of a Participating TO's electric system connected to a customer bounded by automatic sectionalizing devices or the end of the transmission line.

This screen will not be required for a proposed interconnection of a Generating Facility to a radial transmission circuit with no load.

In cases where the circuit lacks the telemetry needed to provide the annual peak load measurement data, the CAISO shall use power flow cases from the latest completed Queue Cluster studies (either Phase I or Phase II) to perform this screen.

**5.2.1.3** For Generating Facilities requesting Off-Peak Deliverability Status, the CAISO can determine that the Generating Facility can receive Off-Peak Deliverability Status without participating in the Off-Peak Deliverability Assessment and without Off-Peak Network Upgrades.

**5.2.1.4** The proposed Generating Facility, in aggregate with other Generating Facilities on the transmission circuit, shall not contribute more than 10 percent to the transmission circuit's maximum fault current at the point on the high voltage (primary) level nearest the proposed point of change of ownership.

The CAISO shall use the short circuit study data from the latest completed Queue Cluster studies (either Phase I or Phase II) to test this screen.

**5.2.1.5** The proposed Generating Facility, in aggregate with other Generating Facilities on the transmission circuit, shall not cause any transmission protective devices and equipment (including, but not limited to, substation breakers, fuse cutouts, and line reclosers), or Interconnection Customer equipment on the system to



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exceed 87.5 percent of the short circuit interrupting capability; nor shall the interconnection be proposed for a circuit that already exceeds 87.5 percent of the short circuit interrupting capability.

The CAISO shall use the short circuit study data from the most recently completed Queue Cluster studies (either Phase I or Phase II) to test this screen.

**5.2.1.6** A Generating Facility will fail this initial review, but will be eligible for a supplemental review, if it proposes to interconnect in an area where there are known transient stability, voltage, or thermal limitations identified in the most recently completed Queue Cluster studies or transmission planning process.

**5.2.1.7** No construction of facilities by a Participating TO on its own system shall be required to accommodate the proposed Generating Facility.

**5.2.2** If the proposed interconnection passes the screens, the Interconnection Request shall be approved. Within fifteen (15) Business Days thereafter, the Participating TO will provide the Interconnection Customer with a Small Generator Interconnection Agreement for execution.

**5.2.3** If the proposed interconnection fails the screens, but the CAISO and Participating TO determine that the Generating Facility may nevertheless be interconnected consistent with safety, reliability, and power quality standards under these procedures, the Participating TO shall, within fifteen (15) Business Days, provide the Interconnection Customer with a Small Generator Interconnection Agreement for execution

**5.2.4** If the proposed interconnection fails the screens and the CAISO and Participating TO do not or cannot determine from the initial review that the Generating Facility may nevertheless be interconnected consistent with safety, reliability, and power quality standards unless the Interconnection Customer is willing to consider minor modifications or further study, the Participating TO shall provide the Interconnection Customer with the opportunity to attend a customer options meeting as described in Section 5.4.

**5.3 [Not Used]**

**5.4 Customer Options Meeting**

If the CAISO and Participating TO determine the Interconnection Request cannot be approved without (1) minor modifications at minimal cost; (2) a supplemental study or other additional studies or actions; or (3) incurring significant cost to address safety, reliability, or power quality problems, the CAISO and Participating TO shall notify the Interconnection Customer within five (5) Business Days of that determination and provide copies of all data and analyses underlying their conclusion. Within ten (10) Business Days of the CAISO and Participating TO's determination, the CAISO and Participating TO shall offer to convene a customer options meeting with the CAISO and Participating TO to review possible Interconnection Customer facility modifications or the screen analysis and related results, to determine what further steps are needed to permit the Generating Facility to be connected safely and reliably. At the time of notification of the CAISO and Participating TO's determination, or at the customer options meeting, the CAISO and Participating TO shall:

**5.4.1** Offer to perform facility modifications or modifications to the Participating TO's electric system (e.g., changing meters, fuses, relay settings) and provide a non-binding good faith estimate of the limited cost to make such modifications to the Participating TO's electric system. If the Interconnection Customer agrees to pay for the modifications to

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the Participating TO's electric system, the Participating TO will provide the Interconnection Customer with an executable interconnection agreement within ten (10) Business Days of the customer options meeting; or

- 5.4.2 Offer to perform a supplemental review in accordance with Section 5.5 and provide a non-binding good faith estimate of the costs of such review; or
- 5.4.3 Offer to include the Interconnection Request in either the next Queue Cluster Window or the Independent Study Process, subject to the eligibility criteria set forth in Section 4.1, and the provision of the study deposit set forth in Section 3.5. Within fifteen (15) Business Days of the customer options meeting the Interconnection Customer shall provide the CAISO, in writing, with its election on how to proceed with its Interconnection Request. If the Interconnection Customer does not make an election within this time period, the CAISO will deem the Interconnection Request withdrawn.

**5.5 Supplemental Review**

- 5.5.1 To accept the offer of a supplemental review, the Interconnection Customer shall agree in writing and submit a deposit for the estimated costs of the supplemental review in the amount of the good faith estimate determined by the CAISO and Participating TO, both within fifteen (15) Business Days of the offer, or elect one of the options set forth in Section 5.4.3.
- 5.5.2 The Interconnection Customer may specify the order in which the CAISO and Participating TO will complete the screens in Section 5.5.4.
- 5.5.3 The Interconnection Customer shall be responsible for the CAISO and Participating TO's actual costs for conducting the supplemental review. The Interconnection Customer must pay any review costs that exceed the deposit within twenty (20) Business Days of receipt of the invoice or resolution of any dispute. If the deposit exceeds the invoiced costs, the CAISO and Participating TO will return such excess, without interest, within twenty (20) Business Days of the invoice.
- 5.5.4 Within thirty (30) Business Days following receipt of the deposit for a supplemental review, or some longer period agreed to by the Interconnection Customer, CAISO, and Participating TO, the CAISO and Participating TO shall (1) perform a supplemental review using the screens set forth below; (2) notify in writing the Interconnection Customer of the results; and (3) include with the notification copies of the analysis and data underlying the CAISO and Participating TO's determinations under the screens. Unless the Interconnection Customer provided instructions for how to respond to the failure of any of the supplemental review screens below at the time the Interconnection Customer accepted the offer of supplemental review, the CAISO and Participating TO shall notify the Interconnection Customer following the failure of any of the screens, or if they are unable to perform the screen in Section 5.5.4.1, within two (2) Business Days of making such determination to obtain the Interconnection Customer's permission to: (1) continue evaluating the proposed interconnection under this Section 5.5.4; (2) terminate the supplemental review and offer the Interconnection Customer the options set forth in Section 5.4.3; or (3) terminate the supplemental review upon withdrawal of the Interconnection Request by the Interconnection Customer.

In conducting these screens, the CAISO and Participating TO will use power flow or short circuit study data from the most recently completed Queue Cluster studies (either Phase I or Phase II).

- 5.5.4.1 Minimum Load Screen: Where 12 months of line section minimum load data (including onsite load but not station service load served by the proposed Generating Facility) are available, can be calculated, can be estimated from existing data, or determined from a power flow model, the aggregate Generating

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Facility capacity on the line section is less than 100 percent of the minimum load for all line sections bounded by automatic sectionalizing devices upstream of the proposed Generating Facility. If minimum load data is not available, or cannot be calculated, estimated or determined, the CAISO and Participating TO shall include the reason(s) that they are unable to calculate, estimate or determine minimum load in their supplemental review results notification under Section 5.5.4.

**5.5.4.1.1** The type of generation used by the proposed Generating Facility will be taken into account when calculating, estimating, or determining circuit or line section minimum load relevant for the application of screen 5.5.4.1. Solar photovoltaic (PV) generation systems with no battery storage use daytime minimum load (i.e. 10 a.m. to 4 p.m. for fixed panel systems and 8 a.m. to 6 p.m. for PV systems utilizing tracking systems), while all other generation uses absolute minimum load.

**5.5.4.1.2** When this screen is being applied to a Generating Facility that serves some station service load, only the net injection into the Participating TO's electric system will be considered as part of the aggregate generation.

**5.5.4.1.3** The CAISO and Participating TO will not consider as part of the aggregate generation for purposes of this screen generating facility capacity known to be already reflected in the minimum load data.

**5.5.4.2** Voltage and Power Quality Screen: In aggregate with existing generation on the line section, the proposed Generating Facility shall not cause the violation of voltage standards, as set forth in the CAISO's Planning Standards, on any part of the CAISO Controlled Grid.

**5.5.4.3** Safety and Reliability Screen: The location of the proposed Generating Facility and the aggregate generation capacity on the line section do not create impacts to safety or reliability that cannot be adequately addressed without studying the Generating Facility in either the Queue Cluster or Independent Study processes. The CAISO and Participating TO shall give due consideration to the following and other factors in determining potential impacts to safety and reliability in applying this screen.

**5.5.4.3.1** Whether the line section has significant minimum loading levels dominated by a small number of customers (e.g., several large commercial customers).

**5.5.4.3.2** Whether the loading along the line section uniform or even.

**5.5.4.3.3** Whether the proposed Generating Facility is located in close proximity to the substation (i.e., less than 2.5 electrical circuit miles), and whether the line section from the substation to the Point of Interconnection is a Mainline rated for normal and emergency ampacity. For purposes of this screen, a Mainline is the three-phase backbone of a circuit and will typically constitute lines with wire sizes of 4/0 American wire gauge, 336.4 kcmil, 397.5 kcmil, 477 kcmil and 795 kcmil.

**5.5.4.3.4** Whether the proposed Generating Facility incorporates a time delay function to prevent reconnection of the generator to the system until

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system voltage and frequency are within normal limits for a prescribed time.

**5.5.4.3.5** Whether operational flexibility is reduced by the proposed Generating Facility, such that transfer of the line section(s) of the Generating Facility to a neighboring circuit/substation may trigger overloads or voltage issues.

**5.5.4.3.6** Whether the proposed Generating Facility employs equipment or systems certified by a recognized standards organization to address technical issues such as, but not limited to, islanding, reverse power flow, or voltage quality.

**5.5.5** If the proposed interconnection passes the supplemental screens in Sections 5.5.4.1, 5.5.4.2, and 5.5.4.3 above, the Interconnection Request shall be approved and the Participating TO will provide the Interconnection Customer with an executable interconnection agreement within the timeframes established in Sections 5.5.5.1 and 5.5.5.2 below. If the proposed interconnection fails any of the supplemental review screens and the Interconnection Customer does not withdraw its Interconnection Request, it shall be treated in accordance with Section 5.5.5.3 below.

**5.5.5.1** If the proposed interconnection passes the supplemental screens in Sections 5.5.4.1, 5.5.4.2, and 5.5.4.3 above and does not require construction of facilities by the Participating TO on its own system, the interconnection agreement shall be provided within ten (10) Business Days after the notification of the supplemental review results.

**5.5.5.2** If interconnection facilities or minor modifications to the Participating TO's system are required for the proposed interconnection to pass the supplemental screens in Sections 5.5.4.1, 5.5.4.2, and 5.5.4.3 above, and the Interconnection Customer agrees to pay for the modifications to the Participating TO's electric system, the interconnection agreement, along with a non-binding good faith estimate for the interconnection facilities and/or minor modifications, shall be provided to the Interconnection Customer within fifteen (15) Business Days after receiving written notification of the supplemental review results.

**5.5.5.3** If the proposed interconnection would require more than interconnection facilities or minor modifications to the Participating TO's system to pass the supplemental screens in Sections 5.5.4.1, 5.5.4.2, and 5.5.4.3 above, the CAISO and Participating TO shall notify the Interconnection Customer, at the same time they notify the Interconnection Customer with the supplemental review results, and offer the options set forth in Section 5.4.3 above. If the Interconnection Customer does not make an election within fifteen (15) Business Days, the CAISO will deem the Interconnection Request withdrawn.

## **Section 6 Initial Activities and Phase I of the Interconnection Study Process for Queue Clusters**

The provisions of this Section 6 shall apply to all Interconnection Requests except those processed under the Independent Study Process selecting Energy Only Deliverability Status, the Fast Track Process, or the 10 kW inverter process as set forth in Appendix 7.

### **6.1 Initial Activities Following the Close of the Cluster Application Window**

#### **6.1.1 [Intentionally Omitted]**

### **6.1.2 Scoping Meeting**

The CAISO shall establish a date agreeable to the Interconnection Customer and the applicable Participating TO(s) for the Scoping Meeting. All Scoping Meetings shall occur no later than June 30, unless otherwise mutually agreed upon by the Parties. The CAISO shall evaluate whether the Interconnection Request is at or near the boundary of an affected Participating TO(s) service territory or of any other Affected System(s) so as to potentially affect such third parties, and, in such case, the CAISO shall invite the affected Participating TO(s), and/or Affected System Operator(s) in accordance with Section 3.7, to the Scoping Meeting by informing such third parties of the time and place of the scheduled Scoping Meeting as soon as practicable.

The purpose of the Scoping Meeting shall be to discuss reasonable Commercial Operation Dates and alternative interconnection options, to exchange information including any transmission data that would reasonably be expected to impact such interconnection options, to analyze such information and to determine the potential feasible Points of Interconnection and eliminate alternatives given resources and available information. The applicable Participating TO(s) and the CAISO will bring to the meeting, as reasonably necessary to accomplish its purpose, the following: (a) such already available technical data, including, but not limited to, (i) general facility loadings, (ii) general instability issues, (iii) general short circuit issues, (iv) general voltage issues, and (v) general reliability issues, and (b) general information regarding the number, location, and capacity of other Interconnection Requests in the Interconnection Study Cycle that may potentially form a Group Study with the Interconnection Customer's Interconnection Request.

The Interconnection Customer will bring to the Scoping Meeting, in addition to the technical data in Attachment A to Appendix 1, any system studies previously performed. The applicable Participating TO(s), the CAISO and the Interconnection Customer will also bring to the meeting personnel and other resources as may be reasonably required to accomplish the purpose of the meeting in the time allocated for the meeting. On the basis of the meeting, the Interconnection Customer shall designate its Point of Interconnection. The Point of Interconnection and any resultant site change must remain within the same study area as the Point of Interconnection submitted in the original Interconnection Request. The duration of the meeting shall be sufficient to accomplish its purpose.

The CAISO shall prepare minutes from the meeting, and provide the Interconnection Customer and the other attendees an opportunity to confirm the accuracy thereof, that will include, at a minimum, discussions among the applicable Participating TO(s) and the CAISO of the expected results and a good faith estimate of the costs for the Phase I Interconnection Study.

### **6.1.3 Grouping Interconnection Requests**

At the CAISO's option, and in coordination with the applicable Participating TO(s), Interconnection Requests received during the Cluster Application Window for a particular year may be studied individually or in a Group Study for the purpose of conducting one or more of the analyses forming the Interconnection Studies. For each Interconnection Study within an Interconnection Study Cycle, the CAISO may develop one or more Group Studies. A Group Study will include, at the CAISO's sole judgment after coordination with the applicable Participating TO(s), Interconnection Requests that electrically affect one another with respect to the analysis being performed and the annual Transmission Plan, without regard to the nature of the underlying Interconnection Service. The CAISO may also, in its sole judgment after coordination with the applicable Participating TO(s), conduct an Interconnection Study for an Interconnection Request separately to the extent

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warranted by Good Utility Practice based upon the electrical remoteness of the proposed Generating Facility from other Generating Facilities with Interconnection Requests in the Cluster Application Window for a particular year.

An Interconnection Request's inclusion in a Group Study will not relieve the CAISO or Participating TO(s) from meeting the timelines for conducting the Phase I Interconnection Study provided in the GIDAP. Group Studies shall be conducted in such a manner to ensure the efficient implementation of the annual CAISO Transmission Plan in light of the transmission system's capabilities at the time of each study.

**6.2. Scope and Purpose of Phase I Interconnection Study**

The Phase I Interconnection Study shall:

- (i) evaluate the impact of all Interconnection Requests received during the Cluster Application Window for a particular year on the CAISO Controlled Grid;
- (ii) preliminarily identify all LDNUs, LOPNUs, and RNUs needed to address the impacts on the CAISO Controlled Grid of the Interconnection Requests, as Assigned Network Upgrades or Conditionally Assigned Network Upgrades;
- (iii) preliminarily identify for each Interconnection Request required Interconnection Facilities;
- (iv) assess the Point of Interconnection selected by each Interconnection Customer and potential alternatives to evaluate potential efficiencies in overall transmission upgrades costs;
- (v) establish the Current Cost Responsibility, Maximum Cost Responsibility, and Maximum Cost Exposure for each Interconnection Request, until the issuance of the Phase II Interconnection Study report;
- (vi) provide a good faith estimate of the cost of Interconnection Facilities for each Interconnection Request;
- (vii) provide a cost estimate of ADNUs and AOPNUs for each Generating Facility in a Queue Cluster Group Study;
- (viii) identify controls required for each Interconnection Request where the Interconnection Customer requested Interconnection Service Capacity lower than the Generating Facility Capacity;
- (ix) identify any Precursor Network Upgrades; and
- (x) identify RNUs as GRNUs or IRNUs.

The Phase I Interconnection Study will consist of a short circuit analysis, a stability analysis to the extent the CAISO and applicable Participating TO(s) reasonably expect transient or voltage stability concerns, a power flow analysis, including off-peak analysis, an On-Peak Deliverability Assessment, and an Off-Peak Deliverability Assessment for the purpose of identifying LDNUs and LOPNUs and estimating the cost of ADNUs and AOPNUs, as applicable.

The Phase I Interconnection Study will state for each Group Study or Interconnection Request studied individually (i) the assumptions upon which it is based, (ii) the results of the analyses, and (iii) the requirements or potential impediments to providing the requested Interconnection Service to all Interconnection Requests in a Group Study or to the Interconnection Request studied individually.

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The Phase I Interconnection Study will provide, without regard to the requested Commercial Operation Dates of the Interconnection Requests, a list of RNUs, LOPNUs, and LDNUs to the CAISO Controlled Grid that are preliminarily identified as Assigned Network Upgrades or Conditionally Assigned Network Upgrades required as a result of the Interconnection Requests in a Group Study or as a result of any Interconnection Request studied individually and Participating TO's Interconnection Facilities associated with each Interconnection Request, the estimated costs of ADNUs and AOPNUs, if applicable, and an estimate of any other financial impacts (i.e., on Local Furnishing Bonds). For purposes of determining necessary Interconnection Facilities and Network Upgrades, the Phase I Interconnection Study will consider the level of Interconnection Service Capacity requested by the Interconnection Customer, unless otherwise required to study the full Generating Facility Capacity due to safety or reliability concerns.

### **6.3 Identification of and Cost Allocation for Network Upgrades**

#### **6.3.1 Reliability Network Upgrades (RNUs).**

The CAISO, in coordination with the applicable Participating TO(s), will perform short circuit and stability analyses for each Interconnection Request either individually or as part of a Group Study to preliminarily identify the RNUs needed to interconnect the Generating Facilities to the CAISO Controlled Grid. The CAISO, in coordination with the applicable Participating TO(s), shall also perform power flow analyses, under a variety of system conditions, for each Interconnection Request either individually or as part of a Group Study to identify Reliability Criteria violations, including applicable thermal overloads, that must be mitigated by RNUs.

The cost of all RNUs identified in the Phase I Interconnection Study shall be estimated in accordance with Section 6.4. The estimated costs of short circuit related GRNUs identified through a Group Study shall be assigned to all Interconnection Requests in that Group Study pro rata on the basis of the short circuit duty contribution of each Generating Facility. The estimated costs of all other GRNUs identified through a Group Study shall be assigned to all Interconnection Requests in that Group Study pro rata on the basis of the maximum megawatt electrical output of each proposed new Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request. The estimated costs of RNUs identified as a result of an Interconnection Request studied separately shall be assigned solely to that Interconnection Request.

Pursuant to Section 8.3, Interconnection Customers assigned IRNUs in their Phase I Interconnection Study will be allocated the full cost of the IRNUs in their Maximum Cost Responsibility. The Maximum Cost Exposure will include the full costs of conditionally assigned IRNUs. The Current Cost Responsibility will include their allocated share of IRNU costs as determined for RNUs in Section 8.3.

#### **6.3.2 Delivery Network Upgrades.**

##### **6.3.2.1 The On-Peak Deliverability Assessment.**

The CAISO, in coordination with the applicable Participating TO(s), shall perform On-Peak Deliverability Assessments for Interconnection Customers selecting Full Capacity or Partial Capacity Deliverability Status in their Interconnection Requests. Interconnection Customers may request Full or Partial Capacity Deliverability Status regardless of their requested Off-Peak Deliverability Status. The On-Peak Deliverability Assessment shall determine the Interconnection Customer's Generating Facility's ability to deliver its Energy to the CAISO

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Controlled Grid under peak load conditions, and identify preliminary Delivery Network Upgrades required to provide the Generating Facility with Full Capacity or Partial Capacity Deliverability Status. The Deliverability Assessment will consist of two rounds, the first of which will identify any transmission constraints that limit the Deliverability of the Generating Facilities in the Group Study and will identify LDNUs to relieve the local constraints, and second of which will determine ADNUs to relieve the area constraints. The On-Peak Deliverability Assessment does not convey any right to deliver electricity to any specific customer or Delivery Point, nor guarantee any level of deliverability, or transmission capacity, or avoided curtailment.

**6.3.2.1.1 Local Delivery Network Upgrades**

The On-Peak Deliverability Assessment will be used to establish the Maximum Cost Responsibility and Maximum Cost Exposure for LDNUs for each Interconnection Customer selecting Full Capacity or Partial Capacity Deliverability Status. Deliverability of a new Generating Facility will be assessed on the same basis as all existing resources interconnected to the CAISO Controlled Grid.

The methodology for the On-Peak Deliverability Assessment will be published on the CAISO Website or, when effective, included in a CAISO Business Practice Manual. The On-Peak Deliverability Assessment does not convey any right to deliver electricity to any specific customer or Delivery Point.

The cost of LDNUs identified in the On-Peak Deliverability Assessment as part of a Phase I Interconnection Study shall be estimated in accordance with Section 6.4. The estimated costs of Delivery Network Upgrades identified in the On-Peak Deliverability Assessment shall be assigned to all Interconnection Requests selecting Full Capacity or Partial Capacity Deliverability Status based on the flow impact of each such Generating Facility on the Delivery Network Upgrades as determined by the Generation distribution factor methodology set forth in the On-Peak Deliverability Assessment methodology.

**6.3.2.1.2 Area Delivery Network Upgrades**

The On-Peak Deliverability Assessment will be used in the Phase I Interconnection Studies to identify those facilities necessary to provide the incremental Deliverability between the level of TP Deliverability and such additional amount of Deliverability as is necessary for the MW capacity amount of generation targeted in the Phase I Interconnection Studies. Based on such facility cost estimates, the CAISO will calculate a rate for ADNU costs equal to the facility cost estimate divided by the additional amount of Deliverability targeted in the study. The Phase I Interconnection Studies shall provide a cost estimate for each Interconnection Customer which equals the rate multiplied by the requested deliverable MW capacity of the Generating Facility in the Interconnection Request.

**6.3.2.1.3 [Intentionally Omitted]**



### **6.3.2.2 Off-Peak Deliverability Assessment.**

The CAISO, in coordination with the applicable Participating TO(s), shall perform an Off-Peak Deliverability Assessment for Interconnection Customers selecting Off-Peak Deliverability Status. The Off-Peak Deliverability Assessment will identify transmission upgrades in addition to those Delivery Network Upgrades identified in the On-Peak Deliverability Assessment, if any, for a Group Study or individual Phase I Interconnection Study that includes one or more Location Constrained Resource Interconnection Generators (LCRIG), where the fuel source or source of energy for the LCRIG substantially occurs during off-peak conditions. Interconnection Customers that (i) are not LCRIGs whose fuel source or source of energy substantially occurs off-peak, and (ii) have Full or Partial Capacity Deliverability Status, will receive Off-Peak Deliverability Status without triggering Off-Peak Network Upgrades. Energy Only Interconnection Customers that are not LCRIGs whose fuel source or source of energy substantially occurs off-peak will be Off-Peak Energy Only. LCRIGs whose fuel source or source of energy substantially occurs off-peak will receive Off-Peak Deliverability Status based upon the Off-Peak Deliverability Assessment, regardless of their On-Peak Deliverability Status.

The transmission upgrades identified under this Section shall comprise those needed for the expected output of each proposed new LCRIG or the amount of megawatt increase in the generating capacity of each existing LCRIG as listed by the Interconnection Customer in its Interconnection Request, whether studied individually or as a Group Study, to be deliverable to the aggregate of Load on the CAISO Controlled Grid under the Generation dispatch conditions studied without excessive curtailment. The methodology for the Off-Peak Deliverability Assessment will be published on the CAISO Website or, if applicable, included in a CAISO Business Practice Manual.

The CAISO will perform the Off-Peak Deliverability Assessment to identify Off-Peak Network Upgrades required for Generating Facilities to achieve Off-Peak Deliverability Status, and any such upgrades identified in the Off-Peak Deliverability Assessment as part of the Phase I Interconnection Study shall be estimated in accordance with Section 6.4. The Off-Peak Deliverability Assessment does not convey any right to deliver electricity to any specific customer or Delivery Point, nor guarantee any level of deliverability, or transmission capacity, or avoided curtailment.

The estimated costs of Local Off-Peak Network Upgrades identified in the Off-Peak Deliverability Assessment will be assigned or conditionally assigned to Interconnection Requests selecting Off-Peak Deliverability Status based on the flow impact of each such Generating Facility on the Off-Peak Network Upgrades as determined by the Generation distribution factor methodology set forth in the Off-Peak Deliverability Assessment methodology.

The estimated costs of Area Off-Peak Network Upgrades are for information only and not assigned to any Interconnection Requests.

### **6.3.2.3 Transition to Off-Peak Deliverability Status**

Active CAISO Interconnection Requests received before March 3, 2020 for Energy Only Generating Facilities that would be eligible to receive Off-Peak Deliverability Status pursuant to this Section 6.3.2 will have a one-time opportunity to request Off-Peak Deliverability Status. Notwithstanding any provision of this GIDAP, if such Interconnection Customers request Off-Peak

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Deliverability Status, the CAISO will study those requests in the next Interconnection Study, and assign any required Local Off-Peak Network Upgrades to them pursuant to this Section 6.3.2, and their Interconnection Studies will be amended to include the assigned costs for those Network Upgrades. Such Interconnection Customers' GIAs, Current Cost Responsibilities, Maximum Cost Responsibilities, and Maximum Cost Exposures also will be amended to reflect the additional costs of assigned Local Off-Peak Network Upgrades.

All CAISO Interconnection Requests for Full Capacity Deliverability Status or Partial Capacity Deliverability Status received before March 3, 2020 will automatically receive Off-Peak Deliverability Status. All CAISO Interconnection Requests received before March 3, 2020 for Generating Facilities that are not Location Constrained Resource Interconnection Generators, regardless of Deliverability Status, will automatically receive Off-Peak Deliverability Status.

**6.4 Use of Per Unit Costs to Estimate Network Upgrade and PTO Interconnection Facilities Costs**

Each Participating TO, under the direction of the CAISO, shall publish per unit costs for facilities generally required to interconnect Generation to their respective systems.

These per unit costs shall reflect the anticipated cost of procuring and installing such facilities during the current Interconnection Study Cycle, and may vary among Participating TOs and within a Participating TO Service Territory based on geographic and other cost input differences, and should include an annual adjustment for the following ten (10) years to account for the anticipated timing of procurement to accommodate a potential range of Commercial Operation Dates of Interconnection Requests in the Interconnection Study Cycle. The per unit costs will be used to develop the cost of Network Upgrades and Participating TO's Interconnection Facilities. Deviations from a Participating TO's benchmark per unit costs will be permitted if a reasonable explanation for the deviation is provided and there is no undue discrimination.

Prior to adoption and publication of final per unit costs for use in the Interconnection Study Cycle, the CAISO shall publish to the CAISO Website draft per unit costs, including non-confidential information regarding the bases therefore, hold a stakeholder meeting to address the draft per unit costs, and permit stakeholders to provide comments on the draft per unit costs. A schedule for the release and review of per unit costs is set forth in Appendix 5.

**6.5 Assigned and Contingent Facilities**

The CAISO and Participating TO will provide, upon request of the Interconnection Customer, its estimated Interconnection Facility and/or Network Upgrade costs and estimated in-service completion time of each Assigned Network Upgrade, Conditionally Assigned Network Upgrade, or Precursor Network Upgrade when this information is readily available and not commercially sensitive.

**6.6 Phase I Interconnection Study Procedures**

The CAISO shall coordinate the Phase I Interconnection Study with applicable Participating TO(s) pursuant to Section 3.2 and any Affected System that is affected by the Interconnection Request pursuant to Section 3.7. Existing studies shall be used to the extent practicable when conducting the Phase I Interconnection Study. The CAISO will coordinate Base Case development with the applicable Participating TOs to ensure the Base Cases are accurately developed. The CAISO shall use Reasonable Efforts to complete and issue to Interconnection Customers the Phase I Interconnection Study report within two hundred (200) days after the commencement of the Phase I Interconnection Study for Queue Cluster 5 and within one hundred seventy (170) days

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after the annual commencement of the Phase I Interconnection Study beginning with Queue Cluster 6; however, each individual study or Group Studies may be completed prior to this maximum time where practicable based on factors, including, but not limited to, the number of Interconnection Requests in the Cluster Application Window, study complexity, and reasonable availability of subcontractors as provided under Section 15.2. The CAISO will share applicable study results with the applicable Participating TO(s) for review and comment and will incorporate comments into the study report. The CAISO will issue a final Phase I Interconnection Study report to the Interconnection Customer. At the time of completion of the Phase I Interconnection Study, the CAISO may, at the Interconnection Customer's request, determine whether the provisions of Section 8.6 apply.

At any time the CAISO determines that it will not meet the required time frame for completing the Phase I Interconnection Study due to the large number of Interconnection Requests in the associated Cluster Application Window, study complexity, or unavailability of subcontractors on a reasonable basis to perform the study in the required time frame, the CAISO shall notify the Interconnection Customers as to the schedule status of the Phase I Interconnection Study and provide an estimated completion date with an explanation of the reasons why additional time is required.

Upon request, the CAISO shall provide the Interconnection Customer all supporting documentation, workpapers and relevant pre-Interconnection Request and post-Interconnection Request power flow, short circuit and stability databases for the Phase I Interconnection Study, subject to confidentiality arrangements consistent with Section 15.1.

## **6.7 Phase I Interconnection Study Results Meeting**

Within thirty (30) calendar days of issuing the Phase I Interconnection Study report to the Interconnection Customer, the applicable Participating TO(s), the CAISO and the Interconnection Customer shall hold a Results Meeting to discuss the results of the Phase I Interconnection Study, including assigned cost responsibility. The CAISO shall prepare the minutes from the meetings, and provide the Interconnection Customer and the other attendees an opportunity to confirm the accuracy thereof.

Should the Interconnection Customer provide written comments on the final Phase I Interconnection Study report within ten (10) Business Days of receipt of the report, but in no event less than three (3) Business Days before the Results Meeting conducted to discuss the report, whichever is sooner, the CAISO will address the written comments in the Phase I Interconnection Study Results Meeting. Should the Interconnection Customer provide comments at any later time (up to the time of the Results Meeting), then such comments shall be considered informal inquiries to which the CAISO will provide informal, informational responses at the Results Meeting, to the extent possible.

The Interconnection Customer may submit, in writing, additional comments on the final Phase I Interconnection Study report up to (3) Business Days following the Results Meeting. Based on any discussion at the Results Meeting and any comments received, the CAISO (in consultation with the applicable Participating TO(s)) will determine, in accordance with Section 6.8, whether it is necessary to follow the final Phase I Interconnection Study report with a revised study report or an addendum. The CAISO will issue any such revised report or addendum to the Interconnection Customer no later than fifteen (15) Business Days following the Results Meeting.

### **6.7.1 Commercial Operation Date.**

At the Results Meeting, the Interconnection Customer shall provide a schedule outlining key milestones including environmental survey start date, expected environmental permitting submittal date, expected procurement date of project equipment, back-feed date for project construction, and expected project construction date. This will assist the

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parties in determining if Commercial Operation Dates are reasonable. If major Interconnection Customer's Interconnection Facilities for the Generating Facility have been identified in the Phase I Interconnection Study, such as telecommunications equipment to support a possible Remedial Action Scheme, distribution feeders to support back feed, new substation, and/or expanded substation work, permitting and material procurement lead times may result in the need to alter the proposed Commercial Operation Date. The Parties may agree to a new Commercial Operation Date. In addition, where an Interconnection Customer intends to establish Commercial Operation separately for different Electric Generating Units or project phases at its Generating Facility, it may only do so in accordance with an implementation plan agreed to in advance by the CAISO and Participating TO, which agreement shall not be unreasonably withheld. Where the parties cannot agree, the Commercial Operation Date determined reasonable by the CAISO, in coordination with the applicable Participating TO(s), will be used for the Phase II Interconnection Study where the changed Commercial Operation Date is needed to accommodate the anticipated completion, assuming Reasonable Efforts by the applicable Participating TO(s), of necessary Reliability Network Upgrades and/or Participating TO's Interconnection Facilities, pending the outcome of any relief sought by the Interconnection Customer under Section 15.5. The Interconnection Customer must notify the CAISO within five (5) Business Days following the Results Meeting that it is initiating dispute procedures under Section 15.5.

**6.7.2 Modifications.**

**6.7.2.1** At any time during the course of the Interconnection Studies, the Interconnection Customer, the applicable Participating TO(s), or the CAISO may identify changes to the planned interconnection that may improve the costs and benefits (including reliability) of the interconnection, and the ability of the proposed change to accommodate the Interconnection Request. To the extent the identified changes are acceptable to the applicable Participating TO(s), the CAISO, and Interconnection Customer, such acceptance not to be unreasonably withheld, the CAISO shall modify the Point of Interconnection and/or configuration in accordance with such changes without altering the Interconnection Request's eligibility for participating in Interconnection Studies.

**6.7.2.2** At the Phase I Interconnection Study Results Meeting, the Interconnection Customer should be prepared to discuss any desired modifications to the Interconnection Request. After the issuance of the final Phase I Interconnection Study, but no later than ten (10) Business Days following the Phase I Interconnection Study Results Meeting, the Interconnection Customer shall submit to the CAISO, in writing, modifications to any information provided in the Interconnection Request. The CAISO will forward the Interconnection Customer's modification to the applicable Participating TO(s) within one (1) Business Day of receipt.

Modifications permitted under this Section shall include specifically:

- (a) a decrease in the electrical output (MW) of the proposed project; through either (1) a decrease in Generating Facility Capacity or (2) a decrease in Interconnection Service Capacity (consistent with the process described in Section 3.1) accomplished by CAISO-approved limiting equipment;
- (b) modifying the technical parameters associated with the Generating Facility technology or the Generating Facility step-up transformer impedance characteristics;
- (c) modifying the interconnection configuration;

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- (d) modifying the In-Service Date, Initial Synchronization Date, Trial Operation Date, and/or Commercial Operation Date that meets the criteria set forth in Section 3.5.1.4 and is acceptable to the applicable Participating TO(s) and the CAISO, such acceptance not to be unreasonably withheld;
- (e) change in Point of Interconnection as set forth in Section 6.7.2.1;
- (f) change in Deliverability Status to Energy Only Deliverability Status, Partial Capacity Deliverability Status, or a lower fraction of Partial Capacity Deliverability Status;
- (g) Permissible Technological Advancements consistent with Section 6.7.2.4; and
- (h) change from Off-Peak Deliverability Status to Off-Peak Energy Only.

For any modification other than these, the Interconnection Customer must first request that the CAISO evaluate whether such modification is a Material Modification. In response to the Interconnection Customer's request, the CAISO, in coordination with the affected Participating TO(s) and, if applicable, any Affected System Operator, shall evaluate the proposed modifications prior to making them and the CAISO shall inform the Interconnection Customer in writing of whether the modifications would constitute a Material Modification. The CAISO may engage the services of the applicable Participating TO to assess the modification. Costs incurred by the Participating TO and CAISO (if any) shall be borne by the party making the request under Section 6.7.2, and such costs shall be included in any CAISO invoice for modification assessment activities. Any change to the Point of Interconnection, except for that specified by the CAISO in an Interconnection Study or otherwise allowed under this Section, shall constitute a Material Modification. The Interconnection Customer may then withdraw the proposed modification or proceed with a new Interconnection Request for such modification.

The Interconnection Customer shall remain eligible for the Phase II Interconnection Study if the modifications are in accordance with this Section.

If any Interconnection Customer requested modification after the Phase II Interconnection Study report would change the scope, schedule, or cost of the Interconnection Facilities or Network Upgrades, the CAISO will issue a report to the Interconnection Customer. Potential adjustments to the Maximum Cost Responsibility or Maximum Cost Exposure for Network Upgrades for the Interconnection Customer will be determined in accordance with Section 7.4.3.

**6.7.2.3** The Interconnection Customer shall provide the CAISO a \$10,000 deposit for the modification assessment at the time the request is submitted. Except as provided below, any modification assessment will be concluded, and a response provided to the Interconnection Customer in writing, within forty-five (45) calendar days from the date the CAISO receives all of the following: the Interconnection Customer's written notice to modify the project, technical data required to assess the request and payment of the \$10,000 deposit. If the modification request results in a change to the Interconnection Facilities or Network Upgrades the modification assessment could take up to ninety (90) total calendar days. If the modification assessment cannot be completed within that time period, the CAISO shall notify the Interconnection Customer and provide an estimated completion date with an explanation of the reasons why additional time is required.

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The Interconnection Customer will be responsible for the actual costs incurred by the CAISO and applicable Participating TO(s) in conducting the modification assessment. If the actual costs of the modification assessment are less than the deposit provided by the Interconnection Customer, the Interconnection Customer will be refunded the balance. If the actual costs of the modification assessment are greater than the deposit provided by the Interconnection Customer, the Interconnection Customer shall pay the balance within 30 days of being invoiced. The CAISO shall coordinate the modification request with the Participating TO(s). The Participating TO(s) shall invoice the CAISO for any assessment work within seventy-five (75) calendar days of completion of the assessment, and, within thirty (30) days thereafter, the CAISO shall issue an invoice or refund to the Interconnection Customer, as applicable, based upon such submitted Participating TO invoices and the CAISO's own costs for the assessment.

The CAISO will publish cost data regarding modification assessments in accordance with the terms set forth in a Business Practice Manual.

Notwithstanding any other provision, all refunds pursuant to this Appendix DD will be processed in accordance with the CAISO's generally accepted accounting practices, including monthly batched deposit refund disbursements. Any CAISO deadline will be tolled to the extent the Interconnection Customer has not provided the CAISO with the appropriate documents to facilitate the Interconnection Customer's refund, or if the Interconnection Customer has any outstanding invoice balance due to the CAISO on another project owned by the same Interconnection Customer.

**6.7.2.4** Interconnection Customers may request Permissible Technological Advancements. Permissible Technological Advancements may include, for example, removing equipment; aligning the Commercial Operation Date with an executed power purchase agreement; adding less than 5 MW of energy storage once without increasing the net output at the Point of Interconnection; and other changes that have little or no potential to affect other Interconnection Customers or Affected Systems, require a new Interconnection Request, or otherwise require a re-study or evaluation. The CAISO will update its Business Practice Manual to list any additional Permissible Technological Advancement approved but not specifically enumerated here when identified. The Interconnection Customer's written request to evaluate technological advancements must include the technical data required to assess the request.

For all Permissible Technological Advancement requests not expressly enumerated in this Section or the Business Practice Manual, the CAISO and Participating TO will determine whether such change would constitute a Material Modification. Such evaluation will include an analysis of the short circuit capability limits, steady-state thermal and voltage limits, or dynamic system stability, and impact on other Interconnection Customers. The CAISO will determine whether a Permissible Technological Advancement request is a Material Modification within thirty (30) calendar days of receipt of the request. Interconnection Customers requesting Permissible Technological Advancements must pay a non-refundable fee of \$2,500.

**6.7.2.5** Notwithstanding any other provisions in this GIDAP or the Interconnection Customer's GIA, the Interconnection Customer may not modify its fuel type, including through the addition or replacement of Generating Units, by more than the greater of five percent (5%) of its capacity or 10 MW (but by no more than twenty-five percent (25%) of its capacity), where:

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- (a) the Interconnection Customer has exceeded seven (7) years from the date the CAISO received its Interconnection Request without achieving its Commercial Operation Date;
- (b) the Interconnection Customer's current Commercial Operation Date exceeds seven (7) years from the date the CAISO received its Interconnection Request; or
- (c) the change in fuel type will require the Interconnection Customer's Commercial Operation Date to exceed seven (7) years from the date the CAISO received its Interconnection Request.

The CAISO will not consider the addition of energy storage; changes to the type, number, or manufacturer of inverters; or insubstantial changes to the Generating Facility as fuel-type modifications. Interconnection Customers may request such modifications pursuant to this GIDAP.

**6.7.2.6** In addition to the options provided in this GIDAP, an Interconnection Customer may convert to Energy Only, Partial Capacity Deliverability Status, or a lower fraction of Partial Capacity Deliverability Status after the completion of its Phase II Interconnection Study. This conversion will become effective through the reassessment process described in Section 7.4. Except (i) as provided in Section 8.9.3.2 (ii) due to not receiving the requested TP Deliverability allocation, or (iii) due to declining a TP Deliverability allocation, Interconnection Customers that become Energy Only after their Phase II Interconnection Study may not reduce their cost responsibility or Interconnection Financial Security for any assigned Delivery Network Upgrades as a result of converting to Energy Only unless the CAISO and Participating TO(s) determine that the Interconnection Customer's assigned Delivery Network Upgrade(s) is no longer needed for current Interconnection Customers.

**6.7.2.7** Interconnection Customers may request to downsize their Interconnection Service Capacity pursuant to Section 6.7.2.3. Interconnection Customers with Network Upgrades requesting to downsize will not see the impacts to their Network Upgrades or cost responsibility until the CAISO publishes the reassessment results that include the downsized capacity pursuant to Section 7.4 unless the CAISO can determine the impacts prior to the reassessment. Interconnection Customers with Network Upgrades must submit downsizing requests, including the \$10,000 deposit, by November 30 to be included in the following annual reassessment. Once the CAISO publishes the reassessment results, the Participating TO will tender a draft amendment to the Interconnection Customer's Generator Interconnection Agreement to incorporate any required changes. If an Interconnection withdraws or is deemed withdrawn, any partial recovery of the Interconnection Financial Security for Network Upgrades under Sections 11.4.2.1 and 11.4.2.2 will be calculated based on the Generating Facility's most recent MW capacity prior to its downsizing request.

A downsizing generator will continue to be obligated to finance the costs of (1) Network Upgrades that its Generating Facility previously triggered, and (2) Network Upgrades that are alternatives to the previously triggered Network Upgrades, if such previously triggered Network Upgrades or alternative Network Upgrades are needed by Interconnection Customers in the same Queue Cluster or later-queued Interconnection Customers, up to the Maximum Cost Exposure of the downsizing generator as determined by the CAISO Tariff interconnection study procedures applicable to the downsizing generator. For determining any

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changes to a downsizing generator's Network Upgrade cost responsibilities as a result of a reassessment process conducted pursuant to Section 7.4, the CAISO will reallocate the costs of Network Upgrades that are still needed based on the downsizing generator's pre-downsizing share of the original cost allocation.

**6.7.3 Re-calculation of Initial Financial Security Posting**

The CAISO, in coordination with the applicable Participating TO(s), may determine, based on best engineering judgment, whether modifications, withdrawals, or system changes eliminate the need for any Network Upgrades identified in the Phase I Interconnection Study report. The CAISO and applicable Participating TO(s) will not conduct any re-studies in making this determination.

If the CAISO and applicable Participating TO(s) should determine that one or more Network Upgrades identified in the Phase I Interconnection Study are no longer needed, then, solely for purposes of calculating the amount of the Interconnection Customer's initial Financial Security Posting under Section 11.2, such Network Upgrade(s) will be considered to be removed from the plan of service described in the Interconnection Customer's Phase I Interconnection Study report and the cost estimates for such upgrades shall not be included in the calculation of Interconnection Financial Security in Section 11.2. The CAISO will inform in a timely manner any Interconnection Customers so affected, and provide the Interconnection Customers with written notice of the revised initial Interconnection Financial Security posting amounts. No determination under this Section shall affect either (i) the timing for the initial Interconnection Financial Security posting or (ii) the maximum value for the Interconnection Customer's total cost responsibility for Network Upgrades established by the Phase I Interconnection Study report.

**6.7.4 Commercial Viability Criteria for Retention of Deliverability beyond Seven Years in Queue**

The CAISO's agreement to modifications requested by the Interconnection Customer pursuant to Section 6.7.2.3 for a Generating Facility with a Commercial Operation Date that has exceeded or will exceed seven (7) years from the date the Interconnection Request is received by the CAISO with retention of TP Deliverability will be predicated upon the Interconnection Customer's ability to meet and maintain the following commercial viability criteria:

- a) Providing proof of having, at a minimum, applied for the necessary governmental permits or authorizations, and that the permitting authority has deemed such documentation as data adequate for the authority to initiate its review process;
- b) Providing proof of having an executed power purchase agreement. Power purchase agreements must have the point of interconnection, capacity, fuel type, technology, and site location in common with the Interconnection Customer and GIA;
- c) Demonstrating Site Exclusivity for 100% of the property necessary to construct the facility through the Commercial Operation Date requested in the modification request. A Site Exclusivity Deposit does not satisfy this criterion;
- d) Having an executed Generator Interconnection Agreement ("GIA"); and
- e) Being in good standing with the GIA such that neither the Participating TO nor



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the CAISO has provided a Notice of Breach that has not been cured and the Interconnection Customer has not commenced sufficient curative actions.

Interconnection Customers that satisfied these commercial viability criteria before November 27, 2018 on the basis of balance-sheet or binding financing may continue to do so in their annual review. The CAISO's agreement to an extension of the proposed Commercial Operation Date does not relieve the Interconnection Customer from compliance with the requirements of any of the criteria in Section 8.9.3 to retain TP Deliverability. The CAISO will not consider the addition of energy storage; changes to the type, number, or manufacturer of inverters; or insubstantial changes to the Generating Facility as modifications under this Section. Interconnection Customers may request such modifications pursuant to this GIDAP.

If the Interconnection Customer fails to meet all of the commercial viability criteria but informs the CAISO that it intends to proceed with the modified Commercial Operation Date, the Generating Facility's Deliverability Status will become Energy Only Deliverability Status. Interconnection Customers that become Energy Only for failure to meet these criteria may not reduce their cost responsibility or Interconnection Financial Security for any assigned Delivery Network Upgrades as a result of converting to Energy Only unless the CAISO and Participating TO(s) determine that the Interconnection Customer's assigned Delivery Network Upgrade(s) is no longer needed for current Interconnection Customers.

If an Interconnection Customer satisfies all the commercial viability criteria except criterion (b), the CAISO will postpone converting the Generating Facility to Energy-Only Deliverability Status for one year from the day the Interconnection Customer submits the modification request, or eight years after the CAISO received the Interconnection Request, whichever occurs later. Interconnection Customers exercising this provision must continue to meet all other commercial viability criteria.

If an Interconnection Customer has declared Commercial Operation for a portion of a Generating Facility, or one or more Phases of a Phased Generating Facility, the CAISO will not convert to Energy-Only the portion of the Generating Facility that is in service and operating in the CAISO markets. Instead, the portion of the Generating Facility that has not been developed will be converted to Energy-Only Deliverability Status, resulting in Partial Capacity Deliverability Status for the Generating Facility. However, where the Generating Facility has multiple Resource IDs for the Generating Facility, each Resource ID will have its own Deliverability Status independent from the Generating Facility. Any individual Resource ID may have Full Capacity Deliverability Status where the Generating Facility as a whole would have Partial Capacity Deliverability Status. If the Generating Facility downsizes to the amount in service and operating in the CAISO markets, it will revert to Full Capacity Deliverability Status.

Interconnection Customers in Queue Cluster 7 and beyond whose Phase II Interconnection Study reports require a timeline beyond the seven-year threshold are exempt from the commercial viability criteria in this section provided that they modify their Commercial Operation Dates within six (6) months of the CAISO's publishing the Phase II Interconnection Study report. This exemption is inapplicable to report addenda or revisions required by a request from an Interconnection Customer for any reason.

#### **6.7.4.1 Annual Review**

For Interconnection Customers extending their Commercial Operation Date beyond the seven-year threshold and retaining their TP Deliverability pursuant to Section 6.7.4, the CAISO will perform an annual review of commercial viability. If

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any Interconnection Customer fails to maintain its level of commercial viability, the Deliverability Status of the Generating Facility corresponding to the Interconnection Request will convert to Energy-Only Deliverability Status.

#### **6.7.5 Alignment with Power Purchase Agreements**

An Interconnection Customer with an executed GIA and an executed power purchase agreement may request to automatically extend the GIA Commercial Operation Date to align with its power purchase agreement for that Generating Facility, including any extension or amendment. Interconnection Customers requesting alignment must (1) provide a copy of the power purchase agreement, and (2) confirm the power purchase agreement's standing and details in the annual TP Deliverability affidavit process. Requests to align the Commercial Operation Date with power purchase agreements are not exempt from the commercial viability criteria provisions in Section 6.7.4, where applicable.

### **6.8 Revisions and Addenda to Final Interconnection Study Reports**

#### **6.8.1 Substantial Error or Omissions; Revised Study Report**

Should the CAISO discover, through written comments submitted by an Interconnection Customer or otherwise, that a final Phase I or Phase II Interconnection Study Report (which can mean a final Phase I or Phase II Interconnection Study Report for cluster studies or a final system impact and facilities report for the Independent Study Process) contains a substantial error or omission, the CAISO will cause a revised final report to be issued to the Interconnection Customer.

A substantial error or omission shall mean an error or omission that results in one or more of the following:

- (i) understatement or overstatement of the Interconnection Customer's Current Cost Responsibility, Maximum Cost Responsibility, Maximum Cost Exposure, and Participating TO Interconnection Facilities by more than five (5) percent or one million dollars (\$1,000,000), whichever is greater;
- (ii) delay of the Commercial Operation Date, In-Service Date, or requested Deliverability Status by more than one year; or
- (iii) termination of the Interconnection Customer's power purchase agreement.

The CAISO will include examples of how Interconnection Customers can demonstrate power purchase agreement terminations in the Business Practice Manual. The CAISO will confirm power purchase agreement terminations with the Interconnection Customer's counterparty.

A dispute over the plan of service by an Interconnection Customer shall not be considered a substantial error or omission unless the Interconnection Customer demonstrates that the plan of service was based on an invalid or erroneous study assumption that meets the criteria set forth above. Changes to Interconnection Studies resulting from Interconnection Customer requests, including without limitation, modifications, suspensions, or failures to meet GIA milestones, are not considered errors or omissions.

#### **6.8.2 Other Errors or Omissions; Addendum**

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If an error or omission in an Interconnection Study report (for either the cluster process or Independent Study Process) is not a substantial error or omission, the CAISO shall not issue a revised final Interconnection Study report, although the error or omission may result in an adjustment of the corresponding Interconnection Financial Security. Rather, the CAISO shall document such error or omission and make any appropriate correction by issuing an addendum to the final report.

The CAISO and applicable Participating TO shall also incorporate, as needed, any corrected information pertinent to the terms or conditions of the GIA in the draft GIA provided to an Interconnection Customer pursuant to Section 13.

### **6.8.3 Only Substantial Errors or Omissions Adjust Posting Dates**

Only substantial errors and omissions related to the Phase I and Phase II study reports can result in adjustments to Interconnection Financial Security posting due dates. Once the initial and second Interconnection Financial Security posting due dates as described in this section have passed, the error or omission provisions described in this Section 6.8 no longer apply. Any error or omission found after the second Interconnecting Financial Security posting will not impact the Interconnection Customer's Assigned Cost Responsibility, Maximum Cost Responsibility, or Maximum Cost Exposure.

Unless the error or omission is substantial, resulting in the issuance of a revised final Interconnection Study report, the correction of an error or omission will not delay any deadline for posting Interconnection Financial Security set forth in Section 11. In the case of a substantial error or omission resulting in the issuance of a revised final Phase I or Phase II Interconnection Study report, the deadline for posting Interconnection Financial Security shall be extended as set forth in Section 11. In addition to issuing a revised final report, the CAISO will promptly notify the Interconnection Customer of any revised posting amount and extended due date occasioned by a substantial error or omission.

An Interconnection Customer's dispute of a CAISO determination that an error or omission in a final Study report does not constitute substantial error shall not operate to change the amount of Interconnection Financial Security that the Interconnection Customer must post or to postpone the applicable deadline for the Interconnection Customer to post Interconnection Financial Security. In case of such a dispute, the Interconnection Customer shall post the amount of Interconnection Financial Security in accordance with Section 11, subject to refund in the event that the Interconnection Customer prevails in the dispute.

### **6.8.4 Substantial Errors or Omissions Allowing Refunds**

Notwithstanding Sections 3.5.1 and 11.4, after the Interconnection Customer has posted its Initial Interconnection Financial Security, it is eligible for a one-hundred percent (100%) refund of its remaining, unspent Interconnection Financial Security and all remaining, unspent Interconnection Study Deposit funds if:

- (i) it receives a substantial error or omission; and
- (ii) it withdraws its Interconnection Request within sixty (60) days of the publication of the revised Study Report or the termination of its power purchase agreement resulting from the substantial error or omission, as applicable.

## **Section 7 Activities in Preparation for Phase II**

Within ten (10) Business Days following the Phase I Interconnection Study Results Meeting, the

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Interconnection Customer shall submit to the CAISO the completed form of Appendix B (Data Form to Be Provided by the Interconnection Customer Prior to Commencement of the Phase II Interconnection Study) to the Generator Interconnection Study Process Agreement. The CAISO and Participating TO will determine whether the Appendix B data is valid. Appendix B data will be deemed valid if it does not contain deficiencies that would prevent inclusion in the Phase II Interconnection Studies. Deficiencies include but are not limited to modeling errors, inaccurate data, and unusable files. The CAISO and Participating TO will notify the Interconnection Customer whether its Appendix B data is valid or contains deficiencies within ten (10) Business Days of the initial and any subsequent submission. Interconnection Customers must cure any deficiency within five (5) Business Days. All Appendices B must be deemed valid within seventy (70) days of the publication of the Phase I Interconnection Study to be included in the Phase II Interconnection Studies. Within such Appendix B, Interconnection Customers seeking Full or Partial Deliverability Capacity will provide the information in 7.2 below:

**7.1 [Not Used]**

**7.2 Full/Partial Capacity Deliverability Options for Interconnection Customers**

This section applies to Interconnection Requests for which the Generating Facility Deliverability Status is either Full Capacity or Partial Capacity.

Within such Appendix B, the Interconnection Customer must select one of two options with respect to its Generating Facility:

Option (A), which means that the Generating Facility requires TP Deliverability to be able to continue to Commercial Operation. If the Interconnection Customer selects Option (A), then the Interconnection Customer shall be required to make an initial posting of Interconnection Financial Security under Section 11.2 for the cost responsibility assigned to it in the Phase I Interconnection Study for RNUs, LOPNUs, and LDNUs; or,

Option (B), which means that the Interconnection Customer will assume cost responsibility for Delivery Network Upgrades (both ADNUs and LDNUs, to the extent applicable) without cash repayment under Section 14.2.1 to the extent that sufficient TP Deliverability is not allocated to the Generating Facility to provide its requested Deliverability Status. If the Interconnection Customer selects Option (B) then the Interconnection Customer shall be required to make an initial posting of Interconnection Financial Security under Section 11.2 for the cost responsibility assigned to it in the Phase I Interconnection Study for RNUs, LDNUs, LOPNUs, and ADNUs. To qualify to receive any allocation of TP Deliverability, Interconnection Customers selecting Option (B) must still meet the minimum criteria identified in Section 8.9.2.

**7.3 Postings and Cost Estimates for Network Upgrades**

Notwithstanding the Interconnection Customer's Maximum Cost Responsibility and Maximum Cost Exposure, until such time as the Phase II Interconnection Study report is issued to the Interconnection Customer, the allocated costs for Assigned Network Upgrades for each Interconnection Customer for RNUs, LOPNUs, and LDNUs in the Phase I Interconnection Study report shall establish the value for

- (i) each Interconnection Customer's Current Cost Responsibility; and
- (ii) the initial posting of Interconnection Financial Security required from each Interconnection Customer under Section 11.2 for such Network Upgrades.

**7.4 Reassessment Process**

**7.4.1** The CAISO will perform a reassessment of the Phase I Interconnection Study base case prior to the beginning of the GIDAP Phase II Interconnection Studies. The reassessment will evaluate the impacts on those Network Upgrades identified in previous

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interconnection studies and assumed in the Phase I Interconnection Study of:

- (a) Interconnection Request withdrawals occurring after the completion of the Phase II Interconnection Studies for the immediately preceding Queue Cluster;
- (b) downsizing requests from Interconnection Customers pursuant to Section 6.7.2.3;
- (c) the performance of earlier queued Interconnection Customers with executed GIAs with respect to required milestones and other obligations;
- (d) changes in TP Deliverability allocations or Deliverability Status;
- (e) the results of the TP Deliverability allocation from the prior Interconnection Study cycle; and,
- (f) transmission additions and upgrades approved or removed in the most recent TPP cycle.

The reassessment will be used to develop the base case for the Phase II Interconnection Study

**7.4.2** Where, as a consequence of the reassessment, the CAISO determines that changes to the previously identified Network Upgrades in Queue Clusters earlier than the current Interconnection Study Cycle will cause changes to plans of service set out in executed GIAs, such changes will serve as a basis for amendments to GIAs.

**7.4.3** Such changes to plans of service in Queue Clusters earlier than the current Interconnection Study Cycle will also serve as the basis for potential adjustments to the Current Cost Responsibility, Maximum Cost Responsibility, and Maximum Cost Exposure, as applicable, for Network Upgrades for Interconnection Customers in such earlier Queue Clusters, as follows:

- (i) An Interconnection Customer shall be eligible for an adjustment to its Maximum Cost Responsibility for Network Upgrades if a reassessment undertaken pursuant to this Section 7.4 reduces its estimated cost responsibility for Network Upgrades by at least twenty (20) percent and \$1 million, as compared to its current Maximum Cost Responsibility for Network Upgrades based on its Interconnection Studies or a previous reassessment.

The Maximum Cost Responsibility for an Interconnection Customer who meets this eligibility criterion will be the lesser of (a) its current Maximum Cost Responsibility and (b) 100 percent of the costs of all remaining Assigned Network Upgrades included in the Interconnection Customer's plan of service.

- (ii) If an Interconnection Customer's Maximum Cost Responsibility for Network Upgrades is adjusted downward pursuant to (i) above, and a subsequent reassessment identifies a change on the CAISO's system that occurs after the completion of the Interconnection Customer's Interconnection Studies and requires additional or expanded Network Upgrades, resulting in an increase in the Interconnection Customer's estimated cost responsibility for Network Upgrades above the Maximum Cost Responsibility as adjusted based on the results of a prior reassessment, then the Interconnection Customer's Maximum Cost Responsibility for Network Upgrades will be the estimated cost responsibility determined in the subsequent reassessment, so long as this

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amount does not exceed the Maximum Cost Exposure established by the Interconnection Customer's Phase II Interconnection Study. In such cases, where the Current Cost Responsibility determined in the subsequent reassessment exceeds the Maximum Cost Responsibility as adjusted based on the results of a prior reassessment, the Interconnection Customer's Maximum Cost Responsibility for Network Upgrades shall not exceed the Maximum Cost Exposure established by its Interconnection Studies.

- (iii) To the extent the CAISO determines that previously identified Conditionally Assigned Network Upgrades become Precursor Network Upgrades pursuant to Section 14.2.2, or are otherwise removed, the CAISO will adjust the Interconnection Customer's Maximum Cost Exposure, as applicable.
- (iv) To the extent the CAISO determines that a Conditionally Assigned Network Upgrade becomes an Assigned Network Upgrade, the CAISO will adjust the Interconnection Customer's Current Cost Responsibility and Maximum Cost Responsibility, as applicable.
- (v) The posted Interconnection Financial Security required of the Interconnection Customer for Network Upgrades shall be adjusted to correspond to any increase in the Interconnection Customer's Current Cost Responsibility any time after but no later than sixty (60) calendar days after issuance of a reassessment report. The CAISO will notify an Interconnection Customer that receives a downward adjustment to its Current Cost Responsibility pursuant to this Section, and the Interconnection Customer may choose to adjust its posted Interconnection Financial Security within sixty (60) calendar days of the issuance of the reassessment report.

**7.5 [Not Used]**

**7.6 Application of Non-Refundable Amounts**

In conjunction with each reassessment, the CAISO will calculate and disburse non-refundable interconnection study deposit and interconnection financial security amounts in accordance with the provisions of Appendix Y to the CAISO Tariff and this GIDAP as follows:

(a) Withdrawal Period

The CAISO shall calculate non-refundable interconnection study deposit and interconnection financial security amounts based on the period during which the interconnection customer withdrew its interconnection request or terminated its generator interconnection agreement. The first such withdrawal period shall be from January 1, 2013 through the last day that the CAISO is able to incorporate withdrawals into the 2013 annual reassessment. Subsequently, each withdrawal period shall be the approximate twelve-month period between the last day that the CAISO is able to incorporate withdrawals into an annual reassessment and the last day that the CAISO is able to incorporate withdrawals into the subsequent year's reassessment.

For each withdrawal period, the CAISO shall calculate and disburse available non-refundable interconnection study deposits and interconnection financial security in conjunction with the annual reassessment performed during the year that the withdrawal period ends.

(b) Calculation and Disbursement of Non-Refundable Interconnection Financial Security for Still-Needed Network Upgrades At or Above \$100,000 Threshold

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For each interconnection customer that withdrew its interconnection request or terminated its generator interconnection agreement, the CAISO shall calculate the proportion of the non-refundable Interconnection Financial Security that is attributable to Network Upgrades that the CAISO determines will still be needed by remaining Interconnection Customers. For each such still-needed Network Upgrade, the CAISO will divide the Interconnection Customer's Current Cost Responsibility for the Network Upgrade by the Interconnection Customer's total Current Cost Responsibility for all Network Upgrades and multiply this result by the Interconnection Customer's total amount of non-refundable Interconnection Financial Security.

If the amount of non-refundable security attributable to a still-needed Network Upgrade, for all Interconnection Customers that withdrew during the same withdrawal period, is equal to or greater than \$100,000, then the portion of such amount held or received by the CAISO prior to the stage of the applicable annual reassessment in which the CAISO reallocates cost responsibility for remaining Network Upgrades shall: (a) be disbursed to the applicable Participating TO(s) as a contribution in aid of construction of the still-needed Network Upgrade, and (b) be reflected as a reduction in the cost of this Network Upgrade for purposes of reallocating the cost responsibility for this Network Upgrade. Any portions of such amounts that the CAISO receives after reallocating cost responsibility for remaining Network Upgrades during the applicable annual reassessment shall be disbursed by the CAISO in the same manner in a subsequent reassessment, based on the date of collection, unless the applicable Network Upgrade is no longer needed, in which case such amounts will be disbursed pursuant to Section 7.6(c).

If a Network Upgrade for which the CAISO disburses funds as a contribution in aid of construction under this Section 7.6(b) is determined, in a subsequent reassessment, to be no longer needed, such funds will be promptly returned to the CAISO by the applicable Participating TO and re-disbursed by the CAISO pursuant to Section 7.6(c).

(c) Calculation and Disbursement of Other Non-Refundable Security and Study Deposits

For each Interconnection Customer that withdrew its Interconnection Request or terminated its Generator Interconnection Agreement during a withdrawal period, any non-refundable Interconnection Study Deposits, as well as any non-refundable Interconnection Financial Security not disbursed pursuant to subsection (b) above, shall be applied to offset Regional Transmission Revenue Requirements, as recovered through the CAISO's Transmission Access Charge, and to offset Local Transmission Revenue Requirements. Any non-refundable Interconnection Financial Security and Interconnection Study Deposits relating to withdrawals or terminations that occurred prior to January 1, 2013 that are collected by the CAISO during a withdrawal period, as defined in Section 7.6(a), will also be disbursed in accordance with this provision.

This offset shall be performed by first allocating these non-refundable Interconnection Study Deposit and Interconnection Financial Security amounts to the following three categories in proportion to the Interconnection Customer's most recent Current Cost Responsibility, prior to withdrawal or termination, for Network Upgrades whose costs would be recovered through each of the following categories: (1) a Regional Transmission Revenue Requirement, (2) the Local Transmission Revenue Requirement of the Participating TO to which the interconnection customer had proposed to interconnect, and (3) the Local Transmission Revenue Requirement of any other Participating TO on whose system the interconnection customer was responsible for funding Network Upgrades recovered through a Local Transmission Revenue Requirement.

Each year, prior to the cutoff date for including annual regional TRBA adjustments in

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Regional Transmission Revenue Requirements, the CAISO will disburse to each Participating TO's Transmission Revenue Balancing Account: (a) a share of the total funds held or received by the CAISO from category (1) above in proportion to the ratio of each Participating TO's most recent Regional Transmission Revenue Requirement to the total of all Participating TOs' most recent Regional Transmission Revenue Requirements, and (b) all funds held or received by the CAISO in categories (2) and (3) applicable to that Participating TO.

(d) Disbursement of Funds by CAISO; Participating TO Responsibility for Collection

The CAISO shall disburse, in accordance with the rules set forth in this Section 7.6, only those non-refundable Interconnection Financial Security and Study Deposit amounts that it holds or has received. The applicable Participating TO shall have the exclusive obligation to administer the collection of any non-refundable financial security where the applicable Participating TO is a beneficiary. The applicable Participating TO has the responsibility to manage the financial security and to transmit to the CAISO the non-refundable amounts in cash or equivalent within 75 days of the CAISO's submission to the Participating TO of the financial security liquidation form. This deadline can be modified by mutual agreement of the CAISO and applicable Participating TO.

(e) The CAISO shall, upon receipt, deposit all non-refundable Interconnection Financial Security and Interconnection Study Deposit amounts in an interest-bearing account at a bank or financial institution designated by the CAISO. Any interest earned on such amounts, based on the actual rate of the account, shall be allocated and disbursed in the same manner as the principal, in accordance with the methodology set forth in this Section 7.6.

(f) Disbursement of Non-Refundable Site Exclusivity Deposits

The CAISO will first apply non-refundable portions of Site Exclusivity Deposits, including interest earned thereon, to offset the costs of the annual reassessment performed under Section 7.4 of this GIDAP. Any remaining non-refundable portions of Site Exclusivity Deposits that exceed the costs of the annual reassessment will be disbursed pursuant to Section 7.6(c).

## **Section 8 Phase II Interconnection Study and TP Deliverability Allocation Processes**

The provisions of this Section 8 shall apply to all Interconnection Requests under this GIDAP except those processed under the Independent Study Process selecting Energy Only Deliverability Status, the Fast Track Process, or the 10 kW inverter process.

### **8.1 Scope of Phase II Interconnection Study**

#### **8.1.1 Purpose of the Phase II Interconnection Study**

The CAISO, in coordination with the applicable Participating TO(s), will conduct a Phase II Interconnection Study that will incorporate eligible Interconnection Requests from the previous Phase I Interconnection Study. The Phase II Interconnection Study shall:

- (i) update, as necessary, analyses performed in the Phase I Interconnection Studies to account for the withdrawal of Interconnection Requests from the current Queue Cluster;
- (ii) identify final GRNUs and IRNUs needed in order to achieve Commercial Operation status for the Generating Facilities and provide final cost estimates;



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- (iii) identify final LDNUs needed to interconnect those Generating Facilities selecting Full Capacity or Partial Capacity Deliverability Status and provide final cost estimates;
- (iv) identify final ADNUs for Interconnection Customers selecting Option (B), as provided below and provide revised cost estimates;
- (v) identify, for each Interconnection Request, the Participating TO's Interconnection Facilities for the final Point of Interconnection and provide a +/-20% cost estimate;
- (vi) coordinate in-service timing requirements based on operational studies in order to facilitate achievement of the Commercial Operation Dates of the Generating Facilities;
- (vii) update the Interconnection Customer's Current Cost Responsibility, Maximum Cost Responsibility, and Maximum Cost Exposure, as applicable;
- (viii) provide updated Precursor Network Upgrades needed to achieve the Commercial Operation status and Deliverability Status for the Generating Facilities;
- (ix) identify any potential control equipment for each Interconnection Request where the Interconnection Customer requested Interconnection Service Capacity lower than the Generating Facility Capacity; and
- (x) identify LOPNUs needed for Generating Facilities selecting Off-Peak Deliverability Status, and provide final cost estimates.

The Phase II Interconnection Study report shall set forth the applicable cost estimates for Network Upgrades and Participating TOs Interconnection Facilities that shall be the basis for Interconnection Financial Security Postings under Section 11.3. Where the Maximum Cost Responsibility is based upon the Phase I Interconnection Study (because it is lower under Section 10.1), the Phase II Interconnection Study report shall recite this fact.

To the extent the CAISO determines that previously identified Conditionally Assigned Network Upgrades become Precursor Network Upgrades pursuant to Section 14.2.2, or are otherwise removed, the CAISO will reduce the Interconnection Customer's Maximum Cost Exposure, as applicable. To the extent the CAISO determines that a Conditionally Assigned Network Upgrade becomes an Assigned Network Upgrade, the CAISO will adjust the Interconnection Customer's Current Cost Responsibility and Maximum Cost Responsibility.

#### **8.1.2 Interim Energy-Only Interconnection until DNUs Completed**

If it is determined that the Delivery Network Upgrades cannot be completed by the Interconnection Customer's identified Commercial Operation Date, the Interconnection Study will include interim mitigation measures necessary to allow the Generating Facility to interconnect as an energy-only resource until the Delivery Network Upgrades for the Generating Facility are completed and placed into service, unless interim partial capacity deliverability measures are developed pursuant to Section 8.1.4.

#### **8.1.3 Cost Estimation Detail**

With respect to the items detailed in 8.1.1, the Phase II Interconnection Study shall specify and estimate the cost of the equipment, engineering, procurement and

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construction work, including the financial impacts (i.e., on Local Furnishing Bonds), if any, and schedule for effecting remedial measures that address such financial impacts, needed on the CAISO Controlled Grid to implement the conclusions of the updated Phase II Interconnection Study technical analyses in accordance with Good Utility Practice to physically and electrically connect the Interconnection Customer's Interconnection Facilities to the CAISO Controlled Grid. The Phase II Interconnection Study shall also identify the electrical switching configuration of the connection equipment, including, without limitation: the transformer, switchgear, meters, and other station equipment; the nature and estimated cost of any Participating TO's Interconnection Facilities and Network Upgrades necessary to accomplish the interconnection; and an estimate of the time required to complete the construction and installation of such facilities.

#### **8.1.4 Operational Deliverability Assessment**

The CAISO will perform an operational partial and interim Deliverability Assessment (operational Deliverability Assessment) as part of the Phase II Interconnection Study. The operational Deliverability Assessment will be performed for each applicable Queue Cluster Group Study group for each applicable study year through the prior year before all of the required Delivery Network Upgrades are in-service. The CAISO will consider operational Deliverability Assessment results stated for the first year in the pertinent annual Net Qualifying Capacity process that the CAISO performs for the next Resource Adequacy Compliance Year. The study results for any other years studied in operational Deliverability Assessment will be advisory and provided to the Interconnection Customer for its use only and for informational purposes only.

The CAISO will publish the methodology under which the CAISO will perform the operational Deliverability assessment on the ISO Website or within a Business Practice Manual.

### **8.2 Determining Phase II Network Upgrades**

#### **8.2.1 Reliability Network Upgrades, Local Delivery Network Upgrades, and Local Off-Peak Network Upgrades**

RNUs, LOPNUs, and LDNUs will be identified on the basis of all Interconnection Customers in the current Queue Cluster regardless of whether they have selected Option (A) or (B).

#### **8.2.2 Area Delivery Network Upgrades**

The Phase II Interconnection Study will identify ADNUs for Interconnection Customers who have selected Option (B). The Deliverability Assessment Base Case for the Phase II Interconnection Study will include Option (A) Generating Facilities in the current Interconnection Study Cycle and earlier queued Generating Facilities that will utilize TP Deliverability in a total amount that fully utilizes but does not exceed the available TP Deliverability.

If the MW capacity of the Option (A) Generating Facilities and earlier queued Generating Facilities utilizing TP Deliverability in an area is less than or equal to the total TP Deliverability in any electrical area, the Deliverability Assessment Base Case will include all Option (A) and earlier queued Generating Facilities in the electrical area.

If the MW capacity of the Option (A) Generating Facilities and earlier queued Generating Facilities utilizing TP Deliverability in an area exceeds the TP Deliverability in any electrical area, the Deliverability Assessment Base Case will include a representative

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subset of Generating Facilities that fully utilizes but does not exceed the TP Deliverability.

After the CAISO has modeled the Option (A) Generating Facilities, as described above, the CAISO will add Option (B) Generating Facilities to the Deliverability Assessment Base Case. ADNUs that are identified as needed for each electrical area shall be assigned to Option (B) Generating Facilities based upon their flow impacts.

### **8.3 Cost Responsibility for Reliability Network Upgrades**

Cost responsibility for final Reliability Network Upgrades identified in the Phase II Interconnection Study of an Interconnection Request shall be assigned to Interconnection Customers regardless of whether the Interconnection Customer has selected Option (A) or (B) or Energy Only Deliverability Status, as follows:

- (i) The cost responsibility for final short circuit related General Reliability Network Upgrades shall be assigned to all Interconnection Requests in the Group Study proportional to the short circuit duty contribution of each Generating Facility.
- (ii) The cost responsibility for all other final General Reliability Network Upgrades shall be assigned to all Interconnection Requests in that Group Study proportional to the basis of the maximum megawatt electrical output of each proposed new Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request.
- (iii) The Interconnection Customer's Current Cost Responsibility will include its allocated cost share for Interconnection Reliability Network Upgrades that are Assigned Network Upgrades. The CAISO will allocate assigned Interconnection Reliability Network Upgrade costs proportional to the number of Interconnection Requests that have been assigned the Interconnection Reliability Network Upgrade in the current Queue Cluster.
- (iv) The Interconnection Customer's Maximum Cost Responsibility will include the full cost of Assigned Network Upgrades that are Interconnection Reliability Network Upgrades unless another Interconnection Customer in the same Queue makes its third Interconnection Financial Security posting for the same assigned Interconnection Reliability Network Upgrade, in which case the CAISO will reduce the Interconnection Customer's Maximum Cost Responsibility to its allocated share pursuant to subsection (iii).
- (v) The Maximum Cost Exposure will include the full cost of Interconnection Reliability Network Upgrades that are Assigned Network Upgrades and Conditionally Assigned Network Upgrades. The CAISO may reduce the Maximum Cost Exposure consistent with subsection (iv).

### **8.4 Cost Responsibility for Delivery Network Upgrades**

The cost responsibility for Local Delivery Network Upgrades identified in the On-Peak Deliverability Assessment as part of the Phase II Interconnection Study shall be assigned to all Interconnection Requests selecting Full Capacity or Partial Capacity Deliverability Status, regardless of whether the Interconnection Customer has selected Option (A) or (B), based on the flow impact of each such Generating Facility on each Local Delivery Network Upgrade as determined by the Generation distribution factor methodology set forth in the On-Peak Deliverability Assessment methodology.

The cost responsibility for Area Delivery Network Upgrades identified in the On-Peak Deliverability Assessment as part of Phase II Interconnection Study shall be assigned to Interconnection Customers who have selected Option (B) Full Capacity or Partial Capacity

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Deliverability Status based on the flow impact of each such Generating Facility on each Area Delivery Network Upgrade as determined by the Generation distribution factor methodology set forth in the On-Peak Deliverability Assessment methodology.

The Current Cost Responsibility provided in the Phase II Interconnection Study shall establish the basis for the second Interconnection Financial Security Posting for Interconnection Customers selecting Option (B).

#### **8.4.1 Cost Responsibility for Local Off-Peak Network Upgrades**

The estimated costs of Local Off-Peak Network Upgrades identified in the Off-Peak Deliverability Assessment will be assigned or conditionally assigned to Interconnection Requests selecting Off-Peak Deliverability Status based on the flow impact of each such Generating Facility on the Off-Peak Network Upgrades as determined by the Generation distribution factor methodology set forth in the Off-Peak Deliverability Assessment methodology.

### **8.5 Phase II Interconnection Study Procedures**

The CAISO shall coordinate the Phase II Interconnection Study with applicable Participating TO(s) and any Affected System that is affected by the Interconnection Request pursuant to Section 3.7. Existing studies shall be used to the extent practicable when conducting the Phase II Interconnection Study. The CAISO will coordinate Base Case development with the applicable Participating TOs to ensure the Base Cases are accurately developed. The CAISO shall use Reasonable Efforts to commence the Phase II Interconnection Study by May 1 of each year, and to complete and issue to Interconnection Customers the Phase II Interconnection Study report within two hundred and five (205) calendar days after the annual commencement of the Phase II Interconnection Study. The CAISO will share applicable study results with the applicable Participating TO(s), for review and comment, and will incorporate comments into the study report. The CAISO will issue a final Phase II Interconnection Study report to the Interconnection Customer.

At the request of the Interconnection Customer or at any time the CAISO determines that it will not meet the required time frame for completing the Phase II Interconnection Study, the CAISO shall notify the Interconnection Customer as to the schedule status of the Phase II Interconnection Study and provide an estimated completion date with an explanation of the reasons why additional time is required.

Upon request, the CAISO shall provide the Interconnection Customer all supporting documentation, workpapers and relevant pre-Interconnection Request and post-Interconnection Request power flow, short circuit and stability databases for the Phase II Interconnection Study, subject to confidentiality arrangements consistent with Section 15.1.

### **8.6 Accelerated Phase II Interconnection Study Process**

The Phase II Interconnection Study shall be completed within one hundred fifty (150) calendar days following the later of (1) the posting of the initial Interconnection Financial Security or (2) the completion of the re-assessment in preparation for the Phase II Interconnection Study under Section 7.4, where the Interconnection Request meets the following criteria: (i) the Interconnection Request was not grouped with any other Interconnection Requests during the Phase I Interconnection Study or was identified as interconnecting to a point of available transmission during the Phase I Interconnection Study, and (ii) the Interconnection Customer is able to demonstrate that the general Phase II Interconnection Study timeline under GIDAP Section 8.5 is not sufficient to accommodate the Commercial Operation Date of the Generating Facility.

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In addition to the above criteria, the CAISO may apply to FERC in coordination with the Interconnection Customer for a waiver of the timelines in this GIDAP to meet the schedule required by an order, ruling, or regulation of the Governor of the State of California, the CPUC, or the CEC.

### **8.7 Results Meeting With the CAISO and Applicable PTO(s)**

Within thirty (30) calendar days of providing the final Phase II Interconnection Study report to the Interconnection Customer, the applicable Participating TO(s), the CAISO and the Interconnection Customer shall meet to discuss the results of the Phase II Interconnection Study, including selection of the final Commercial Operation Date.

Should the Interconnection Customer provide written comments on the final Phase II Interconnection Study report within ten (10) Business Days of receipt of the report, but in no case less than three (3) Business Days before the Results Meeting, whichever is sooner, then the ISO will address the written comments in the Phase II Interconnection Study Results Meeting. Should the Interconnection Customer provide comments at any later time (up to the time of the Results Meeting), then such comments shall be considered informal inquiries to which the CAISO will provide informal, informational responses at the Results Meeting, to the extent possible.

The Interconnection Customer may submit, in writing, additional comments on the final Phase II Interconnection Study report up to three (3) Business Days following the Results Meeting. Based on any discussion at the Results Meeting and any comments received, the CAISO (in consultation with the applicable Participating TO(s)) will determine, in accordance with Section 6.8, whether it is necessary to follow the final Phase II Interconnection Study Report with a revised study report or an addendum to the report. The CAISO will issue any such revised report or addendum no later than fifteen (15) Business Days following the Results Meeting.

### **8.8 [Intentionally Omitted]**

### **8.9 Allocation Process for TP Deliverability**

After the Phase II Interconnection Study reports are issued, the CAISO will perform the allocation of the TP Deliverability to Option (A) and Option (B) Generating Facilities that meet the eligibility criteria set forth in Section 8.9.2. The TP Deliverability available for allocation will be determined from the most recent Transmission Plan. Once a Generating Facility is allocated TP Deliverability, the facility will be required to comply with retention criteria specific in Section 8.9.3 in order to retain the allocation.

Allocation of TP Deliverability shall not provide any Interconnection Customer or Generating Facility with any right to a specific MW of capacity on the CAISO Controlled Grid or any other rights (such as title, ownership, rights to lease, transfer or encumber).

The CAISO will issue a market notice to inform interested parties as to the timeline for commencement of allocation activities, for Interconnection Customer submittal of eligibility status and retention information, and anticipated release of allocation results to Interconnection Customers. There are two components to the allocation process.

#### **8.9.1 First Component: Representing TP Deliverability Used by Prior Commitments**

The CAISO will identify the following commitments that will utilize MW quantities of TP Deliverability:

- (a) The proposed Generating Facilities corresponding to earlier queued Interconnection Requests meeting the criteria set forth below:

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- (i) proposed Generating Facilities in Queue Cluster 4 or earlier that have executed PPAs with Load-Serving Entities and have GIAs that are in good standing.
  - (ii) proposed Generating Facilities in Queue Cluster 5 and subsequent Queue Clusters that were previously allocated TP Deliverability and have met the criteria to retain the allocation set forth in Section 8.9.3.
- (b) any Maximum Import Capability included as a planning objective in the Transmission Plan;
  - (c) any other commitments having a basis in the Transmission Plan.

This first component is performed for the purpose of determining the amount of TP Deliverability available for allocation to the current queue cluster in accordance with section 8.9.2, and shall not affect the rights and obligations of proposed Generating Facilities in Queue Cluster 4 or earlier with respect to the construction and funding of Network Upgrades identified for such Generating Facilities, or their requested Deliverability Status. Such rights and obligations will continue to be determined pursuant to the GIP and the Generating Facility's GIA.

**8.9.2 Second Component: Allocating TP Deliverability**

Following the process set forth in Section 8.9.1, the CAISO will allocate any remaining TP Deliverability in the following order.

The CAISO shall allocate available TP Deliverability to all or a portion of the full MW capacity of the Generating Facility as specified in the Interconnection Request. Where a criterion is met by a portion of the full MW generating capacity of the Generating Facility, the eligibility score associated with that criterion shall apply to the portion that meets the criterion. The demonstration must relate to the same proposed Generating Facility as described in the Interconnection Request.

- (A) To Interconnection Customers that have executed power purchase agreements, and to Interconnection Customers in the current Queue Cluster that are Load Serving Entities serving their own Load.
- (B) To Interconnection Customers that are actively negotiating a power purchase agreement or on an active short list to receive a power purchase agreement.
- (C) To Interconnection Customers that have achieved Commercial Operation for the capacity seeking TP Deliverability.
- (D) To Interconnection Customers electing to be subject to Section 8.9.2.3.

Energy Only capacity seeking TP Deliverability may not trigger the construction of Delivery Network Upgrades pursuant to Section 6.3.2. This includes, without limitation, capacity expansions effected through modification requests and capacity converted to Energy Only after failing to receive or retain a TP Deliverability allocation. The CAISO will allocate TP Deliverability to Energy Only Interconnection Customers requesting Deliverability after FCDS and PCDS Interconnection Customers within its allocation group and solely based on TP Deliverability available from existing transmission facilities, from already planned upgrades in the CAISO Transmission Planning Process, or upgrades assigned to an interconnection project that has an executed GIA and currently has a TP Deliverability allocation.

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Interconnection Customers requesting Deliverability for Energy Only capacity must submit to the CAISO a \$60,000 study deposit for each Interconnection Request seeking TP Deliverability. The CAISO will deposit these funds in an interest-bearing account at a bank or financial institution designated by the CAISO. The funds will be applied to pay for prudent costs incurred by the CAISO, the Participating TO(s), and/or third parties at the direction of the CAISO or applicable Participating TO(s), as applicable, to perform and administer the TP Deliverability studies for the Energy Only Interconnection Customers. Any and all costs of the Energy Only TP Deliverability study will be borne by the Interconnection Customer. The CAISO will coordinate the study with the Participating TO(s). The Participating TO(s) will invoice the CAISO for any work within seventy-five (75) calendar days of completion of the study, and, within thirty (30) days thereafter, the CAISO will issue an invoice or refund to the Interconnection Customer, as applicable, based upon such submitted Participating TO invoices and the CAISO's own costs for the study. If the actual costs of the study are greater than the deposit provided by the Interconnection Customer, the Interconnection Customer will pay the balance within thirty (30) days of being invoiced.

Beginning with new awards in the 2023-2024 TP Deliverability allocation cycle, for an Interconnection Customer seeking to receive or retain TP Deliverability to represent that it has, is negotiating, or is shortlisted for a power purchase agreement under this GIDAP, the agreement must meet the following criteria:

- (1) the agreement has a term of no less than five (5) years. Interconnection Customers with multiple, short-term agreements for the same capacity may meet this criterion where the combined terms are five (5) years or more; and
- (2) the counterparty must:
  - (a) be a Load Serving Entity procuring the capacity to meet its own Resource Adequacy obligation; or
  - (b) demonstrate it has a contract to provide the capacity for at least one (1) year to a Load Serving Entity for a Resource Adequacy obligation.

Interconnection Customers may seek or retain a TP Deliverability allocation if they meet all tariff criteria except the counterparty criterion (2); however, within thirty (30) days of receiving a TP Deliverability allocation, they must demonstrate they meet the counterparty criterion or provide a deposit of \$10,000 per MW of allocated TP Deliverability, but in no case less than \$500,000. The CAISO will deposit these funds in an interest-bearing account at a bank or financial institution designated by the CAISO. The CAISO will refund the deposit when the Generating Facility begins Commercial Operation or meets the counterparty criterion, whichever is earlier. To the extent the Interconnection Customer withdraws, is deemed withdrawn, converts to Energy Only, or otherwise downsizes or eliminates the capacity allocated TP Deliverability, the deposit or commensurate portion thereof will be non-refundable, and the CAISO will process it and any accrued interest pursuant to Section 7.6.

Interconnection Customers that received and retained TP Deliverability allocations before the 2023-2024 cycle are not subject to the minimum term or counterparty requirements for those allocations, including under Section 6.7.4 and this Section 8.9. If they re-seek TP Deliverability for any reason during or after the 2023-2024 cycle, they would be subject to these requirements in seeking a new allocation or retaining a new allocation.

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For all TP Deliverability allocations based upon having, negotiating, or being shortlisted for power purchase agreements, the CAISO will allocate TP Deliverability up to the amount of deliverable MW capacity procured by the power purchase agreement. All Load Serving Entities building Generating Facilities to serve their own Load must be doing so to fulfill a regulatory requirement that warrants Deliverability. Load Serving Entities acting as Interconnection Customers are otherwise eligible for all other attestations.

Notwithstanding any other provision, all refunds pursuant to this Appendix DD will be processed in accordance with the CAISO's generally accepted accounting practices, including monthly batched deposit refund disbursements. Any CAISO deadline will be tolled to the extent the Interconnection Customer has not provided the CAISO with the appropriate documents to facilitate the Interconnection Customer's refund, or if the Interconnection Customer has any outstanding invoice balance due to the CAISO on another project owned by the same Interconnection Customer.

### 8.9.2.1 Deliverability Affidavits

To determine TP Deliverability allocation order, Interconnection Customers will be assigned a numerical score reflecting the its demonstration of having met the criteria below under the methodology set forth in the Business Practice Manual.

- (1) Permitting status. An Interconnection Customer's Generating Facility must meet at least one of the following:
  - a. The Interconnection Customer has received its final governmental permit or authorization allowing the Generating Facility to commence construction.
  - b. The Interconnection Customer has received a draft environmental report document (or equivalent environmental permitting document) indicating likely approval of the requested permit and/or which indicates that the permitting authority has not found an environmental impact which would likely prevent the permit approval.
  - c. The Interconnection Customer has applied for the necessary governmental permits or authorizations and the authority has deemed such documentation as data adequate for the authority to initiate its review process.
  - d. The Interconnection Customer has applied for the necessary governmental permit or authorization for the construction.
- (2) Project financing status. An Interconnection Customer's Generating Facility must meet at least one of the following criteria:
  - a. The Interconnection Customer has an executed and regulator-approved power purchase agreement.
  - b. The Interconnection Customer has an executed power purchase agreement but such agreement has not yet received regulatory approval.
  - c. The Interconnection Customer is on an active short list or other commercially recognized method of preferential ranking of power providers by a prospective purchaser Load Serving Entity or procuring

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entity, or is currently negotiating a power purchase agreement.

- d. The Interconnection Customer is a Load Serving Entity constructing its project to serve its own Load pursuant to a regulatory requirement.
- e. The Interconnection Customer is proceeding to commercial operation without a power purchase agreement pursuant to Section 8.9.2.2, attested to balance-sheet financing before November 27, 2018, or attests to being balance-sheet financed or otherwise received a commitment of project financing pursuant to Section 8.9.3.1

(3) Land acquisition

- a. The Interconnection Customer demonstrates a present legal right to begin construction of the Generation Facility on one hundred percent (100%) of the real property footprint necessary for the entire Generating facility.
- b. The Interconnection Customer demonstrates Site Exclusivity.

In allocating TP Deliverability under this section, in a situation where the TP Deliverability cannot accommodate all of the Interconnection Customers in a qualifying group, the CAISO will allocate TP Deliverability based on the highest numerical score. In a situation where the available amount of TP Deliverability can accommodate all Interconnection Customers with equal scores, the CAISO will allocate the TP Deliverability to the Interconnection Customers with the lowest LDNU cost estimates. For all TP Deliverability allocations based upon having, negotiating, or being shortlisted for power purchase agreements, the CAISO will allocate TP Deliverability up to the amount of deliverable MW capacity procured by the power purchase agreement.

All power purchase agreements must require Deliverability above zero for the Interconnection Customer to represent that it has, is negotiating, or is shortlisted for a power purchase agreement. All Load Serving Entities building Generating Facilities to serve their own Load must be doing so to fulfill a regulatory requirement that warrants Deliverability.

**8.9.2.2 Proceeding without a Power Purchase Agreement prior to September 1, 2022**

Interconnection Customers that received TP Deliverability in this group and parked portions of their Interconnection Request that did not receive TP Deliverability may receive TP Deliverability in subsequent allocation cycles from any group for which they qualify. Interconnection Customers that received TP Deliverability allocations for less than requested may elect to reduce their capacity to the amount of TP Deliverability received following the allocation.

If an Interconnection Customer received TP Deliverability on the basis that it is proceeding without a power purchase agreement, it may not request suspension under its GIA, delay providing its notice to proceed as specified in its GIA, or modify its Commercial Operation Date beyond the earlier of (a) the date established in its Interconnection Request when it requests TP Deliverability or (b) seven (7) years from the date the CAISO received its Interconnection Request. Extensions due to Participating TO construction delays will extend these deadlines equally. Where the Interconnection Customer has executed a power purchase agreement, it may request to align its construction timeline and Commercial Operation Date for the deliverable MW capacity procured by the power purchase agreement consistent with Section 6.7.5. This change in milestones cannot impact the timing of shared Interconnection Facilities or

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Network Upgrades. Interconnection Customers that fail to proceed toward their Commercial Operation Date under these requirements and as specified in their GIA will be converted to Energy Only. Interconnection Customers that become Energy Only for this or any reason may not reduce their Maximum Cost Responsibility, Current Cost Responsibility, or Interconnection Financial Security for any assigned Delivery Network Upgrades unless the CAISO and Participating TO(s) determine that the Interconnection Customer's assigned Delivery Network Upgrade(s) is no longer needed for current Interconnection Customers.

This Section 8.9.2.2 does not apply to Interconnection Customers that attested to balance-sheet financing or otherwise receiving a commitment of project financing before November 27, 2018, or that do so pursuant to Section 8.9.3.1.

### **8.9.2.3 TP Deliverability Group D**

This section applies to any Interconnection Customer that seeks a TP Deliverability allocation under group D, regardless of whether the Interconnection Customer receives an allocation from group D or later converts to Energy Only. For the entire Generating Facility, including Energy Only portions, the Interconnection Customer may not request suspension under its GIA, delay providing its notice to proceed as specified in its GIA, or delay its Commercial Operation Date beyond the date established in its Interconnection Request when it requested TP Deliverability. Extensions due to Participating TO construction delays will extend these deadlines equally. Interconnection Customers that fail to proceed toward their Commercial Operation Dates under these requirements and as specified in their GIAs will be withdrawn.

If an Interconnection Customer demonstrates it has received a power purchase agreement, the portion of the Generating Facility procured by the power purchase agreement is not subject to this Section. Notwithstanding Section 8.9.4, if an Interconnection Customer receives a TP Deliverability allocation in the amount it requested, it must accept the allocation or withdraw.

Beginning with the 2023-2024 TP Deliverability allocation process, Interconnection Customers may not seek TP Deliverability through this group D for any capacity that is Energy Only. This includes, without limitation, capacity expansions effected through modification requests and capacity converted to Energy Only after failing to receive or retain a TP Deliverability allocation.

For Interconnection Customers in Cluster 13 or earlier, this Section 8.9.2.3 does not apply to their Generating Facility except for any portion of the Generating Facility that seeks TP Deliverability from Group D.

### **8.9.3 Retaining TP Deliverability Allocation**

Interconnecting Customers that received TP Deliverability must provide documentation demonstrating they meet the following requirements by the annual due date established via market notice pursuant to Section 8.9:

- (1) Interconnection Customers that received TP Deliverability on the basis of negotiating or being shortlisted for a power purchase agreement must execute the agreement.
- (2) Interconnection Customers that received TP Deliverability from group D, must demonstrate that they executed a power purchase agreement, are actively negotiating a power purchase agreement, or on an active short list to receive a power purchase agreement. Interconnection Customers that retain TP

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Deliverability by demonstrating they are actively negotiating or shortlisted for a power purchase agreement must demonstrate they executed the power purchase agreement in the following year.

Failure to meet the requirements of this Section by the annual due date established via market notice will result in conversion to Energy Only. To the extent TP Deliverability has been allocated, lost, or relinquished only for a portion of the Interconnection Customer's project, this section 8.9.3 will apply to that portion of the project only. An Interconnection Customer's failure to retain its TP Deliverability will not be considered a Breach of its GIA. Except as provided in Section 8.9.3.2, Interconnection Customers that become Energy Only for failure to retain their TP Deliverability allocation may not reduce their Maximum Cost Responsibility, Current Cost Responsibility, or Interconnection Financial Security for any assigned Delivery Network Upgrades unless the CAISO and Participating TO(s) determine that the Interconnection Customer's assigned Delivery Network Upgrade(s) is no longer needed for current Interconnection Customers.

**8.9.3.1 [Not Used]**

**8.9.3.2 Loss of Power Purchase Agreement or Short List Status**

Notwithstanding any provision of this GIDAP, if an Interconnection Customer receives or retains TP Deliverability for all or a portion of its project by attesting that:

- (a) it had a power purchase agreement, and the Load Serving Entity or procuring entity unilaterally terminates that power purchase agreement through no fault of the Interconnection Customer; or
- (b) it was actively negotiating a power purchase agreement or on an active short list to receive a power purchase agreement, and then did not finalize a power purchase agreement.

The Interconnection Customer may park its Interconnection Request, and re-seek TP Deliverability with its Queue Cluster. Alternatively, if such an Interconnection Customer's Queue Cluster is no longer eligible to park and has already completed the TP Deliverability allocation cycle after its parking opportunities, the Interconnection Customer will be converted to Energy Only but will not retain cost responsibility for its assigned Delivery Network Upgrades. Such an Interconnection Customers may elect to reduce its Interconnection Financial Security as a result.

**8.9.4 Parking for Option (A) Generating Facilities**

For an Option (A) Generating Facility in the current Interconnection Study Cycle that either was allocated less TP Deliverability than requested or does not desire to accept the amount allocated the Interconnection Customer shall select one of the following options:

- (1) Withdraw its Interconnection Request
- (2) Enter into a GIA, in which case the Interconnection Request shall automatically convert to Energy Only Deliverability Status. In such circumstances, upon execution of the GIA, any Interconnection Financial Security shall be adjusted to remove the obligation for Interconnection Financial Security pertaining to LDNUs
- (3) Park the Interconnection Request; in which case the Interconnection Request may remain in the Interconnection queue until the next allocation of TP Deliverability in which it may participate in accordance with the requirements of

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Section 8.9.2. Parking an Interconnection Request does not confer a preference with respect to any other Interconnection Request with respect to allocation of TP Deliverability.

An Interconnection Customer that selects option (2) or (3) above may, at the time it selects the option, elect to reduce the generating capacity of its Generating Facility. An Interconnection Customer that has elected to park its Interconnection Request (option (3)) will not be tendered a GIA until it concludes its parking by accepting a TP Deliverability allocation or converting to Energy Only Deliverability Status and has made its second Interconnection Financial Security posting pursuant to Section 11.3. Parked Interconnection Customers may not submit modification requests except for the following modifications:

- (1) reducing the Interconnection Service Capacity;
- (2) changing fuel type or technology;
- (3) Permissible Technological Advancements; or
- (4) changing the Point of Interconnection.

Parked Interconnection Customers must post their second Interconnection Financial Security prior to submitting any of these modification requests, and submit a modification request pursuant to Section 6.7.2.3 of this GIDAP.

#### **8.9.4.1 Extended Parking for Option (A) Generating Facilities**

An Option (A) Generating Facility that parked its Interconnection Request and participated in a second allocation of TP Deliverability may remain parked for one final (third) allocation of TP Deliverability where: (a) the most recent TP Deliverability allocation shows that TP Deliverability will still be available to the Generating Facility; and (b) the Generating Facility has not been assigned Network Upgrades identified as needed by other Interconnection Customers in the Generating Facility's cluster study group or later cluster study groups. Criterion (b) will not apply where the Generating Facility has been assigned Network Upgrades identified as needed only by other Interconnection Customers in the Generating Facility's own cluster study group and all of those active Interconnection Customers also elect to remain parked.

#### **8.9.5 Partial Allocations of Transmission Based Deliverability to Option (A) and Option (B) Generating Facilities**

If a Generating Facility is allocated TP Deliverability in the current Interconnection Study Cycle in an amount less than the amount of Deliverability requested, then the Interconnection Customer must choose one of the following options:

- (i) Accept the allocated amount of TP Deliverability and reduce the MW generating capacity of the proposed Generating Facility such that the allocated amount of TP Deliverability will provide Full Capacity Deliverability Status to the reduced generating capacity;
- (ii) Accept the allocated amount of TP Deliverability and adjust the Deliverability status of the proposed Generating Facility to achieve Partial Capacity Deliverability corresponding to the allocated TP Deliverability;
- (iii) For Option (A) Generating Facilities, accept the allocated amount of TP

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Deliverability and seek additional TP Deliverability for the remainder of the requested Deliverability of the Interconnection Request in the next allocation cycle. In such instance, the Interconnection Customer shall execute a GIA for the entire Generating Facility having Partial Capacity Deliverability corresponding to the allocated amount of TP Deliverability. Following the next cycle of TP Deliverability allocation, the GIA shall be amended as needed to adjust its Deliverability status to reflect any additional allocation of TP Deliverability. At this time the Interconnection Customer may also adopt options (i) or (ii) above based on the final amount of TP Deliverability allocated to the Generating Facility. There will be no further opportunity for this Generating Facility to participate in any subsequent cycle of TP Deliverability allocation; or

- (iv) Decline the allocated amount of TP Deliverability and either withdraw the Interconnection Request or convert to Energy Only Deliverability Status. An Interconnection Customer having an Option (A) Generating Facility that has not previously parked may decline the allocation of TP Deliverability and park until the next cycle of TP Deliverability allocation in the next Interconnection Study Cycle.

An Interconnection Customer that selects option (iii) or (iv) above may, at the time it selects the option, elect to reduce the generating capacity of its Generating Facility.

Interconnection Customers accepting a partial allocation of TP Deliverability may pursue additional deliverability as described in Section 8.9.2.

#### **8.9.6 Declining TP Deliverability Allocation**

An Interconnection Customer having an Option (A) Generating Facility and allocated the entire amount of requested TP Deliverability may decline all or a portion of the TP Deliverability allocation and park the Generating Facility Request as described in Section 8.9.4(3). An Interconnection Customer that selects this option may, at the time it selects the option, elect to reduce the generating capacity of its Generating Facility.

#### **8.9.7 [Intentionally Omitted]**

#### **8.9.8 Updates to Phase II Interconnection Study Results**

Upon completion of the allocation of TP Deliverability in accordance with Section 8.9.2, the ISO will provide the allocation results to the Interconnection Customers for eligible Generating Facilities in the current Queue Cluster and eligible parked Generating Facilities. Each of these Interconnection Customers will then have seven (7) calendar days to inform the ISO of its decisions in accordance with Sections 8.9.4, 8.9.5, and 8.9.6. Following the ISO's receipt of this information from all affected Interconnection Customers, the ISO will provide updates where needed to the Phase II Interconnection Study reports for all Generating Facilities whose Network Upgrades have been affected.

#### **8.9.9 Deliverability Transfers**

Deliverability may not be assigned or otherwise transferred except as expressly provided by the CAISO Tariff. An Interconnection Customer may reallocate its Generating Facility's Deliverability among its own Generating Units or Resource IDs at the Generating Facility and to other Interconnection Customers interconnected at the same substation and at the same voltage level. The Generating Facility's aggregate output as evaluated in the Deliverability Assessment cannot increase as the result of any transfer, but may decrease based on the assignee's characteristics and capacity. The CAISO will inform the Interconnection Customer of each Generating Unit's Deliverability Status and

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associated capacity as the result of any transfer. The results will be based on the current Deliverability Assessment methodology.

An Interconnection Customer may request to reallocate its Deliverability among its Generating Units and to other Interconnection Customers interconnected at the same substation and at the same voltage level pursuant to Section 6.7.2.2 of this GIDAP, Article 5.19 of the LGIA, and Article 3.4.5 of the SGIA, as applicable. A repowering Interconnection Customer may transfer Deliverability as part of the repowering process pursuant to Section 25.1.2 of the CAISO Tariff. An Interconnection Customer expanding its capacity behind-the-meter pursuant to Section 4.2.1.2 also may transfer Deliverability as part of that process, or subsequently under the other processes in this Section. The assignee of a Deliverability transfer does not need to submit a modification request to receive a transfer.

## **Section 9 Additional Deliverability Assessment Options**

### **9.1 [Intentionally Omitted]**

### **9.2 [Intentionally Omitted]**

### **9.3 PTO Tariff Option for Full Capacity Deliverability Status**

To the extent that a Participating TO's tariff provides the option for customers taking interconnection service under the Participating TO's tariff to obtain Full Capacity Deliverability Status, the CAISO will, in coordination with the applicable Participating TO, perform the necessary Deliverability studies to determine the Deliverability of customers electing such option. The CAISO shall execute any necessary agreements for reimbursement of study costs it incurs and to assure cost attribution for any Network Upgrades relating to any Deliverability status conferred to such customers under the Participating TO's tariff.

### **9.4 Deliverability from Non-Participating TOs**

This process applies to Generating Facilities that interconnect to the transmission facilities of a Non-Participating TO located within the CAISO Balancing Authority Area that wish to obtain Full Capacity Deliverability Status or Partial Capacity Deliverability Status under the CAISO Tariff. Such Generating Facilities will be eligible to be studied by the CAISO for Full or Partial Capacity Deliverability Status pursuant to the following provisions:

- (a) The Generating Facility seeking Full or Partial Capacity Deliverability Status under the CAISO Tariff must submit a request to the CAISO to study it for such Status. Such study request will be in the form of the CAISO's pro forma Interconnection Request, must include the Generating Facility's intended Point of Delivery to the CAISO Controlled Grid, and must be submitted during a Cluster Application Window. The Generating Facility will be required to satisfy the same study deposit and Interconnection Financial Security posting requirements as an Interconnection Customer.
- (b) The Non-Participating TO that serves as the interconnection provider to the Generating Facility must treat the CAISO as an Affected System in the interconnection study process for the Generating Facility.
- (c) As part of the Non-Participating TO's interconnection study process, the CAISO, in its sole discretion and on a case-by-case basis, will determine the adequacy of transmission on the Non-Participating TO's system for the Generating Facility to be deemed fully deliverable to the elected Point of Delivery to the CAISO Controlled Grid. Only those proposed Generating Facilities (or proposed increases in Generating Facility capacity) for which the CAISO has determined there is adequate transmission capacity on the Non-

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Participating TO system to provide full Deliverability to the applicable Point of Delivery will be eligible to be assessed for Full or Partial Capacity Deliverability Status under the CAISO Tariff.

- (d) If the Generating Facility is eligible for study for Full or Partial Capacity Deliverability Status, the CAISO will include the Generating Facility in the Interconnection Study process for the Queue Cluster associated with the Cluster Application Window in which the Generating Facility has submitted its study request. The Point of Delivery with the CAISO will be treated as the Point of Interconnection for purposes of including the Generating Facility in a Group Study with any applicable CAISO Interconnection Customers in the relevant Queue Cluster. Pursuant to the Queue Cluster Interconnection Study process the Generating Facility will be allocated its cost responsibility share of any applicable LDNUs or ADNUs.

The Generating Facility shall be permitted to select an Option (A) or Option (B) Deliverability option under Section 7.2 (and will be treated as an Option (B) Generating Facility if a selection is not provided to the CAISO) and permitted to participate in TP Deliverability allocation under Section 8.

- (e) The CAISO, Participating TO, and Interconnection Customer will execute any necessary agreements for reimbursement of study costs incurred to assure cost attribution for any Network Upgrades relating to any Deliverability status conferred to each such interconnection customer under the Non-Participating TO's tariff.
- (f) The Non-Participating TO's interconnection customer will receive repayment of funds expended for the construction of the LDNUs, and, as applicable, ADNUs, on the CAISO Controlled Grid in the same manner as CAISO Interconnection Customers, as specified in Section 14.3.2.

## **Section 10 Cost Responsibility for Interconnection Customers**

### **10.1 Interconnection Customers in a Queue Cluster.**

- (a) RNUs, LOPNUs and LDNUs. The Interconnection Studies will establish Interconnection Customers' Current Cost Responsibility, Maximum Cost Responsibility, and Maximum Cost Exposure consistent with the cost allocations described in Section 8. The CAISO will adjust Interconnection Customers' cost responsibilities as described in this GIDAP. Interconnection Customers will post Interconnection Financial Security based on their Current Cost Responsibility.
- (b) AOPNUs and ADNUs. Interconnection Customers selecting Option (A) do not post Interconnection Financial Security for ADNUs. Interconnection Customers do not post Interconnection Financial Security for AOPNUs. The Current Cost Responsibility provided in the Phase I Interconnection Studies establishes the basis for the initial Interconnection Financial Security Posting under Section 11.2. For Interconnection Customers selecting Option (B), the Phase II Interconnection Studies shall refresh the Current Cost Responsibility for ADNUs and shall provide the basis for second and third Interconnection Financial Postings as specified in Section 11.

The ADNU and AOPNU cost estimates provided in any Interconnection Study report are estimates only and do not provide a maximum value for cost responsibility to an Interconnection Customer for ADNUs or AOPNUs. However, subsequent to the Interconnection Customer's receipt of its Phase II Interconnection Study report, an Interconnection Customer having selected Option (B) may have its ADNUs adjusted in the reassessment process undertaken under Section 7.4. Accordingly, for such

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Interconnection Customers, the most recent annual reassessment undertaken under Section 7.4 shall provide the most recent cost estimates for the Interconnection Customer's ADNUs.

**10.2 Interconnection Customers in the Independent Study Process.**

- (a) Assigned Network Upgrades. The Current Cost Responsibility for the Interconnection Customer's Financial Security for RNUs shall be established by the costs for such Network Upgrades assigned to the Interconnection Customer in the final system impact and facilities study report.

For such Interconnection Customers choosing Full Capacity or Partial Capacity Deliverability status, the maximum value of LDNUs shall be established by the lesser of the costs for such Network Upgrades assigned to the Interconnection Customer in the final Phase I Interconnection Study or the final Phase II Interconnection Study.

For such Interconnection Customers choosing Off-Peak Deliverability Status, the maximum value of LOPNUs will be established by the lesser of the costs for such Network Upgrades assigned to the Interconnection Customer in the final Phase I Interconnection Study or the final Phase II Interconnection Study.

The Interconnection Customer's Maximum Cost Responsibility shall be subject to further adjustment based on the results of the annual reassessment process, as set forth in Section 7.4.

- (b) ADNUs and AOPNUs. Interconnection Customers selecting Option (A) do not post Interconnection Financial Security for ADNUs. The Current Cost Responsibility provided in the Phase I Interconnection Studies establishes the basis for the initial Interconnection Financial Security posting under Section 11.2. For Interconnection Customers selecting Option (B), the Phase II Interconnection Studies shall refresh the Current Cost Responsibility for ADNUs and shall provide the basis for second and third Interconnection Financial Postings as specified in Section 11.

The ADNU cost estimates provided in any study report are estimates only and do not provide a maximum value for cost responsibility to an Interconnection Customer for ADNUs. However, subsequent to the Interconnection Customer's receipt of its Phase II Interconnection Study report, an Interconnection Customer having selected Option (B) may have its ADNU adjusted in the reassessment process undertaken under Section 7.4.

Interconnection Customers do not post Interconnection Financial Security for AOPNUs.

**Section 11 Interconnection Financial Security**

**11.1 Types of Interconnection Financial Security**

The Interconnection Financial Security posted by an Interconnection Customer may be any combination of the following types of Interconnection Financial Security provided in favor of the applicable Participating TO(s):

- (a) an irrevocable and unconditional letter of credit issued by a bank or financial institution that has a credit rating of A or better by Standard and Poors or A2 or better by Moody's;
- (b) an irrevocable and unconditional surety bond issued by an insurance company that has a credit rating of A or better by Standard and Poors or A2 or better by Moody's;

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- (c) an unconditional and irrevocable guaranty issued by a company has a credit rating of A or better by Standard and Poors or A2 or better by Moody's;
- (d) a cash deposit standing to the credit of the applicable Participating TO(s) in an interest-bearing escrow account maintained at a bank or financial institution that is reasonably acceptable to the applicable Participating TO(s);
- (e) a certificate of deposit in the name of the applicable Participating TO(s) issued by a bank or financial institution that has a credit rating of A or better by Standard and Poors or A2 or better by Moody's; or
- (f) a payment bond certificate in the name of the applicable Participating TO(s) issued by a bank or financial institution that has a credit rating of A or better by Standard and Poors or A2 or better by Moody's.

Interconnection Financial Security instruments as listed above shall be in such form as the CAISO and applicable Participating TO(s) may reasonably require from time to time by notice to Interconnection Customers or in such other form as has been evaluated and approved as reasonably acceptable by the CAISO and applicable Participating TO(s).

The CAISO shall publish and maintain standardized forms related to the types of Interconnection Financial Security listed above which shall be accessible on the CAISO Website. The CAISO shall require the use of standardized forms of Interconnection Financial Security to the greatest extent possible. If at any time the guarantor of the Interconnection Financial Security fails to maintain the credit rating required by this Section, the Interconnection Customer shall provide to the applicable Participating TO(s) replacement Interconnection Financial Security meeting the requirements of this Section within five (5) Business Days of the change in credit rating.

Interest on a cash deposit standing to the credit of the applicable Participating TO(s) in an interest-bearing escrow account under subpart (d) of this Section will accrue to the Interconnection Customer's benefit and will be added to the Interconnection Customer's account on a monthly basis.

## **11.2 Interconnection Financial Security-Initial Posting for Queue Cluster Customers**

**11.2.1** Each Interconnection Customer in a Queue Cluster shall post, with notice to the CAISO, two separate Interconnection Financial Security instruments: (i) a posting relating to the applicable Network Upgrades; (ii) a posting relating to the Participating TO's Interconnection Facilities.

Interconnection Customers owned by Participating Transmission Owners are not required to post Interconnection Financial Security to themselves. Notwithstanding this exemption, Interconnection Customers owned by Participating Transmission Owners (i) must post Interconnection Financial Security required for Network Upgrades or Participating TO's Interconnection Facilities on other Participating Transmission Owner's systems where required for interconnection; and (ii) must remit to the CAISO an amount equal to any non-fundable portion of the Interconnection Financial Security that would have been forfeited upon withdrawal or termination absent this exemption pursuant to Sections 7.6 and 11.4.

**11.2.2** Timing of Postings. The postings set forth in this Section shall be made any time after the issuance of the final Phase I Interconnection Study report but no later than ninety (90) calendar days after issuance of the final Phase I Interconnection Study report for Interconnection Customers in a Queue Cluster.

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Revised Cluster Study Reports. If the CAISO revises a final Phase I Interconnection Study report pursuant to Section 6.8, the initial postings will be due from the Interconnection Customer by the later of ninety (90) calendar days after issuance of the original final Phase I Interconnection Study Report or forty (40) calendar days after issuance of the revised final Phase I Interconnection Study Report.

**11.2.3 Posting Amount for Network Upgrades.**

**11.2.3.1 Small Generator Interconnection Customers**

Each Interconnection Customer for a Small Generating Facility assigned to a Queue Cluster shall post an Interconnection Financial Security instrument as follows:

- 1) Interconnection Customers selecting Energy Only Deliverability Status must post for assigned RNUs and assigned LOPNUs, if any.

The posting amount for such RNUs and LOPNUs shall equal the lesser of fifteen percent (15%) of the Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Network Upgrades or (ii) \$20,000 per megawatt of electrical output of the Small Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, but in no event less than \$50,000.

- 2) Interconnection Customers selecting Option (A) Full Capacity or Partial Capacity Deliverability Status must post for assigned RNUs, LOPNUs, and LDNUs, if any.

The posting amount for such RNUs, LOPNUs, and LDNUs shall equal the lesser of fifteen percent (15%) of the Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Network Upgrades or (ii) \$20,000 per megawatt of electrical output of the Small Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, but in no event less than \$50,000.

- 3) Interconnection Customers selecting Option (B) Full Capacity or Partial Capacity Deliverability Status must post for assigned RNUs, LDNUs, LOPNUs, and ADNUs, if any.

The posting amount for such RNUs, LDNUs, LOPNUs, and ADNUs shall equal the lesser of fifteen percent (15%) of the ADNU costs and total Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Network Upgrades or (ii) \$20,000 per megawatt of electrical output of the Small Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, but in no event less than \$50,000.

**11.2.3.2 Large Generator Interconnection Customers**

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Each Interconnection Customer for a Large Generating Facility assigned to a Queue Cluster shall post an Interconnection Financial Security instrument as follows:

- 1) Interconnection Customers selecting Energy Only Deliverability Status must post for assigned RNUs and assigned LOPNUs, if any.

The posting amount for such RNUs and LOPNUs shall equal the lesser of (i) fifteen percent (15%) of the total RNU Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Network Upgrades, (ii) \$20,000 per megawatt of electrical output of the Large Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, or (iii) \$7,500,000, but in no event less than \$500,000.

In addition, if an Interconnection Customer switches its status from Full Capacity Deliverability Status or Partial Capacity Deliverability Status to Energy-Only Deliverability Status within ten (10) Business Days following the Phase I Interconnection Study Results Meeting, the required Interconnection Financial Security for Network Upgrades shall, for purposes of this section, be additionally capped at an amount no greater than the Current Cost Responsibility assigned to the Interconnection Customer in the Phase I Interconnection Study for Reliability Network Upgrades.

- 2) Interconnection Customers selecting Option (A) Full Capacity or Partial Capacity Deliverability Status must post for assigned RNUs, LOPNUs, and LDNUs, if any.

The posting amount for such RNUs and LDNUs shall equal the lesser of (i) fifteen percent (15%) of the Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Network Upgrades, (ii) \$20,000 per megawatt of electrical output of the Large Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, or (iii) \$7,500,000, but in no event less than \$500,000.

- 3) Interconnection Customers selecting Option (B) Full Capacity or Partial Capacity Deliverability Status must post for assigned RNUs, LDNUs, LOPNUs, and ADNUs, if any.

The posting amount for such RNUs, LDNUs, LOPNUs, and ADNUs shall equal the lesser of (i) fifteen percent (15%) of the ADNU costs and the total Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Network Upgrades, (ii) \$20,000 per megawatt of electrical output of the Large Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, or (iii) \$7,500,000, but in no event less than \$500,000.

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#### **11.2.4 Posting Amount for Participating TO Interconnection Facilities.**

##### **11.2.4.1 Small Generator Interconnection Customers**

Each Interconnection Customer for a Small Generating Facility assigned to a Queue Cluster shall post an Interconnection Financial Security instrument in an amount equal to the lesser of (i) fifteen (15) percent of the Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Participating TO's Interconnection Facilities or (ii) \$20,000 per megawatt of electrical output of the Small Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, but in no event less than \$50,000.

##### **11.2.4.2 Large Generator Interconnection Customers**

Each Interconnection Customer for a Large Generating Facility assigned to a Queue Cluster shall post an Interconnection Financial Security instrument in an amount equal to the lesser of (i) fifteen (15) percent of the Current Cost Responsibility assigned to the Interconnection Customer in the final Phase I Interconnection Study for Participating TO's Interconnection Facilities, (ii) \$20,000 per megawatt of electrical output of the Large Generating Facility or the amount of megawatt increase in the generating capacity of each existing Generating Facility as listed by the Interconnection Customer in its Interconnection Request, including any requested modifications thereto, or (iii) \$7,500,000, but in no event less than \$500,000.

#### **11.2.5 Cost Estimates Less than Minimum Posting Amounts.**

If (1) the Current Cost Responsibility of the Assigned Network Upgrades, (2) the allocated costs of the Participating TO Interconnection Facilities, or (3) both are less than the respective minimum posting amounts that would apply under Sections 11.2.4.1 or 11.2.4.2, then the posting amount required will equal the Current Cost Responsibility of the Assigned Network Upgrades or the allocated costs for Participating TO Interconnection Facilities, as applicable.

#### **11.2.6 Consequences for Failure to Post.**

The failure by an Interconnection Customer to timely post the Interconnection Financial Security required by this Section shall result in the Interconnection Request being deemed withdrawn and subject to Section 3.8. The Interconnection Customer shall provide the CAISO and the Participating TO with written notice that it has posted the required Interconnection Financial Security no later than the applicable final day for posting.

#### **11.2.7 Re-calculation of Initial Posting Requirement.**

If withdrawals, modifications, or system changes occur after the completion of the Phase I Interconnection Study, pursuant to Section 6.7.2, and the CAISO, in consultation with the applicable Participating TO(s), is able to reasonably determine, prior to the date for initial posting of Interconnection Financial Security, that as a result of such decrease (solely or in combination with other modifications made by Interconnection Customers) some of the Network Upgrades and/or Participating TO Interconnection Facilities identified in the Phase I Interconnection Study will no longer be required, then the calculation of the initial posting of Interconnection Financial Security will not include those

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Network Upgrades and/or Participating TO Interconnection Facilities. Such determination will be made based on the CAISO's best engineering judgment and will not include any re-studies.

**11.3 Interconnection Financial Security-Second and Third Postings for Queue Cluster Customers and Initial and Second Postings for Independent Study Process Customers**

**11.3.1 Second Posting for Queue Cluster Customers; Initial Posting for Independent Study Process Customers**

**11.3.1.1** Each Interconnection Customer in a Queue Cluster shall make second postings, with notice to the CAISO, of two separate Interconnection Financial Security instruments: (i) a second posting relating to the Network Upgrades; and (ii) a second posting relating to the Participating TO's Interconnection Facilities. The Current Cost Responsibility for calculating the second and third Interconnection Financial Security postings for Interconnection Customers in Queue Clusters shall be set forth in the Phase II Interconnection Study report.

Each Interconnection Customer in the Independent Study Process shall make initial postings, with notice to the CAISO, of two separate Interconnection Financial Security instruments: (i) a posting relating to the applicable Network Upgrades; and (ii) a posting relating to the Participating TO's Interconnection Facilities. The Current Cost Responsibility for calculating the initial Interconnection Financial Security Posting shall be set forth in the System Impact and Facilities Study report.

**11.3.1.2 Timing of Posting**

The postings set forth in this Section for Interconnection Customers in a Queue Cluster shall be made any time after issuance of the final Phase II Interconnection Study report but no later than one hundred eighty (180) calendar days after issuance of the final Phase II Interconnection Study report.

The initial postings for Interconnection Customers in the Independent Study Process shall be made any time after the issuance of the final System Impact and Facilities Study report under the Independent Study Process but no later than one hundred twenty (120) calendar days after the CAISO provides the results of the System Impact and Facilities Study.

Revised Cluster Study Reports. If the CAISO revises a final Phase II Interconnection Study report pursuant to Section 6.8, the second postings will be due by the later of one hundred-eighty (180) calendar days after issuance of the original final Phase II Interconnection Study report or sixty (60) calendar days after issuance of the revised final Phase II Interconnection Study report.

Revised Independent Study Track Reports. If the CAISO revises the final System Impact and Facilities Study report pursuant to Section 6.8, the initial postings will be due by the later of one hundred-twenty (120) calendar days after the issuance of the original final System Impact and Facilities Study report or thirty (30) calendar days from the issuance of the revised System Impact and Facilities Study report.

**11.3.1.3 Posting Requirements and Timing for Parked Option (A) Generating Facilities**

For an Interconnection Customer choosing Option (A) whose Generating Facility

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was not allocated TP Deliverability in either the first TP Deliverability allocation following its receipt of the final Phase II Interconnection Study or the TP Deliverability allocation after parking, and who chooses to park the Interconnection Request, the posting due date will be extended by 12 months consistent with each parking election after the initial allocation process.

For an Interconnection Customer choosing Option (A) whose Generating Facility was allocated TP Deliverability for less than the full amount of its Interconnection Request, and who chooses to seek additional TP Deliverability for the remainder of the requested Deliverability of the Interconnection Request in the next allocation cycle, the postings for RNU, Participating TO Interconnection Facilities, LOPNUs, and for LDNUs corresponding to the initial allocation of TP Deliverability will be due in accordance with the dates specified in this Section 11. The posting due date for the LDNUs corresponding to the remainder of the requested Deliverability will be extended by 12 months consistent with each parking election after the initial allocation process.

**11.3.1.4 Network Upgrade Posting Amounts**

**11.3.1.4.1 Small Generator Interconnection Customers**

Each Interconnection Customer for a Small Generating Facility assigned to a Queue Cluster or an Interconnection Customer for a Small Generating Facility in the Independent Study Process shall post an Interconnection Financial Security instrument that brings the security amount up to the following:

- 1) For Interconnection Customers selecting Energy Only Deliverability Status: the lesser of (i) \$1 million or (ii) thirty (30) percent of the Current Cost Responsibility assigned to the Interconnection Customer for RNUs and LOPNUs in either the final Phase II Interconnection Study report, or for Independent Study Process Interconnection Customers, the system impact and facilities study. In no event shall the total amount posted be less than \$100,000.
- 2) For Interconnection Customers who have Option (A) Generating Facilities, the lesser of (i) \$1 million or (ii) thirty (30) percent of the Current Cost Responsibility assigned to the Interconnection Customer for RNUs, LOPNUs, and LDNUs in the final Phase II Interconnection Study or, for Independent Study Process Interconnection Customers, in the system impact and facilities study.

However, in no event shall the total amount posted be less than \$100,000.

- 3) For Interconnection Customers who have Option (B) Generating Facilities: the lesser of (i) \$1 million or (ii) the sum of:
  - (a) thirty (30) percent of the Current Cost Responsibility assigned to the Interconnection Customer for RNUs, LOPNUs, and LDNUs in the final Phase II Interconnection Study or, for Independent Study Process Interconnection Customers, in the system impact and facilities study; plus

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- (b) thirty (30) percent of the cost responsibility assigned to the Interconnection Customer for ADNUs in the final Phase II Interconnection Study. However, to the extent that the Option (B) Interconnection Customer's Generating Facility is allocated TP Deliverability, the cost responsibility assigned to the Interconnection Customer for ADNUs will be adjusted to reflect the allocation of TP Deliverability. If the allocation of TP Deliverability is for the full Deliverability of the Interconnection Request, then the ADNU cost responsibility will equal zero (0). If the allocation of TP Deliverability is less than the full Deliverability of the Interconnection Request, then the ADNU cost responsibility will be reduced pro rata.

However, in no event shall the total amount posted be less than \$100,000.

**11.3.1.4.2 Large Generator Interconnection Customers**

Each Interconnection Customer for a Large Generating Facility assigned to a Queue Cluster and each Interconnection Customer for a Large Generating Facility in the Independent Study Process shall post an Interconnection Financial Security instrument that brings the security amount up to the following:

- 1) For Interconnection Customers selecting Energy Only Deliverability Status: the lesser of (i) \$15 million or (ii) thirty (30) percent of the Current Cost Responsibility assigned to the Interconnection Customer for RNUs and LOPNUs in the, final Phase II Interconnection Study, system impact and facilities study. In no event shall the total amount posted be less than \$500,000.
- 2) For Interconnection Customers, who have Option (A) Generating Facilities the lesser of (i) \$15 million or (ii) thirty (30) percent of the Current Cost Responsibility assigned to the Interconnection Customer for RNUs, LOPNUs, and LDNUs in the final Phase II Interconnection Study or, for Independent Study Process Interconnection Customers, in the system impact and facilities study.

However, in no event shall the total amount posted be less than \$500,000.

- 3) For Interconnection Customers who have Option (B) Generating Facilities: the lesser of (i) \$15 million or (ii) the sum of:
  - (a) thirty (30) percent of the Current Cost Responsibility assigned to the Interconnection Customer for RNUs, LOPNUs, and LDNUs in the final Phase II Interconnection Study or, for Independent Study Process Interconnection Customers, in the system impact and facilities study; plus
  - (b) thirty (30) percent of the cost responsibility assigned to

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the Interconnection Customer for ADNUs in the final Phase II Interconnection Study. However, to the extent that the Option (B) Interconnection Customer's Generating Facility is allocated TP Deliverability, the cost responsibility assigned to the Interconnection Customer for ADNUs will be adjusted to reflect the allocation of TP Deliverability. If the allocation of TP Deliverability is for the full Deliverability of the Interconnection Request, then the ADNU cost responsibility will equal zero (0). If the allocation of TP Deliverability is less than the full Deliverability of the Interconnection Request, then the ADNU cost responsibility will be reduced pro rata.

However, in no event shall the total amount posted be less than \$500,000.

**11.3.1.4.3 Cost Estimates Less than Minimum Posting Amounts.**

If the Current Cost Responsibility of the Assigned Network Upgrades are less than the posting amounts set forth in Section 11.3.1.4 above, then posting amount required will be equal to the Current Cost Responsibility of the Assigned Network Upgrades.

**11.3.1.4.4 Posting Related to Interconnection Customer's Stand Alone Network Upgrades**

If the Interconnection Customer desires to self-build Stand Alone Network Upgrades consistent with its interconnection study reports, the Interconnection Customer must post the Interconnection Financial Security for the Stand Alone Network Upgrades in its Interconnection Financial Security posting. The Interconnection Customer may request to build the Stand Alone Network Upgrades in the Generator Interconnection Agreement negotiation process, and if the Participating TO and the CAISO agree, the interconnection study reports and the second posting will be revised accordingly once the Generator Interconnection Agreement has been fully executed and documents the Stand Alone Network Upgrades. If the Participating TO and the CAISO agree to allow the Interconnection Customer to build a Stand Alone Network Upgrade in an executed Generator Interconnection Agreement, the Interconnection Customer's Maximum Cost Responsibility and Maximum Cost Exposure will be reduced by the cost of the Stand Alone Network Upgrade, and both the original and revised Maximum Cost Responsibility and Maximum Cost Exposure will be documented in the Generation Interconnection Agreement.

If at any time the responsibility for constructing the Stand Alone Network Upgrade, or a portion thereof, reverts to the Participating TO, the Interconnection Customer will be required to revise its Interconnection Financial Security posting within thirty (30) calendar days to reflect that the Participating TO will build the Stand Alone Network Upgrade. The Interconnection Customer's Maximum Cost Responsibility and Maximum Cost Exposure also will be revised to reflect that the Participating TO will build the Stand Alone Network Upgrade. Failure to make a timely posting adjustment will result in the withdrawal of the Interconnection Request in accordance with Section 3.8. If an Interconnection Customer has been allowed to reduce its Interconnection Financial Security posting



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following the execution of its Generator Interconnection Agreement and subsequently withdraws, the amount of the Interconnection Financial Security that is determined to be refundable under Section 11.4.2 will be reduced by the amount of the Interconnection Financial Security posting the Interconnection Customer avoided through the self-build option.

**11.3.1.5 Posting Amount for Participating TO Interconnection Facilities.**

**11.3.1.5.1 Small Generator Interconnection Customers**

Each Interconnection Customer for a Small Generating Facility assigned to a Queue Cluster and each Interconnection Customer for a Small Generating Facility in the Independent Study Process shall post an Interconnection Financial Security instrument such that the total Interconnection Financial Security posted by the Interconnection Customer for Participating TO Interconnection Facilities equals the lesser of (i) \$1 million or (ii) thirty (30) percent of the total cost responsibility assigned to the Interconnection Customer for Participating TO Interconnection Facilities in the final Phase II Interconnection Study or system impact and facilities study. In no event shall the total amount posted be less than \$100,000.

**11.3.1.5.2 Large Generator Interconnection Customers**

Each Interconnection Customer for a Large Generating Facility assigned to a Queue Cluster and each Interconnection Customer for a Large Generating Facility in the Independent Study Process shall post an Interconnection Financial Security instrument such that the total Interconnection Financial Security posted by the Interconnection Customer for Participating TO Interconnection Facilities equals the lesser of (i) \$15 million or (ii) thirty (30) percent of the total cost responsibility assigned to the Interconnection Customer for Participating TO Interconnection Facilities in the final Phase II Interconnection Study or system impact and facilities study. In no event shall the total amount posted be less than \$500,000.

**11.3.1.5.3 Cost Estimates Less than Minimum Posting Amounts.**

If the costs of the estimated Participating TO Interconnection Facilities are less than the posting amounts set forth in Section 11.3.1.5.2 above, the posting amount required will be equal to the estimated Participating TO Interconnection Facilities amount.

**11.3.1.6 Early Commencement of Construction Activities**

If the start date for Construction Activities of Network Upgrades or Participating TO's Interconnection Facilities on behalf of the Interconnection Customer is prior to one hundred eighty (180) calendar days after issuance of the final Phase II Interconnection Study report for Interconnection Customers in a Queue Cluster or prior to one hundred twenty (120) calendar days after issuance of the final system impact and facilities study report for Interconnection Customers in the Independent Study Process, that start date must be set forth in the Interconnection Customer's GIA, and the Interconnection Customer shall make its second posting of Interconnection Financial Security pursuant to Section 11.3.2 rather than Section 11.3.1.

**11.3.1.7 Consequences for Failure to Post**

The failure by an Interconnection Customer to timely post the Interconnection Financial Security required by this Section shall constitute grounds for termination of the GIA pursuant to LGIA Article 2.3 or SGIA Article 3.3, whichever is applicable.

**11.3.2 Third Posting for Queue Cluster Customers and Second Posting for Independent Study Process Customers**

After the second posting for a Queue Cluster has been made but no later than the start of Construction Activities for Network Upgrades or Participating TO's Interconnection Facilities on behalf of the Interconnection Customer, whichever is earlier, the Interconnection Customer shall modify the two separate Interconnection Financial Security instruments posted pursuant to Section 11.3.1.

After the first posting for Independent Study Process Customers has been made but no later than the start of Construction Activities for Network Upgrades or Participating TO's Interconnection Facilities on behalf of the Interconnection Customer, whichever is earlier, the Interconnection Customer shall modify the two separate Interconnection Financial Security instruments posted pursuant to Section 11.3.1.

**11.3.2.1 Network Upgrades**

With respect to the Interconnection Financial Security Instrument for Network Upgrades, the Interconnection Customer shall modify this Instrument so that it equals one hundred (100) percent of the assigned ADNU costs and the Current Cost Responsibility assigned to the Interconnection Customer as determined in Section 11.3.1.4.1 for Small Generator Interconnection Customers or in Section 11.3.1.4.2 for Large Generator Interconnection Customers.

An Interconnection Customer whose Option (B) Generating Facility was not allocated TP Deliverability and elects to have a party other than the applicable Participating TO(s) construct an LDNU or ADNU is not required to make this posting for its cost responsibilities for such LDNU or ADNU. However, such Interconnection Customer will be required to demonstrate its financial capability to pay for the full cost of construction of its share, as applicable, of the LDNU or ADNU pursuant to Section 24.4.6.1 of the CAISO Tariff. An Interconnection Customer's election to have a party other than an applicable Participating TO construct an LDNU or ADNU does not relieve the Interconnection Customer of the responsibility to fund or construct such LDNU or ADNU. Upon the Interconnection Customer's demonstration to the CAISO that the Interconnection Customer has expended the amount of the avoided posting requirement on construction of the LDNU or ADNU described here, the Interconnection Customer's prior posting for these facilities will be returned to the Interconnection Customer, unless the Participating TO and Interconnection Customer agree to an alternative arrangement.

**11.3.2.2 Participating TO Interconnection Facilities**

With respect to the Interconnection Financial Security Instrument for Participating TO Interconnection Facilities, the Interconnection Customer shall modify this instrument so that it equals one hundred (100) percent of the total cost responsibility assigned to the Interconnection Customer for Participating TO Interconnection Facilities in the final Phase II Interconnection Study for Interconnection Customers in a Queue Cluster, or the final system impact and

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facilities study for Interconnection Customers in the Independent Study Process.

**11.3.2.3 Separation of Posting**

If an Interconnection Customer's Network Upgrades and/or Interconnection Facilities are separated into two or more specific components and/or can be separated into two or more separate and discrete phases of construction and the Participating TO is able to identify and separate the costs of the identified discrete components and/or phases of construction, then the Participating TO, the CAISO, and the Interconnection Customer may negotiate, as part of the Generator Interconnection Agreement, a division of the Interconnection Financial Security posting required by this Section 11.3.2 into discrete Interconnection Financial Security amounts and may establish discrete milestone dates (however, outside dates must be included) for posting the amounts corresponding to each component and/or phase of construction related to the Network Upgrades and/or Interconnection Facilities described in the Generator Interconnection Agreement.

**11.3.2.4 Failure to Post**

The failure by an Interconnection Customer to timely post the Interconnection Financial Security required by this Section shall constitute grounds for termination of the GIA pursuant to LGIA Article 2.3 or SGIA Article 3.3, whichever is applicable.

**11.3.2.5 Conversion of Conditionally Assigned Network Upgrades**

If at any time an Interconnection Customer's Interconnection Studies are revised to reflect that Conditionally Assigned Network Upgrades have become Assigned Network Upgrades, the Interconnection Customer's Maximum Cost Responsibility, Current Cost Responsibility, Generator Interconnection Agreement, and Interconnection Financial Security will be revised to reflect the conversion, as applicable.

**11.4 Withdrawal or Termination-Effect on Financial Security**

Withdrawal of an Interconnection Request or termination of a GIA shall allow the applicable Participating TO(s) to liquidate the Interconnection Financial Security, or balance thereof, posted by the Interconnection Customer for Network Upgrades at the time of withdrawal.

To the extent the amount of the liquidated Interconnection Financial Security plus capital, if any, separately provided by the Interconnection Customer to satisfy its obligation to finance Network Upgrades exceeds the total cost responsibility for Network Upgrades assigned to the Interconnection Customer, the applicable Participating TO(s) shall remit to the Interconnection Customer the excess amount.

Withdrawal of an Interconnection Request or termination of a GIA shall result in the release to the Interconnection Customer of any Interconnection Financial Security posted by the Interconnection Customer for Participating TO Interconnection Facilities, except with respect to any amounts necessary to pay for costs incurred or irrevocably committed by the applicable Participating TO(s) on behalf of the Interconnection Customer for the Participating TO's Interconnection Facilities and for which the applicable Participating TO(s) has not been reimbursed.

**11.4.1 [Intentionally Omitted]**

**11.4.2 Determining Refundable Portion of the Interconnection Financial Security for Network Upgrades.**

**11.4.2.1 Withdrawal Between the First Posting and the Deadline for the Second Posting**

If the Interconnection Customer either withdraws its Interconnection Request or terminates its GIA at any time between the initial posting and the deadline for the second posting of the Interconnection Financial Security for applicable Network Upgrades, then the applicable Participating TO(s) shall liquidate the Interconnection Financial Security for the applicable Network Upgrades and reimburse the Interconnection Customer the lesser of:

- a. the Interconnection Financial Security plus (any other provided security plus any separately provided capital) less (all costs and expenses incurred or irrevocably committed to finance Pre-Construction Activities for Network Upgrades on behalf of the Interconnection Customer); or
- b. the Interconnection Financial Security plus (any other provided security plus any separately provided capital) minus the lesser of fifty (50) percent of the value of the posted Interconnection Financial Security for Network Upgrades or \$10,000 per requested and approved, pre-downsized megawatt of the Generating Facility Capacity.

**11.4.2.2 Withdrawal Between the Second Posting and the Commencement of Construction Activities**

If the Interconnection Customer either withdraws or terminates its GIA at any time after the between the second posting of the Interconnection Financial Security for applicable Network Upgrades and the Commencement of Construction Activities for such Network Upgrades, then the applicable Participating TO(s) shall liquidate the Interconnection Financial Security for the applicable Network Upgrades and reimburse the Interconnection Customer the lesser of:

- a. the Interconnection Financial Security plus (any other provided security plus any separately provided capital) less (all costs and expenses incurred or irrevocably committed to finance Pre-Construction Activities for Network Upgrades on behalf of the Interconnection Customer) and less (any posting reduction due to the Interconnection Customer's election to self-build Stand Alone Network Upgrades); or
- b. the Interconnection Financial Security plus (any other provided security plus any separately provided capital) minus the lesser of fifty (50) percent of the value of the posted Interconnection Financial Security for Network Upgrades or \$20,000 per requested and approved, pre-downsized megawatt of the Generating Facility Capacity.

**11.4.2.3 Special Treatment Based on Failure to Obtain Necessary Permit or Authorization from Governmental Authority.**

If, at any time after the second posting requirement, the Interconnection Customer withdraws the Interconnection Request or terminates the GIA, as applicable, because the Interconnection Customer received a final denial from the primary issuing Governmental Authority for authorization necessary for the construction or operation of the Generating Facility, and the Delivery Network

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Upgrades to be financed by the Interconnection Customer are also to be financed by one or more other Interconnection Customers, then Section 11.4.2.2 shall apply, except that the Interconnection Customer shall not be reimbursed for its share of any actual costs incurred or irrevocably committed by the applicable Participating TO(s) for Construction Activities.

**11.4.2.4 After Commencement of Construction Activities.**

Except as otherwise provided in Section 11.4.2.3, once Construction Activities on Network Upgrades on behalf of the Interconnection Customer commence, any withdrawal of the Interconnection Request or termination of the GIA by the Interconnection Customer will be treated as follows:

The applicable Participating TO(s) shall liquidate the Interconnection Financial Security, or balance thereof, posted by the Interconnection Customer for Network Upgrades at the time of withdrawal.

To the extent the amount of the liquidated Interconnection Financial Security plus capital, if any, separately provided by the Interconnection Customer to satisfy its obligation to finance Network Upgrades exceeds the total cost responsibility for Network Upgrades assigned to the Interconnection Customer, the applicable Participating TO(s) shall remit to the Interconnection Customer the excess amount.

Withdrawal of an Interconnection Request or termination of a GIA shall result in the release to the Interconnection Customer of any Interconnection Financial Security posted by the Interconnection Customer for Participating TO Interconnection Facilities, except with respect to any amounts necessary to pay for costs incurred or irrevocably committed by the applicable Participating TO(s) on behalf of the Interconnection Customer for the Participating TO's Interconnection Facilities and for which the applicable Participating TO(s) has not been reimbursed in accordance with this Section.

**11.4.2.5 Notification to CAISO and Accounting by Applicable Participating TO(s).**

The applicable Participating TO(s) shall notify the CAISO within one (1) Business Day of liquidating any Interconnection Financial Security. Within twenty (20) calendar days of any liquidating event, the applicable Participating TO(s) shall provide the CAISO and Interconnection Customer with an accounting of the disposition of the proceeds of the liquidated Interconnection Financial Security and remit to the CAISO all proceeds not otherwise reimbursed to the Interconnection Customer or applied to costs incurred or irrevocably committed by the applicable Participating TO(s) on behalf of the Interconnection Customer in accordance with this Section.

All non-refundable portions of the Interconnection Financial Security remitted to the CAISO in accordance with this Section, and any non-refundable interconnection financial security funds that are received by the CAISO from a Participating TO pursuant to a requirement in the Participating TO's wholesale distribution tariff for such funds to be distributed by the CAISO, shall be treated in accordance with Section 7.6.

**11.5 Adjusting Network Upgrade Postings Following Reassessment Process**

For Interconnection Customers having selected Option (B), the most recent reassessment

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conducted under Section 7.4 in any Interconnection Study Cycle following the Interconnection Customer's receipt of its Phase II Interconnection study report shall provide the most recent cost estimates for the Interconnection Customer's ADNUs and the Interconnection Customer shall adjust its Interconnection Financial Security for Network Upgrades to correspond to the most recent estimate for ADNUs.

## **Section 12 Engineering & Procurement (“E&P”) Agreement**

Prior to executing a GIA, an Interconnection Customer may, in order to advance the implementation of its interconnection, request and the applicable Participating TO(s) shall offer the Interconnection Customer, an E&P Agreement that authorizes the applicable Participating TO(s) to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection. However, the applicable Participating TO(s) shall not be obligated to offer an E&P Agreement if the Interconnection Customer is in Dispute Resolution as a result of an allegation that the Interconnection Customer has failed to meet any milestones or comply with any prerequisites specified in other parts of the GIDAP. The E&P Agreement is an optional procedure. The E&P Agreement shall provide for the Interconnection Customer to pay the cost of all activities authorized by the Interconnection Customer and to make advance payments or provide other satisfactory security for such costs.

The Interconnection Customer shall pay the cost of such authorized activities and any cancellation costs for equipment that is already ordered for its interconnection, which cannot be mitigated as hereafter described, whether or not such items or equipment later become unnecessary. If the Interconnection Customer withdraws its application for interconnection or either Party terminates the E&P Agreement, to the extent the equipment ordered can be canceled under reasonable terms, the Interconnection Customer shall be obligated to pay the associated cancellation costs. To the extent that the equipment cannot be reasonably canceled, the applicable Participating TO(s) may elect: (i) to take title to the equipment, in which event the applicable Participating TO(s) shall refund the Interconnection Customer any amounts paid by Interconnection Customer for such equipment and shall pay the cost of delivery of such equipment, or (ii) to transfer title to and deliver such equipment to the Interconnection Customer, in which event the Interconnection Customer shall pay any unpaid balance and cost of delivery of such equipment.

## **Section 13 Generator Interconnection Agreement (GIA)**

### **13.1 Tender**

**13.1.1** The applicable Participating TO will tender a draft GIA, together with draft appendices, to the CAISO and the Interconnection Customer no later than the sum of (i) one hundred eighty (180) calendar days and (ii) the estimated time to construct the Interconnection Facilities and Network Upgrades indicated in the applicable study report needed by this or any other dependent project, prior to the In-Service Date. The applicable Participating TO may tender the draft GIA any time after the Phase II Study report is issued and before the determined tender date on its own accord or at the request of either the CAISO or the Interconnection Customer. Notwithstanding the foregoing, an Option (A) Generating Facility will not be tendered a GIA until it concludes its parking by accepting a TP Deliverability allocation or converting to Energy Only Deliverability Status pursuant to Section 8.9.2 and has made its second Interconnection Financial Security posting pursuant to Section 11.3. The CAISO and Participating TO will suspend negotiations for an Option (A) Generating Facility that has been tendered a GIA and subsequently elects to park its Interconnection Request. The draft GIA will be in the form of the FERC-approved GIA set forth in CAISO Tariff Appendix EE or Appendix FF, as applicable.

**13.1.2** Consistent with Section 13.1.1, when the transmission system of a Participating TO, in which the Point of Interconnection is not located, is affected, such Participating TO shall tender a separate agreement, in the form of the GIA, as appropriately modified.

## **13.2 Negotiation**

The applicable Participating TO, the CAISO and the Interconnection Customer will negotiate concerning any disputed provisions of the appendices to the draft GIA for not more than one hundred twenty (120) calendar days after the Participating TO provides the Interconnection Customer and the CAISO with the draft GIA. If the Interconnection Customer determines that negotiations are at an impasse, it may request termination of the negotiations at any time after tender of the draft GIA. Within seven (7) calendar days of such request, the Interconnection Customer will request submission of the unexecuted GIA with FERC or initiate Dispute Resolution procedures pursuant to Section 15.5. If the Interconnection Customer requests termination but fails to request submission of the unexecuted GIA or to initiate Dispute Resolution within seven (7) calendar days, it will be deemed to have withdrawn its Interconnection Request.

Neither the CAISO nor the Participating TO may declare an impasse until one hundred twenty (120) calendar days after the draft GIA was tendered. If the CAISO or the Participating TO declares an impasse, that party will file the GIA unexecuted with FERC within twenty one (21) calendar days.

Unless otherwise agreed by the Parties, if the Interconnection Customer has not executed and returned the GIA, requested filing of an unexecuted GIA, or initiated Dispute Resolution procedures pursuant to Section 15.5 within one hundred twenty (120) calendar days after issuance of the draft GIA, it shall be deemed to have withdrawn its Interconnection Request. The CAISO will provide to the Interconnection Customer a final GIA within ten (10) Business Days after the completion of the negotiation process and receipt of all requested information.

**13.2.1** Any time after the Phase II Study report is issued, if the Interconnection Customer's In-Service Date is not achievable based on the estimated time (i) to construct the longest lead Network Upgrade, Interconnection Facility, or Generating Facility as set forth in the Interconnection Customer's study reports, and (ii) the time needed to negotiate the GIA, the Interconnection Request shall be deemed withdrawn pursuant to Section 3.8.

## **13.3 Execution and Filing**

The Interconnection Customer shall either: (i) execute the appropriate number of originals of the tendered GIA as specified in the directions provided by the CAISO and return them to the CAISO, as directed, for completion of the execution process; or (ii) request in writing that the applicable Participating TO(s) and CAISO file with FERC a GIA in unexecuted form. The GIA shall be considered executed as of the date that all three Parties have signed the GIA. As soon as practicable, but not later than ten (10) Business Days after receiving either the executed originals of the tendered GIA (if it does not conform with a FERC-approved standard form of interconnection agreement) or the request to file an unexecuted GIA, the applicable Participating TO(s) and CAISO shall file the GIA with FERC, as necessary, together with an explanation of any matters as to which the Interconnection Customer and the applicable Participating TO(s) or CAISO disagree and support for the costs that the applicable Participating TO(s) propose to charge to the Interconnection Customer under the GIA. An unexecuted GIA should contain terms and conditions deemed appropriate by the applicable Participating TO(s) and CAISO for the Interconnection Request. If the Parties agree to proceed with design, procurement, and construction of facilities and upgrades under the agreed-upon terms of the unexecuted GIA, they may proceed pending FERC action.

## **13.4 Commencement of Interconnection Activities**

If the Interconnection Customer executes the final GIA, the applicable Participating TO(s), CAISO and the Interconnection Customer shall perform their respective obligations in accordance with the terms of the GIA, subject to modification by FERC. Upon submission of an unexecuted GIA, the Interconnection Customer, applicable Participating TO(s) and CAISO may proceed to comply with the unexecuted GIA, pending FERC action.

### **13.5 Interconnection Customer to Meet PTO Handbook Requirements**

The Interconnection Customer's Interconnection Facilities shall be designed, constructed, operated and maintained in accordance with the applicable Participating TO's Interconnection Handbook.

## **Section 14 PTOs Interconnection Facilities and Network Upgrades**

### **14.1 Schedule**

The applicable Participating TO(s) and the Interconnection Customer shall negotiate in good faith concerning a schedule for the construction of the applicable Participating TO's Interconnection Facilities and the Network Upgrades.

### **14.2 Construction Sequencing**

#### **14.2.1 General**

In general, the sequence of construction of Stand Alone Network Upgrades or other Network Upgrades for a single Interconnection Request, or Network Upgrades identified for the interconnection of Generating Facilities associated with multiple Interconnection Requests, shall be determined, to the maximum extent practical, in a manner that accommodates the proposed Commercial Operation Date set forth in the GIA of the Interconnection Customer(s) associated with the Stand Alone Network Upgrades or other Network Upgrades.

#### **14.2.2 Construction of Network Upgrades that are or were an Obligation of an Entity other than the Interconnection Customer**

The applicable Participating TO(s) shall be responsible for financing and constructing any Network Upgrades necessary to support the interconnection of the Generating Facility of an Interconnection Customer with a GIA whenever the Network Upgrades were included in the Interconnection Base Case Data for a Phase II Interconnection Study on the basis that they were Network Upgrades associated with Generating Facilities of Interconnection Customers that have an executed GIA (or its equivalent predecessor agreement) or unexecuted GIA (or its equivalent predecessor agreement) filed with FERC, and such GIA specifies that the Participating TO would construct the Network Upgrades, and either:

- (i) the Network Upgrades will not otherwise be completed because such GIA or equivalent predecessor agreement was subsequently terminated or the Interconnection Request has otherwise been withdrawn; or
- (ii) the Network Upgrades will not otherwise be completed in time to support the Interconnection Customer's In-Service Date because construction has not commenced in accordance with the terms of such GIA (or its equivalent predecessor agreement).

Where the Participating TO is constructing ADNUs for Option (B) Interconnection Customers and one of the two conditions above occurs, the Participating TO shall continue to construct such ADNUs with financing provided from the Interconnection Financial Security of those Option (B) Interconnection Customers' Interconnection referred to above, with any additional financing requirements to be reapportioned among those remaining Option (B) Interconnection Customers who still need the ADNUs.



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The obligation under this Section arises only after the CAISO, in coordination with the applicable Participating TO(s), determines that the Network Upgrades remain needed to support the interconnection of the Interconnection Customer's Generating Facility notwithstanding, as applicable, the absence or delay of the Generating Facility that is contractually, or was previously contractually, associated with the Network Upgrades.

Further, to the extent the timing of such Network Upgrades was not accounted for in determining a reasonable Commercial Operation Date among the CAISO, applicable Participating TO(s), and the Interconnection Customer as part of the Phase II Interconnection Study, the applicable Participating TO(s) will use Reasonable Efforts to ensure that the construction of such Network Upgrades can accommodate the Interconnection Customer's proposed Commercial Operation Date. If, despite Reasonable Efforts, it is anticipated that the Network Upgrades cannot be constructed in time to accommodate the Interconnection Customer's proposed Commercial Operation Date, the Interconnection Customer may commit to pay the applicable Participating TO(s) any costs associated with expediting construction of the Network Upgrades to meet the original proposed Commercial Operation Date. The expediting costs under Section shall be in addition to the Interconnection Customer's cost responsibility.

**14.2.3 Advancing Construction of Network Upgrades that are Part of the CAISO's Transmission Plan**

An Interconnection Customer with a GIA, in order to maintain its In-Service Date as specified in the GIA, may request that the CAISO and applicable Participating TO(s) advance to the extent necessary the completion of Network Upgrades that: (i) are necessary to support such In-Service Date and (ii) would otherwise not be completed, pursuant to an approved CAISO Transmission Plan covering the PTO Service Territory of the applicable Participating TO(s), in time to support such In-Service Date. Upon such request, the applicable Participating TO(s) will use Reasonable Efforts to advance the construction of such Network Upgrades to accommodate such request; provided that the Interconnection Customer commits to pay the applicable Participating TO(s) any associated expediting costs. The Interconnection Customer shall be entitled to refunds, if any, in accordance with the GIA, for any expediting costs paid.

**14.2.4 Limited Operation Study**

**14.2.4.1** Pursuant to Article 5.9 of the Large Generator Interconnection Agreement set forth in Appendices V, BB, CC, and EE, Generating Facilities may request a limited operation study. The Participating TO and/or the CAISO, as applicable, will, 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 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, and Good Utility Practice. The Participating TO and the CAISO will permit the Interconnection Customer to operate the Generating Unit and the Interconnection Customer's Interconnection Facilities in accordance with the results of such studies. To the extent study assumptions change, the CAISO and Participating TO will update study results as needed.

**14.2.4.2** The Generating Unit owner will provide the CAISO a \$10,000 deposit for the limited operation study with the request. Except as provided below, any limited operation study will be concluded, and a response provided to the Generating Unit owner in writing, within forty-five (45) calendar days from when the CAISO receives all of the following: the Generating Unit owner's written

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approval of the limited operation study plan, technical data required to assess the request, and the \$10,000 deposit. If the limited operation study cannot be completed within that time period, the CAISO will notify the Generating Unit owner and provide an estimated completion date and an explanation of the reasons why additional time is required.

Notwithstanding any other provision, all refunds pursuant to this Appendix DD will be processed in accordance with the CAISO's generally accepted accounting practices, including monthly batched deposit refund disbursements. Any CAISO deadline will be tolled to the extent the Interconnection Customer has not provided the CAISO with the appropriate documents to facilitate the Interconnection Customer's refund, or if the Interconnection Customer has any outstanding invoice balance due to the CAISO on another project owned by the same Interconnection Customer.

**14.2.4.3** The Generating Unit owner will be responsible for the actual costs incurred by the CAISO and the Participating TO(s) in conducting the modification assessment. If the actual costs of the limited operation study are less than the deposit provided by the Generating Unit owner, the Generating Unit owner will be refunded the balance. If the actual costs of the limited operation study are greater than the deposit provided by the Generating Unit owner, the Generating Unit owner shall pay the balance within thirty (30) days of being invoiced. The CAISO will coordinate the request with the Participating TO(s). The Participating TO(s) will invoice the CAISO for any limited operation study work within seventy-five (75) calendar days of completion of the study, and, within thirty (30) days of payment of the Participating TO(s) invoice, the CAISO will issue an invoice or refund to the Generating Unit owner, as applicable, based upon such submitted Participating TO invoices and the CAISO's costs for the assessment.

### **14.3 Network Upgrades**

With the exception of LDNUs and ADNUs for Option (B) Generating Facilities that were not allocated TP Deliverability, Network Upgrades will be constructed by the applicable Participating TO(s). Interconnection Customers may, at their discretion, select parties other than the applicable PTOs to construct certain LDNUs and ADNUs required by their Option (B) Generating Facilities that are not allocated TP Deliverability, if such LDNUs and ADNUs are eligible for construction by parties other than the applicable PTO pursuant to Section 24.5.2 of the CAISO Tariff. Such ADNUs and LDNUs will be incorporated into the CAISO Controlled Grid pursuant to the provisions for Merchant Transmission Facilities in CAISO Tariff Sections 24.4.6.1, and 36.11. Unless the Interconnection Customer elects construction by a party other than the applicable Participating TO, the applicable Participating TO(s) will be obligated to construct the LDNUs and ADNUs. This Section shall not apply to an Interconnection Customer's right to build Stand Alone Network Upgrade(s) in accordance with the LGIA.

#### **14.3.1 Initial Funding**

Assigned Network Upgrades shall be funded by the Interconnection Customer(s) either by means of drawing down the Interconnection Financial Security or by the provision of additional capital, at each Interconnection Customer's election, up to a maximum amount no greater than that established by the Current Cost Responsibility assigned to each Interconnection Customer(s). Current Cost Responsibility may be adjusted consistent with this GIDAP and up to the Interconnection Customer's Maximum Cost Responsibility, but the applicable Participating TO(s) shall be responsible for funding any capital costs for the Assigned Network Upgrades that exceed the Current Cost Responsibility assigned to the Interconnection Customer(s).

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- (a) Where the funding responsibility for any RNUs, LOPNUs, and LDNUs has been assigned to a single Interconnection Customer, the applicable Participating TO(s) shall invoice the Interconnection Customer under LGIA Article 12.1 or SGIA Article 6.1, whichever is applicable, up to a maximum amount no greater than that established by the Current Cost Responsibility assigned to each Interconnection Customer(s) for the RNUs, LOPNUs, or LDNUs, respectively.
- (b) Where the funding responsibility for an RNU, LOPNU, or LDNU has been assigned to more than one Interconnection Customer in accordance with this GIDAP, the applicable Participating TO(s) shall invoice each Interconnection Customer under LGIA Article 12.1 or SGIA Article 6.1, whichever is applicable, for such Network Upgrades in accordance with their respective Current Cost Responsibilities. Each Interconnection Customer may be invoiced up to a maximum amount no greater than that established by the Current Cost Responsibility assigned to that Interconnection Customer.
- (c) Where the funding responsibility for an ADNU being constructed by one or more Participating TO has been assigned to more than one Option (B) Interconnection Customer, the applicable Participating TO(s) shall invoice each Interconnection Customer under LGIA Article 12.1 or SGIA Article 6.1, whichever is applicable, for such ADNUs based on their respective Current Cost Responsibilities.

Any permissible extension of the Commercial Operation Date of a Generating Facility will not alter the Interconnection Customer's obligation to finance its Assigned Network Upgrades where the Network Upgrades are required to meet the earlier Commercial Operation Date(s) of other Generating Facilities that have also been assigned cost responsibility for the Network Upgrades.

**14.3.2 Repayment of Amounts Advanced for Network Upgrades and Refund of Interconnection Financial Security**

**14.3.2.1 Repayment of Amounts Advanced Regarding Non-Phased Generating Facilities**

An Interconnection Customer with a non-Phased Generating Facility in Queue Cluster 5 or earlier, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has been tendered a Generator Interconnection Agreement before December 19, 2014, shall be entitled to a repayment for the Interconnection Customer's contribution to the cost of Network Upgrades commencing upon the Commercial Operation Date of its Generating Facility.

An Interconnection Customer with a non-Phased Generating Facility in Queue Cluster 6 or later, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has not been tendered an Interconnection Agreement before December 19, 2014, shall be entitled to repayment for the Interconnection Customer's contribution to the cost of Network Upgrades placed in service on or before the Commercial Operation Date of its Generating Facility, commencing upon the Commercial Operation Date of the Generating Facility. Repayment for the Interconnection Customer's contribution to the cost of Network Upgrades placed into service after the Commercial Operation Date of its Generating Facility shall, for each of these Network Upgrades, commence no later than the later of: (i) the first month of the calendar year following the year in which the Network Upgrade is placed into service or (ii) 90 days after the Network Upgrade is placed into service.

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An Interconnection Customer subject to this Section 14.3.2.1 shall be entitled to repayment for its contribution to the cost of Network Upgrades as follows:

- (1) For RNUs, in accordance with the Interconnection Customer's cost responsibility assigned up to a maximum of \$60,000 per MW of generating capacity as specified in the GIA. The CAISO will publish an annual inflation factor and adjusted amount for this figure with the per unit cost publication on the CAISO Website pursuant to Section 6.4 of this GIDAP. Interconnection Customers will be entitled to repayment subject to the figure corresponding to their Commercial Operation Date.
- (2) For LDNUs and LOPNUs, except for LDNUs for Option (B) Generating Facilities that were not allocated TP Deliverability, in accordance with the Interconnection Customer's Current Cost Responsibility.
- (3) Option (B) Generating Facilities that were not allocated TP Deliverability will not receive repayment for LDNUs or ADNUs.

Unless an Interconnection Customer has provided written notice to the CAISO that it is declining all or part of such repayment, such amounts shall include any tax gross-up or other tax-related payments associated with the Network Upgrades not refunded to the Interconnection Customer, and shall be paid to the Interconnection Customer by the applicable Participating TO(s) on a dollar-for-dollar basis either through (1) direct payments made on a levelized basis over the five-year period commencing on the applicable date as provided for in this Section 14.3.2.1; 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 of the applicable commencement date.

For Network Upgrades the Interconnection Customer funded but did not receive repayment, the Interconnection Customer will be eligible to receive Merchant Transmission Congestion Revenue Rights (CRRs) in accordance with CAISO Tariff Section 36.11 associated with those Network Upgrades, or portions thereof that were funded by the Interconnection Customer. Such CRRs would take effect upon the Commercial Operation Date of the Generating Facility in accordance with the GIA.

**14.3.2.2 Repayment of Amounts Advanced Regarding Phased Generating Facilities**

Upon the Commercial Operation Date of each phase of a Phased Generating Facility, unless the Interconnection Customer has provided written notice to the CAISO that it is declining all or part of such repayment, the Interconnection Customer shall be entitled to a repayment for the Interconnection Customer's contribution to the cost of Network Upgrades for that completed phase in accordance with the Interconnection Customer's Current Cost Responsibility assigned for the phase and subject to the limitations specified in Section 14.3.2.1, if the following conditions are satisfied as described below:

- (a) The Generating Facility is capable of being constructed in phases;
- (b) The Generating Facility is specified in the GIA as being constructed in phases;
- (c) The completed phase corresponds to one of the phases specified in the

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GIA;

- (d) The phase has achieved Commercial Operation and the Interconnection Customer has tendered notice of the same pursuant to the GIA;
- (e) All parties to the GIA have confirmed that the completed phase meets the requirements set forth in the GIA and any other operating, metering, and interconnection requirements to permit generation output of the entire capacity of the completed phase as specified in the GIA;
- (f) The Network Upgrades necessary for the completed phase to meet the desired level of Deliverability are in service; and
- (g) The Interconnection Customer has posted one hundred (100) percent of the Interconnection Financial Security required for the Network Upgrades for all the phases of the Generating Facility (or if less than one hundred (100) percent has been posted, then all required Interconnection Financial Security instruments to the date of commencement of repayment).

Following satisfaction of these conditions (a) through (g), an Interconnection Customer in a Queue Cluster earlier than Queue Cluster 5, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has been tendered a Generator Interconnection Agreement before December 19, 2014, shall be entitled to receive a partial repayment of its financed cost responsibility in an amount equal to the percentage of the Generating Facility declared to be in Commercial Operation multiplied by the cost of the Network Upgrades associated with the completed phase. The Interconnection Customer shall be entitled to repayment in this manner for each completed phase until the entire Generating Facility is completed.

Following satisfaction of these conditions (a) through (e) and (g), an Interconnection Customer in Queue Cluster 6 or a later Queue Cluster, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has not been tendered a Generator Interconnection Agreement before December 19, 2014, shall be entitled to receive a repayment of its financed cost responsibility for the Network Upgrades associated with the completed phase that have been placed in service. The Interconnection Customer shall be entitled to repayment in this manner for each completed phase until the entire Generating Facility is completed. With respect to any Network Upgrades necessary for a completed phase to meet its desired level of deliverability that are not in service by the time the phase achieves Commercial Operation, repayment for each such Network Upgrade will commence no later than the later of: (i) the first month of the calendar year following the year in which the Network Upgrade is placed into service or (ii) 90 days after the Network Upgrade is placed into service.

A reduction in the electrical output (MW capacity) of the Generating Facility pursuant to the CAISO Tariff shall not diminish the Interconnection Customer's right to repayment pursuant to this Section 14.3.2.2. If the GIA includes a partial termination provision and the partial termination right has been exercised with regard to a phase that has not been built, then the Interconnection Customer's eligibility for repayment under this Section 14.3.2.2 as to the remaining phases shall not be diminished. If the Interconnection Customer completes one or more phases and then defaults on the GIA, the Participating TO and the CAISO shall be entitled to offset any losses or damages resulting from the default against any

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repayments made for Network Upgrades related to the completed phases provided that the party seeking to exercise the offset has complied with any requirements which may be required to apply the stream of payments utilized to make the repayment to the Interconnection Customer as an offset.

Any repayment amount provided pursuant to this Section 14.3.2.2 shall include any tax gross-up or other tax-related payments associated with the Network Upgrades not refunded to the Interconnection Customer, and shall be paid to the Interconnection Customer by the applicable Participating TO(s) on a dollar-for-dollar basis either through (1) direct payments made on a levelized basis over the five-year period commencing on the applicable date as provided for in this Section 14.3.2.2 ; or (2) any alternative payment schedule that associates the completion of Network Upgrades with the completion of particular phases and that is mutually agreeable to the Interconnection Customer and Participating TO, provided that such amount is paid within five (5) years of the applicable commencement date.

**14.3.2.3 Interest Payments and Assignment Rights**

Any phased or non-phased 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. The Interconnection Customer may assign such repayment rights to any person.

**14.4 Special Provisions for Affected Systems, Other Affected PTOs**

The Interconnection Customer shall enter into an agreement with the owner of the Affected System and/or other affected Participating TO(s), as applicable. The 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 Participating TO(s). If the affected entity is another Participating TO, the initial form of agreement will be the GIA, as appropriately modified.

**14.4.1 Cost Allocation, Interconnection Financial Security, and Reimbursement for Multiple Participating TOs**

Interconnection Studies will list separate cost estimates for facilities and Network Upgrades required on the interconnecting Participating TO and affected Participating TO's systems. These separate sums will produce a single, combined Maximum Cost Responsibility and a single, combined Maximum Cost Exposure for the Interconnection Customer. Current Cost Responsibilities for each Participating TO's facilities and Network Upgrades may be adjusted up to the Interconnection Customer's Maximum Cost Responsibility and Maximum Cost Exposure, as applicable.

The Interconnection Customer will post its initial and second Interconnection Financial Security to the interconnecting Participating TO only, for the facilities and Network Upgrades on both the interconnecting and affected Participating TOs' systems. The Interconnection Customer will post its third Interconnection Financial Security to each Participating TO based on the separate Current Cost Responsibilities for facilities and Network Upgrades on their respective systems.

Each Participating TO will repay amounts received for Network Upgrades pursuant to this GIDAP. Reimbursement for Reliability Network Upgrades will be paid by each Participating TO but subject to a single, combined maximum based upon the

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Interconnection Customer's generating capacity, as described in Section 14.3.2. If the amount funded for the Reliability Network Upgrades exceeds this maximum, each Participating TO will repay the Interconnection Customer proportional to its share of the Interconnection Customer's Current Cost Responsibility for the Reliability Network Upgrades.

#### **14.5 CAISO as an Affected System**

An interconnection customer in Balancing Authority Areas that may affect the reliability of the CAISO Controlled Grid will execute the CAISO as an Affected System Study Agreement, Appendix B.23 to the CAISO Tariff, to allow the CAISO and affected Participating TO(s) to study the impact of the interconnection. The agreement will specify the terms governing the study. In performing the study, the CAISO and Participating TO will use the Base Case effective upon execution of the Affected System Study Agreement.

##### **14.5.1 Cost Allocation and Interconnection Financial Security**

Affected system studies will list separate cost estimates for facilities and Network Upgrades required in the CAISO Balancing Authority Area. These separate sums may be adjusted over time based on actual costs incurred. The interconnection customer will post financial security with the impacted Participating TO(s) for facilities and Network Upgrades. The interconnection customer will be eligible for repayment of amounts advanced for Network Upgrades consistent with Section 14.3.2.1 for Interconnection Customers in Queue Cluster 6 and later.

### **Section 15 Miscellaneous**

#### **15.1 Confidentiality**

For the purposes of this Section 15.1, "Party" or "Parties" shall mean the CAISO, Participating TO(s), Interconnection Customer or any combination of the CAISO, Participating TO(s) or the Interconnection Customer.

Confidential Information shall include, without limitation, all information relating to a Party's technology, research and development, business affairs, and pricing.

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 Section 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.

These confidentiality provisions are limited to information provided pursuant to this GIDAP.

##### **15.1.1 Scope**

Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the disclosing Party to keep such

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information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the disclosing Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or breach of the GIA; or (6) is required, in accordance with Section 15.1.6, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise required to be disclosed by law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under the GIDAP. 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.

**15.1.2. Release of Confidential Information**

No Party shall release or disclose Confidential Information to any other person, except to its employees, consultants, Affiliates (limited by FERC's Standards of Conduct requirements set forth in Part 358 of FERC's Regulations, 18 C.F.R. Part 358), or to Affected Systems, 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 these procedures, unless such person has first been advised of the confidentiality provisions of this Section and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Section.

**15.1.3 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.

**15.1.4 No Warranties**

By providing Confidential Information, no Party makes any warranties or representations 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.

**15.1.5 Standard of Care**

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

**15.1.6 Order of Disclosure**

If a court or a Government Authority or entity with the right, power, and apparent authority to do so requests or requires 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 these confidentiality provisions. Notwithstanding the absence of a protective order or waiver, the Party may disclose such



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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.

**15.1.7 Remedies**

Monetary damages are inadequate to compensate a Party for another Party's breach of its obligations under this Section 15.1. 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 Section 15.1, which equitable relief shall be granted without bond or proof of damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the breach of this Section 15.1, but shall be in addition to all other remedies available at law or in equity. Further, the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Section 15.1.

**15.1.8 Disclosure to FERC, its Staff, or a State**

Notwithstanding anything in this Section 15.1 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, 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 prior to the release of the Confidential Information to FERC or its staff. The Party shall notify the other applicable Parties 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, consistent with applicable state rules and regulations.

**15.1.9** Subject to the exception in Section 15.1.8, any 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 GIDAP or as a transmission service provider or a Balancing Authority including disclosing the Confidential Information to an RTO or ISO or to a subregional, regional or national reliability organization or planning group. The Party asserting confidentiality shall notify the other 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.

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**15.1.10** This provision shall not apply to any information that was or is hereafter in the public domain (except as a result of a breach of this provision).

**15.1.11** The Participating TO or CAISO shall, at the Interconnection Customer's election, destroy, in a confidential manner, or return the Confidential Information provided at the time of Confidential Information is no longer needed.

**15.2 Delegation of Responsibility**

The CAISO and the Participating TOs may use the services of subcontractors as deemed appropriate to perform their obligations under this GIDAP. The applicable Participating TO or CAISO shall remain primarily liable to the Interconnection Customer for the performance of its respective subcontractors and compliance with its obligations of this GIDAP. The subcontractor shall keep all information provided confidential and shall use such information solely for the performance of such obligation for which it was provided and no other purpose.

**15.3 [Not Used]**

**15.4 [Not Used]**

**15.5 Disputes**

If an Interconnection Customer disputes withdrawal of its Interconnection Request under Section 3.8, the CAISO will forward any information regarding the disputed withdrawal received under Section 3.8 within one (1) Business Day to the GIDAP Executive Dispute Committee, consisting of the Vice President responsible for administration of this GIDAP, the CAISO Vice President responsible for customer affairs, and an additional Vice President. The GIDAP Executive Dispute Committee shall have five (5) Business Days to determine whether or not to restore the Interconnection Request. If the GIDAP Executive Dispute Committee concludes that the Interconnection Request should have been withdrawn, the Interconnection Customer may seek relief in accordance with the CAISO ADR Procedures.

All disputes, other than those arising from Section 3.8, arising out of or in connection with this GIDAP whereby relief is sought by or from the CAISO shall be settled in accordance with the CAISO ADR Procedures.

Disputes arising out of or in connection with this GIDAP not subject to the CAISO ADR Procedures shall be resolved as follows:

**15.5.1 Submission**

In the event either Party has a dispute, or asserts a claim, that arises out of or in connection with the GIA, the GIDAP, or their 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 the GIA and GIDAP.

### **15.5.2 External Arbitration Procedures**

Any arbitration initiated under these procedures 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 or RTO rules; provided, however, in the event of a conflict between the Arbitration Rules and the terms of this Section 15.5, the terms of this Section 15.5 shall prevail.

### **15.5.3 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 therefore. The arbitrator(s) shall be authorized only to interpret and apply the provisions of the GIA and shall have no power to modify or change any provision of the GIA and 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.

### **15.5.4 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.

### **15.5.5 Non-binding Alternative Dispute Resolution**

If a Party has submitted a Notice of Dispute pursuant to Section 15.5.1, and the Parties are unable to resolve the claim or dispute through unassisted or assisted negotiations within the thirty (30) calendar days provided in that section, and the Parties cannot reach mutual agreement to pursue the Section 15.5 arbitration process, a Party may request that the CAISO engage in non-binding Alternative Dispute Resolution pursuant to this section by providing written notice to the CAISO. Conversely, either Party may file a request for non-binding Alternative Dispute Resolution pursuant to this section without first seeking mutual agreement to pursue the Section 15.5 arbitration process. The process in this Section 15.5.5 shall serve as an alternative to, and not a replacement of, the Section 15.5 arbitration process. Pursuant to this process, the CAISO must within thirty (30) calendar days of receipt of the request for non-binding Alternative Dispute Resolution appoint a neutral decision-maker that is an independent subcontractor that shall not have any current or past substantial business or financial relationships with either Party. Unless otherwise agreed by the Parties, the decision-maker shall render a decision within sixty (60) calendar days of appointment and shall notify the Parties in

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writing of such decision and reasons therefore. This decision-maker shall be authorized only to interpret and apply the provisions of the GIDAP and GIA and shall have no power to modify or change any provision of the GIDAP and GIA in any manner. The result reached in this process is not binding, but, unless otherwise agreed, the Parties may cite the record and decision in the non-binding dispute resolution process in future dispute resolution processes, including in a Section 15.5 arbitration, or in a Federal Power Act section 206 complaint. Each Party shall be responsible for its own costs incurred during the process and the cost of the decision-maker shall be divided equally among each Party to the dispute.

## **15.6 Local Furnishing Bonds**

### **15.6.1 Participating TOs that Own Facilities Financed by Local Furnishing Bonds**

This provision is applicable only to a Participating TO that has financed facilities for the local furnishing of electric energy with Local Furnishing Bonds. Notwithstanding any other provisions of this , the Participating TO and the CAISO shall not be required to provide Interconnection Service to the Interconnection Customer pursuant to this and the GIA if the provision of such Interconnection Service would jeopardize the tax-exempt status of any Local Furnishing Bond(s) issued for the benefit of the Participating TO.

### **15.6.2 Alternative Procedures for Requesting Interconnection Service**

If a Participating TO determines that the provision of Interconnection Service requested by the Interconnection Customer would jeopardize the tax-exempt status of any Local Furnishing Bond(s) issued for the benefit of the Participating TO, it shall advise the Interconnection Customer and the CAISO within (30) calendar days of receipt of the Interconnection Request.

The Interconnection Customer thereafter may renew its request for the same interconnection Service by tendering an application under Section 211 of the Federal Power Act, in which case the Participating TO, within ten (10) calendar days of receiving a copy of the Section 211 application, will waive its rights to a request for service under Section 213(a) of the Federal Power Act and to the issuance of a proposed order under Section 212(c) of the Federal Power Act, and the CAISO and Participating TO shall provide the requested Interconnection Service pursuant to the terms and conditions set forth in this and the GIA.

## **15.7 Change in CAISO Operational Control**

If the CAISO no longer has control of the portion of the CAISO Controlled Grid at the Point of Interconnection during the period when an Interconnection Request is pending, the CAISO shall transfer to the applicable former Participating TO or successor entity which has ownership of the Point of Interconnection any amount of the deposit or payment with interest thereon that exceeds the cost that it incurred to evaluate the request for interconnection. Any difference between such net deposit amount and the costs that the former Participating TO or successor entity incurs to evaluate the request for interconnection shall be paid by or refunded to the Interconnection Customer, as appropriate. The CAISO shall coordinate with the applicable former Participating TO or successor entity which has ownership of the Point of Interconnection to complete any Interconnection Study, as appropriate, that the CAISO has begun but has not completed. If the Participating TO has tendered a draft GIA to the Interconnection Customer but the Interconnection Customer has neither executed the GIA nor requested the filing of an unexecuted GIA with FERC, unless otherwise provided, the Interconnection Customer must complete negotiations with the applicable former Participating TO or successor entity which has the ownership of the Point of Interconnection.

**Section 16. Cluster 14 Unique Procedures**

The CAISO tariff and the GIDAP will apply to Queue Cluster 14 with the following exceptions:

**16.1 Study Procedures and Timelines**

- a) The CAISO will validate Cluster 14 Interconnection Requests by September 26, 2021. Interconnection Requests with deficiencies after that date will be deemed invalid and will not be included in Cluster 14.
- b) GIDAP provisions stating when the CAISO and Participating TOs must initiate Interconnection Studies will not apply.
- c) The CAISO will publish Phase I Interconnection Studies no later than September 15, 2022. The Phase I Interconnection Study will not include system-level stability analyses.
- d) Interconnection Customers may submit, in writing, additional comments on the final Phase I Interconnection Study report up to (5) Business Days following the Results Meeting. Based on any discussion at the Results Meeting and any comments received, the CAISO (in consultation with the applicable Participating TO(s)) will determine, in accordance with Section 6.8, whether it is necessary to follow the final Phase I Interconnection Study report with a revised study report or an addendum. The CAISO will issue any such revised report or addendum to the Interconnection Customer no later than thirty (30) calendar days following the Results Meeting.
- e) No later than January 13, 2023, Interconnection Customers must (1) submit an updated, valid dynamic model to the CAISO, (2) post their initial Interconnection Financial Security, and (3) have submitted an Appendix B that is deemed valid.
- f) The CAISO will publish Phase II Interconnection Studies no later than January 31, 2024.
- g) Phase I and Phase II Interconnection Study Results meetings will occur with ninety (90) days of publication.
- h) The CAISO will publish the results of the TP Deliverability allocation process no later than May 31, 2024.
- i) Interconnection Customers must post their second Interconnection Financial Security no later than July 1, 2024.
- j) Unless the CAISO issues a Market Notice stating otherwise, the CAISO will not open the Queue Cluster 15 Cluster Application Window in 2022. The CAISO will open the Queue Cluster 15 Cluster Application Window in 2023 pursuant to Section 3.3.
- k) Deadlines related to Interconnection Customers that elect to park their Interconnection Requests will be extended consistent with this Section, including for Interconnection Financial Security postings.
- l) If an Interconnection Customer withdraws after posting its initial Interconnection Financial Security but before demonstrating Site Exclusivity, its Site Exclusivity Deposit will not be refunded, and will be processed with non-refundable funds described in Section 7.6.
- m) On or before their initial Interconnection Financial Security posting, Interconnection Customers proposing to use third-party Interconnection Facilities must provide documentation to the CAISO demonstrating they are negotiating or have secured rights on those Interconnection Facilities. On or before their second Interconnection Financial Security posting, such Interconnection

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Customers must provide documentation to the CAISO demonstrating they have secured rights on those Interconnection Facilities through their Commercial Operation Date.

The CAISO and Participating TOs will use Reasonable Efforts to meet all deadlines in the GIDAP and this Section 16, and may publish study results early or otherwise accelerate the interconnection process where possible. The CAISO will publish Interconnection Studies simultaneously for all the Participating TOs.

## **16.2 Cost Responsibility and Interconnection Financial Security**

- a) Maximum Cost Responsibility and Maximum Cost Exposure in the Phase I Interconnection Study will be advisory only. Only the Phase II Interconnection Study will set Interconnection Customers' binding Maximum Cost Responsibility and Maximum Cost Exposure.
- b) Interconnection Customers will receive a complete refund of their initial Interconnection Financial Security posting if they withdraw before their second Interconnection Financial Security posting is due where: (1) their Maximum Cost Responsibility increases by twenty-five (25) percent or more between Phase I and Phase II; or (2) the anticipated completion of their longest lead-time Reliability Network Upgrade extends by one year or more between Phase I and Phase II.

## **Section 17. Cluster 15 Unique Procedures**

The CAISO Tariff and the GIDAP will apply to Queue Cluster 15 with the following exceptions:

### **17.1 Study Procedures and Timelines**

- a) Consistent with the process set forth in Section 3.5.2, the CAISO will validate Cluster 15 Interconnection Requests by September 26, 2024. Interconnection Requests with deficiencies after that date will be deemed invalid and will not be included in Cluster 15.
- b) Between May 1, 2024 and September 26, 2024, Interconnection Customers may modify their Interconnection Requests (a) as permissible under Section 6.7.2.2(a) – (h); (b) to change generating technology or fuel; and (c) to add or increase energy storage capacity. The CAISO will not accept any modification under this Section 17.1(b) that would result in increasing the Interconnection Service Capacity requested. Interconnection Customers modifying their Interconnection Requests must submit updated information required under Section 3.5 to reflect the modification. The CAISO will assess any costs for processing the modification to the Interconnection Customer's Interconnection Study Deposit. Modifications effected pursuant to this provision will not affect Interconnection Customers' rights to modify their Interconnection Requests after September 26, 2024 under the GIDAP.
- c) An Interconnection Customers that withdraws its Interconnection Request prior to April 1, 2024 will receive a refund of its Interconnection Study Deposit, including any interest earned, minus any costs expended under the GIDAP on the Interconnection Customer's behalf. If an Interconnection Customer submitted a Site Exclusivity Deposit, it will receive a complete refund of its Site Exclusivity Deposit, including any interest earned. Withdrawals effected pursuant to this provision will not affect Interconnection Customers' rights to withdraw after April 1, 2024, and receive any corresponding refund and interest under the GIDAP, including without limitation Section 3.5.1.1.
- d) Except as provided herein, all Interconnection Requests in Cluster 15 will not progress or be subject to post-validation requirements until they are validated. GIDAP provisions stating when the CAISO and Participating TOs must initiate and publish Interconnection Studies will not apply. All deadlines, rights, and responsibilities under the GIDAP contingent on the publication of

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Interconnection Studies will not apply.

- e) The CAISO will not accept Independent Study Process Interconnection Requests pursuant to Section 4 until Cluster 15 has received its Phase I Interconnection Study results.
- f) The CAISO will include Cluster 15 Interconnection Requests in its reporting data under Section 3.6.

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**Appendix 1 Interconnection Request  
INTERCONNECTION REQUEST**

Provide one copy of this completed form pursuant to Section 7 of this Appendix 1 below.

1. The undersigned Interconnection Customer submits this request to interconnect its Generating Facility with the CAISO Controlled Grid pursuant to the CAISO Tariff (check one):  
 Fast Track Process.  
 Independent Study Process.  
 Queue Cluster process.  
 Annual Deliverability Assessment pursuant to Section 9.
2. This Interconnection Request is for (check one):  
 A proposed new Generating Facility.  
 An increase in the generating capacity or a Material Modification to an existing Generating Facility.

3. Requested Deliverability Statuses are (check one):

On-Peak (for purposes of Net Qualifying Capacity):

- Full Capacity (For Independent Study Process and Queue Cluster Process only)  
(Note – Deliverability analysis for Independent Study Process is conducted with the next annual Cluster Study)
- Partial Deliverability for \_\_\_ MW of electrical output (For Independent Study Process and Queue Cluster Process only)
- Energy Only

Off-Peak:

- Off-Peak Deliverable
- Off-Peak Energy Only

4. The Interconnection Customer provides the following information:

- a. Address or location, including the county, of the proposed new Generating Facility site or, in the case of an existing Generating Facility, the name and specific location, including the county, of the existing Generating Facility;

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

Project Location:

Street Address: \_\_\_\_\_

City, State: \_\_\_\_\_

County: \_\_\_\_\_

Zip Code: \_\_\_\_\_

GPS Coordinates: \_\_\_\_\_

- b. Maximum net megawatt electrical output (as defined by section 2.c of Attachment A to this appendix) of the proposed new Generating Facility or the amount of net megawatt increase in the generating capacity of an existing Generating Facility;

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Maximum net megawatt electrical output (MW): \_\_\_\_\_ or  
Net Megawatt increase (MW): \_\_\_\_\_

- c. Type of project (i.e., gas turbine, hydro, wind, etc.) and general description of the equipment configuration (if more than one type is chosen include nameplate MW for each);

<u>Technology</u>	<u>Nameplate</u>
___ Cogeneration	___ (MW)
___ Reciprocating Engine	___ (MW)
___ Biomass	___ (MW)
___ Steam Turbine	___ (MW)
___ Gas Turbine	___ (MW)
___ Wind	___ (MW)
___ Hydro	___ (MW)
___ Photovoltaic	___ (MW)
___ Combined Cycle	___ (MW)

\_\_\_ Other (please describe):

General description of the equipment configuration (e.g. number, size, type, etc):

- d. Proposed In-Service Date (first date transmission is needed to the facility), Trial Operation date and Commercial Operation Date by month, day, and year and term of service (dates must be sequential); \_\_\_\_\_

Proposed Trial Operation Date: \_\_\_\_\_

Proposed Commercial Operation Date: \_\_\_\_\_

Proposed Term of Service (years): \_\_\_\_\_

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

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

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

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

Street Address: \_\_\_\_\_

City, State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

- f. Approximate location of the proposed Point of Interconnection (i.e., specify transmission facility interconnection point name, voltage level, and the location of interconnection);

\_\_\_\_\_

- g. Interconnection Customer data (set forth in Attachment A)

**The Interconnection Customer shall provide to the CAISO the technical data called for in Attachment A to this Interconnection Request. One (1) copy is required.**

- h. Requested Interconnection Service Capacity (in MW) (if lower than the Generating Facility Capacity; may not exceed Generating Facility Capacity);

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5. Applicable deposit amount made payable to California ISO. Send check to CAISO (see section 7 below for details) along with the:
- a. Interconnection Request for processing.
  - b. Attachment A (Interconnection Request Generating Facility Data).

6. Evidence of Site Exclusivity as specified in the GIDAP and name(s), address(es) and contact information of site owner(s) (check one):

\_\_\_\_\_ Is attached to this Interconnection Request  
\_\_\_\_\_ Deposit in lieu of Site Exclusivity attached, Site Exclusivity will be provided at a later date in accordance with this GIDAP

7. This Interconnection Request shall be submitted to the CAISO representative indicated below:

California ISO  
Attn: Grid Assets  
P.O. Box 639014  
Folsom, CA 95763-9014

Overnight address:  
California ISO  
Attn: Grid Assets  
250 Outcropping Way  
Folsom, CA 95630

8. Representative of the Interconnection Customer to contact:

[To be completed by the Interconnection Customer]  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City, State: \_\_\_\_\_  
Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
Fax Number: \_\_\_\_\_  
Email Address: \_\_\_\_\_

9. This Interconnection Request is submitted by:

Legal name of the Interconnection Customer: \_\_\_\_\_

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

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

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

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

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**Interconnection Request**

**Attachment A Generating Facility Data**

**GENERATING FACILITY DATA**

Provide one copy of this completed form.

**1. Provide one set of original prints (no larger than 11" x 17") or soft copy on cd/flashdrive of the following:**

- A. Site drawing to scale, showing generator location and Point of Interconnection with the CAISO Controlled Grid.
- B. Single-line diagram showing applicable equipment such as generating units, step-up transformers, auxiliary transformers, switches/disconnects of the proposed interconnection, including the required protection devices and circuit breakers. For wind and photovoltaic generator plants, the one line diagram should include the distribution lines connecting the various groups of generating units, the generator capacitor banks, the step up transformers, the distribution lines, and the substation transformers and capacitor banks at the Point of Interconnection with the CAISO Controlled Grid.

**2. Generating Facility Information**

- A. Total Generating Facility rated output (MW): \_\_\_\_\_
- B. Generating Facility auxiliary Load (MW): \_\_\_\_\_
- C. Project net capacity (A-B)(MW): \_\_\_\_\_
- D. Standby Load when Generating Facility is off-line (MW): \_\_\_\_\_
- E. Number of Generating Units: \_\_\_\_\_  
(Please repeat the following items for each generator)
- F. Individual generator rated output (MW for each unit): \_\_\_\_\_
- G. Manufacturer: \_\_\_\_\_
- H. Year Manufactured \_\_\_\_\_
- I. Nominal Terminal Voltage (kV): \_\_\_\_\_
- J. Rated Power Factor (%): \_\_\_\_\_
- K. Type (Induction, Synchronous, D.C. with Inverter): \_\_\_\_\_
- L. Phase (three phase or single phase): \_\_\_\_\_
- M. Connection (Delta, Grounded WYE, Ungrounded WYE, impedance grounded): \_\_\_\_\_
- N. Generator Voltage Regulation Range (+/- %): \_\_\_\_\_
- O. Generator Power Factor Regulation Range: \_\_\_\_\_
- P. For combined cycle plants, specify the plant net output capacity (MW) for an outage of the steam turbine or an outage of a single combustion turbine \_\_\_\_\_

**3. Synchronous Generator – General Information:**

(Please repeat the following for each generator model)

- A. Rated Generator speed (rpm): \_\_\_\_\_
- B. Rated MVA: \_\_\_\_\_
- C. Rated Generator Power Factor: \_\_\_\_\_
- D. Generator Efficiency at Rated Load (%): \_\_\_\_\_
- E. Moment of Inertia (including prime mover): \_\_\_\_\_
- F. Inertia Time Constant (on machine base) H: \_\_\_\_\_ sec or MJ/MVA
- G. SCR (Short-Circuit Ratio - the ratio of the field current required for rated open-circuit voltage to the field current required for rated short-circuit current): \_\_\_\_\_
- H. Please attach generator reactive capability curves.
- I. Rated Hydrogen Cooling Pressure in psig (Steam Units only): \_\_\_\_\_
- J. Please attach a plot of generator terminal voltage versus field current that shows the air

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gap line, the open-circuit saturation curve, and the saturation curve at full load and rated power factor.

**4. Excitation System Information**

(Please repeat the following for each generator model)

- A. Indicate the Manufacturer \_\_\_\_\_ and Type \_\_\_\_\_ of excitation system used for the generator. For exciter type, please choose from 1 to 9 below or describe the specific excitation system.
- (1) Rotating DC commutator exciter with continuously acting regulator. The regulator power source is independent of the generator terminal voltage and current.
  - (2) Rotating DC commutator exciter with continuously acting regulator. The regulator power source is bus fed from the generator terminal voltage.
  - (3) Rotating DC commutator exciter with non-continuously acting regulator (i.e., regulator adjustments are made in discrete increments).
  - (4) Rotating AC Alternator Exciter with non-controlled (diode) rectifiers. The regulator power source is independent of the generator terminal voltage and current (not bus-fed).
  - (5) Rotating AC Alternator Exciter with controlled (thyristor) rectifiers. The regulator power source is fed from the exciter output voltage.
  - (6) Rotating AC Alternator Exciter with controlled (thyristor) rectifiers.
  - (7) Static Exciter with controlled (thyristor) rectifiers. The regulator power source is bus-fed from the generator terminal voltage.
  - (8) Static Exciter with controlled (thyristor) rectifiers. The regulator power source is bus-fed from a combination of generator terminal voltage and current (compound-source controlled rectifiers system).
  - (9) Other (specify): \_\_\_\_\_
- B. Attach a copy of the block diagram of the excitation system from its instruction manual. The diagram should show the input, output, and all feedback loops of the excitation system.
- C. Excitation system response ratio (ASA): \_\_\_\_\_
- D. Full load rated exciter output voltage: \_\_\_\_\_
- E. Maximum exciter output voltage (ceiling voltage): \_\_\_\_\_
- F. Other comments regarding the excitation system?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**5. Power System Stabilizer Information**

(Please repeat the following for each generator model. All new generators are required to install PSS unless an exemption has been obtained from WECC. Such an exemption can be obtained for units that do not have suitable excitation systems.)

- A. Manufacturer: \_\_\_\_\_
- B. Is the PSS digital or analog? \_\_\_\_\_
- C. Note the input signal source for the PSS?  
\_\_\_\_\_ Bus frequency \_\_\_\_\_ Shaft speed \_\_\_\_\_ Bus Voltage  
\_\_\_\_\_ Other (specify source)
- D. Please attach a copy of a block diagram of the PSS from the PSS Instruction Manual and the correspondence between dial settings and the time constants or PSS gain.
- E. Other comments regarding the PSS?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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**6. Turbine-Governor Information**

(Please repeat the following for each generator model)

Please complete Part A for steam, gas or combined-cycle turbines, Part B for hydro turbines, and Part C for both.

A. Steam, gas or combined-cycle turbines:

- (1) List type of unit (Steam, Gas, or Combined-cycle): \_\_\_\_\_
- (2) If steam or combined-cycle, does the turbine system have a reheat process (i.e., both high and low pressure turbines)? \_\_\_\_\_
- (3) If steam with reheat process, or if combined-cycle, indicate in the space provided, the percent of full load power produced by each turbine:  
Low pressure turbine or gas turbine: \_\_\_\_\_ %  
High pressure turbine or steam turbine: \_\_\_\_\_ %

B. Hydro turbines:

- (1) Turbine efficiency at rated load: \_\_\_\_\_ %
- (2) Length of penstock: \_\_\_\_\_ ft
- (3) Average cross-sectional area of the penstock: \_\_\_\_\_ ft<sup>2</sup>
- (4) Typical maximum head (vertical distance from the bottom of the penstock, at the gate, to the water level): \_\_\_\_\_ ft
- (5) Is the water supply run-of-the-river or reservoir: \_\_\_\_\_
- (6) Water flow rate at the typical maximum head: \_\_\_\_\_ ft<sup>3</sup>/sec
- (7) Average energy rate: \_\_\_\_\_ kW-hrs/acre-ft
- (8) Estimated yearly energy production: \_\_\_\_\_ kW-hrs

C. Complete this section for each machine, independent of the turbine type.

- (1) Turbine manufacturer: \_\_\_\_\_
- (2) Maximum turbine power output: \_\_\_\_\_ MW
- (3) Minimum turbine power output (while on line): \_\_\_\_\_ MW
- (4) Governor information:
  - (a) Droop setting (speed regulation): \_\_\_\_\_
  - (b) Is the governor mechanical-hydraulic or electro-hydraulic (Electro-hydraulic governors have an electronic speed sensor and transducer)?  
\_\_\_\_\_
  - (c) Other comments regarding the turbine governor system?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**7. Induction Generator Data:**

- A. Rated Generator Power Factor at rated load: \_\_\_\_\_
- B. Moment of Inertia (including prime mover): \_\_\_\_\_
- C. Do you wish reclose blocking? Yes , No   
Note: Sufficient capacitance may be on the line now, or in the future, and the generator may self-excite unexpectedly.

**7a Wind Generators**

Number of generators to be interconnected pursuant to this Interconnection Request: \_\_\_\_\_  
Average Site Elevation: \_\_\_\_\_ Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_

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Field Volts: \_\_\_\_\_  
Field Amperes: \_\_\_\_\_  
Motoring Power (MW): \_\_\_\_\_  
Neutral Grounding Resistor (If Applicable): \_\_\_\_\_  
I22t or K (Heating Time Constant): \_\_\_\_\_  
Rotor Resistance: \_\_\_\_\_  
Stator Resistance: \_\_\_\_\_  
Stator Reactance: \_\_\_\_\_  
Rotor Reactance: \_\_\_\_\_  
Magnetizing Reactance: \_\_\_\_\_  
Short Circuit Reactance: \_\_\_\_\_  
Exciting Current: \_\_\_\_\_  
Temperature Rise: \_\_\_\_\_  
Frame Size: \_\_\_\_\_  
Design Letter: \_\_\_\_\_  
Reactive Power Required In Vars (No Load): \_\_\_\_\_  
Reactive Power Required In Vars (Full Load): \_\_\_\_\_  
Total Rotating Inertia, H: \_\_\_\_\_ Per Unit on 100 MVA Base

Note: A completed General Electric Company Power Systems Load Flow (PSLF) data sheet must be supplied with the Interconnection Request. If other data sheets are more appropriate to the proposed device then they shall be provided and discussed at Scoping Meeting.

**8. Generator Short Circuit Data**

For each generator model, provide the following reactances expressed in p.u. on the generator base:

- $X''1$  – positive sequence subtransient reactance: \_\_\_\_\_ p.u.\*\*
- $X2$  – negative sequence reactance: \_\_\_\_\_ p.u.\*\*
- $X0$  – zero sequence reactance: \_\_\_\_\_

Generator Grounding (select 1 for each model):

- A. \_\_\_\_\_ Solidly grounded
- B. \_\_\_\_\_ Grounded through an impedance  
(Impedance value in p.u. on generator base. R: \_\_\_\_\_ p.u.  
X: \_\_\_\_\_ p.u.)
- C. \_\_\_\_\_ Ungrounded

**9. Step-Up Transformer Data**

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

**10. Interconnection Facilities Line Data**

There is no need to provide data for new lines that are to be planned by the Participating TO. However, for transmission lines that are to be planned by the generation developer, please provide the following information:

Nominal Voltage: \_\_\_\_\_ kV  
Line Length: \_\_\_\_\_ miles  
Line termination Points: \_\_\_\_\_  
Conductor Type: \_\_\_\_\_ Size: \_\_\_\_\_  
If bundled. Number per phase: \_\_\_\_\_, Bundle spacing: \_\_\_\_\_ in.

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Phase Configuration. Vertical: \_\_\_\_\_, Horizontal: \_\_\_\_\_  
Phase Spacing: A-B: \_\_\_\_\_ ft., B-C: \_\_\_\_\_ ft., C-A: \_\_\_\_\_ ft.  
Distance of lowest conductor to Ground at full load and 40 C: \_\_\_\_\_<sup>o</sup> ft  
Ground Wire Type: \_\_\_\_\_ Size: \_\_\_\_\_ Distance to Ground: \_\_\_\_\_ ft  
Attach Tower Configuration Diagram  
Summer line ratings in amperes (normal and emergency) \_\_\_\_\_  
Positive Sequence Resistance ( R ): \_\_\_\_\_ p.u.\*\* (for entire line length)  
Positive Sequence Reactance: ( X ): \_\_\_\_\_ p.u.\*\* (for entire line length)  
Zero Sequence Resistance ( R0 ): \_\_\_\_\_ p.u.\*\* (for entire line length)  
Zero Sequence Reactance: ( X0 ): \_\_\_\_\_ p.u.\*\* (for entire line length)  
Line Charging (B/2): \_\_\_\_\_ p.u.\*\*  
\*\* On 100-MVA and nominal line voltage (kV) Base

**10a. For Wind/photovoltaic plants, provide collector System Equivalence Impedance Data  
Provide values for each equivalence collector circuit at all voltage levels.**

Nominal Voltage: \_\_\_\_\_  
Summer line ratings in amperes (normal and emergency) \_\_\_\_\_  
Positive Sequence Resistance (R1): \_\_\_\_\_ p.u. \*\* (for entire line length of each collector circuit)  
Positive Sequence Reactance: (X1): \_\_\_\_\_ p.u.\*\* (for entire line length of each collector circuit)  
Zero Sequence Resistance (R0): \_\_\_\_\_ p.u. \*\* (for entire line length of each collector circuit)  
Zero Sequence Reactance: (X0): \_\_\_\_\_ p.u.\*\* (for entire line length of each collector circuit)  
Line Charging (B/2): \_\_\_\_\_ p.u.\*\* (for entire line length of each collector circuit)  
\*\* On 100-MVA and nominal line voltage (kV) Base

**11. Inverter-Based Machines**

Number of inverters to be interconnected pursuant to this Interconnection Request: \_\_\_\_\_

Inverter manufacturer, model name, number, and version:  
\_\_\_\_\_

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

Max design fault contribution current:

Harmonics Characteristics:

Start-up requirements:

Note: A completed General Electric Company Power Systems Load Flow (PSLF) data sheet must be supplied with the Interconnection Request. If other data sheets are more appropriate to the proposed device then they shall be provided and discussed at Scoping Meeting.

**12. Load Flow and Dynamic Models:**

**Provide load flow model for the generating plant and its interconnection facilities in GE PSLF \*.epc format, including new buses, generators, transformers, interconnection facilities. An equivalent model is required for the plant with generation collector systems. This data should reflect the technical data provided in this Attachment A.**

For each generator, governor, exciter and power system stabilizer, select the appropriate dynamic model

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from the General Electric PSLF Program Manual and provide the required input data. **For inverter based generating facilities, select the appropriate generator and control models from the General Electric PSLF Program Manual and provide the required input data. Provide a completed \*.dyd file that contains the information specified in this section. One copy of this data should be provided on DVD, CD, or USB flash drive media.**

If you require assistance in developing the models, we suggest you contact General Electric. Accurate models are important to obtain accurate study results. Costs associated with any changes in facility requirements that are due to differences between model data provided by the generation developer and the actual generator test data, may be the responsibility of the generation developer.



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TABLE 1

**TRANSFORMER DATA**  
**(Provide for each level of transformation)**

UNIT \_\_\_\_\_

NUMBER OF TRANSFORMERS \_\_\_\_\_ PHASE \_\_\_\_\_

RATING	H Winding	X Winding	Y Winding
Rated MVA	_____	_____	_____
Connection (Delta, Wye, Gnd.)	_____	_____	_____
Cooling Type (OA, OA/FA, etc) :	_____	_____	_____
Temperature Rise Rating	_____	_____	_____
Rated Voltage	_____	_____	_____
BIL	_____	_____	_____
Available Taps (% of rating)	_____	_____	_____
Load Tap Changer? (Y or N)	_____	_____	_____
Tap Settings	_____	_____	_____
IMPEDANCE	H-X	H-Y	X-Y
Percent	_____	_____	_____
MVA Base	_____	_____	_____
Tested Taps	_____	_____	_____
WINDING RESISTANCE	H	X	Y
Ohms	_____	_____	_____

CURRENT TRANSFORMER RATIOS

H \_\_\_\_\_ X \_\_\_\_\_ Y \_\_\_\_\_ N \_\_\_\_\_

Percent exciting current at 100 % Voltage; \_\_\_\_\_ 110% Voltage \_\_\_\_\_

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

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**Appendix 2**

**[Intentionally Omitted]**

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**Appendix 3**

**GENERATOR INTERCONNECTION STUDY PROCESS AGREEMENT  
FOR QUEUE CLUSTERS**

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by and between \_\_\_\_\_, a \_\_\_\_\_ organized and existing under the laws of the State of \_\_\_\_\_, ("Interconnection Customer") and the California Independent System Operator Corporation, a California nonprofit public benefit corporation existing under the laws of the State of California, ("CAISO"). The Interconnection Customer and the CAISO each may be referred to as a "Party," or collectively as the "Parties."

**RECITALS**

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

WHEREAS, the Interconnection Customer desires to interconnect the Generating Facility with the CAISO Controlled Grid pursuant to Appendix DD to the CAISO Tariff; and

WHEREAS, the Interconnection Customer has requested the CAISO to conduct or cause to be performed Interconnection Studies to assess the system impact of interconnecting the Generating Facility to the CAISO Controlled Grid and to specify and estimate the cost of the equipment, engineering, procurement and construction work needed on the Participating TO's electric system in accordance with Good Utility Practice to physically and electrically connect the Generating Facility to the CAISO Controlled Grid;

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

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in the CAISO's FERC-approved Generation Interconnection and Deliverability Allocation Procedures in CAISO Tariff Appendix DD "GIDAP" or the Master Definitions Supplement, Appendix A to the CAISO Tariff, as applicable.
- 2.0 The Interconnection Customer elects and the CAISO shall conduct or cause to be performed Interconnection Studies, including any accelerated Interconnection Study, in accordance with the CAISO Tariff.
- 3.0 The scope of the Interconnection Studies shall be subject to the assumptions set forth in Appendices A and B to this Agreement.
- 4.0 The Interconnection Studies will be based upon the technical information provided by the Interconnection Customer in the Interconnection Request, as may be modified under the CAISO Tariff. The CAISO reserves the right to request additional technical information from the Interconnection Customer as may reasonably become necessary consistent with Good Utility Practice during the course of the Interconnection Studies.
- 5.0 [NOT USED]
- 6.0 Consistent with the GIDAP and CAISO Tariff, the Interconnection Customer will provide deposits and pay its share of actual costs of applicable studies, including in excess of provided deposits. The CAISO and Participating TO will provide invoices and refunds on a timely basis required by the GIDAP and the CAISO Tariff.

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Following the issuance of an Interconnection Study report, the CAISO shall charge and the Interconnection Customer shall pay its share of the actual costs of the Interconnection Study pursuant to Section 3.5.1 of the GIDAP.

Any difference between the deposits made toward the Interconnection Study process and associated administrative costs, including any accelerated studies, and the actual cost of the Interconnection Studies and associated administrative costs shall be paid by or refunded to the Interconnection Customer, in the appropriate allocation, in accordance with Section 3.5.1 of the GIDAP.

- 7.0 Pursuant to Section 3.7 of the GIDAP, the CAISO will coordinate the conduct of any studies required to determine the impact of the Interconnection Request on Affected Systems. The CAISO may provide a copy of the Interconnection Studies or other assessments to an Affected System Operator and the Western Electricity Coordinating Council. Requests for review and input from Affected System Operators or the Western Electricity Coordinating Council may arrive at any time prior to interconnection.
- 8.0 Substantial portions of technical data and assumptions used to perform the Phase I Interconnection Study, such as system conditions, existing and planned generation, and unit modeling, may change after the CAISO provides the Interconnection Study results to the Interconnection Customer. Interconnection Study results will reflect available data at the time the CAISO provides the Phase I Interconnection Study report to the Interconnection Customer. The CAISO shall not be responsible for any additional costs, including, without limitation, costs of new or additional facilities, system upgrades, or schedule changes, that may be incurred by the Interconnection Customer as a result of changes in such data and assumptions.
- 9.0 [NOT USED]
- 10.0 The CAISO and Participating TO(s) shall maintain records and accounts of all costs incurred in performing the Interconnection Study in sufficient detail to allow verification of all costs incurred, including associated overheads. The Interconnection Customer shall have the right, upon reasonable notice, within a reasonable time at the CAISO's offices and at its own expense, to audit the CAISO's records as necessary and as appropriate in order to verify costs incurred by the CAISO. Any audit requested by the Interconnection Customer shall be completed, and written notice of any audit dispute provided to the CAISO representative, within one hundred eighty (180) calendar days following receipt by the Interconnection Customer of the CAISO's notification of the final costs of the Interconnection Study.
- 11.0 In accordance with Section 3.8 of the GIDAP, the Interconnection Customer may withdraw its Interconnection Request at any time by written notice to the CAISO. Upon receipt of such notice, this Agreement shall terminate, subject to the requirements of Section 3.5.1 and 11.4 of the GIDAP.
- 12.0 This Agreement shall become effective on the date the CAISO notifies the Interconnection Customer that the Interconnection Request is complete pursuant to Section 3.5.1 of the GIDAP.
- 13.0 Miscellaneous.
- 13.1 Dispute Resolution. Any dispute, or assertion of a claim, arising out of or in connection with this Agreement, shall be resolved in accordance with Section 15.5 of the GIDAP.
- 13.2 Confidentiality. Confidential Information shall be treated in accordance with Section 15.1 of the GIDAP.

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- 13.3 Binding Effect. This Agreement 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.
- 13.4 Conflicts. In the event of a conflict between the body of this Agreement and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this Agreement shall prevail and be deemed the final intent of the Parties.
- 13.5 Rules of Interpretation. This Agreement, 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 Agreement, 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 Agreement), 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 or Section of this Agreement or such Appendix to this Agreement, or such Section of the GIDAP or such Appendix to the GIDAP, as the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this Agreement as a whole and not to any particular Article, Section, 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".
- 13.6 Entire Agreement. This Agreement, including all Appendices and Schedules attached hereto, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, any Party's compliance with its obligations under this Agreement.
- 13.7 No Third Party Beneficiaries. This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 13.8 Waiver. The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by the Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from the Participating TO or CAISO. Any waiver of this Agreement shall, if requested, be provided in writing.

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Any waivers at any time by any Party of its rights with respect to any default under this Agreement, or with respect to any other matter arising in connection with this Agreement, shall not constitute or be deemed a waiver with respect to any subsequent default or other matter arising in connection with this Agreement. Any delay, short of the statutory period of limitations, in asserting or enforcing any right under this Agreement shall not constitute or be deemed a waiver of such right.

- 13.9 Headings. The descriptive headings of the various Articles and Sections of this Agreement have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this Agreement.
- 13.10 **[Not Used]**
- 13.11 Amendment. The Parties may by mutual agreement amend this Agreement by a written instrument duly executed by both of the Parties.
- 13.12 Modification by the Parties. The Parties may by mutual agreement amend the Appendices to this Agreement by a written instrument duly executed by both of the Parties. Such amendment shall become effective and a part of this Agreement upon satisfaction of all applicable laws and regulations.
- 13.13 Reservation of Rights. The CAISO shall have the right to make a unilateral filing with FERC to modify this Agreement with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation under section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder, and Interconnection Customer shall have the right to make a unilateral filing with FERC to modify this Agreement 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 Agreement 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.
- 13.14 No Partnership. This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon 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.
- 13.15 Assignment. This Agreement may be assigned by a Party only with the written consent of the other Party; provided that a Party may assign this Agreement without the consent of the other Party 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 Agreement; and provided further that the Interconnection Customer shall have the right to assign this Agreement, without the consent of the other Party, for collateral security purposes to aid in providing financing for the Generating Facility, provided that the Interconnection Customer will require any secured party, trustee or mortgagee to notify the other Party of any such assignment. Any financing arrangement entered into by the Interconnection Customer pursuant to this Section 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 other Party of the date and particulars of any such exercise of assignment right(s). Any attempted assignment that violates this Section is void and ineffective. Any assignment under this Agreement shall not relieve a Party of its

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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.

IN WITNESS THEREOF, the Party has caused this Agreement to be duly executed by its duly authorized officers or agents on the day and year first above written.

**[Insert name of the Interconnection Customer]**

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

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

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

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

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**Appendix A**

**[NOT USED]**

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**Appendix B**

**DATA FORM TO BE PROVIDED BY THE INTERCONNECTION CUSTOMER  
PRIOR TO COMMENCEMENT OF THE PHASE II INTERCONNECTION STUDY**

Generating Facility size (MW): \_\_\_\_\_

Provide two copies of this completed form and other required plans and diagrams in accordance with Section 8.1 of the GIDAP.

Provide location plan and one-line diagram of the plant and station facilities. For staged projects, please indicate future generation, transmission circuits, etc.

One set of metering is required for each generation connection to the new bus or existing CAISO Controlled Grid station. Number of generation connections: \_\_\_\_\_

On the one line indicate the generation capacity attached at each metering location. (Maximum load on CT/PT)

On the one line indicate the location of auxiliary power. (Minimum load on CT/PT)

Will an alternate source of auxiliary power be available during CT/PT maintenance? \_\_\_\_\_ Yes  
\_\_\_\_\_ No

Will a transfer bus on the generation side of the metering require that each meter set be designed for the total plant generation? Yes No  
(Please indicate on one line).

What type of control system or PLC will be located at the Interconnection Customer's Generating Facility?

\_\_\_\_\_  
\_\_\_\_\_

What protocol does the control system or PLC use?

\_\_\_\_\_  
\_\_\_\_\_

Please provide a 7.5-minute quadrangle of the site. Sketch the plant, station, transmission line, and property line.

Physical dimensions of the proposed interconnection station:

Bus length from generation to interconnection station:

Line length from interconnection station to the Participating TO's transmission line.

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

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Number of third party easements required for transmission lines\*:

\* To be completed in coordination with the Participating TO or CAISO.

Is the Generating Facility in the Participating TO's service area?

Yes      No

Local service provider for auxiliary and other power: \_\_\_\_\_

Point of Interconnection: \_\_\_\_\_

Please provide proposed schedule dates:

Environmental survey start: \_\_\_\_\_

Environmental impact report submittal: \_\_\_\_\_

Procurement of project equipment: \_\_\_\_\_

Begin Construction Date: \_\_\_\_\_

In-Service Date: \_\_\_\_\_

r

Trial Operation Date: \_\_\_\_\_

Commercial Operation Date: \_\_\_\_\_

Level of Deliverability: Choose one of the following:

\_\_\_\_\_ Energy Only

\_\_\_\_\_ Full Capacity

TP Deliverability: Choose one of the following:

\_\_\_\_\_ Option (A), which means that the Generating Facility requires TP Deliverability to be able to continue to commercial operation.

\_\_\_\_\_ Option (B), which means that the Interconnection Customer will continue to commercial operation without an allocation of TP Deliverability.

Please provide any additional modification request pursuant to Section 6.7.2.2 of Appendix DD:

**Appendix 4**

**AGREEMENT FOR THE ALLOCATION OF RESPONSIBILITIES WITH REGARD TO GENERATOR INTERCONNECTION PROCEDURES AND INTERCONNECTION STUDY AGREEMENTS**

This Agreement for the Allocation of Responsibilities With Regard to Generator Interconnection Procedures and Interconnection Study Agreements ("Agreement"), dated \_\_\_\_\_, is entered into between the California Independent System Operator Corporation ("CAISO") and [NAME OF PTO] \_\_\_\_\_ ("PTO"). The CAISO and PTO are jointly referred to as the "Parties" and individually, as a "Party."

WHEREAS, this Agreement will ensure an independent assessment of new Generating Facility impacts on the CAISO Controlled Grid and take advantage of the respective expertise of the Parties to facilitate efficient and cost effective Interconnection Study procedures in a manner consistent with the Federal Energy Regulatory Commission's ("FERC") July 1, 2005 Order (112 FERC ¶ 61,009), FERC's August 26, 2005 Order (112 FERC ¶ 61,231), and prior FERC Orders recognizing that Order No. 2003 did not allocate responsibilities between transmission owners and transmission providers for the provision of Interconnection Service and suggesting those parties enter into an agreement to allocate those responsibilities. Southwest Power Pool, Inc., 106 FERC ¶ 61,254 (2004).

NOW THEREFORE, in view of the respective responsibilities assigned to the Parties and the foregoing FERC orders, and the provisions of the CAISO's Generator Interconnection Procedures set forth in CAISO Tariff Appendix DD, the CAISO and PTO agree to the following allocation of responsibilities for a centralized Interconnection Study process under the direction and oversight of the CAISO:

**1. DEFINITIONS**

Unless otherwise defined herein, all capitalized terms shall have the meaning set forth in the CAISO Tariff.

**2. TERM OF AGREEMENT**

This Agreement shall become effective upon the date specified in the first paragraph above and shall remain in effect until (1) terminated by all Parties in writing, or (2) with respect to the PTO, upon the termination of that entity's status as a PTO pursuant to the Transmission Control Agreement, as amended from time to time.

**3. PROVISIONS FOR ALLOCATION OF RESPONSIBILITIES BETWEEN CAISO AND PTO**

**3.1** Interconnection Service: The Parties acknowledge that, as the transmission provider, the CAISO is responsible for reliably operating the transmission grid. The Parties also recognize that while the CAISO is a transmission provider under the CAISO Tariff, the CAISO does not own any transmission facilities, and the PTO owns, constructs, and maintains the facilities to which Generating Facilities are to be interconnected, and that the PTO may construct or modify facilities to allow the interconnection. While the Parties recognize that the CAISO will be responsible for conducting or causing to be performed Interconnection Studies and similar studies, the PTO will participate in these studies and conduct certain portions of studies, under the direction and oversight of, and approval by, the CAISO, as provided in this Agreement. The CAISO shall not enter into any Interconnection Study agreement with an Interconnection Customer that is contrary to these rights.

**3.2** [INTENTIONALLY LEFT BLANK]

**3.3** Transmission Owners' Right to Participation in Studies, Committees and Meetings:

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- 3.3.1** In the event that an Interconnection Customer proposes to interconnect a Generating Facility with the PTO's facilities, or the PTO is an owner of an affected system, the PTO shall have the right to participate in any Interconnection Study or any other study conducted in connection with such request for Interconnection Service. "Participate" in this Section 3.3.1 means physically perform any study or portion thereof in connection with an Interconnection Request, under the direction and oversight of, and approval by, the CAISO pursuant to Section 3.4 of this Agreement; provide or receive input, data or other information regarding any study or portion thereof consistent with Section 3.4 of this Agreement; and, when any study or portion thereof in connection with an Interconnection Request is physically performed by an entity other than the PTO, perform activities necessary to adequately review or validate, as appropriate, any results of the study or portions thereof and provide recommendations.
- 3.3.2** In the event that an Interconnection Customer proposes to interconnect a Generating Facility with the PTO's facilities, or the PTO is an owner of an affected system, the PTO shall have the right to participate in all meetings expressly established pursuant to the CAISO. As appropriate, the PTO may participate in all other material or substantive communications in connection with an Interconnection Request.
- 3.4** Interconnection Study Responsibility Allocation: In complying with its responsibility for conducting or causing to be performed Interconnection Studies, the CAISO will assign responsibility for performance of portions of the Interconnection Studies to the PTO, under the direction and oversight of, and approval by, the CAISO, as set forth in Attachment A, except as specifically qualified as follows:
- 3.4.1** For any tasks specifically assigned to the PTO pursuant to Attachment A or otherwise mutually agreed upon by the CAISO and the PTO, the CAISO reserves the right, on a case-by-case basis, to perform or reassign to a mutually agreed upon and pre-qualified contractor such task only where: (a) the quality and accuracy of prior PTO Interconnection Study work product resulting from assigned tasks has been deemed deficient by the CAISO, the CAISO has notified the PTO pursuant to the notice provision of Section 4.15 of this Agreement in writing of the deficiency, and the deficiency has not been cured pursuant to Section 3.4.2 of this Agreement; (b) the timeliness of PTO Interconnection Study work product has been deemed deficient, and either (i) the CAISO has not been notified of the reasons and actions taken to address the timeliness of the work, or (ii) if notified, the stated reasons and actions taken are insufficient or unjustifiable and the PTO has not cured the deficiency pursuant to Section 3.4.2 of this Agreement; (c) the PTO has failed, in a mutually agreed upon timeframe, to provide the CAISO with information or data related to an Interconnection Request despite a written request by the CAISO, pursuant to Section 3.5 hereof, to do so, and such data is the responsibility of the PTO to provide to the CAISO, subject to Section 4.3 of this Agreement; (d) the PTO advises the CAISO in writing that it does not have the resources to adequately or timely perform the task according to the applicable timelines set forth in Attachment A; or (e) the estimated cost of the PTO performing the task has been determined in writing by the CAISO to significantly exceed the cost of the CAISO or mutually agreed upon contractor performing the task, inclusive of the costs that will be incurred by the PTO in exercising its review rights of the results of any such tasks performed by such third party(ies). If the CAISO deviates from the assignments set forth in Attachment A based on the foregoing factors, the CAISO will provide the PTO with a written explanation for the deviation and any associated reassignments of work. The PTO may contest the deviation pursuant

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to the Dispute Resolution procedures set forth in Section 4.1 of this Agreement.

Task(s) may only be reassigned in accordance with this Section 3.4.1 where the PTO has been deemed to be deficient in relation to that (those) particular task(s).

**3.4.2 Cure for reassigned Interconnection Study work**

The CAISO shall not reassign task(s) without the opportunity to cure, as specified in Section 3.4.1 of this Agreement. The following actions will serve to cure the deficiencies and result in restoring the assignment(s) as provided in Attachment A:

- (a) The CAISO and PTO shall negotiate in good faith and agree to a corrective action plan proposed by the PTO, including a reasonably adequate cure period, and the corrective action plan is satisfactorily implemented.
- (b) The CAISO determines the deficiency is cured without an action plan.

**3.4.3** Assessment of prior PTO Interconnection Study work shall only be based on work conducted under the process that becomes effective concurrent with the effective date of this Agreement. Further, assessment of prior PTO Interconnection Study work shall be based on work conducted no earlier than the eighteen (18) month period prior to the date of the CAISO notice of deviation from assignments set forth in Attachment A to this Agreement.

- 3.5** Information Exchange: The PTO shall provide the CAISO, subject to confidentiality requirements in Section 4.3 of this Agreement, with any documentation or data requested by the CAISO reasonably necessary to permit the CAISO to perform, review, validate and approve any Interconnection Study, or portion thereof, performed by the PTO. The CAISO shall provide the PTO with any documentation or data requested by the PTO, subject to confidentiality requirements in Section 4.3 of this Agreement, reasonably necessary to perform, review, and validate any Interconnection Study, or portion thereof.
- 3.6** Consistency with Provisions for Centralized Interconnection Study Process: The CAISO and PTO have determined that the processes and allocation of responsibilities in Section 3.4 of this Agreement ensure that impacts to the CAISO Controlled Grid are independently assessed and that the assignment of responsibilities minimizes handoffs, takes advantage of non-transferable skills, and promotes the efficiency and cost-effectiveness of the centralized Interconnection Study processes, consistent with Section 3.2.
- 3.7** Re-Studies: If any re-studies are required, the CAISO will confer with the PTO as to the need for a re-study. The CAISO will make the final determination regarding the need for a re-study, subject to dispute resolution procedures.
- 3.8** Use of Contractors: Nothing in this Agreement shall prevent either the CAISO or the PTO from using qualified, mutually agreed upon third party contractors to meet that Party's rights or obligations under this Agreement or the . To promote the efficiency of the process, the CAISO and PTO will collaborate to identify a list of the mutually agreed to qualified contractors available to the Parties.
- 3.9** Performance Standards: Each Party shall perform all of its obligations under the GIDAP, this Agreement, and any FERC approved Interconnection Study procedures that may be adopted by the CAISO to implement the GIDAP or this Agreement in accordance with Applicable Laws and Regulations, Applicable Reliability Standards, and Good Utility Practice.

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- 3.10** Recovery of Costs: In accordance with Section 3.5.1 of the GIDAP, the PTO shall recover all actual costs from the CAISO incurred in performing Interconnection Studies or portions thereof assigned to it by the CAISO, including all costs incurred in exercising its right to review, and make recommendations on, Interconnection Studies or portions thereof performed by the CAISO and/or contractors under Section 3.8 of this Agreement.

**4 GENERAL TERMS AND CONDITIONS**

- 4.1** Dispute Resolution: In the event any dispute regarding the terms, conditions, and performance of this Agreement is not settled informally, the Parties shall follow the CAISO ADR Procedures set forth in Section 13 of the CAISO Tariff.
- 4.2** Liability: No Party to this Agreement shall be liable to any other Party for any direct, indirect, special, incidental or consequential losses, damages, claims, liabilities, costs or expenses (including attorneys fees and court costs) arising from the performance or non-performance of its obligations under this Agreement regardless of the cause (including intentional action, willful action, gross or ordinary negligence, or force majeure); provided, however, that a Party may seek equitable or other non-monetary relief as may be necessary to enforce this Agreement and that damages for which a Party may be liable to another Party under another agreement will not be considered damages under this Agreement.
- 4.3** Confidentiality: Confidential Information shall be treated in accordance with Section 14.1 of the GIDAP.
- 4.4** Binding Effect: This Agreement 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.
- 4.5** Conflicts: In the event of a conflict between the body of this Agreement and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this Agreement shall prevail and be deemed the final intent of the Parties.
- 4.6** Rules of Interpretation: This Agreement, 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 Agreement, 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 Agreement), 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, Attachment, or Appendix means such Article or Section of this Agreement or such Attachment or Appendix to this Agreement, or such Section of the or such Appendix to the , as the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this Agreement as a whole and not to any particular Article or Section; (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".
- 4.7** Entire Agreement: This Agreement, including all Attachments hereto, constitutes the entire agreement among the Parties with reference to the subject matter hereof, and

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

- 4.8** No Third Party Beneficiaries: This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 4.9** Waiver: The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party. Any waiver at any time by a Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Any waiver of this Agreement shall, if requested, be provided in writing. Any waivers at any time by any Party of its rights with respect to any default under this Agreement, or with respect to any other matter arising in connection with this Agreement, shall not constitute or be deemed a waiver with respect to any subsequent default or other matter arising in connection with this Agreement. Any delay, short of the statutory period of limitations, in asserting or enforcing any right under this Agreement shall not constitute or be deemed a waiver of such right.
- 4.10** Headings: The descriptive headings of the various Articles and Sections of this Agreement have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this Agreement.
- 4.11** Multiple Counterparts: This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.
- 4.12** Modification by the Parties: The Parties may amend this Agreement and any Appendices to this Agreement only (1) by mutual agreement of the Parties by a written instrument duly executed by the Parties, subject to FERC approval or (2) upon the issuance of a FERC order, pursuant to Section 206 of the Federal Power Act. It is the Parties' intent that FERC's right to change any provision of this Agreement shall be limited to the maximum extent permissible by law and that any such change, if permissible, shall be in accordance with the Mobile-Sierra public interest standard applicable to fixed rate agreements. *United Gas Pipe Line Co. v. Mobile Gas Service Corp.*, 350 U.S. 332 (1956). Such amendment shall become effective and a part of this Agreement upon satisfaction of all applicable laws and regulations. Notwithstanding the foregoing, Attachment B (Notices) may be modified as set forth in Section 4.15 of this Agreement, and the CAISO and the PTO may from time to time mutually agree to deviate from Attachment A in accordance with the provisions of this Agreement, however, such deviation shall be subject to Section 4.9 of this Agreement and not considered a course of dealing.
- 4.13** No Partnership: This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon 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.
- 4.14** Assignment: This Agreement may be assigned by a Party only with the written consent

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of the other Parties; provided that a Party may assign this Agreement 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 Agreement. Any attempted assignment that violates this Article is void and ineffective. Any assignment under this Agreement 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.

- 4.15** Notices: Any notice, demand, or request provided in this Agreement, or served, given, or made in connection with it, will be in writing and deemed properly served, given, or made if delivered in person, transmitted by facsimile, or sent by United States mail, postage prepaid, to the persons specified in Attachment B hereto unless otherwise provided in this Agreement. Any Party may at any time, by notice to all other Parties, change the designation or address of the person specified in Attachment B as the person who receives notices pursuant to this Agreement.

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

**California Independent System Operator Corporation**

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

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

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

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

**[NAME OF PTO]**

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

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

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

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





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Line	Phase I Cluster Study	Typical Calendar Days	Timeline (Days)
1	CAISO and PTOs develop initial Generating Facility groups for initial Dispatch assumptions and cost allocation purposes (except for thermal overload and short circuit mitigation).	1	1
2	PTOs develop draft Base Cases, each representing all Generating Facilities in the queue cluster, and deliver to CAISO.	14	2-15
3	PTO develops preferred and alternative, if applicable, direct interconnection plans, including the need for an Interconnection Grid Substation (IGS).	14	2-15
4	CAISO reviews and approves direct interconnection plans and change files.	5	16-20
5	CAISO updates deliverability base case. PTOs update reliability base cases. PTOs develop draft contingency lists.	10	21-30
6	CAISO reviews and approves reliability base cases and contingency lists.	5	31-35
7	CAISO performs peak Deliverability Assessment identifying constrained facilities and prepares results summary.	21	36-56
8	At the CAISO's direction, the PTOs perform the off-peak Load Flow, and summer peak and off-peak Post Transient and Stability analyses and submits draft study results to CAISO for review and direction.	21	36-56
9	CAISO and PTOs develop mitigation plans and determine RNU and LDNU	21	57-77
10	CAISO develops deliverability base case with TP upgrades only.	7	78-84
11	CAISO performs deliverability assessment for the purpose of determining incremental ADNUs and proposes ADNU.	21	85-105
12	CAISO and PTOs finalize ADNU.	14	106-119
13	CAISO develops shift factors for cost allocation purposes of all Network Upgrades and usage of previously triggered Network Upgrades.	7	120-126
14	CAISO performs off-peak deliverability assessment.	14	127-140
<b>Short Circuit Duty</b>			
15	CAISO coordinates with other potentially affected facility owners <sup>1</sup> .	n/a	n/a
16	CAISO directs PTO to develop Base Case and run short circuit analysis.	106	21-126
17	PTO performs facilities review. (Note: possibly for feedback into the power flow studies and PTO mitigation plans.)	14	127-140
18	PTO prepares draft study results and submits to the CAISO for review and direction.	14	141-154
<b>Facility cost estimates and schedules</b>			
19	At the CAISO's direction, PTO(s) prepares cost estimates and schedules for the direct assignment	134	21-154

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	PTOs update contingency lists.		
3	CAISO reviews and approves contingency lists.	5	15-19
4	CAISO performs peak Deliverability Assessment identifying constrained facilities and prepares results summary.	21	20-40
5	At the CAISO's direction, the PTOs perform the off-peak Load Flow, and summer peak and off-peak Post Transient and Stability analyses and submit draft study results to CAISO for review and direction.	21	20-40
6	CAISO and PTOs determine RNU and LDNU.	21	41-61
7	CAISO performs peak Deliverability Assessment for Option B projects for the purpose of identifying ADNU.	28	62-89
8	PTOs performs additional reliability assessment with all LDNUs modeled and identify	28	62-89
9	CAISO and PTOs determine ADNU and additional RNU and LDNU.	14	90-103
10	CAISO develops cost allocation table.	7	104-110
11	CAISO performs off-peak Deliverability Assessment.	14	111-124
12	PTOs update short-circuit duty results with all RNU and LDNU.	105	20-124
13	PTOs update short-circuit duty results with ADNU.	21	125-145
14	CAISO performs operational deliverability assessment.	60	111-170
15	PTOs perform operational reliability assessment.	60	111-170
<b>Study Report Including Facility Costs and Schedules</b>			
16	At the CAISO's direction, PTOs prepare detailed cost estimates and schedules for the direct assignment facilities and schedules for RNU and LDNU identified in the overall plan of service and including individual segments.	91	20-110
17	At the CAISO's direction, PTOs prepare draft reports that include detailed cost estimates and schedules for the direct assignment facilities and Network Upgrades identified in the overall plan of service and including individual segments.	131	20-150
18	CAISO reviews draft report and submits comments, recommendations and direction to the PTOs.	14	151-164
19	PTOs incorporate CAISO directions, conclusions and recommendations and add operational assessment conclusions to the draft report. If CAISO conclusions and recommendations conflict with PTO conclusions, then CAISO and PTO must coordinate to resolve conflicts. Any remaining conflicts must be noted in the final report.	21	165-185
20	CAISO finalizes the reports and tenders the reports to IC.	20	186-205

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**ATTACHMENT B**

**CONTACTS FOR NOTICES**

**[Section 4.15]**

**California ISO**

Manager, Transmission Engineering  
250 Outcropping Way  
Folsom, CA 95630  
Phone: 916.351.2104  
Fax: 916.351.2264

**[NAME OF PTO]**

[Address of PTO]

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**Appendix 5**

**Schedule for Release and Review of Per Unit Costs**

**SCHEDULE FOR RELEASE AND REVIEW OF PER UNIT COSTS**

Line	Schedule for the Release and Review of Per Unit Costs	Anticipated Calendar Date(s)
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
	<b>Annual Review, Update, and Posting of Per Unit Costs</b>	
<input type="checkbox"/>	PTOs to review and update their per unit costs.	October – mid-January
<input type="checkbox"/>	PTOs to provide their updated per unit costs to the CAISO for CAISO review and posting to the CAISO Website.	Mid-January
<input type="checkbox"/>	CAISO to review and post the PTO per unit costs to the CAISO Website for stakeholder review.	Third week of January
<input type="checkbox"/>	Provide two weeks for stakeholders to review the posted per unit costs.	Last week of January and first week of February
<input type="checkbox"/>	CAISO to schedule and conduct a one-day stakeholder meeting in February to discuss the posted per unit costs with stakeholders.	Second week of February
<input type="checkbox"/>	Provide two weeks following the scheduled stakeholder meeting for stakeholders to provide comments to the CAISO.	Last two weeks of February
<input type="checkbox"/>	Provide two weeks for CAISO and PTOs to review and address stakeholder comments.	First two weeks of March
<input type="checkbox"/>	Provide three weeks following the stakeholder meeting for PTOs to review, update as needed, and finalize their per unit costs.	First three weeks of March
<input type="checkbox"/>	PTOs to provide their final per unit costs to the CAISO for posting to the CAISO Website.	End of third week of March
<input type="checkbox"/>	CAISO to review and post the PTOs' final per unit costs to the CAISO Website.	Fourth week of March
<input type="checkbox"/>	Final per unit costs are posted and available for use to estimate the costs of Network Upgrades and Interconnection Facilities.	Last week of March to first of April

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**Appendix 6**

**INDEPENDENT STUDY PROCESS STUDY AGREEMENT**

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by and between \_\_\_\_\_, a \_\_\_\_\_ organized and existing under the laws of the State of \_\_\_\_\_, ("Interconnection Customer") and the California Independent System Operator Corporation, a California nonprofit public benefit corporation existing under the laws of the State of California, ("CAISO"). The Interconnection Customer and the CAISO each may be referred to as a "Party," or collectively as the "Parties."

**RECITALS**

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

WHEREAS, the Interconnection Customer desires to interconnect the Generating Facility with the CAISO Controlled Grid pursuant to the Independent Study Process; and

WHEREAS, the Interconnection Customer has requested the CAISO to conduct or cause to be performed Interconnection Studies to assess the system impact of interconnecting the Generating Facility to the CAISO Controlled Grid and to specify and estimate the cost of the equipment, engineering, procurement and construction work needed on the Participating TO's electric system in accordance with Good Utility Practice to physically and electrically connect the Generating Facility to the CAISO Controlled Grid;

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

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in the CAISO's FERC-approved Generation Interconnection Procedures in CAISO Tariff Appendix DD or the Master Definitions Supplement, Appendix A to the CAISO Tariff, as applicable.
- 2.0 The Interconnection Customer elects and the CAISO shall conduct or cause to be performed Interconnection Studies in accordance with the CAISO Tariff.
- 3.0 The scope of the applicable Interconnection Studies shall be subject to the assumptions set forth in Appendices A and B to this Agreement.
- 4.0 The Interconnection Studies will be based upon the technical information provided by the Interconnection Customer in the Interconnection Request, as may be modified as the result of the Scoping Meeting, subject to any modifications in accordance with Section 6.1.2 of the GIDAP and modifications to the proposed Commercial Operation Date of the Generating Facility permitted by the GIDAP. The CAISO reserves the right to request additional technical information from the Interconnection Customer as may reasonably become necessary consistent with Good Utility Practice during the course of the Interconnection Studies. If the Interconnection Customer modifies its designated Point of Interconnection, Interconnection Request, or the technical information provided therein is modified, the Interconnection Studies may be modified as specified in the \_\_\_\_\_.
- 5.0 The Interconnection Study report for each Interconnection Study shall provide the information specified in the GIDAP.
- 6.0 The Interconnection Customer shall provide an Interconnection Study Deposit and other

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Interconnection Financial Security for the performance of the Interconnection Studies in accordance with the provisions of Sections 3.5.1 and 11 of the GIDAP.

Following the issuance of an Interconnection Study report, the CAISO shall charge and the Interconnection Customer shall pay its share of the actual costs of the Interconnection Study pursuant to Section 3.5.1 of the GIDAP.

Any difference between the deposits made toward the Interconnection Study process and associated administrative costs, including any accelerated studies, and the actual cost of the Interconnection Studies and associated administrative costs shall be paid by or refunded to the Interconnection Customer, in the appropriate allocation, in accordance with Section 3.5.1 of the GIDAP.

- 7.0 Pursuant to Section 3.7 of the GIDAP, the CAISO will coordinate the conduct of any studies required to determine the impact of the Interconnection Request on Affected Systems. The CAISO may provide a copy of the system impact and facilities study results to an Affected System Operator and the Western Electricity Coordinating Council. Requests for review and input from Affected System Operators or the Western Electricity Coordinating Council may arrive at any time prior to interconnection.
- 8.0 Substantial portions of technical data and assumptions used to perform the Interconnection Studies, such as system conditions, existing and planned generation, and unit modeling, may change after the CAISO provides the Interconnection Study results to the Interconnection Customer. Interconnection Study results will reflect available data at the time the CAISO provides the system impact and facilities study report to the Interconnection Customer. The CAISO shall not be responsible for any additional costs, including, without limitation, costs of new or additional facilities, system upgrades, or schedule changes, that may be incurred by the Interconnection Customer as a result of changes in such data and assumptions.
- 9.0 The CAISO shall maintain records and accounts of all costs incurred in performing the Interconnection Studies in sufficient detail to allow verification of all costs incurred, including associated overheads. The Interconnection Customer shall have the right, upon reasonable notice, within a reasonable time at the CAISO's offices and at its own expense, to audit the CAISO's records as necessary and as appropriate in order to verify costs incurred by the CAISO. Any audit requested by the Interconnection Customer shall be completed, and written notice of any audit dispute provided to the CAISO representative, within one hundred eighty (180) calendar days following receipt by the Interconnection Customer of the CAISO's notification of the final costs of the Interconnection Study.
- 10.0 In accordance with Section 3.8 of the GIDAP, the Interconnection Customer may withdraw its Interconnection Request at any time by written notice to the CAISO. Upon receipt of such notice, this Agreement shall terminate, subject to the requirements of Sections 3.5.1 and 15.1 of the GIDAP.
- 11.0 This Agreement shall become effective upon the date the fully executed Agreement is received by the CAISO. If the CAISO does not receive the fully executed Agreement and deposit or other Interconnection Financial Security pursuant to Section 3.5.1 of the GIDAP, then the Interconnection Request will be deemed withdrawn upon the Interconnection Customer's receipt of written notice by the CAISO pursuant to Section 3.8 of the GIDAP.
- 12.0 Miscellaneous.
- 12.1 Dispute Resolution. Any dispute, or assertion of a claim, arising out of or in connection

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with this Agreement, shall be resolved in accordance with Section 15.5 of the GIDAP.

- 12.2 Confidentiality. Confidential Information shall be treated in accordance with Section 15.1 of the GIDAP.
- 12.3 Binding Effect. This Agreement 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.
- 12.4 Conflicts. In the event of a conflict between the body of this Agreement and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this Agreement shall prevail and be deemed the final intent of the Parties.
- 12.5 Rules of Interpretation. This Agreement, 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 Agreement, 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 Agreement), 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 or Section of this Agreement or such Appendix to this Agreement, or such Section of the or such Appendix to the , as the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this Agreement as a whole and not to any particular Article, Section, 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".
- 12.6 Entire Agreement. This Agreement, including all Appendices and Schedules attached hereto, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, any Party's compliance with its obligations under this Agreement.
- 12.7 No Third Party Beneficiaries. This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 12.8 Waiver. The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by the Interconnection Customer shall not constitute a waiver

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of the Interconnection Customer's legal rights to obtain an interconnection from the Participating TO or CAISO. Any waiver of this Agreement shall, if requested, be provided in writing.

Any waivers at any time by any Party of its rights with respect to any default under this Agreement, or with respect to any other matter arising in connection with this Agreement, shall not constitute or be deemed a waiver with respect to any subsequent default or other matter arising in connection with this Agreement. Any delay, short of the statutory period of limitations, in asserting or enforcing any right under this Agreement shall not constitute or be deemed a waiver of such right.

- 12.9 Headings. The descriptive headings of the various Articles and Sections of this Agreement have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this Agreement.
- 12.10 Multiple Counterparts. This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.
- 12.11 Amendment. The Parties may by mutual agreement amend this Agreement by a written instrument duly executed by both of the Parties.
- 12.12 Modification by the Parties. The Parties may by mutual agreement amend the Appendices to this Agreement by a written instrument duly executed by both of the Parties. Such amendment shall become effective and a part of this Agreement upon satisfaction of all applicable laws and regulations.
- 12.13 Reservation of Rights. The CAISO shall have the right to make a unilateral filing with FERC to modify this Agreement with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation under section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder, and Interconnection Customer shall have the right to make a unilateral filing with FERC to modify this Agreement 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 Agreement 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.
- 12.14 No Partnership. This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon any Party. No Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, another Party.
- 12.15 Assignment. This Agreement may be assigned by a Party only with the written consent of the other Party; provided that a Party may assign this Agreement without the consent of the other Party 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 Agreement; and provided further that the Interconnection Customer shall have the right to assign this Agreement, without the consent of the other Party, for collateral security purposes to aid in providing financing for the Generating Facility, provided that the Interconnection Customer will require any secured party, trustee or mortgagee to notify the other Party of any such assignment. Any financing arrangement entered into by the Interconnection Customer pursuant to this Section will

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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 other Party of the date and particulars of any such exercise of assignment right(s). Any attempted assignment that violates this Section is void and ineffective. Any assignment under this Agreement 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.

IN WITNESS THEREOF, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

**California Independent System Operator Corporation**

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

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

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

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

**[Insert name of the Interconnection Customer]**

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

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

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

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

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**Appendix A**

**ASSUMPTIONS USED IN CONDUCTING THE  
SYSTEM IMPACT AND FACILITIES STUDY**

The system impact and facilities study will be based upon the information set forth in the Interconnection Request and agreed upon in the Scoping Meeting held on \_\_\_\_\_, subject to any modifications in accordance with Section 6.1.2 of the GIDAP, and the following assumptions:

Designation of Point of Interconnection and configuration to be studied.

Deliverability Status requested (Full Capacity, Partial Capacity, or Energy-Only)

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**Appendix B Data Form, Pre- System Impact and Facilities Study**

**DATA FORM TO BE PROVIDED BY THE INTERCONNECTION CUSTOMER  
PRIOR TO COMMENCEMENT OF THE PHASE II INTERCONNECTION STUDY**

Generating Facility size (MW): \_\_\_\_\_

Provide two copies of this completed form and other required plans and diagrams in accordance with Section 4.5 of the GIDAP.

Provide location plan and one-line diagram of the plant and station facilities. For staged projects, please indicate future generation, transmission circuits, etc.

One set of metering is required for each generation connection to the new bus or existing CAISO Controlled Grid station. Number of generation connections: \_\_\_\_\_

On the one line indicate the generation capacity attached at each metering location. (Maximum load on CT/PT)

On the one line indicate the location of auxiliary power. (Minimum load on CT/PT)

Will an alternate source of auxiliary power be available during CT/PT maintenance?                      Yes  
\_\_\_\_\_ No

Will a transfer bus on the generation side of the metering require that each meter set be designed for the total plant generation?              Yes              No  
(Please indicate on one line).

What type of control system or PLC will be located at the Interconnection Customer's Generating Facility?

\_\_\_\_\_

What protocol does the control system or PLC use?

\_\_\_\_\_

Please provide a 7.5-minute quadrangle of the site. Sketch the plant, station, transmission line, and property line.

Physical dimensions of the proposed interconnection station:

Bus length from generation to interconnection station:

Line length from interconnection station to the Participating TO's transmission line.

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

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Number of third party easements required for transmission lines\*:

\* To be completed in coordination with the Participating TO or CAISO.

Is the Generating Facility in the Participating TO's service area?

Yes      No

Local service provider for auxiliary and other power: \_\_\_\_\_

Please provide proposed schedule dates:

Environmental survey start: \_\_\_\_\_

Environmental impact report submittal: \_\_\_\_\_

Procurement of project equipment: \_\_\_\_\_

Begin Construction Date: \_\_\_\_\_

In-Service Date: \_\_\_\_\_

Trial Operation Date: \_\_\_\_\_

Commercial Operation Date: \_\_\_\_\_

Level of Deliverability Status: Choose one of the following:

\_\_\_\_\_ Energy-Only

\_\_\_\_\_ Full Capacity

\_\_\_\_\_ Partial Capacity (expressed in fraction of Full Capacity)

Off-Peak Deliverability Status: Choose one of the following:

\_\_\_\_\_ Off-Peak Deliverable

\_\_\_\_\_ Off-Peak Energy Only

Please provide any additional modification request pursuant to Section 6.7.2.2 of Appendix DD.

**Appendix 7**

**Application, Procedures, and Terms and Conditions for  
Interconnecting a Certified Inverter-Based Small Generating Facility  
No Larger than 10 kW (“10 kW Inverter Process”)**

- 1.0 The Interconnection Customer (“Customer”) completes the Interconnection Request (“Application”) and submits it to the Participating TO (“Company”).
- 2.0 The Company acknowledges to the Customer receipt of the Application within three Business Days of receipt.
- 3.0 The Company evaluates the Application for completeness and notifies the Customer within ten Business Days of receipt that the Application is or is not complete and, if not, advises what material is missing.
- 4.0 The Company verifies that the Small Generating Facility can be interconnected safely and reliably using the screens contained in the Fast Track Process in the Generator Interconnection and Deliverability Allocation Procedures (GIDAP). The Company has 15 Business Days to complete this process. Unless the Company determines and demonstrates that the Small Generating Facility cannot be interconnected safely and reliably, the Company approves the Application and returns it to the Customer. Note to Customer: Please check with the Company before submitting the Application if disconnection equipment is required.
- 5.0 After installation, the Customer returns the Certificate of Completion to the Company. Prior to parallel operation, the Company may inspect the Small Generating Facility for compliance with standards which may include a witness test, and may schedule appropriate metering replacement, if necessary.
- 6.0 The Company notifies the Customer in writing that interconnection of the Small Generating Facility is authorized. If the witness test is not satisfactory, the Company has the right to disconnect the Small Generating Facility. The Customer has no right to operate in parallel until a witness test has been performed, or previously waived on the Application. The Company is obligated to complete this witness test within ten Business Days of the receipt of the Certificate of Completion. If the Company does not inspect within ten Business Days or by mutual agreement of the Parties, the witness test is deemed waived.
- 7.0 Contact Information – The Customer must provide the contact information for the legal applicant (i.e., the Interconnection Customer). If another entity is responsible for interfacing with the Company, that contact information must be provided on the Application.
- 8.0 Ownership Information – Enter the legal names of the owner(s) of the Small Generating Facility. Include the percentage ownership (if any) by any utility or public utility holding company, or by any entity owned by either.
- 9.0 UL1741 Listed – This standard (“Inverters, Converters, and Controllers for Use in Independent Power Systems”) addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL1741. This “listing” is then marked on the equipment and supporting documentation.

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**Application for Interconnecting a Certified Inverter-Based Small Generating Facility No Larger than 10kW**

This Application is considered complete when it provides all applicable and correct information required below. Additional information to evaluate the Application may be required.

Processing Fee

A non-refundable processing fee of \$100 must accompany this Application.

Interconnection Customer

Name: \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Fax: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Contact (if different from Interconnection Customer)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Fax: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Owner of the facility (include % ownership by any electric utility): \_\_\_\_\_

Small Generating Facility Information

Location (if different from above): \_\_\_\_\_  
Electric Service Company: \_\_\_\_\_  
Account Number: \_\_\_\_\_  
Inverter Manufacturer: \_\_\_\_\_ Model \_\_\_\_\_  
Nameplate Rating: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_ (AC Volts) \_\_\_\_\_  
Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_  
System Design Capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_  
Prime Mover: Photovoltaic Reciprocating Engine Fuel Cell  
Turbine Other \_\_\_\_\_  
Energy Source: Solar Wind Hydro Diesel Natural Gas  
Fuel Oil Other (describe) \_\_\_\_\_  
Is the equipment UL1741 Listed? \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
If Yes, attach manufacturer's cut-sheet showing UL1741 listing

Estimated Installation Date: \_\_\_\_\_ Estimated In-Service Date: \_\_\_\_\_



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The 10 kW Inverter Process is available only for inverter-based Small Generating Facilities no larger than 10 kW that meet the codes, standards, and certification requirements of Appendices 9 and 10 of the Generator Interconnection Procedures (), or the Participating TO has reviewed the design or tested the proposed Small Generating Facility and is satisfied that it is safe to operate.

List components of the Small Generating Facility equipment package that are currently certified:

	Equipment Type	Certifying Entity
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

Interconnection Customer Signature

I hereby certify that, to the best of my knowledge, the information provided in this Application is true. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than 10kW and return the Certificate of Completion when the Small Generating Facility has been installed.

Signed: \_\_\_\_\_

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

Contingent Approval to Interconnect the Small Generating Facility

(For Company use only)

Interconnection of the Small Generating Facility is approved contingent upon the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than 10kW and return of the Certificate of Completion.

Company Signature: \_\_\_\_\_

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

Application ID number: \_\_\_\_\_

Company waives inspection/witness test? Yes\_\_\_ No\_\_\_

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**Small Generating Facility Certificate of Completion**

Is the Small Generating Facility owner-installed? Yes \_\_\_\_\_ No \_\_\_\_\_

Interconnection Customer: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

Location of the Small Generating Facility (if different from above):

\_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

Fax: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Electrician:

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

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

Fax: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

License number: \_\_\_\_\_

Date Approval to Install Facility granted by the Company: \_\_\_\_\_

Application ID number: \_\_\_\_\_

Inspection:

The Small Generating Facility has been installed and inspected in compliance with the local building/electrical code of \_\_\_\_\_

Signed (Local electrical wiring inspector, or attach signed electrical inspection):

\_\_\_\_\_

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

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

As a condition of interconnection, you are required to send/fax a copy of this form along with a copy of the signed electrical permit to (insert Company information below):

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

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP: \_\_\_\_\_

Fax: \_\_\_\_\_

Approval to Energize the Small Generating Facility (For Company use only)  
Energizing the Small Generating Facility is approved contingent upon the Terms and Conditions for  
Interconnecting an Inverter-Based Small Generating Facility No Larger than 10kW

Company Signature: \_\_\_\_\_

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

**Terms and Conditions for Interconnecting an Inverter-Based  
Small Generating Facility No Larger than 10kW**

**1.0 Construction of the Facility**

The Interconnection Customer (the "Customer") may proceed to construct (including operational testing not to exceed two hours) the Small Generating Facility when the Participating TO (the "Company") approves the Interconnection Request (the "Application") and returns it to the Customer.

**2.0 Interconnection and Operation**

The Customer may operate Small Generating Facility and interconnect with the Company's electric system once all of the following have occurred:

- 2.1 Upon completing construction, the Customer will cause the Small Generating Facility to be inspected or otherwise certified by the appropriate local electrical wiring inspector with jurisdiction, and
- 2.2 The Customer returns the Certificate of Completion to the Company, and
- 2.3 The Company has either:
  - 2.3.1 Completed its inspection of the Small Generating Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes. All inspections must be conducted by the Company, at its own expense, within ten Business Days after receipt of the Certificate of Completion and shall take place at a time agreeable to the Parties. The Company shall provide a written statement that the Small Generating Facility has passed inspection or shall notify the Customer of what steps it must take to pass inspection as soon as practicable after the inspection takes place; or
  - 2.3.2 If the Company does not schedule an inspection of the Small Generating Facility within ten business days after receiving the Certificate of Completion, the witness test is deemed waived (unless the Parties agree otherwise); or
  - 2.3.3 The Company waives the right to inspect the Small Generating Facility.
- 2.4 The Company has the right to disconnect the Small Generating Facility in the event of improper installation or failure to return the Certificate of Completion.
- 2.5 Revenue quality metering equipment must be installed and tested in accordance with applicable ANSI standards.

**3.0 Safe Operations and Maintenance**

The Customer shall be fully responsible to operate, maintain, and repair the Small Generating Facility as required to ensure that it complies at all times with the interconnection standards to which it has been certified.

**4.0 Access**

The Company shall have access to the disconnect switch (if the disconnect switch is required) and metering equipment of the Small Generating Facility at all times. The Company shall provide reasonable notice to the Customer when possible prior to using its right of access.

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**5.0 Disconnection**

The Company may temporarily disconnect the Small Generating Facility upon the following conditions:

- 5.1 For scheduled outages upon reasonable notice.
- 5.2 For unscheduled outages or emergency conditions.
- 5.3 If the Small Generating Facility does not operate in the manner consistent with these Terms and Conditions.
- 5.4 The Company shall inform the Customer in advance of any scheduled disconnection, or as is reasonable after an unscheduled disconnection.

**6.0 Indemnification**

The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inactions of its obligations under this agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

**7.0 Insurance**

The Parties each agree to maintain commercially reasonable amounts of insurance.

**8.0 Limitation of Liability**

Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever, except as allowed under paragraph 6.0.

**9.0 Termination**

The agreement to operate in parallel may be terminated under the following conditions:

- 9.1 By the Customer  
By providing written notice to the Company.
- 9.2 By the Company  
If the Small Generating Facility fails to operate for any consecutive 12-month period or the Customer fails to remedy a violation of these Terms and Conditions.
- 9.3 Permanent Disconnection

In the event this Agreement is terminated, the Company shall have the right to disconnect its facilities or direct the Customer to disconnect its Small Generating Facility.

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9.4 Survival Rights

This Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arose under the Agreement.

**10.0 Assignment/Transfer of Ownership of the Facility**

This Agreement shall survive the transfer of ownership of the Small Generating Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.

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**Appendix 8**

**[intentionally omitted]**

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**Appendix 9**

**Certification Codes and Standards**

IEEE1547 Standard for Interconnecting Distributed Resources with Electric Power Systems (including use of IEEE 1547.1 testing protocols to establish conformity)

UL 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems

IEEE Std 929-2000 IEEE Recommended Practice for Utility Interface of Photovoltaic (PV) Systems

NFPA 70 (2002), National Electrical Code

IEEE Std C37.90.1-1989 (R1994), IEEE Standard Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems

IEEE Std C37.90.2 (1995), IEEE Standard Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers

IEEE Std C37.108-1989 (R2002), IEEE Guide for the Protection of Network Transformers

IEEE Std C57.12.44-2000, IEEE Standard Requirements for Secondary Network Protectors

IEEE Std C62.41.2-2002, IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits

IEEE Std C62.45-1992 (R2002), IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000V and Less) AC Power Circuits

ANSI C84.1-1995 Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)

IEEE Std 100-2000, IEEE Standard Dictionary of Electrical and Electronic Terms

NEMA MG 1-1998, Motors and Small Resources, Revision 3

IEEE Std 519-1992, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems

NEMA MG 1-2003 (Rev 2004), Motors and Generators, Revision 1



**Appendix 10**

**Certification of Small Generator Equipment Packages**

- 1.0 Small Generating Facility equipment proposed for use separately or packaged with other equipment in an interconnection system shall be considered certified for interconnected operation if (1) it has been tested in accordance with industry standards for continuous utility interactive operation in compliance with the appropriate codes and standards referenced below by any Nationally Recognized Testing Laboratory (NRTL) recognized by the United States Occupational Safety and Health Administration to test and certify interconnection equipment pursuant to the relevant codes and standards listed in Appendix 9, (2) it has been labeled and is publicly listed by such NRTL at the time of the interconnection application, and (3) such NRTL makes readily available for verification all test standards and procedures it utilized in performing such equipment certification, and, with consumer approval, the test data itself. The NRTL may make such information available on its website and by encouraging such information to be included in the manufacturer's literature accompanying the equipment.
- 2.0 The Interconnection Customer must verify that the intended use of the equipment falls within the use or uses for which the equipment was tested, labeled, and listed by the NRTL.
- 3.0 Certified equipment shall not require further type-test review, testing, or additional equipment to meet the requirements of this interconnection procedure; however, nothing herein shall preclude the need for an on-site commissioning test by the parties to the interconnection nor follow-up production testing by the NRTL.
- 4.0 If the certified equipment package includes only interface components (switchgear, inverters, or other interface devices), then an Interconnection Customer must show that the generator or other electric source being utilized with the equipment package is compatible with the equipment package and is consistent with the testing and listing specified for this type of interconnection equipment.
- 5.0 Provided the generator or electric source, when combined with the equipment package, is within the range of capabilities for which it was tested by the NRTL, and does not violate the interface components' labeling and listing performed by the NRTL, no further design review, testing or additional equipment on the customer side of the point of common coupling shall be required to meet the requirements of this interconnection procedure.
- 6.0 An equipment package does not include equipment provided by the utility.
- 7.0 Any equipment package approved and listed in a state by that state's regulatory body for interconnected operation in that state prior to the effective date of these small generator interconnection procedures shall be considered certified under these procedures for use in that state.

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**APPENDIX 11**

**[Not Used]**

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