

12. Creditworthiness

12.1 Credit Requirements

The creditworthiness requirements in this section apply to the CAISO's acceptance of, any transaction in a CAISO Market, to the payment of charges pursuant to the CAISO Tariff (including the Grid Management Charge), and to establish credit limits for participation in any CAISO auction of CRRs and to CRR Holders for the holding of CRRs. Each Market Participant (including each Scheduling Coordinator, UDC, MSS, CRR Holder, or Candidate CRR Holder) shall secure its financial transactions with the CAISO (including its participation in any auction of CRRs and for the holding of CRRs) by maintaining an Unsecured Credit Limit and/or by posting Financial Security, the level of which constitutes the Market Participant's Financial Security Amount. For each Market Participant, the sum of its Unsecured Credit Limit and its Financial Security Amount shall represent its Aggregate Credit Limit. Each Market Participant shall have the responsibility to maintain an Aggregate Credit Limit that is at least equal to its Estimated Aggregate Liability.

12.1.1 Unsecured Credit Limit

Each Market Participant requesting an Unsecured Credit Limit shall submit an application to the CAISO in the form specified on the CAISO Website. The CAISO shall determine the Unsecured Credit Limit for each Market Participant in accordance with the procedures set forth in the applicable Business Practice Manual. The maximum Unsecured Credit Limit for any Market Participant shall be \$50 million. In accordance with the procedures described in the applicable Business Practice Manual, each Market Participant requesting or maintaining an Unsecured Credit Limit is required to submit to the CAISO or its agent financial statements and other information related to its overall financial health as directed by the CAISO. Each Market Participant is responsible for the timely submission of its latest financial statements as well as other information, including but not limited to information concerning all entities that are Affiliates or become Affiliates, that may be reasonably necessary for the CAISO to conduct its evaluation. The CAISO shall determine the Unsecured Credit Limit for each Market Participant as described in Sections 12.1.1.1, 12.1.1.1.1, and 12.1.1.1.2.

As a result of the CAISO's credit evaluation, a Market Participant may be given an Unsecured Credit Limit by the CAISO or denied an Unsecured Credit Limit with the CAISO. Following the initial application

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

and the establishment of an Unsecured Credit limit, the CAISO will review each Market Participant's Unsecured Credit Limit on a quarterly basis, unless that entity does not prepare quarterly statements, in which case the review will occur on an annual basis, and no entity shall be required to submit a new application. In addition, the CAISO may review the Unsecured Credit Limit for any Market Participant whenever the CAISO becomes aware of information that could indicate a Material Change in Financial Condition. In the event the CAISO determines that the Unsecured Credit Limit of a Market Participant must be reduced as a result of a subsequent review, the CAISO shall notify the Market Participant of the reduction, and shall, upon request, also provide the Market Participant with a written explanation of why the reduction was made.

12.1.1.1 Unsecured Credit Limit Calculation

An Unsecured Credit Limit (UCL) for each Market Participant that is a Rated or Unrated Public/Private Corporation, a Rated or Unrated Governmental Entity, or a Local Publicly Owned Electric Utility and that requests an Unsecured Credit Limit is calculated as follows:

1. For each Rated Public/Private Corporation, the Unsecured Credit Limit is the lesser of \$50 million or an amount equal to the Market Participant's Tangible Net Worth multiplied by a calculated percentage of Tangible Net Worth. The Tangible Net Worth percentage is comprised of fifty percent (50%) of the Market Participant's lowest credit agency issuer rating and fifty percent (50%) of the Moody's KMV Equivalent Rating, if reasonably applicable. If a Moody's KMV Equivalent Rating is not reasonably applicable, the Tangible Net Worth percentage is comprised of one hundred percent (100%) of the Market Participant's lowest credit agency issuer rating.
2. For each Unrated Public/Private Corporation, the Unsecured Credit Limit is the lesser of \$50 million or an amount equal to the Market Participant's Tangible Net Worth multiplied by a calculated percentage of Tangible Net Worth. The Tangible Net Worth percentage is comprised of one hundred percent (100%) of the Moody's KMV Equivalent Rating.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

3. For each Rated Governmental Entity, the Unsecured Credit Limit is the lesser of \$50 million or an amount equal to the Market Participant's Net Assets multiplied by a calculated percentage of Net Assets. The Net Assets percentage is comprised of one hundred percent (100%) of the Market Participant's lowest credit agency issuer rating.
4. (a) For each Unrated Governmental Entity other than one that receives appropriations from the federal government or a state government, the Unsecured Credit Limit is the lesser of \$50 million or an amount equal to a specified percentage of the Market Participant's Net Assets if the Market Participant has a minimum of \$25 million in Net Assets and its Times Interest Earned, Debt Service Coverage and Equity to Assets ratios (as those ratios are defined in the applicable Business Practice Manual) meet or exceed minimums specified in the applicable Business Practice Manual.

(b) For each Unrated Governmental Entity that receives appropriations from the federal government or a state government, the Unsecured Credit Limit is the lesser of \$50 million or the amount appropriated by the federal or relevant state government for the purpose of procuring Energy and Energy-related products and services for the applicable fiscal year. The Unrated Governmental Entity seeking to establish an Unsecured Credit Limit pursuant to this section shall provide documentation establishing its annual appropriations.
5. A Local Publicly Owned Electric Utility with a governing body having ratemaking authority that has submitted an application for an Unsecured Credit Limit shall be entitled to an Unsecured Credit Limit of \$1 million without regard to its Net Assets. Such Local Publicly Owned Electric Utility shall be entitled to request an Unsecured Credit Limit based on Net Assets as provided in Section 12.1.1.1(3) or 12.1.1.1(4) in order to establish an Unsecured Credit Limit as the greater of \$1 million or the amount determined as provided in this Section 12.1.1.1(5). A public entity that is not a Local Publicly Owned Electric Utility is not entitled to an

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Unsecured Credit Limit of \$1 million under this Section 12.1.1.1(5) but may seek to establish an Unsecured Credit Limit as provided in any other provision of the CAISO Tariff that may apply.

Public entities, including Local Publicly Owned Electric Utilities, that operate through a Joint Powers Agreement, or a similar agreement acceptable to the CAISO with the same legal force and effect, shall be entitled to aggregate or assign their Unsecured Credit Limits subject to the following limitations and requirements. A public entity that is a party to a Joint Powers Agreement or similar agreement and that is also participating independently in the CAISO Markets with an established Unsecured Credit Limit shall not be entitled to assign or aggregate any portion of its Unsecured Credit Limit that the public entity is using to support financial liabilities associated with its individual participation in the CAISO Markets. A Local Publicly Owned Electric Utility that operates through a Joint Powers Authority or similar agreement that desires to aggregate a portion of its Unsecured Credit Limit that is equal to or less than \$1 million with one or more other Local Publicly Owned Electric Utilities that operate through that Joint Powers Agreement or similar agreement or to assign a portion of its Unsecured Credit Limit that is equal to or less than \$1 million to the Joint Powers Authority shall be entitled to do so. A Local Publicly Owned Electric Utility that operates through a Joint Powers Agreement or similar agreement that desires to aggregate its Unsecured Credit Limit with one or more other Local Publicly Owned Electric Utilities that operate through that Joint Powers Agreement or similar agreement or to assign a portion of its Unsecured Credit Limit to the Joint Powers Authority that exceeds \$1 million, and any public entity that is not a Local Publicly Owned Electric Utility that operates through a Joint Powers Agreement or similar agreement that desires to aggregate its Unsecured Credit Limit with one or more other Local Publicly Owned Electric Utilities that operate through that Joint Powers Agreement or similar agreement or to assign any portion of its

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Unsecured Credit Limit to the Joint Powers Authority, shall provide documentation that is acceptable to the CAISO and that demonstrates the Local Publicly Owned Electric Utility or public entity will assume responsibility for the financial liabilities of the Joint Powers Authority associated with the assigned or aggregated portion of the Unsecured Credit Limit. Such documentation may include a guaranty or similar instrument acceptable to the CAISO.

Unsecured Credit Limits established pursuant to this Section 12.1.1.1 shall be subject to the CAISO's consideration of the same qualitative factors that apply to all Market Participants as set forth in Section 12.1.1.2 and, accordingly, the CAISO may adjust their Unsecured Credit Limits pursuant to Section 12.1.1.

12.1.1.1.1 Maximum Percentage of Tangible Net Worth and Net Assets

For Rated and Unrated Public/Private Corporations or Rated Governmental Entities, the maximum percentage of Tangible Net Worth or Net Assets is 7.5 percent (7.5%) for the highest quality firms; that is, those Market Participants who maintain the highest Moody's KMV Equivalent Rating and/or highest credit agency issuer rating. The percentage of Tangible Net Worth or Net Assets that a Market Participant qualifies for will be reduced as its credit risk increases as determined by having a lower Moody's KMV Equivalent Rating and/or lower credit agency issuer rating.

For Unrated Governmental Entities, the CAISO may provide an Unsecured Credit Limit of up to five percent (5%) of Net Assets.

With respect to either of these potential maximum percentages, a lesser amount of unsecured credit may be granted if the CAISO becomes aware of information related to a Material Change in Financial Condition or other significant information that presents a significant risk to the creditworthiness of the entity.

12.1.1.1.2 Unsecured Credit Limit Calculation Steps

A six-step process is used to determine Unsecured Credit Limits for Market Participants that are Rated Public/Private Corporations, Unrated Public/Private Corporations, and Rated Governmental Entities.

Step 1 – If the Market Participant has a credit rating(s) from one or more of the Nationally Recognized Statistical Rating Organizations, verify the rating(s) with the

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

appropriate organization. Regardless of the number of ratings available, the lowest rating will be used for purposes of determining the percentage of Tangible Net Worth or Net Assets.

Step 2 – Obtain the Market Participant’s Moody’s KMV Equivalent Rating.

Step 3 – Calculate the percentage of Tangible Net Worth or Net Assets based on the entity type as described in Section 12.1.1.1.

Step 4 – Calculate the Market Participant’s Tangible Net Worth or Net Assets.

(a) Tangible Net Worth for Rated or Unrated Public/Private Corporations equals total assets minus assets (net of any matching liabilities, assuming the result is a positive value) the CAISO reasonably believes to be restricted or potentially unavailable to settle a claim in the event of a default (examples include restricted assets and Affiliate assets) minus intangible assets (i.e., those assets not having a physical existence such as patents, trademarks, franchises, intellectual property, and goodwill) minus derivative assets (net of any matching liabilities, assuming the result is a positive value) minus total liabilities.

(b) Net Assets for Rated Governmental Entities equals total assets minus assets (net of any matching liabilities, assuming the result is a positive value) the CAISO reasonably believes to be restricted or potentially unavailable to settle a claim in the event of a default (examples include restricted assets) minus total liabilities.

Step 5 – Calculate the Market Participant’s intermediate Unsecured Credit Limit.

(a) $\text{intermediate Unsecured Credit Limit} = \text{Tangible Net Worth} * \text{percentage of Tangible Net Worth for Rated or Unrated Public/Private Corporations}$

(b) $\text{intermediate Unsecured Credit Limit} = \text{Net Assets} * \text{percentage of Net Assets for Rated Governmental Entities}$

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Step 6 – Adjust the intermediate Unsecured Credit Limit downward, if warranted based on the CAISO’s review of qualitative and quantitative credit strength indicators in Section 12.1.1.2.

- (a) Final Unsecured Credit Limit = intermediate Unsecured Credit Limit from Step 5 * (0 - 100%)

12.1.1.2 Credit Strength Indicators

In determining a Market Participant’s Unsecured Credit Limit, the CAISO may rely on information gathered from financial reporting agencies, the general/financial/energy press, and provided by the Market Participant to assess its overall financial health and its ability to meet its financial obligations.

Information considered by the CAISO in this process may include the following qualitative factors:

- (a) Applicant’s history;
- (b) Nature of organization and operating environment;
- (c) Management;
- (d) Contractual obligations;
- (e) Governance policies;
- (f) Financial and accounting policies;
- (g) Risk management and credit policies;
- (h) Market risk including price exposures, credit exposures and operational exposures;
- (i) Event risk;
- (j) The state or local regulatory environment; and
- (k) Affiliate disclosure information provided pursuant to this CAISO Tariff, including Sections 4.14.2.1, 12.1.1, 39.9, and/or 39.11.1.

Material negative information in these areas may result in a reduction of up to one hundred percent (100%) in the Unsecured Credit Limit that would otherwise be granted based on the six-step process described in Section 12.1.1.1. A Market Participant, upon request, will be provided a written analysis as to how the provisions in Section 12.1.1.1 and this section were applied in setting its Unsecured Credit Limit.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

12.1.1.3 Financial Statements

Market Participants requesting unsecured credit are required to provide financial statements so that a credit review can be completed. Based on availability, the Market Participant must submit a financial statement for the most recent financial quarter, as well as audited financial statements for the most recent three fiscal years, or the period of existence of the Market Participant, if shorter, to the CAISO or the CAISO's designee. If audited financial statements are not available, financial statements, as described below, should be submitted, signed and attested to by an officer of the Market Participant as a fair representation of the financial condition of the Market Participant in accordance with generally accepted accounting principles. The information should include, but is not limited to, the following:

- (a) If publicly traded:
 - (i) Annual and quarterly reports on Form 10-K and Form 10-Q, respectively
 - (ii) Form 8-K reports, if any
- (b) If privately held or governmentally owned:
 - (i) Management's discussion & analysis (if available)
 - (ii) Report of independent accountants (if available)
 - (iii) Financial statements, including:
 - Balance sheet
 - Income statement
 - Statement of cash flows
 - Statement of stockholder's equity
 - (iv) Notes to financial statements

If the above information is available electronically on the internet, the Market Participant may indicate in written or electronic communication where such statements are located for retrieval by the CAISO or the CAISO's designee.

12.1.1.4 Determination of Unsecured Credit Limits for Affiliates

If any Market Participant requesting or maintaining an Unsecured Credit Limit is affiliated with one or more other entities subject to the credit requirements of this Section 12, the CAISO may consider the overall creditworthiness and financial condition of such Affiliates when determining the applicable

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Unsecured Credit Limit. The CAISO may determine that the maximum Unsecured Credit Limit specified in Section 12.1.1 applies to the combined activity of such Affiliates. In the event the CAISO determines that the maximum Unsecured Credit Limit applies to the combined activity of the Affiliates and the Market Participant, the CAISO shall inform the Market Participant in writing.

12.1.1.5 Notification of Material Change in Financial Condition

Each Market Participant shall notify the CAISO in writing of a Material Change in Financial Condition, within five (5) Business Days of when the Material Change in Financial Condition is known or reasonably should be known by the Market Participant. The provision to the CAISO of a copy of a Form 10-K, Form 10-Q, or Form 8-K filed with the U.S. Securities and Exchange Commission shall satisfy the requirement of notifying the CAISO of such Material Change in Financial Condition. Alternatively, the Market Participant may direct the CAISO to the location of the information on their company website or the website of the U.S. Securities & Exchange Commission.

12.1.2 Financial Security And Financial Security Amount

A Market Participant that does not have an Unsecured Credit Limit, or that has an Unsecured Credit Limit that is less than its Estimated Aggregate Liability, shall post Financial Security that is acceptable to the CAISO and that is sufficient to ensure that its Aggregate Credit Limit (i.e., the sum of its Unsecured Credit Limit and Financial Security Amount) is equal to or greater than its Estimated Aggregate Liability. The Financial Security posted by a Market Participant may be any combination of the following types of Financial Security provided in favor of the CAISO and notified to the CAISO under Section 12.3:

- (a) an irrevocable and unconditional letter of credit issued by a bank or financial institution that is reasonably acceptable to the CAISO;
- (b) an irrevocable and unconditional surety bond issued by an insurance company that is reasonably acceptable to the CAISO;
- (c) an unconditional and irrevocable guaranty issued by a company that is reasonably acceptable to the CAISO;
- (d) a cash deposit standing to the credit of the CAISO in an interest-bearing escrow account maintained at a bank or financial institution that is reasonably acceptable to the CAISO;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (e) a certificate of deposit in the name of the CAISO issued by a bank or financial institution that is reasonably acceptable to the CAISO;
- (f) a payment bond certificate in the name of the CAISO issued by a bank or financial institution that is reasonably acceptable to the CAISO; or
- (g) a prepayment to the CAISO.

Financial Security instruments as listed above shall be in such form as the CAISO may reasonably require from time to time by notice to Market Participants, or in such other form as has been evaluated and approved as reasonably acceptable by the CAISO. The CAISO shall publish and maintain standardized forms related to the types of Financial Security listed above on the CAISO Website. The CAISO shall require the use of standardized forms of Financial Security to the greatest extent possible.

12.1.2.1 Additional Procedures Regarding Certain Types of Financial Security

- (a) Unconditional and irrevocable guaranties: In those cases where a Market Participant is a subsidiary or Affiliate of another entity and would like to utilize the consolidated financial statements and other relevant information of that entity for obtaining credit, a signed corporate guaranty is required. A guarantor would be considered reasonably acceptable and a corresponding Financial Security Amount would be set based on the guarantor's credit evaluation according to the same procedures that apply to the credit evaluation of a Market Participant.
- (b) Cash deposits standing to the credit of the CAISO in interest-bearing escrow accounts: Interest on a cash deposit standing to the credit of the CAISO in an interest-bearing escrow account will accrue to the Market Participant's benefit and will be added to the Market Participant's prepayment account on a monthly basis. Should a Market Participant become delinquent in payments, the Market Participant's outstanding account balance will be satisfied using deposited funds. The Market Participant must take care to replenish used funds to ensure that its Aggregate Credit Limit continues to exceed its Estimated Aggregate Liability.
- (c) Prepayments to the CAISO: Prepayments to the CAISO will be held in an interest-bearing account or another investment acceptable to the Market

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Participant and the CAISO, and interest on the investment will accrue at the rate as provided for in the investment. Interest will accrue to the Market Participant's benefit and will be added to the Market Participant's prepayment account on a monthly basis. Due to the additional administrative effort involved in tracking and posting interest on such prepayments, the use of this option is not encouraged.

12.1.2.2 Process for Evaluating Requests to Use Non-Standardized Forms of Financial Security

A Market Participant that seeks permission to use a form for Financial Security other than one or more of the standardized forms posted on the CAISO Website shall seek such permission in a written request to the CAISO that explains the basis for the use of such non-standardized form. The CAISO shall have ten (10) Business Days from receipt of such request to evaluate it and determine whether it will be approved as reasonably acceptable. If the CAISO does not respond to such request within the ten (10) Business Day period, the request shall be deemed to have been denied. Until and unless the CAISO approves the use of a non-standardized form for Financial Security, the Market Participant that submitted such request shall be required to use one of the standardized forms for Financial Security described in this Section

12.1.2.

12.1.2.3 Expiration of Financial Security

Each Market Participant shall ensure that the financial instruments it uses for the purpose of providing Financial Security will not expire and thereby cause the Market Participant's Aggregate Credit Limit to fall below the Market Participant's Estimated Aggregate Liability. The CAISO will treat a financial instrument that does not have an automatic renewal provision and that is not renewed or replaced within seven (7) days of its date of expiration as being out of compliance with the standards for Financial Security contained in this Section 12 and will deem the value of such financial instrument to be zero, and will draw upon such Financial Security prior to its stated expiration if deemed necessary by the CAISO.

12.1.2.4 Risk of Loss of Financial Security Amounts Held and Invested by the CAISO

In accordance with the CAISO's investment policy, the CAISO will invest each Financial Security Amount of a Market Participant only in bank accounts, money market accounts, and/or U.S. Treasury/Agency securities unless a specific written request is received from the Market Participant for a different type of investment and the CAISO provides its written consent to such alternative investment. A Market

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Participant that provides a Financial Security Amount that is held and invested by the CAISO on behalf of the Market Participant will bear all risks that such Financial Security Amount will incur a loss of principal and/or interest as a result of the CAISO's investment of such Financial Security Amount.

12.1.3 Estimated Aggregate Liability

The CAISO will periodically calculate the Estimated Aggregate Liability of each Market Participant, based on all charges and settlement amounts for which such Market Participant is liable or reasonably anticipated by the CAISO to be liable for pursuant to the CAISO Tariff. The Estimated Aggregate Liability for each Market Participant shall be determined and applied by the CAISO consistent with the procedures set forth in the applicable Business Practice Manual. The CAISO shall upon request provide each Market Participant with information concerning the basis for the CAISO's determination of its Estimated Aggregate Liability, and the CAISO's determination may be disputed in accordance with the procedures set forth in the applicable Business Practice Manual. The CAISO shall compare each Market Participant's Estimated Aggregate Liability against its Aggregate Credit Limit on a periodic basis.

12.1.3.1 Calculation of Estimated Aggregate Liability

12.1.3.1.1 Calculation of the EAL Amount

Except as described in Section 12.1.3.1.2, the CAISO shall use the method described in this Section 12.1.3.1.1 to calculate each Market Participant's Estimated Aggregate Liability (EAL). The Estimated Aggregate Liability represents the amount owed to the CAISO for all unpaid obligations, specifically, the obligations for the number of Trading Days outstanding at a given time based on the CAISO's Payments Calendar plus five (5) Trading Days based on the allowable period for Market Participants to respond to CAISO requests for additional Financial Security collateral (three (3) Business Days), and other liabilities including the value of a Market Participant's CRR portfolio, if negative. The charges the CAISO shall use to calculate Estimated Aggregate Liability shall be charges described or referenced in the CAISO Tariff. The CAISO shall calculate the Estimated Aggregate Liability for each Market Participant by aggregating the following obligations:

- (a) invoiced amounts, i.e., any published but unpaid amounts on Invoices;
- (b) published amounts, i.e., amounts for Trading Days for which Settlement Statements have been issued;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (c) estimated amounts, i.e., amounts based on estimated Settlement amounts calculated by the Settlement system using estimated meter data, and other available operational data;
- (d) extrapolated amounts, i.e., amounts calculated for Trading Days for which neither actual nor estimated Settlement Statements have been issued;
- (e) CRR portfolio value, i.e., the prospective value of the CRR portfolio, if negative, as described in Section 12.6.3;
- (f) CRR Auction limit, i.e., the maximum credit limit for participation in a CRR Auction;
- (g) CRR Auction awards (prior to invoicing), i.e., amounts to cover winning offers at the completion of the CRR Auction but prior to invoicing;
- (h) Estimated Aggregate Liability adjustments resulting from Virtual Bid Submission Charges and the submission of Virtual Bids and/or receipt of Virtual Awards pursuant to Section 12.8;
- (i) past-due amounts, i.e., any unpaid or past due amounts on Invoices;
- (j) FERC Annual FERC Charges, i.e., FERC Annual Charges for a Market Participant that has elected to pay such amounts on an annual basis that are owed and outstanding and not already captured in any other component of Estimated Aggregate Liability;
- (k) WAC Charges, i.e., WAC amounts for the current year or future years as specified in Section 36.9.2;
- (l) Estimated Aggregate Liability adjustments, i.e., adjustments that may be necessary as a result of analysis performed as a result of Section 12.4.2; and
- (m) extraordinary adjustments, i.e., adjustments to Settlement amounts related to FERC proceedings, if known and estimated by the CAISO, as described in Section 12.1.3.1.3.

For a Market Participant that maintains multiple BAID numbers, the Estimated Aggregate Liability of the Market Participant as a legal entity shall be calculated by summing the Estimated Aggregate Liabilities for

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

all such BAID numbers and comparing the sum of the Estimated Aggregate Liabilities to the Aggregate Credit Limit of the Market Participant. Market Participants may recommend changes to the liability estimates produced by the CAISO's Estimated Aggregate Liability calculation through the dispute procedures described in Section 12.4.2.

12.1.3.1.2 Calculation Methodology Applicable to New Market Participants

Each new Market Participant (and each Market Participant that has previously been inactive) is required to have an initial Aggregate Credit Limit that is sufficient to cover a minimum of forty-five (45) Trading Days of estimated obligations. This initial credit requirement is based on anticipated transactions in the CAISO Markets, and shall be considered to be equal to the Market Participant's Estimated Aggregate Liability until the CAISO obtains sufficient data from its automated calculation of Estimated Aggregate Liability as described in Section 12.1.3.1.1 to begin relying on that calculation.

12.1.3.1.3 Special Circumstances

12.1.3.1.3.1 Daily Adjustments and Disputes

Charges associated with daily adjustments and disputes that are regularly calculated by the CAISO Settlement system will be included in the CAISO's determinations of Estimated Aggregate Liability as the charges are calculated.

12.1.3.1.3.2 FERC Refund Orders

The CAISO will assess its ability to reasonably calculate the charges associated with a refund before the CAISO's Settlement system is re-run. If the CAISO can reasonably apportion the refund charges to specific Market Participants, it will include the amounts in its calculation of Estimated Aggregate Liability for those Market Participants and will request Financial Security from them accordingly. If the CAISO determines that complexities of a FERC refund order preclude the CAISO from reasonably being able to include refunds in its calculation of Estimated Aggregate Liability, the CAISO will not request Financial Security associated with the required refunds until the refunds are processed through the CAISO Settlement system. However, if feasible, the CAISO will make available to Market Participants, for informational purposes only, an aggregate forecast of the effect that providing the refunds will have on the CAISO's calculation of Estimated Aggregate Liability.

12.1.3.1.3.3 CAISO ADR Procedures

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

The CAISO will handle transactions associated with the CAISO ADR Procedures in the same manner as transactions associated with refunds provided pursuant to Section 12.1.3.1.3.2.

12.2 Review Of Creditworthiness

The CAISO may review the creditworthiness of any Market Participant that delays or defaults in making payments due under the CAISO Tariff and, as a consequence of that review, may require such Market Participant, whether or not it has an Unsecured Credit Limit, to provide credit support in the form of any of the following types of Financial Security:

- (a) an irrevocable and unconditional letter of credit by a bank or financial institution reasonably acceptable to the CAISO;
- (b) a cash deposit standing to the credit of an interest-bearing escrow account maintained at a bank or financial institution reasonably acceptable to the CAISO;
- (c) an irrevocable and unconditional surety bond posted by an insurance company reasonably acceptable to the CAISO;
- (d) a payment bond certificate in the name of the CAISO from a financial institution reasonably acceptable to the CAISO; or
- (e) a prepayment to the CAISO.

The CAISO may require the Market Participant to maintain such Financial Security for at least one (1) year from the date of such delay or default.

12.3 Posting And Releases Of Financial Security

Each Market Participant required to provide a Financial Security Amount under Section 12.1.2 shall notify the CAISO of the initial Financial Security Amount that it wishes to provide at least fifteen (15) days in advance and shall ensure that the CAISO has received such Financial Security Amount prior to the date the Market Participant commences activity through the CAISO, or the date the CRR Holder or Candidate CRR Holder participates in the applicable auction of CRRs. A Market Participant may at any time increase its Financial Security Amount by providing additional Financial Security in accordance with Section 12.1.2. A Market Participant may request that its Financial Security Amount be reduced or released by making its request not fewer than fifteen (15) days prior to the date on which the reduction or release is requested to occur. The CAISO shall evaluate the request and inform the Market Participant

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

within ten (10) Business Days either that a reduction or release of the Financial Security Amount is permissible, that a reduction or release of the Financial Security Amount is impermissible, or that the CAISO requires more information from the Market Participant in order to make its determination. The CAISO may decline to reduce or release a Financial Security Amount or may release a lesser amount for any of the following reasons:

- (a) The Estimated Aggregate Liability for the Market Participant cannot be accurately determined due to a lack of supporting Settlement charge information.
- (b) The most recent liabilities of the Market Participant are volatile to a significant degree and a reduction or release of the Financial Security Amount would present a high likelihood that, after the Financial Security Amount was reduced or released, the Estimated Aggregate Liability for the Market Participant, as calculated by the CAISO, would exceed its Aggregate Credit Limit.
- (c) The Market Participant has provided notice or otherwise demonstrated that it is terminating or significantly reducing its participation in the CAISO Markets. The CAISO may retain a portion of the Financial Security Amount to ensure that the Market Participant is adequately secured with respect to pending liabilities that relate to Settlement re-runs or other liabilities for which the Market Participant may be responsible under this CAISO Tariff.

12.3.1 Self-Supply Of UDC Demand

Notwithstanding anything to the contrary in the CAISO Tariff, a Scheduling Coordinator or UDC that is an Original Participating Transmission Owner or is a Scheduling Coordinator for an Original Participating Transmission Owner shall not be precluded by Section 12.3 from scheduling transactions that serve a UDC's Demand from

- (1) a resource that the UDC owns; and
- (2) a resource that the UDC has under contract to serve its Demand.

12.4 Calculation Of Ongoing Financial Security Requirements

Following the date on which a Market Participant commences trading, if the Market Participant's Estimated Aggregate Liability, as calculated by the CAISO, at any time exceeds its Aggregate Credit

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Limit, the CAISO shall direct the Market Participant to post an additional Financial Security Amount within three (3) Business Days that is sufficient to ensure that the Market Participant's Aggregate Credit Limit is at least equal to its Estimated Aggregate Liability. The CAISO shall also notify a Market Participant if at any time its Estimated Aggregate Liability exceeds ninety percent (90%) of its Aggregate Credit Limit. For the purposes of calculating the Market Participant's Estimated Aggregate Liability, the CAISO shall include (1) outstanding charges for Trading Days for which Settlement data is available, and (2) an estimate of charges for Trading Days for which Settlement data is not yet available. To estimate charges for Trading Days for which Settlement data is not yet available, the CAISO will consider available historical Settlement data, and other available operational and market data as described in the applicable Business Practice Manual.

12.4.1 Resolution Of A CAISO Request For Additional Security Amount

A Market Participant has three (3) Business Days to resolve a CAISO request for additional Financial Security. Within the three (3) Business Days, the Market Participant must either demonstrate to the CAISO's satisfaction that the CAISO's Financial Security request is entirely or partially unnecessary, or post the required Financial Security Amount calculated by the CAISO. If the CAISO and the Market Participant are unable to agree on the appropriate level of Financial Security during the three (3) Business Day review period, the Market Participant must post the additional Financial Security and may continue with the dispute process described in Section 12.4.2. Any excess Financial Security Amounts will be returned to the Market Participant if the dispute process finds in favor of the Market Participant.

12.4.2 Dispute Process For A Request For Additional Security Amount

Market Participants may dispute the Estimated Aggregate Liability calculated by the CAISO and, as a result, the CAISO may reduce or cancel a requested Financial Security adjustment. The following steps are required for a Market Participant to dispute a Financial Security request resulting from the CAISO's calculation of Estimated Aggregate Liability:

- (1) Request by the Market Participant to review the CAISO calculation.
- (2) A reasonable and compelling situation presented, as determined by the Market Participant's CAISO client representative.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (3) Documentation of facts and circumstances that evidence that the CAISO's calculation of Estimated Aggregate Liability results in an excessive and unwarranted Financial Security posting requirement.
- (4) Approval by the CAISO Manager and/or Director of Customer Services and Industry Affairs and approval by the CAISO Treasurer.
- (5) The CAISO may decline to adjust the initial Estimated Aggregate Liability, as calculated by the CAISO, if the Market Participant has had Financial Security shortfalls in the past twelve (12) months (i.e., it has been shown that the Market Participant's Aggregate Credit Limit at times during the preceding twelve (12) months has been insufficient to cover the Market Participant's Estimated Aggregate Liability).

In no such case shall a CAISO request for increased Financial Security remain outstanding for more than three (3) Business Days. Either the above process is to be completed within three (3) Business Days from the date of the CAISO request for additional Financial Security, or the Market Participant is to post additional Financial Security within the three (3) Business Days and continue this process, which may result in a return of posted Financial Security back to the Market Participant if the results of the dispute process are found to favor the Market Participant.

Factors for consideration in the event this dispute process is utilized include: weighing the risk of using the lower figure to the potential detriment of market creditors if the Market Participant is under-secured and defaults, against the desire not to impose additional potentially unwarranted costs on a Market Participant; equity and consistency of treatment of Market Participants in the dispute process; and the evidentiary value of the information provided by the Market Participant in the dispute process.

12.5 CAISO Enforcement Actions

12.5.1 Enforcement Actions Re Under-Secured Market Participants

If a Market Participant's Estimated Aggregate Liability, as calculated by the CAISO, at any time exceeds its Aggregate Credit Limit, the CAISO may take any or all of the following actions:

- (a) The CAISO may withhold a pending payment distribution.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (b) The CAISO may limit trading, which may include rejection of Bids, including Self-Schedules, rejection or cancellation of Inter-SC Trades in their entirety (i.e., both sides of the Inter-SC Trade) at any time, and/or limiting other CAISO Market activity, including limiting eligibility to participate in a CRR Allocation or CRR Auction. In such case, the CAISO shall notify the Market Participant of its action and the Market Participant shall not be entitled to participate in the CAISO Markets or CRR Auctions or submit further Bids, including Self-Schedules, or otherwise participate in the CAISO Markets until the Market Participant posts an additional Financial Security Amount that is sufficient to ensure that the Market Participant's Aggregate Credit Limit is at least equal to its Estimated Aggregate Liability.
- (c) The CAISO may require the Market Participant to post an additional Financial Security Amount in lieu of an Unsecured Credit Limit for a period of time.
- (d) The CAISO may restrict, suspend, or terminate the Market Participant's CRR Entity Agreement or any other service agreement.
- (e) The CAISO may resell the CRR Holder's CRRs in whole or in part, including any Long Term CRRs, in a subsequent CRR Auction or bilateral transaction, as appropriate.
- (f) The CAISO will not implement the transfer of a CRR if the transferee or transferor has an Estimated Aggregate Liability in excess of its Aggregate Credit Limit.

In addition, the CAISO may restrict or suspend a Market Participant's right to submit further Bids, including Self-Schedules, or require the Market Participant to increase its Financial Security Amount if at any time such Market Participant's potential additional liability for Imbalance Energy and other CAISO charges is determined by the CAISO to be excessive by comparison with the likely cost of the amount of Energy reflected in Bids or Self-Schedules submitted by the Market Participant.

12.5.2 Enforcement Actions For Late Posting Of Financial Security

Each Market Participant that is late in posting Financial Security within three (3) Business Days as required by Section 12.4 will be subject to the following enforcement actions:

- (a) After each of the first two (2) times during a rolling twelve (12) month period that a Market Participant is late in posting additional Financial Security within three Business Days as required by Section 12.4, the CAISO will send the delinquent Market Participant a warning notice.
- (b) After the third time during a rolling twelve (12) month period that a Market Participant is late in posting additional Financial Security, the CAISO may require the Market Participant to post an additional Financial Security Amount that is as high as the highest level of the Market Participant's Estimated Aggregate Liability during the preceding twelve (12) months. The CAISO will hold such additional Financial Security Amount for no fewer than twelve (12) months following the month in which the Market Participant's third delinquency occurs, and the CAISO may then return to the Market Participant all or a portion of such additional Financial Security Amount if, during the intervening time, the Market Participant has timely posted all further additional Financial Security Amounts requested by the CAISO and has timely paid all of the amounts set forth in the Invoices from the CAISO.
- (c) After the third time and each subsequent time during a rolling twelve (12) month period beginning no earlier than April 7, 2010 that a Market Participant is late in posting additional Financial Security, the CAISO will assess a penalty to the Market Participant equal to the greater of \$1,000 or two percent (2%) of the additional Financial Security Amount that the Market Participant has been late in posting, up to a maximum amount of \$20,000 per each late posting for which the CAISO assesses a penalty pursuant to this Section 12.5.2(c). This penalty will be included in the next Invoice to the Market Participant. Penalty amounts collected by the CAISO pursuant to this Section 12.5.2(c) will be treated as set forth in Section 11.29.9.6.4.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (d) After the fourth and any subsequent times during a rolling twelve (12) month period that a Market Participant is late in posting additional Financial Security, the CAISO may extend the time period that it holds all or a portion of the additional Financial Security Amount resulting from the Market Participant's third delinquency during a rolling twelve (12) month period as described in Section 12.5.2(b).
- (e) After the fifth time during a rolling twelve (12) month period beginning no earlier than April 7, 2010 that a Market Participant is late in posting additional Financial Security, the CAISO may, notwithstanding any other provision of the CAISO Tariff, (i) suspend any and all rights of the Market Participant under the CAISO Tariff, effective immediately after the CAISO sends written notice of the suspension to the Market Participant, and (ii) terminate any agreement entered into between the CAISO and the Market Participant that allows the Market Participant to participate in the CAISO Markets, effective upon the date the CAISO sends written notice of the termination to the Market Participant or upon the date established in accordance with FERC rules if FERC rules require the CAISO to file the notice of termination with FERC. If the CAISO sends a notice of suspension or termination to a Market Participant pursuant to this Section 12.5.2(e), the Market Participant will not have the right to prevent such suspension or termination by curing its late posting of additional Financial Security. The CAISO will, following termination of an agreement pursuant to this Section 12.5.2(e) and within thirty (30) days of being satisfied that no sums remain owing by the Market Participant under the CAISO Tariff, return or release to the Market Participant, as appropriate, any money or credit support provided by such Market Participant to the CAISO under Section 12.
- (f) Any time that a Market Participant is late in posting additional Financial Security, the CAISO may also take other enforcement actions as described in this Section 12 and in the applicable Business Practice Manual, if deemed necessary by the CAISO to protect the financial integrity of the CAISO Markets.

12.6 Credit Obligations Applicable To CRRs

12.6.1 Credit Requirements For CRR Allocations

Subject to applicable requirements of Section 36.9.2 concerning the prepayment of Wheeling Access Charges, Load Serving Entities eligible to participate in any CRR Allocation are not required to provide additional Financial Security in advance of a CRR Allocation.

12.6.2 Credit Requirements For CRR Auctions

To establish available credit for participating in any CRR Auction, each CRR Holder or Candidate CRR Holder must have an Unsecured Credit Limit or have provided Financial Security in a form consistent with Section 12.1.2. In order to participate in an annual CRR Auction, the CRR Holder or Candidate CRR Holder must have an Aggregate Credit Limit that exceeds its Estimated Aggregate Liability by the greater of \$500,000 or the sum of the maximum credit exposures of all of the CRR Holder's or Candidate CRR Holder's bids for CRRs submitted in the annual CRR Auction. In order to participate in a monthly CRR Auction, the CRR Holder or Candidate CRR Holder must have an Aggregate Credit Limit that exceeds its Estimated Aggregate Liability by the greater of \$100,000 or the sum of the maximum credit exposures of all of the CRR Holder's or Candidate CRR Holder's bids for CRRs submitted in the monthly CRR Auction. The maximum credit exposure of a positively valued CRR bid is the maximum value of the CRR Holder's or Candidate CRR Holder's bid quantity (MW) multiplied by the sum of the bid price corresponding to the bid quantity and the Credit Margin of the CRR within the range of the minimum and maximum bid quantities submitted by the CRR Holder or Candidate CRR Holder. The maximum credit exposure of a negatively valued CRR bid is the maximum bid quantity (MW) submitted by the CRR Holder or Candidate CRR Holder multiplied by the Credit Margin of the CRR. A CRR Holder or Candidate CRR Holder that fails to satisfy this requirement shall not be permitted to participate in the relevant CRR Auction, or shall have bids exceeding its available Aggregate Credit Limit for participation in the CRR Auction, in accordance with the above formula, rejected by the CAISO on a last-in, first-out basis. The CAISO will retain the CRR Auction proceeds for negatively valued CRRs and will apply them to credit requirements of the applicable CRR Holder.

12.6.3 Credit Requirements For The Holding Of CRRs

12.6.3.1 Credit Requirements Generally

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (a) Each CRR Holder, whether it obtains CRRs through a CRR Allocation or a CRR Auction, must maintain an Aggregate Credit Limit in excess of its Estimated Aggregate Liability including the credit requirement of the CRR portfolio determined as described in this Section 12.6.3.
- (b) Each CRR Holder shall be required to ensure that its Aggregate Credit Limit is sufficient to satisfy the credit requirements described in this Section 12.6.3. Except as provided in this paragraph, CRRs are evaluated on a portfolio basis as follows. If a CRR Holder owns more than one CRR, such CRR Holder shall be subject to an overall credit requirement that is equal to the sum of the individual credit requirements applicable to each of the CRRs held by such CRR Holder , which is calculated after the MW associated with any Offsetting CRRs are netted out. If this sum is positive, the amount will be added to the CRR Holder's Estimated Aggregate Liability. However, if the sum is negative, the CRR Holder's Estimated Aggregate Liability shall not be reduced. If a CRR Holder holds one or more CRRs obtained through a CRR Allocation and also holds one or more CRRs obtained through a CRR Auction, the individual credit requirements applicable to any of the CRRs obtained through a CRR Allocation may not be netted against the individual credit requirements applicable to any of the CRRs obtained through a CRR Auction in determining such CRR Holder's Estimated Aggregate Liability.
- (c) The CAISO shall reevaluate the credit requirements for holding CRRs, and shall adjust the credit requirements accordingly, not less than monthly. The CAISO may adjust the credit requirements for holding CRRs with terms of one year or less at the CAISO's discretion to account for changes in the monthly auction prices for CRRs and changes in the Historical Expected Values for CRRs, or more frequently than monthly if necessary if the CAISO finds that actual or anticipated market conditions indicate that CRR credit requirements may be inadequate to cover the financial risk of the CRRs. The CAISO may also adjust

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

the credit requirements for holding Long Term CRRs annually to reflect the changes in auction prices of one-year CRRs in annual auctions and changes in the Historical Expected Values for CRRs, and to reflect updates to Credit Margins based on actual Locational Marginal Price data derived from market operations. Whenever the CAISO requests additional Financial Security from a Market Participant as a result of a change in CRR value that is not related to an adjustment due to the monthly CRR Auction Price or an adjustment related to Historical Expected Value, the CAISO will provide a written explanation of the reason for that request.

- (d) In cases where the ownership of a CRR is to be transferred through either the Secondary Registration System or through Load Migration, the CAISO shall evaluate and adjust the credit requirements for both the current owner of the CRR and the prospective owner of the CRR as appropriate prior to the transfer. If additional Financial Security is required from either the current or prospective owner, the transfer will not be completed until such Financial Security has been provided to and accepted by the CAISO. CRRs transferred through the Secondary Registration System will be treated like auctioned CRRs for the purpose of calculating the credit requirements for holding the CRRs, regardless of whether the CRRs were originally allocated or purchased at auction or acquired through the Secondary Registration System. CRRs assigned to Load-gaining or Load-losing Load Serving Entities as a result of Load Migration will be treated like allocated CRRs for the purpose of calculating the credit requirements for holding the CRRs.

12.6.3.2 Calculation of the Credit Amount Required to Hold a CRR With a Term of One Year or Less

Each CRR Holder that holds a CRR with a term of one year or less shall be subject to a credit requirement (\$/MW) equal to the negative of the most recent CRR Auction Price of such CRR or the Historical Expected Value of such CRR, whichever is lower, plus the Credit Margin for such CRR. The CRR Auction Price will be used until twelve (12) months of historical market operations data are available.

12.6.3.3 Calculation of the Credit Amount Required to Hold a Long Term CRR

Each CRR Holder that holds a Long Term CRR shall be subject to a credit requirement (\$/MW) equal to the negative of the most recent annual CRR Auction Price of a CRR with the same CRR Source and CRR Sink as the Long Term CRR or the Historical Expected Value of such a CRR, whichever is lower, plus the Credit Margin calculated for the CRR but with only a one-year term. If there is less than one year remaining in the term of a Long Term CRR, the credit requirement shall be determined pursuant to Section 12.6.3.2.

12.6.3.4 Calculation of Credit Margin

The Credit Margin (\$/MW) for a CRR is equal to (i) the Expected Congestion Revenue minus (ii) the Fifth Percentile Congestion Revenue of such CRR. Both values will be based on the probability distribution of Congestion revenue of such CRR calculated using historical Locational Marginal Price data, when available, and proxy values, including data taken from Locational Marginal Price studies conducted by the CAISO, until such time as historical Locational Marginal Price data is available, with the details of such calculation published in a Business Practice Manual. The CAISO may reassess its determinations regarding the Credit Margin determination at any time and shall require additional Financial Security if the reassessment results in an increase in a CRR Holder's Estimated Aggregate Liability that is not covered by a CRR Holder's Aggregate Credit Limit (consisting of the CRR Holder's Unsecured Credit Limit and/or Financial Security).

12.6.4 Credit Requirements For Sales Of Allocated CRRs

Each Load Serving Entity that sells a CRR obtained through a CRR Allocation shall, as a prerequisite to the sale of any such CRR, have an Aggregate Credit Limit with a sufficient margin to cover the credit requirement for holding the Offsetting CRR that the Load Serving Entity would be responsible for assuming in the event of Load Migration from the Load Serving Entity to another Load Serving Entity pursuant to Section 36.8.5.3. The credit requirement for holding the Offsetting CRR will be included in the Estimated Aggregate Liability of the Load Serving Entity upon the transfer of the allocated CRR.

12.7 Credit Obligation Of New Responsible Utilities For RMR Costs

If a Responsible Utility first executed the TCA after April 1, 1998 (a New Responsible Utility) and if:

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (i) the senior unsecured debt of the New Responsible Utility is rated or becomes rated at less than A- from Standard & Poor's ("S&P") or A3 from Moody's Investment Services ("Moody's"), and
- (ii) Such ratings do not improve to A- or better from S&P or A3 or better from Moody's within 60 days,

the New Responsible Utility shall issue and confirm to the CAISO an irrevocable and unconditional letter of credit in an amount equal to three times the highest monthly payment invoiced by the CAISO to the New Responsible Utility (or the prior Responsible Utility) in connection with services under Reliability Must-Run Contracts in the last 3 months for which invoices have been issued. The letter of credit must be issued by a bank or other financial institution whose senior unsecured debt rating is not less than A from S&P and A2 from Moody's. The letter of credit shall be in such form as the CAISO may reasonably require from time to time by notice to the New Responsible Utility and shall authorize the CAISO or the RMR Owner to draw on the letter of credit for deposit solely into the RMR Owner Facility Trust Account in an amount equal to any amount due and not paid by the Responsible Utility under the CAISO Invoice. The security provided by the New Responsible Utility pursuant to this Section is intended to cover the New Responsible Utility's outstanding liability for payments it is liable to make to the CAISO under this Section, including monthly payments, any reimbursement for capital improvement, termination fees and any other payments to which the CAISO is liable under Reliability Must-Run Contracts.

12.8 Credit Requirements Applicable to Virtual Bids

12.8.1 Credit Check in the Day-Ahead Market

12.8.1.1 Credit Check Requirements

For each Scheduling Coordinator that submits one or more Virtual Bids in the Day-Ahead Market, the CAISO will estimate the total value of all of the submitted Virtual Bids after the Virtual Bids have been validated in accordance with Section 30.7.3. In all circumstances except where the Scheduling Coordinator submits both a Virtual Supply Bid and a Virtual Demand Bid at the same Eligible PNode or Eligible Aggregated PNode for the same Trading Hour, the CAISO will estimate the total value of the submitted Virtual Bids at each Eligible PNode or Eligible Aggregated PNode for each Trading Hour by calculating the sum of the products of the absolute values of the MWs of the submitted Virtual Bids

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

multiplied by the applicable Virtual Bid Reference Price at the Eligible PNode or Eligible Aggregated PNode for all Trading Hours. In circumstances where the Scheduling Coordinator submits both a Virtual Supply Bid and a Virtual Demand Bid at the same Eligible PNode or Eligible Aggregated PNode for the same Trading Hour, the CAISO will estimate the total value of the submitted Virtual Bids at the Eligible PNode or Eligible Aggregated PNode for the Trading Hour by calculating the greater of (i) the product of the absolute value of the MW of the submitted Virtual Supply Bid multiplied by the Virtual Bid Reference Price for Virtual Supply Bids at the Eligible PNode or Eligible Aggregated PNode or (ii) the product of the absolute value of the MW of the submitted Virtual Demand Bid multiplied by the Virtual Bid Reference Price for Virtual Demand Bids at the Eligible PNode or Eligible Aggregated PNode. The CAISO will then adjust the Scheduling Coordinator's Estimated Aggregate Liability to include the CAISO's estimate of the total value of the submitted Virtual Bids. If the adjusted Estimated Aggregate Liability is greater than the Scheduling Coordinator's Aggregate Credit Limit, the CAISO will reject the Scheduling Coordinator's submitted Virtual Bids. After rejection of its submitted Virtual Bids, a Scheduling Coordinator may submit revised Virtual Bids, subject to the timelines set forth in the CAISO Tariff and the applicable Business Practice Manual regarding the submission of Bids.

12.8.1.2 Temporary Suspension of Virtual Bidding

In the event that the financial exposure of Scheduling Coordinators cannot be determined pursuant to Section 12.8.1.1 with a reasonable degree of accuracy due to factors such as software or system failures, the CAISO may temporarily suspend virtual bidding. If the CAISO temporarily suspends virtual bidding pursuant to this Section 12.8.1.2, as soon as reasonably practicable, the CAISO will notify FERC and Market Participants of the reason(s) for any suspension of virtual bidding, the action(s) necessary to restore virtual bidding, and the estimated time required to restore virtual bidding. The CAISO does not intend to suspend virtual bidding in the event of brief intermittent software or system failures or where the CAISO anticipates the credit checking functionality will be available prior to the close of the Day-Ahead Market. During instances of software or system failures that extend past the close of the Day-Ahead Market and in the absence of any suspension of virtual bidding, the CAISO will accept pending Virtual Bids at the close of the Day-Ahead Market even though the Virtual Bids have not been validated by the

credit checking functionality. Any resulting financial obligations will be included in the next available calculation of each Scheduling Coordinator's Estimated Aggregate Liability.

12.8.2 Virtual Bid Reference Prices

For Virtual Supply Bids, the Virtual Bid Reference Price will be the 95th percentile value of the difference between the LMP in the Real-Time Market (or in the HASP for Virtual Supply Bids at the Interties) and the LMP in the Day-Ahead Market at a given Eligible PNode or Eligible Aggregated PNode. For Virtual Demand Bids, the Virtual Bid Reference Price will be the 95th percentile value of the difference between the LMP in the Day-Ahead Market and the LMP in the Real-Time Market (or in the HASP for Virtual Demand Bids at the Interties) at a given Eligible PNode or Eligible Aggregated PNode. Each Virtual Bid Reference Price will be calculated in \$/MWh. The CAISO will calculate the Virtual Bid Reference Price for each Eligible PNode or Eligible Aggregated PNode for three-month periods (covering January-March, April-June, July-September, and October-December) of each year using the hourly actual LMPs for the same period of the previous year.

12.8.3 Adjustment of EAL After Close of the DAM

After the Day-Ahead Market closes but before the Real-Time Market closes, the CAISO will recalculate the estimate of the total liability of the Virtual Bids of each Scheduling Coordinator based on the MW quantity that cleared in the Day-Ahead Market. The revised total estimated liability will equal the sum of the products of the absolute values of the amounts of MWs of Virtual Awards multiplied by the Virtual Bid Reference Price. The CAISO will then adjust the Estimated Aggregate Liability of the Scheduling Coordinator to reflect the revised total estimated liability of the Virtual Bids as calculated by the CAISO.

12.8.4 Adjustment of EAL After the Close of the RTM

After the Real-Time Market closes, the CAISO will recalculate the total liability of each Scheduling Coordinator with Virtual Awards based on the MW quantity that cleared in the Day-Ahead Market and the LMPs produced in the Day-Ahead Market, HASP, and Real-Time Market. The total liability of a Scheduling Coordinator will equal the sum of the liability of each Virtual Bid submitted by the Scheduling Coordinator that cleared in the Day-Ahead Market. The liability of a Virtual Supply Bid will equal the product of the value of the amount of cleared MWs multiplied by the difference between the Real-Time or HASP LMP, as appropriate, and the Day-Ahead LMP at the Eligible PNode or Eligible Aggregated PNode

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

at which the Virtual Supply Bid was submitted. The liability of a Virtual Demand Bid will equal the product of the value of the amount of cleared MWs multiplied by the difference between the Day-Ahead LMP and the Real-Time or HASP LMP, as appropriate, at the Eligible PNode or Eligible Aggregated PNode at which the Virtual Demand Bid was submitted. The Estimated Aggregate Liability will be adjusted accordingly and will continue to be adjusted as a result of any price correction made in accordance with Section 35.

13. Dispute Resolution

13.1 Applicability

13.1.1 General Applicability

Except as limited below or otherwise as limited by law (including the rights of any party to file a complaint with FERC under the relevant provisions of the FPA), the CAISO ADR Procedures shall apply to all disputes between parties which arise under the CAISO Documents except where the decision of the CAISO is stated in the provisions of this CAISO Tariff to be final. The CAISO ADR Procedures shall not apply to:

- (1) Disputes arising under contracts which pre-date the CAISO Operations Date, except as the disputing parties may otherwise agree;
- (2) Disputes as to whether rates and charges set forth in this CAISO Tariff are just and reasonable under the FPA.

13.1.2 Disputes Involving Government Agencies

If a party to a dispute is a government agency the procedures herein that provide for the resolution of claims and arbitration of disputes are subject to any limitations imposed on the agency by law, including but not limited to the authority of the agency to effect a remedy. If the governmental agency is a federal entity, the procedures herein shall not apply to disputes involving issues arising under the United States Constitution.

13.1.3 Injunctive And Declaratory Relief

Where the court having jurisdiction so determines, use of the CAISO ADR Procedures shall not be a condition precedent to a court action for injunctive relief nor shall the provisions of California Code of Civil Procedure sections 1281 et seq. apply to such court actions.

13.2 Negotiation And Mediation

13.2.1 Negotiation

The CAISO and Market Participants (party or parties) shall make good-faith efforts to negotiate and resolve any dispute between them arising under CAISO Documents prior to invoking the CAISO ADR Procedures outlined herein. Each party shall designate an individual with authority to negotiate the matter in dispute to participate in such negotiations.

13.2.2 Statement Of Claim

In the event a dispute is not resolved through such good-faith negotiations, any one of the parties may submit a statement of claim, in writing, to each other disputing party, and the CAISO ADR Coordinator, which submission shall commence the CAISO ADR Procedures. The statement of claim shall set forth in reasonable detail (i) each claim, (ii) the relief sought, including the proposed award, if applicable, (iii) a summary of the grounds for such relief and the basis for each claim, (iv) the parties to the dispute, and (v) the individuals having knowledge of each claim. The other parties to the dispute shall similarly submit their respective statements of claim within fourteen (14) days of the date of the initial statement of claim or such longer period as permitted by mutual agreement of the parties. If any responding party wishes to submit a counterclaim in response to the statement of claim, it shall be included in such party's responsive statement of claim. A summary of the statements of claim shall be published by the CAISO on the CAISO Website, by Market Notice, and any other method chosen by the CAISO ADR Coordinator. No Market Participant shall be considered as having received notice of a claim decided or relief granted by a decision made under these procedures unless the summary of the statements of claim published by the CAISO includes such claim or relief.

13.2.3 Selection Of Mediator

After submission of the statements of claim, the parties may request mediation, if at least seventy-five percent (75%) of the disputing parties so agree, except that where a dispute involves three parties, at least two of the parties must agree to mediation. If the parties agree to mediate, the CAISO ADR Coordinator shall distribute to the parties by facsimile or other electronic means a list containing the names of at least seven prospective mediators with mediation experience, or with technical or business experience in the electric power industry, or both, as he or she shall deem appropriate to the dispute.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

The parties shall have seven days from receipt of the CAISO ADR Coordinator's list of prospective mediators to agree upon a mediator from the list provided or from any alternative source, unless the time is extended by mutual agreement. If the parties cannot agree on a mediator, any party may request from the American Arbitration Association a list of at least seven mediators with technical or business experience in the electric power industry, or both. The parties will alternate in striking names from the list with the last name on the list becoming the mediator. The first party to strike off a name from the list shall be determined by lot. The parties shall have seven days from receipt of the list from the American Arbitration Association to complete the mediator selection process and appoint the mediator, unless the time is extended by mutual agreement. The mediator shall comply with the requirements of Section 13.3.2.

13.2.4 Mediation

The mediator and representatives of the disputing parties, with authority to settle the dispute, shall within fourteen (14) days after the mediator's date of appointment schedule a date to mediate the dispute.

Matters discussed during the mediation shall be confidential and shall not be referred to in any subsequent proceeding. With the consent of all disputing parties, a resolution may include referring the dispute directly to a technical body (such as a WECC technical advisory panel) for resolution or an advisory opinion, or referring the dispute directly to FERC. The CAISO shall publish notice of the referral of the dispute on the CAISO's Website, and any other method adopted by the CAISO ADR Coordinator.

13.2.5 Demand For Arbitration

If the disputing parties have not succeeded in negotiating a resolution of the dispute within thirty (30) days of the initial statement of claim or, if within that period the parties agreed to mediate, within thirty (30) days of the parties first meeting with the mediator, such parties shall be deemed to be at impasse and any such disputing party may then commence the arbitration process, unless the parties by mutual agreement agree to extend the time. A party seeking arbitration shall provide notice of its demand for arbitration to the other disputing parties, the CAISO ADR Coordinator, who shall publish notice of such demand on the CAISO Website, and any other method adopted by the CAISO ADR Coordinator.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

13.3 Arbitration

13.3.1 Selection Of Arbitrator

13.3.1.1 Disputes Under \$1,000,000

Where the total amount of claims and counterclaims in controversy is less than \$1,000,000 (exclusive of costs and interest), the disputing parties shall select an arbitrator from a list containing the names of at least ten (10) qualified individuals supplied by the American Arbitration Association within fourteen (14) days following submission of the demand for arbitration. If the parties cannot agree upon an arbitrator within fourteen (the) stated time, they shall take turns striking names from the list of proposed arbitrators. The first party to strike-off a name shall be determined by lot. This process shall be repeated until one name remains on the list, and that individual shall be the designated arbitrator.

13.3.1.2 Disputes of \$1,000,000 or Over

Where the total amount of claims and counterclaims in controversy is \$1,000,000 or more (exclusive of interest and costs), the disputing parties may agree on any person to serve as a single arbitrator, or shall endeavor in good faith to agree on a single arbitrator from a list of ten (10) qualified individuals provided by the American Arbitration Association within fourteen (14) days following submission of the demand for arbitration. If the parties are unable to agree on a single arbitrator within the stated time, the party or parties demanding arbitration, and the party or parties responding to the demand for arbitration, shall each designate an arbitrator. Each designation shall be from the list of arbitrators no later than the tenth (10th) day thereafter. The two arbitrators so chosen shall then choose a third arbitrator.

13.3.2 Disclosures Required Of Arbitrators

The designated arbitrator(s) shall be required to disclose to the parties any circumstances which might preclude him or her from rendering an objective and impartial determination. Each designated arbitrator shall disclose:

- (a) Any direct financial or personal interest in the outcome of the arbitration;
- (b) Any information required to be disclosed by California Code of Civil Procedure Section 1281.9.; and
- (c) Any existing or past financial, business, professional, or personal interest that are likely to affect impartiality or might reasonably create an appearance of partiality or bias.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

The designated arbitrator shall disclose any such relationships that he or she personally has with any party or its counsel, or with any individual whom he or she has been told will be a witness. Designated arbitrators should also disclose any such relationship involving members of their families or their current employers, partners, or business associates. All designated arbitrators shall make a reasonable effort to inform themselves of any interests or relationships described above. The obligation to disclose interests, relationships, or circumstances that might preclude an arbitrator from rendering an objective and impartial determination is a continuing duty that requires the arbitrator to disclose, at any stage of the arbitration, any such interests, relationships, or circumstances that arise, or are recalled or discovered. If, as a result of the continuing disclosure duty, an arbitrator makes a disclosure which is likely to affect his or her impartiality, or might reasonably create an appearance of impartiality or bias or if a party independently discovers the existence of such circumstances, a party wishing to object to the continuing use of the arbitrator must provide written notice of its objection to the other parties within ten (10) days of receipt of the arbitrator's disclosure or the date of a party's discovery of the circumstances giving rise to that party's objection. Failure to provide such notice shall be deemed a waiver of such objection. If a party timely provides a notice of objection to the continuing use of the arbitrator the parties shall attempt to agree whether the arbitrator should be dismissed and replaced in the manner described in Section 13.3.1. If within ten (10) days of a party's objection notice the parties have not agreed how to proceed, the matter shall be referred to the American Arbitration Association for resolution.

13.3.3 Arbitration Procedures

The CAISO ADR Coordinator shall compile and make available to the arbitrator and the parties standard procedures for the arbitration of disputes, which procedures (i) shall include provision, upon good cause shown, for intervention or other participation in the proceeding by any party whose interests may be affected by its outcome, (ii) shall conform to the requirements specified herein, and (iii) may be modified or adopted for use in a particular proceeding as the arbitrator deems appropriate, in accordance with Section 13.3.4. The procedures adopted by the CAISO ADR Coordinator shall be based on the latest edition of the American Arbitration Association Commercial Arbitration Rules, to the extent such rules are not inconsistent with this Section 13. Except as provided herein, all parties shall be bound by such procedures.

13.3.4 Modification Of Arbitration Procedures

In determining whether to modify the standard procedures for use in the pending matter, the arbitrator shall consider (i) the complexity of the dispute, (ii) the extent to which facts are disputed, (iii) the extent to which the credibility of witnesses is relevant to a resolution, (iv) the amount in controversy, and (v) any representations made by the parties. Alternatively, the parties may, by mutual agreement, modify the standard procedures. In the event of a disagreement between the arbitrator and the agreement of the parties regarding arbitration procedures to be utilized, the parties' agreement shall prevail.

13.3.5 Remedies

13.3.5.1 Arbitrator's Discretion

The arbitrator shall have the discretion to grant the relief sought by a party, or determine such other remedy as is appropriate, unless the parties agree to conduct the arbitration "baseball" style. Unless otherwise expressly limited herein, the arbitrator shall have the authority to award any remedy or relief available from FERC, or any other court of competent jurisdiction. Where any CAISO Document leaves any matter to be agreed between the parties at some future time and provides that in default of agreement the matter shall be referred to the CAISO ADR Procedures, the arbitrator shall have authority to decide upon the terms of the agreement which, in the arbitrator's opinion, it is reasonable that the parties should reach, having regard to the other terms of the CAISO Document concerned and the arbitrator's opinion as to what is fair and reasonable in all the circumstances.

13.3.5.2 "Baseball" Arbitration

If the parties agree to conduct the arbitration "baseball" style, the parties shall submit to the arbitrator and exchange with each other their last best offers in the form of the award they consider the arbitrator should make, not less than seven (7) days in advance of the date fixed for the hearing, or such other date as the arbitrator may decide. If a party fails to submit its last best offer in accordance with this Section, that party shall be deemed to have accepted the offer proposed by the other party. The arbitrator shall be limited to awarding only one of the proposed offers, and may not determine an alternative or compromise remedy.

13.3.6 Summary Disposition

The procedures for arbitration of a dispute shall provide a means for summary disposition of a demand for arbitration, or a response to a demand for arbitration, that in the reasoned opinion of the arbitrator does

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

not have a good faith basis in either law or fact. If the arbitrator determines that a demand for arbitration or response to a demand for arbitration does not have a good faith basis in either law or fact, the arbitrator shall have discretion to award the costs of the time, expenses, and other charges of the arbitrator to the prevailing party. A determination made under this Section is subject to appeal pursuant to Section 13.4.

13.3.7 Discovery Procedures

The procedures for the arbitration of a dispute shall include adequate provision for the discovery of relevant facts, including the taking of testimony under oath, production of documents and other things, the presentation of evidence, the taking of samples, conducting of tests, and inspection of land and tangible items. The nature and extent of such discovery shall be determined as provided herein and shall take into account (i) the complexity of the dispute, (ii) the extent to which facts are disputed, (iii) the extent to which the credibility of witnesses is relevant to a resolution, and (iv) the amount in controversy. The forms and methods for taking such discovery shall be as described in the Federal Rules of Civil Procedure, except as modified pursuant to Section 13.3.4.

13.3.8 Evidentiary Hearing

The arbitration procedures shall provide for an evidentiary hearing, with provision for the cross-examination of witnesses, unless all parties consent to the resolution of the matter on the basis of a written record. The forms and methods for taking evidence shall be determined by the arbitrator(s) and modified pursuant to Section 13.3.4. The arbitrator may require such written or other submissions from the parties as he or she may deem appropriate, including submission of direct and rebuttal testimony of witnesses in written form. The arbitrator may exclude any evidence that is irrelevant, immaterial, unduly repetitious or prejudicial, or privileged. The arbitrator shall compile a complete evidentiary record of the arbitration which shall be available to the parties on its completion upon request.

13.3.9 Confidentiality

Subject to the other provisions of this CAISO Tariff, any party may claim that information contained in a document otherwise subject to discovery is "Confidential" if such information would be so characterized under the Federal Rules of Evidence. The party making such claim shall provide to the arbitrator in writing the basis for its assertion. If the claim of confidentiality is confirmed by the arbitrator, he or she

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

shall establish requirements for the protection of such documents or other information designated as "Confidential" as may be reasonable and necessary to protect the confidentiality and commercial value of such information. Any party disclosing information in violation of these provisions or requirements established by the arbitrator, unless such disclosure is required by federal or state law or by a court order, shall thereby waive any right to introduce or otherwise use such information in any judicial, regulatory, or other legal or dispute resolution proceeding, including the proceeding in which the information was obtained.

13.3.10 Timetable

Promptly after the appointment of the arbitrator, the arbitrator shall set a date for the issuance of the arbitration decision, which shall be no later than six (6) months (or such date as the parties and the arbitrator may agree) from the date of the appointment of the arbitrator, with other dates, including the dates for an evidentiary hearing or other final submissions of evidence, set in light of this date. The date for the evidentiary hearing or other final submission of evidence shall not be changed, absent extraordinary circumstances. The arbitrator shall have the power to impose sanctions, including dismissal of the proceeding, for dilatory tactics or undue delay in completing the arbitration proceedings.

13.3.11 Decision

13.3.11.1 Except as provided below with respect to "baseball" style arbitration, the arbitrator shall issue a written decision granting the relief requested by one of the parties, or such other remedy as is appropriate, if any, and shall include findings of fact and law. The arbitration decision shall be based on (i) the evidence in the record, (ii) the terms of the relevant CAISO Documents, (iii) applicable United States federal law, including the FPA and any applicable FERC regulations and decisions, and international treaties or agreements as applicable, and (iv) applicable state law. Additionally, the arbitrator may consider relevant decisions in previous arbitration proceedings. A summary of the disputed matter and the arbitrator's decision shall be published on the CAISO Website and any other method chosen by the CAISO ADR Coordinator.

13.3.11.2 In arbitration conducted "baseball" style, the arbitrator shall issue a written decision adopting one of the awards proposed by the parties, and shall include findings of fact and law. The arbitration decision shall be based on (i) the evidence in the record, (ii) the terms of the relevant CAISO Documents,

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

(iii) applicable United States federal law, including the FPA and any applicable FERC regulations and decisions, and international treaties or agreements as applicable, and (iv) applicable state law. If the arbitrator concludes that no proposed award is consistent with the factors enumerated in (i) through (iv) above, or addresses all of the issues in dispute, the arbitrator shall specify how each proposed award is deficient and direct that the parties submit new proposed awards that cure the identified deficiencies. A summary of the disputed matter and the arbitrator's decision shall be published on the CAISO Website, and any other method chosen by the CAISO ADR Coordinator. An award shall not be deemed to be precedential.

13.3.11.3 Where a panel of arbitrators is appointed pursuant to Section 13.3.1.2, a majority of the arbitrators must agree on the decision.

13.3.12 Compliance

Unless the arbitrator's decision is appealed under Section 13.4, the disputing parties shall, upon receipt of the decision, immediately take whatever action is required to comply with the award to the extent the award does not require regulatory action. An award that is not appealed shall be deemed to have the same force and effect as an order entered by the FERC or any court of competent jurisdiction.

13.3.13 Enforcement

Following the expiration of the time for appeal of an award pursuant to Section 13.4.3, any party may apply to FERC or any court of competent jurisdiction for entry and enforcement of judgment based on the award.

13.3.14 Costs

The costs of the time, expenses, and other charges of the arbitrator shall be borne by the parties to the dispute, with each side on an arbitrated issue bearing its pro-rata share of such costs, and each party to an arbitration proceeding bearing its own costs and fees. If the arbitrator determines that a demand for arbitration or response to a demand for arbitration was made in bad faith, the arbitrator shall have discretion to award the costs of the time, expenses, and other charges of the arbitrator to the prevailing party. Notwithstanding the above, at the discretion of the arbitrator, the winning party in any dispute which has resulted in the enforcement of an important right affecting the public interest shall not be required to pay any of the costs of the arbitrator and may recover such of its own reasonable attorney

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

fees, expert witness fees and other reasonable costs from the losing party to the dispute if (a) a significant benefit, whether pecuniary or non-pecuniary, has been conferred on the general public, (b) the necessity and financial burden of private enforcement are such as to make the award appropriate, and (c) such fees should not, in the interest of justice, be paid out of the recovery.

13.4 Appeal Of Award

13.4.1 Basis For Appeal

A party may apply to the FERC or any court of competent jurisdiction to hear an appeal of an arbitration award only upon the grounds that the award is contrary to or beyond the scope of the relevant CAISO Documents, United States federal law, including, without limitation, the FPA, and any FERC regulations and decisions, or state law. Appeals shall, unless otherwise ordered by FERC or the court of competent jurisdiction, conform to the procedural limitations set forth in this Section 13.4.

13.4.2 Appellate Record

The parties intend that FERC or the court of competent jurisdiction should afford substantial deference to the factual findings of the arbitrator. No party shall seek to expand the record before the FERC or court of competent jurisdiction beyond that assembled by the arbitrator, except (i) by making reference to legal authority which did not exist at the time of the arbitrator's decision, or (ii) if such party contends the decision was based upon or affected by fraud, collusion, corruption, misconduct or misrepresentation.

13.4.3 Procedures For Appeals

13.4.3.1 If a party to an arbitration desires to appeal an award, it shall provide a notice of appeal to the CAISO ADR Coordinator, all parties and the arbitrator within fourteen (14) days following the date of the award. The CAISO ADR Coordinator shall publish notice of the appeal on the CAISO Website, and any other method chosen by the CAISO ADR Coordinator.

Within ten (10) days of the filing of the notice of appeal, the appealing party must file an appropriate application, petition or motion with the FERC to trigger review under the FPA or with a court of competent jurisdiction. Such filing shall state that the subject matter has been the subject of an arbitration pursuant to the relevant CAISO Document.

13.4.3.2 Within thirty (30) days of filing the notice of appeal (or such period as FERC or the court of competent jurisdiction may specify) the appellant shall file the complete evidentiary record of the

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

arbitration and a copy of the award with FERC or with the court of competent jurisdiction. The appellant shall serve copies of a description of all materials included in the submitted evidentiary record.

13.4.4 Award Implementation

Implementation of the award shall be deemed stayed pending an appeal unless and until, at the request of a party, the FERC or the court of competent jurisdiction to which an appeal has been filed, issues an order dissolving, shortening, or extending such stay. However, a summary of each appeal shall be published on the CAISO Website, and any other method chosen by the CAISO ADR Coordinator.

13.4.5 Judicial Review Of FERC Orders

FERC orders resulting from appeals shall be subject to judicial review pursuant to the FPA.

13.5 Allocation Of Awards Payable By Or To The CAISO

13.5.1 Allocation Of An Award

If the CAISO must pay an award to a party pursuant to good faith negotiations or the CAISO ADR Procedures, the CAISO will recover the amount of the award from Market Participants and Scheduling Coordinators. If the CAISO receives an award from a party pursuant to good faith negotiations or the CAISO ADR Procedures, the CAISO will flow back the amount of the award to Market Participants and Scheduling Coordinators.

13.5.2 Timing Of Adjustments

Upon determination that an award is payable by or to the CAISO pursuant to good faith negotiations or the CAISO ADR Procedures, the CAISO shall calculate the amounts payable to and receivable from the party, Market Participants, and Scheduling Coordinators, as soon as reasonably practical, and shall show any required adjustments as a debit or a credit in a subsequent Initial Settlement Statement T+7B or, in the case of an amount payable by the CAISO to a party, as soon as the CAISO and that party may agree.

13.5.3 Method Of Allocation

13.5.3.1 Allocation to Market Participants

The CAISO will use best efforts to determine which Market Participant(s) is or are responsible for and/or benefit from payment of an award by or to the CAISO and to allocate receipt of or payment for the award equitably to such Market Participant(s). In undertaking the allocation, the CAISO shall consider the extent of a Market Participant's participation in affected markets and the CAISO Tariff in effect on the applicable

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Trading Day(s), and may consider any other relevant factor, including but not limited to, applicable contracts.

13.5.3.2 Residual Amounts

Any awards for which the CAISO is unable to identify Market Participants in accordance with 13.5.3.1 and any award amounts that the CAISO is unable to collect that are not covered by Section 11.29.17.1 or Section 11.29.17.2 will be allocated to all Scheduling Coordinators through neutrality adjustments.

14. Force Majeure Indemnification And Limitations On Liability

14.1 Uncontrollable Forces

Neither the CAISO nor a Market Participant will be considered in default of any obligation under this CAISO Tariff if prevented from fulfilling that obligation due to the occurrence of an Uncontrollable Force.

14.2 Responsibilities Of Affected Entity

In the event of the occurrence of an Uncontrollable Force, which prevents the CAISO or a Market Participant from performing any of its obligations under this CAISO Tariff, the affected entity shall (i) if it is the CAISO, immediately notify the Market Participants in writing of the occurrence of such Uncontrollable Force and, if it is a Market Participant, immediately notify the CAISO in writing of the occurrence of such Uncontrollable Force, (ii) not be entitled to suspend performance of its obligations under this CAISO Tariff in any greater scope or for any longer duration than is required by the Uncontrollable Force, (iii) use its best efforts to mitigate the effects of such Uncontrollable Force, remedy its inability to perform and resume full performance of its obligations hereunder, (iv) in the case of the CAISO, keep the Market Participants apprised of such efforts, and in the case of the Market Participants, keep the CAISO apprised of such efforts, in each case on a continual basis and (v) provide written notice of the resumption of its performance of its obligations hereunder.

14.3 Strikes, Lockouts Or Labor Disputes

Notwithstanding any of the foregoing, the settlement of any strike, lockout or labor dispute constituting an Uncontrollable Force shall be within the sole discretion of the entity involved in such strike, lockout or labor dispute and the requirement that an entity must use its best efforts to mitigate the effects of the Uncontrollable Force and/or remedy its inability to perform and resume full performance of its obligations hereunder shall not apply to strikes, lockouts, or labor disputes.

14.4 Market Participant's Indemnity

Each Market Participant, to the extent permitted by law, shall indemnify the CAISO and hold it harmless against all losses, damages, claims, liabilities, costs or expenses (including legal expenses) arising from any act or omission of the Market Participant except to the extent that they result from the CAISO's default under this CAISO Tariff or gross negligence or intentional wrongdoing on the part of the CAISO or of its officers, directors or employees.

14.5 Limitation On Liability

14.5.1 Liability For Damages

Except as provided for in Section 13.3.14, the CAISO shall not be liable in damages to any Market Participant for any losses, damages, claims, liability, costs or expenses (including legal expenses) arising from the performance or non-performance of its obligations under this CAISO Tariff, including but not limited to any adjustments made by the CAISO in Inter-SC Trades, except to the extent that they result from gross negligence or intentional wrongdoing on the part of the CAISO.

14.5.2 Exclusion Of Certain Types Of Loss

The CAISO shall not be liable to any Market Participant under any circumstances for any consequential or indirect financial loss including but not limited to loss of profit, loss of earnings or revenue, loss of use, loss of contract or loss of goodwill except to the extent that it results from the gross negligence or intentional wrongdoing on the part of the CAISO.

14.6 Potomac Economics, Ltd. Limitation Of Liability

Potomac Economics, Ltd. shall not be liable in damages to any Market Participant for any losses, damages, claims, liability, costs or expenses (including legal expenses) arising from its calculation of reference levels under its Consultant Agreement with the CAISO dated as of September 3, 2002, except to the extent that they result from gross negligence or intentional wrongdoing of Potomac Economics, Ltd.

15. Regulatory Filings

Any amendment or other modification of any provision of this CAISO Tariff must be in writing and approved by the CAISO Governing Board in accordance with the bylaws of the CAISO. Any such amendment or modification shall be effective upon the date it is permitted to become effective by FERC. Nothing contained herein shall be construed as affecting, in any way, the right of the CAISO to furnish its

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

services in accordance with this CAISO Tariff, or any tariff, rate schedule or Scheduling Coordinator Agreement which results from or incorporates this CAISO Tariff, or unilaterally to make an application to FERC for a change in rates, terms, conditions, charges, classifications of service, Scheduling Coordinator Agreement, rule or regulation under FPA Section 205 and pursuant to the FERC's rules and regulations promulgated thereunder. Nothing contained in this CAISO Tariff or any Scheduling Coordinator Agreement shall be construed as affecting the ability of any Market Participant receiving service under this CAISO Tariff to exercise its rights under Section 206 of the FPA and FERC's rules and regulations thereunder.

16. Existing Contracts

16.1 Continuation Of Existing Contracts For Non-Participating TOs

The transmission service rights and obligations of Non-Participating TOs under Existing Contracts, including all terms, conditions and rates of the Existing Contracts, as they may change from time to time under the terms of the Existing Contracts, will continue to be honored by the parties to those contracts, for the duration of those contracts.

16.1.1 Participating TO Obligation

If a Participating TO is a party to an Existing Contract under which Existing Rights are provided, the Participating TO shall attempt to negotiate changes to the Existing Contract to align the contract's scheduling and operating provisions with the CAISO's scheduling and operational procedures, rules and protocols, to align operations under the contract with CAISO operations, and to minimize the contract parties' costs of administering the contract while preserving their financial rights and obligations.

In addition, the Participating TO shall attempt to negotiate changes to provisions in the Existing Contract to ensure that whenever transmission services under the Existing Contract are used to deliver power to a Market Participant that is subject to Access Charges under this CAISO Tariff, no duplicative charge for access to the CAISO Controlled Grid will be charged under the Existing Contract. For purposes of such negotiations, there shall be a presumption that any charges in an Existing Contract that were designed to recover the embedded cost of transmission facilities within the CAISO Controlled Grid will be fully recovered through the Access Charges established under Section 26.1.

16.1.2 Right To Use And Ownership Of Facilities

If a Non-Participating TO has an Existing Contract with a Participating TO under which the Non-Participating TO's transmission facilities, or a portion thereof, are subject to use by the Participating TO, the Non-Participating TO's rights to the use and ownership of its facilities shall remain unchanged, regardless of the Participating TO's act of turning over the Participating TO's Entitlement to use the Non-Participating TO's facilities to the extent possible to the Operational Control of the CAISO. The CAISO will accept valid ETC Self-Schedules from a Participating TO that is the Scheduling Coordinator for the holder of Existing Rights, or from holders of Existing Rights that are Scheduling Coordinators, or that are represented by a Scheduling Coordinator other than the Participating TO. ETC Self-Schedules submitted by Scheduling Coordinators to the CAISO, which include the use of Existing Rights, must be submitted in accordance with Section 16.1 and Section 30. The CAISO may refuse to accept ETC Self-Schedules submitted pursuant to Existing Contracts that do not meet the requirements of the principles, protocols and rules referred to in this Section 16.1.

16.1.3 Existing Contract Dispute Resolution

The CAISO will, if requested, advise parties to Existing Contracts regarding the operational aspects of any Existing Contract renegotiations that they undertake.

If the parties to an Existing Contract are unable to reach agreement on the changes needed to meet the requirements of this CAISO Tariff, any disputes related thereto shall be addressed using the dispute resolution provisions of the Existing Contract, including any remedies as are provided by law. The rights of the parties to seek changes or to challenge such changes, under the FPA or as otherwise provided by law, are preserved consistent with the terms of the Existing Contract. Unless and until the necessary changes to the Existing Contract are made, all terms and conditions of the Existing Contracts will continue to be honored by the parties to the Existing Contracts.

16.1.4 Conversion Of PTOs' Rights Under Existing Contracts

Parties who are entitled to transmission service rights under Existing Contracts and who choose to become Participating TOs must, at the time of becoming a Participating TO convert those rights to Converted Rights in accordance with Section 4.3.1.6.

16.2 [NOT USED]

16.3 [NOT USED]

16.4 TRTC Instructions

16.4.1 Responsibility To Create TRTC Instructions

Each Participating TO and Existing Rights holder will work with the CAISO to develop the Transmission Rights and Transmission Curtailment (TRTC) Instructions that allow Existing Contracts to be exercised in a way that: (i) maintains the existing scheduling and curtailment priorities under the Existing Contract; (ii) is minimally burdensome to the CAISO (i.e., creates the least impact on the CAISO's preferred operational policies and procedures); (iii) to the extent possible, imposes no additional financial burden on either the Participating TO or the holder of Existing Rights (beyond that in the Existing Contract); (iv) consistent with the terms of the Existing Contracts, makes as much transmission capacity not otherwise utilized by the holder of Existing Rights available as possible to the CAISO for allocation to Market Participants; (v) is minimally burdensome to the Participating TO and the Existing Rights holder from an operational point of view; and (vi) does not require the CAISO to interpret or underwrite the economics of the Existing Contract. The parties to Existing Contracts will attempt to jointly develop and agree on any TRTC Instructions that will be submitted to the CAISO. The parties to an Existing Contract shall also be responsible to submit to the CAISO any other necessary operating instructions based on their contract interpretations needed by the CAISO to enable the CAISO to perform its duties.

16.4.2 Responsible PTO Re Multiple PTO Parties To Existing Contract

To the extent there is more than one Participating TO providing transmission service under an Existing Contract or there is a set of Existing Contracts which are interdependent from the point of view of submitting instructions to the CAISO involving more than one Participating TO, the relevant Participating TOs will designate a single Participating TO as the responsible PTO and will notify the CAISO accordingly. If no such responsible PTO is designated by the relevant Participating TOs or the CAISO is not notified of such designation, the CAISO shall designate one of them as the responsible PTO and notify the relevant Participating TOs accordingly. The responsible PTO designated pursuant to this section shall have the same responsibility as the Participating TO under this Section 16.4.

16.4.3 Scheduling Coordinator Responsibilities

The Scheduling Coordinator designated by the parties to an Existing Contract as the responsible entity for submitting ETC Self-Schedules for the relevant Existing Contract shall submit ETC Self-Schedules consistent with the terms and conditions specified in the TRTC Instructions.

16.4.4 Submission Of TRTC Instructions

For each Existing Contract, the Participating TO providing transmission service under the Existing Contract (or the Responsible PTO identified in Section 16.4.2) shall be obligated to submit the TRTC Instructions to the CAISO electronically on behalf of the holders of Existing Rights, unless the parties to the Existing Contract agree otherwise. The Participating TO shall notify the CAISO in writing the identity of the responsible party for submission of the TRTC Instructions as decided by the parties to the Existing Contract and the term of such agreement between the parties to the Existing Contract. The Participating TO shall undertake all obligations with respect to the submission of the TRTC Instructions to the CAISO and any subsequent obligations that follow with respect to the creation, management and updates to the TRTC Instructions. The CAISO is responsible for implementing only one set of TRTC Instructions for each Existing Contract and only those TRTC Instructions that have been received and accepted by the CAISO. The Participating TO shall submit the TRTC Instructions to the CAISO associated with Existing Contracts or sets of interdependent Existing Contracts thirty (30) days prior to the date on which the scheduling or curtailment of the use of the Existing Rights is to change or commence.

16.4.5 TRTC Instructions Content

TRTC Instructions will include the following information at a minimum and such other information as the CAISO may reasonably require the Participating TO to provide to enable the CAISO to carry out its functions under the CAISO Tariff, Operating Procedures and Business Practice Manuals:

- (1) A unique Contract Reference Number for each source and sink combination applicable to the Existing Contract (i.e., the CRN that will be assigned by the CAISO and communicated to the Participating TO that references a single Existing Contract or a set of interdependent Existing Contracts for each source and sink combination);

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (2) Whether the instruction can be exercised independent of the CAISO's day-to-day involvement ("Yes/No");
- (3) Name of an operational single point of contact for instructions and a 24-hour a day telephone number for the Participating TO contact for Existing Contract issues or the agreed upon party;
- (4) Name(s) and number(s) of Existing Contract(s) that are represented by the unique CRN;
- (5) The following information as stored in the Master File: (a) the applicable Point(s) of Receipt and Point(s) of Delivery); (b) for each Point of Receipt, the resource names for the physical resources as the eligible sources (eligible physical sources include Generating Units and System Resources), and for each Point of Delivery, the resource names for the physical resources as the eligible sinks (eligible physical sinks include Load PNodes, Custom Load Aggregation Points and System Resources); (c) for each physical source or sink, the maximum Existing Rights capacity (MW) that can be scheduled as an Existing Right under the Existing Contract; and (d) for each physical source and sink, the Scheduling Coordinator(s) and their Business Associate Identification (BAID) that is(are) eligible to submit ETC Self-Schedules utilizing these sources and sinks;
- (6) Names of the party(ies) to the Existing Contract(s);
- (7) The Scheduling Coordinator BAID that is entitled to the Settlement of reversal of Congestion Charges;
- (8) Type(s) of service rights by the holder of the Existing Rights, by type of service (firm, conditional firm, or non-firm), with priorities for firm and conditional firm transmission services and maximum amounts of service rights in MW;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (9) Instructions for the allowable timeframes at which the ETC Self-Schedules and ETC Self-Schedule changes may be submitted to the CAISO, which include whether the Scheduling Coordinator may submit ETC Self-Schedules or ETC Self-Schedule changes: (a) into the DAM; (b) into the HASP and the RTM; (c) after the close of submitting Bids into the HASP and the RTM, but before twenty (20) minutes before the applicable Trading Hour of the Trading Day; and (d) at or after twenty (20) minutes before the applicable Trading Hour of the Trading Day; in addition, the TRTC Instructions may also include any additional comments and restrictions on the submission time of ETC Self-Schedules and ETC Self-Schedule changes;
- (10) Term or service period(s) of the Existing Contract(s);
- (11) Any special procedures that would require the CAISO to implement curtailments in any manner different from pro rata reduction of the transfer capability of the transmission line; any such TRTC Instructions submitted to the CAISO must be clear, unambiguous, and not require the CAISO to make any judgments or interpretations as to the meaning intent, results, or purpose of the curtailment procedures or the Existing Contract and the section of the Existing Contract that provides this right for reference, otherwise, they will not be accepted by the CAISO;
- (12) The forecasted usage patterns for each Existing Contract for the upcoming annual period of the annual CRR release processes as well as for the upcoming monthly period of the monthly CRR release processes, which will consist of hourly MWh data over the whole year for those resources that will use the Existing Contract; this information will be considered by the CAISO in managing its accounting for usage of Existing Rights in the release of CRRs; this information shall not be used by the CAISO to validate ETC Self-Schedules when submitted by Scheduling Coordinators and therefore shall not affect the Existing Rights holder's ability to utilize its rights under the Existing Contract;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (13) Whether or not the Existing Contract provides for the right to self-provide Ancillary Services; and
- (14) Specification of any contract requirements in the ETC that warrants special consideration in the implementation of the physical rights under the ETC.

16.4.6 Changes And Updates To TRTC Instructions

Updates or changes to the TRTC Instructions must be submitted to the CAISO through a revised set of TRTC Instructions by the Participating TO, on an as needed or as required basis determined by the parties to the Existing Contracts. The CAISO will implement the updated or changed TRTC Instructions as soon as practicable but no later than seven (7) days after receiving clear and unambiguous details of the updated or changed instructions under normal conditions. If the CAISO finds the TRTC Instructions to be inconsistent with the CAISO Tariff, the CAISO will notify the Participating TO within forty-eight (48) hours after receipt of the updated or changed TRTC Instructions indicating the nature of the problem and allowing the Participating TO to resubmit the TRTC Instructions as if they were new, updated or changed TRTC Instructions. If the CAISO finds the updated or changed TRTC Instructions to be acceptable, the CAISO will time-stamp the updated TRTC Instructions as received, confirm such receipt to the Participating TO, and indicate the time at which the updated TRTC Instructions take effect if prior to the seven (7) day deadline referred to above. In the event of a System Emergency, the CAISO will implement such submitted changes to the TRTC Instructions as soon as practical.

16.4.7 Treatment Of TRTC Instructions

16.4.7.1 TRTC Instructions Can Be Exercised Independently

To the extent that the TRTC Instructions can be exercised independently of the CAISO by the parties to the Existing Contract and the results forwarded to the CAISO, the TRTC Instructions shall be exercised by the Participating TOs, and the outcomes shall be forwarded to the CAISO. The determination of whether the TRTC Instructions can be "exercised independently of the CAISO by the parties to the Existing Contract" shall be made using the same procedures described in Section 16.4.8.

16.4.7.2 TRTC Instructions Cannot Be Exercised Independently

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

To the extent that the TRTC Instructions cannot be exercised independently of the CAISO and the results forwarded to the CAISO (because, for example, they require iteration with the CAISO's Bid submission and scheduling process, would unduly interfere with the CAISO's management of the Real-Time Market, including curtailments, or would unduly interfere with the ability of the holder of rights to exercise its rights), the TRTC Instructions will be provided to the CAISO for day-to-day implementation. The TRTC Instructions will be provided by the Participating TO to the CAISO for implementation unless the parties to the Existing Contracts otherwise agree that the holder of the Existing Rights will do so. For these TRTC Instructions, the Scheduling Coordinators representing the holders of Existing Rights will submit their Bids to the CAISO for implementation in accordance with the TRTC Instructions. In this case, the CAISO shall act as the scheduling agent for the Participating TO with regard to Existing Rights.

16.4.8 CAISO Role In Existing Contracts

The CAISO will have no role in interpreting Existing Contracts. The parties to an Existing Contract will, in the first instance, attempt jointly to agree on any TRTC Instructions that will be submitted to the CAISO. In the event that the parties to the Existing Contract cannot agree upon the TRTC Instructions submitted by the parties to the Existing Contract, the dispute resolution provisions of the Existing Contract, if applicable, shall be used to resolve the dispute; provided that, until the dispute is resolved, and unless the Existing Contract specifies otherwise, the CAISO shall implement the Participating TO's TRTC Instructions. If both parties to an Existing Contract are Participating TOs and the parties cannot agree to the TRTC Instructions submitted by the parties, until the dispute is resolved, and unless the Existing Contract specifies otherwise, the CAISO shall implement the TRTC Instructions of the first Participating TO for which the Existing Contract is an Encumbrance. The CAISO shall not be responsible for resolution of any disputes that arise over the accuracy of the TRTC Instructions consistent with its obligations in Section 16.4.5.

16.4.9 Implementation Of TRTC Instructions

The CAISO shall determine, based on the information provided by the Participating TOs under TRTC Instructions, the transmission capacities that (i) must be reserved for firm Existing Rights at Scheduling Points, (ii) may be allocated for use as CAISO transmission service (i.e., new firm uses), (iii) must be reserved by the CAISO for conditional firm Existing Rights, and (iv) remain for any non-firm Existing Rights for which a Participating TO has no discretion over whether or not to provide such non-firm service.

The CAISO shall coordinate the scheduling of Existing Rights with the scheduling of CAISO transmission service, using the CAISO's Bid submission rules. In doing so, the CAISO shall create an automated day-to-day verification process based on parameters provided by the Participating TO for the Existing Contract to serve as the basis for ETC Self-Schedule validation. The Participating TO will be responsible for: (1) the accuracy of the data files against which the CAISO will validate the ETC Self-Schedule; and (2) providing the data file to the holder of Existing Rights as well as the CAISO.

The CAISO shall recognize that the obligations, terms or conditions of Existing Contracts may not be changed without the voluntary consent of all parties to the contract (unless such contract may be changed pursuant to any applicable dispute resolution provisions in the contract or pursuant to Section 205 or Section 206 of the FPA and the FERC's Rules and Regulations or as otherwise provided by law).

The parties to Existing Contracts shall remain liable for their performance under the Existing Contracts.

The CAISO shall be liable in accordance with the provisions of this CAISO Tariff for any damage or injury caused by its non-compliance with the TRTC Instructions submitted to it pursuant to this Section 16.4.

Unless specified otherwise, in the event that the dispute resolution mechanisms prescribed in an Existing Contract, including all recourses legally available under the contract, cannot, in the first instance, result in a resolution of such a dispute, the CAISO ADR Procedures will be used to resolve any disputes between the CAISO and the Participating TO regarding any aspects of the implementation of this Section 16.4, including the reasonableness of a Participating TO's TRTC Instructions or any other decision rules which the Participating TO may submit to the CAISO as part of the TRTC Instructions. The holders of Existing Rights under the Existing Contract shall have standing to participate in the CAISO ADR Procedures.

16.5 Treatment Of Existing Contracts For Transmission Service

The CAISO will accommodate Existing Rights, so that the holders of Existing Rights will receive the same priorities (in scheduling, curtailment, assignment and other aspects of transmission system usage) to which they are entitled under their Existing Contracts.

In addition, scheduling deadlines and operational procedures associated with Existing Rights will be honored by the CAISO, provided such information is explicitly included in the TRTC Instructions. The CAISO will accommodate and honor Existing Rights as follows:

- (1) For Existing Rights that permit Interchange Schedule changes over Scheduling Points with other Balancing Authority Areas, the CAISO will reserve transmission capacity equal to the Existing Rights transmission capacity and make a corresponding adjustment in its determination of ATC. For Existing Rights that permit Interchange Schedule changes after the Market Close of the Day-Ahead Market, the CAISO will reserve transmission capacity equal to the unscheduled ETC amount of transmission capacity for that Scheduling Point.
- (2) For Existing Rights within the CAISO Balancing Authority Area, the CAISO will not set-aside capacity associated with the Existing Rights transmission capacity.
- (3) In the HASP, the CAISO will give valid ETC Self-Schedules priority over other non-ETC Day-Ahead Schedules and HASP Bids. In the event of a reduction in capacity on the transmission path associated with the Existing Right, the CAISO will honor the Existing Rights priority in accordance with this Section 16.
- (4) When the Existing Contract permits, the CAISO will allow the holder of Existing Rights to make changes to the scheduled amounts of Supply after the submission of HASP ETC Self-Schedules in accordance with the TRTC Instructions established for such changes. The CAISO will, as necessary, redispatch non-ETC resources to accommodate valid ETC Self-Schedule changes in Real-Time.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (5) All contractual provisions that have been communicated to the CAISO in writing in accordance with this Section 16 by the parties to the Existing Contracts, shall be honored by the CAISO and the parties to the Existing Contracts and shall be implemented by the CAISO in accordance with the terms and conditions of the relevant Existing Contracts so notified.

16.5.1 System Emergency Exceptions

As set forth in Section 4.2.1, all Market Participants, including Scheduling Coordinators, Utility Distribution Companies, Participating TOs, Participating Generators, Participating Loads, Demand Response Providers, Balancing Authorities (to the extent the agreement between the Balancing Authority and the CAISO so provides), and MSS Operators within the CAISO Balancing Authority Area and all System Resources must comply fully and promptly with CAISO Dispatch Instructions and operating orders, unless such operation would impair public health or safety. The CAISO will honor the terms of Existing Contracts, provided that in a System Emergency and circumstances in which the CAISO considers that a System Emergency is imminent or threatened, holders of Existing Rights must follow CAISO operating orders even if those operating orders directly conflict with the terms of Existing Contracts, unless such operating orders are inconsistent with the terms of an agreement between the CAISO and a Balancing Authority. In the event of a conflict between the CAISO Tariff and an agreement between the CAISO and a Balancing Authority, the agreement will govern. For this purpose CAISO operating orders to shed Load shall not be considered as an impairment to public health or safety. This section does not prohibit a Scheduling Coordinator from modifying its Bid or re-purchasing Energy in the HASP or Real-Time Market.

16.6 Valid ETC Self-Schedules

The CAISO will accept a valid ETC Self-Schedule from a Scheduling Coordinator. That Scheduling Coordinator shall be either the holder of Existing Rights or its designee, the Participating TO, (in the case that no Scheduling Coordinator has been so identified by the parties to the Existing Contract, the Participating TO shall be the Scheduling Coordinator for the holder of the Existing Contract). ETC Self-Schedules submitted by Scheduling Coordinators to the CAISO, which use Existing Rights, must be submitted in accordance with this CAISO Tariff.

16.6.1 Validation Of ETC Self-Schedules

An ETC Self-Schedule is a valid ETC Self-Schedule when the CAISO has determined that the ETC Self-Schedule, submitted to the CAISO pursuant to the requirements for Bids in Sections 30, properly reflects Existing Rights consistent with the TRTC Instructions, is labeled with a unique Existing Contract identifier, and includes balanced sources and sinks, within the ETC's capacity limits.

16.6.2 Treatment Of Invalid ETC Self-Schedules

16.6.2.1 Inconsistent with the TRTC Instructions

Except for the reasons listed below in 16.6.2, if the CAISO finds that the ETC Self-Schedule is not consistent with the TRTC Instructions, the CAISO shall find that the ETC Self-Schedule is not valid. If the CAISO finds the ETC Self-Schedule to be invalid, the CAISO shall notify the Scheduling Coordinator and convert the ETC Self-Schedule to an ordinary Self-Schedule and treat the ETC Self-Schedule as an ordinary Self-Schedule as such for terms of scheduling priority and Settlements. Where multiple ETC, TOR or Converted Rights Self-Schedules are submitted in an ETC, TOR or Converted Rights chain, in order for all ETC, TOR, or Converted Rights Self-Schedules in the chain to continue to remain valid, all individual ETC, TOR, or Converted Rights Self-Schedules links in the chain must remain individually valid, including the simultaneous but separate use of an individual ETC, TOR or Converted Rights Self-Schedule, in order for the chain to remain valid.

16.6.2.2 Unbalanced ETC Self-Schedules

If the ETC Self-Schedule is not balanced, the ETC Self-Schedule will not be a valid ETC Self-Schedule and the CAISO will: (i) remove any scheduling priority for the entire ETC Self-Schedule; (ii) apply the ETC Settlement treatment pursuant to Sections 11.2.1.5 and 11.5.7.1 to the valid balanced portions only; and (iii) assess any charges, and make any payments, consistent with the treatment of ordinary Self-Schedules for the unbalanced portions.

16.6.2.3 Exceeds Capacity Limits in Existing Contracts as Reflected in TRTC Instructions

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

If the ETC Self-Schedule exceeds the capacity limits in Existing Contracts as reflected in TRTC Instructions, the ETC Self-Schedule will not be a valid ETC-Self-Schedule and the CAISO will: (i) remove any scheduling priority for the entire ETC Self-Schedule; (ii) apply the ETC Settlement treatment pursuant to Sections 11.2.1.5 and 11.5.7.1 to the valid balanced portions within the capacity limits of the Existing Contract as reflected in the TRTC Instructions; and (iii) assess any charges, and make any payments, consistent with the treatment of ordinary Self-Schedules for the portions in excess of the capacity limits of the Existing Contract as reflected in the TRTC Instructions.

16.6.3 Treatment Of Valid ETC Self-Schedules

The resulting valid ETC Self-Schedules shall have the following Settlement treatment:

- (1) The CAISO will apply the ETC Settlement treatment in Sections 11.2.1.5 and 11.5.7.1.
- (2) The CAISO shall base the Marginal Cost of Losses on LMP differentials at the Existing Contract source(s) and sink(s) identified in the valid ETC Self-Schedule.
- (3) The holders of Existing Rights will not be entitled to an allocation of revenues from the CAISO, including Access Charge revenue related to those Existing Rights.
- (4) Parties with Existing Rights shall continue to pay for Transmission Losses or Ancillary Services requirements in accordance with such Existing Contracts as they may be modified or changed in accordance with the terms of the Existing Contract. The Participating TOs shall continue to provide Transmission Losses and any other Ancillary Services to the holder of the rights under an Existing Contract as may be required by the Existing Contract. The CAISO will charge Scheduling Coordinators submitting the ETC Self-Schedule for Transmission Losses and Ancillary Services in accordance with the CAISO Tariff and any shortfall or surplus between the CAISO charges and the Existing Rights shall be settled bilaterally between the Existing Contract parties or through the relevant TO Tariff. To enable holders of Existing Rights to determine whether the CAISO's calculations result in any associated shortfall or surplus and to enable

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

the parties to the Existing Contracts to settle the differences bilaterally or through the relevant TO Tariff, the CAISO shall calculate and provide the Scheduling Coordinator's Settlements the amounts paid for the MCL for the amounts of MWh submitted with a valid ETC Self-Schedule. Each Participating TO will be responsible for recovering any deficits or crediting any surpluses associated with differences in Transmission Losses and Transmission Loss requirements and/or Ancillary Services requirements, through its bilateral arrangements or its Transmission Owner Tariff.

16.6.4 Notification To SCs Of CAISO Determination

After performing validation of the ETC Self-Schedule, and prior to taking any action pursuant to Section 16.6.2, the CAISO will make an automated validation notice available to the Scheduling Coordinator indicating whether the ETC Self-Schedule is valid or invalid. If an ETC Self-Schedule involves more than one Scheduling Coordinator, the complete validation of the chain of ETC Self-Schedules will occur when the last Scheduling Coordinator submits its ETC Self-Schedule. At that time, the CAISO will make an automated validation notice available to each Scheduling Coordinator registered as associated with the chain of ETC Self-Schedules. The CAISO can accommodate corrections submitted by a Scheduling Coordinator to an ETC Self-Schedule up to Market Close of the Day-Ahead Market as further described in the applicable Business Practice Manual.

16.7 [NOT USED]

16.8 [NOT USED]

16.9 The HASP

16.9.1 Scheduling Deadlines

Those holders of Existing Rights who have Existing Rights as reflected in the TRTC Instructions that allow scheduling after the close of the Day-Ahead Market may submit ETC Self-Schedules for the use of those rights by the deadline for the Market Close for the HASP. Submission of schedule changes beyond the Market Close for the HASP permitted by the ETC will be treated as provided in Section 33.3.

16.10 The CAISO'S Real-Time Process

Consistent with this Section 16, the CAISO will honor those scheduling flexibilities that may be exercised by holders of Existing Rights through their respective Scheduling Coordinators during the CAISO's Real-Time Market to the extent that such flexibilities do not interfere with or jeopardize the safe and reliable operation of the CAISO Controlled Grid or Balancing Authority Area operations.

16.11 Inter-Balancing Authority Area ETC Self-Schedule Bid Changes

Changes to ETC Self-Schedules that occur during the CAISO's Real-Time Market that involve changes to CAISO Balancing Authority Area imports or exports with other Balancing Authority Areas (that is, inter-Balancing Authority Area changes to ETC Self-Schedules) will be allowed and will be recorded by the CAISO based upon notification received from the Scheduling Coordinator representing the holder of the Existing Rights. The Scheduling Coordinator representing the holder of the Existing Right must notify the CAISO of any such changes to external import/export in submitted ETC Self-Schedules. The Scheduling Coordinator representing the holder of the Existing Right must notify the CAISO of Real-Time Market changes to external import/export Interchange Schedules in submitted ETC Self-Schedules, by telephone. The timing and content of any such notification must be consistent with the TRTC Instructions previously submitted to the CAISO by the Responsible PTO. The CAISO will manually adjust or update the HASP Intertie Schedule for the Scheduling Coordinator to conform with the other Balancing Authority Area's net ETC Self-Schedule in Real-Time, and the notifying Scheduling Coordinator will be responsible for and manage any resulting Energy imbalance. These Imbalance Energy deviations will be priced and charged to the Scheduling Coordinator representing the holder of Existing Rights in accordance with the Real-Time LMP.

16.12 Intra-Balancing Authority Area ETC Self-Schedule Changes

Changes to ETC Self-Schedules that occur during the CAISO's Real-Time processes that do not involve changes to CAISO Balancing Authority Area imports or exports with other Balancing Authority Areas (that is, intra-Balancing Authority Area changes to Schedules) will be allowed and will give rise to Imbalance Energy deviations. These Imbalance Energy deviations will be priced and charged to the Scheduling Coordinator representing the holder of Existing Rights in accordance with the Real-Time LMP.

17. Transmission Ownership Rights (TORs)

Transmission Ownership Rights represent transmission capacity on facilities that are located within the CAISO Balancing Authority Area that are either wholly or partially owned by an entity that is not a Participating TO. This Section 17 shall apply to the TORs of Non-Participating TOs. In any case in which (i) the CAISO has entered into a bilateral agreement with a Non-Participating TO regarding its TORs or (ii) a Participating TO has entered into a bilateral agreement with a Non-Participating TO regarding its TORs, the provisions of the agreement shall prevail over any conflicting provisions of this Section 17. Where the provisions of this Section 17 do not conflict with the provisions of the agreement, the provisions of this Section 17 shall apply to the subject TORs.

17.1 TRTC Instructions

17.1.1 Responsibility To Create TRTC Instructions

To enable the CAISO to exercise its responsibilities as Balancing Authority in accordance with Applicable Reliability Criteria, each Non-Participating TO holding a TOR must work with the CAISO to develop the TRTC Instructions that allow the TOR to be accommodated in a way that: (i) maintains the existing scheduling and curtailment priorities of the TOR holder; (ii) is minimally burdensome to the CAISO (i.e., creates the least impact on the CAISO's preferred operational policies and procedures); (iii) to the extent possible, imposes no additional financial burden on the TOR holder (beyond that set forth in an applicable Existing Contract or any other contract pertaining to the TOR); (iv) is minimally burdensome to the TOR holder from an operational point of view; and (v) does not require the CAISO to interpret or underwrite the economics of any applicable Existing Contract. To enable the CAISO to exercise its responsibilities as Balancing Authority in accordance with Applicable Reliability Criteria, the parties holding joint ownership interests and Entitlements in facilities including TORs must attempt to jointly develop and agree on any TRTC Instructions that will be submitted to the CAISO, as provided in Section 17.1.6.

17.1.2 TOR Scheduling Coordinator Responsibilities

To enable the CAISO to exercise its responsibilities as Balancing Authority in accordance with Applicable Reliability Criteria, each TOR holder must designate a Scheduling Coordinator as the responsible entity for submitting TOR Self-Schedules for the relevant TOR. The designated Scheduling Coordinator shall submit TOR Self-Schedules consistent with the terms and conditions specified in the TRTC Instructions.

17.1.3 Submission Of TRTC Instructions

For each TOR, the Non-Participating TO holding the TOR shall be obligated to submit TRTC Instructions to the CAISO electronically, unless the Non-Participating TO specifies to the CAISO otherwise. The Non-Participating TO shall notify the CAISO in writing the identity of the responsible party for submission of the TRTC Instructions, subject to the terms of any applicable Existing Contract that may specify the responsible party for submission of the TRTC Instructions and the term of such agreement between the parties to the Existing Contract. The Non-Participating TO shall undertake all obligations with respect to the submission of the TRTC Instructions to the CAISO and any subsequent obligations that follow with respect to the creation, management and updates to the TRTC Instructions. The CAISO is responsible for implementing only one set of TRTC Instructions for each TOR and for implementing only those TRTC Instructions that have been received and accepted by the CAISO. The Non-Participating TO shall submit the TRTC Instructions to the CAISO associated with its TORs thirty (30) days prior to the date on which the scheduling or curtailment of the use of the TORs is to change or commence.

17.1.4 TRTC Instructions Content

TRTC Instructions will include the following information at a minimum and such other information as the CAISO may reasonably require the Non-Participating TO holder of a TOR to provide to enable the CAISO to carry out its functions under the CAISO Tariff, Operating Procedures and Business Practice Manuals:

- (1) A unique Contract Reference Number for each source and sink combination applicable to the TOR (i.e., the CRN that will be assigned by the CAISO and communicated to the Non-Participating TO that references a single TOR or a set of interdependent TORs for each source and sink combination);
- (2) Whether the instruction can be exercised independent of the CAISO's day-to-day involvement ("Yes/No");
- (3) Name of an operational single point of contact for instructions and a 24-hour a day telephone number for the Non-Participating TO contact for TOR issues or the agreed upon party;
- (4) Name(s) and number(s) of TOR(s) that are represented by the unique CRN;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (5) The following information, as stored in the Master File: (a) the applicable Point(s) of Receipt and Point(s) of Delivery); (b) for each Point of Receipt, the resource names for the physical resources as the eligible sources (eligible physical sources include Generating Units and System Resources), and for each Point of Delivery, the resource names for the physical resources as the eligible sinks (eligible physical sinks include Load PNodes, Custom Load Aggregation Points and System Resources); (c) for each physical source or sink, the maximum capacity (MW) that can be scheduled as a TOR; and (d) for each physical source and sink, the Scheduling Coordinator(s) and their Business Associate Identification (BAID) that is (are) eligible to submit TOR Self-Schedules utilizing these sources and sinks;
- (6) Names of the party(ies) holding the TOR(s) and the parties to any agreements applicable to the TORs;
- (7) The Scheduling Coordinator BAID that is entitled to the Settlement of reversal of Congestion Charges;
- (8) Amount of TORs, in maximum MW, that may be utilized under the relevant TRTC Instructions;
- (9) Instructions for the allowable timeframes at which the TOR Self-Schedules and TOR Self-Schedule changes may be submitted to the CAISO, which include whether the Scheduling Coordinator may submit TOR Self-Schedules or TOR Self-Schedule changes: (a) into the DAM; (b) into the HASP and the RTM; (c) after the close of submitting Bids into the HASP and the RTM, but before twenty (20) minutes before the applicable Trading Hour of the Trading Day; and (d) at or after twenty (20) minutes before the applicable Trading Hour of the Trading Day; in addition, the Non-Participating TO may also provide any additional comments and restrictions on the submission time of TOR Self-Schedules and TOR Self-Schedule changes;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (10) Term of ownership interest in the TOR(s) and of any agreements applicable to the TOR(s);
- (11) Any special procedures that would require the CAISO to implement curtailments in any manner different than pro rata reduction of the transfer capability of the transmission line; any such instructions submitted to the CAISO must be clear, unambiguous, and not require the CAISO to make any judgments or interpretations as to the meaning, intent, results, or purpose of the curtailment procedures or of any applicable Existing Contract, otherwise, they will not be accepted by the CAISO; and
- (12) Whether or not the TOR provides the right to self-provide Ancillary Services.

17.1.5 Changes And Updates To TRTC Instructions

Updates or changes to the TRTC Instructions must be submitted to the CAISO through a revised set of TRTC Instructions by the Non-Participating TO, on an as needed or as required basis. The CAISO will implement the updated or changed TRTC Instructions as soon as practicable but no later than seven (7) days after receiving clear and unambiguous details of the updated or changed instructions under normal conditions. If the CAISO finds the TRTC Instructions to be inconsistent with the CAISO Tariff, the CAISO will notify the Non-Participating TO within forty-eight (48) hours after receipt of the updated or changed TRTC Instructions indicating the nature of the problem and allowing the Non-Participating TO to resubmit the TRTC Instructions as if they were new, updated or changed TRTC Instructions. If the CAISO finds the updated or changed TRTC Instructions to be acceptable, the CAISO will time-stamp the updated TRTC Instructions as received, confirm such receipt to the Non-Participating TO, and indicate the time at which the updated instructions take effect if prior to the seven (7) day deadline referred to above. In the event of a System Emergency, the CAISO will implement such submitted changes to the TRTC Instructions as soon as practical.

17.1.6 CAISO Role In Accepting TRTC Instructions

The parties holding joint ownership interests and Entitlements in a facility including a TOR must, in the first instance, attempt jointly to agree on any TRTC Instructions that will be submitted to the CAISO. In the event that the parties holding joint ownership interests and Entitlements in a facility including a TOR cannot agree upon the TRTC Instructions, the dispute resolution provisions of any applicable Existing Contract shall be used to resolve the dispute; provided that, until the dispute is resolved, and unless the applicable Existing Contract specifies otherwise, the CAISO shall implement the Participating TO's TRTC Instructions, if one of the parties holding a joint ownership interest or an Entitlement in the facility is a Participating TO. If no party holding a joint ownership interest or Entitlement in a facility including a TOR is a Participating TO and the parties cannot agree to the TRTC Instructions to be submitted by the parties, until the dispute is resolved, the CAISO shall implement the TRTC Instructions of the Non-Participating TO with the greatest ownership interest in the TOR. The CAISO shall not be responsible for resolution of any disputes that arise over the accuracy of the TRTC Instructions consistent with its obligations in Section 17.1.4.

17.1.7 Implementation Of TRTC Instructions

The CAISO shall determine, based on the information provided by the Non-Participating TOs under TRTC Instructions, the transmission capacities that must be reserved for TORs at Scheduling Points.

The CAISO shall coordinate the scheduling of TORs with the scheduling of CAISO transmission service, using the CAISO's Bid submission rules. In doing so, the CAISO shall create an automated day-to-day verification process based on parameters provided by the Non-Participating TO for the TOR to serve as the basis for TOR Self-Schedule validation. The Non-Participating TO will be responsible for: (1) the accuracy of the data files against which the CAISO will validate the TOR Self-Schedule; and (2) providing the data file to the CAISO.

The TOR holders shall remain liable for their performance under any applicable Existing Contracts or other agreements pertaining to their TORs. The CAISO shall be liable in accordance with the provisions of this CAISO Tariff for any damage or injury caused by its non-compliance with the TRTC Instructions submitted to it pursuant to this Section 17.1.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Unless specified otherwise, in the event that the dispute resolution mechanisms prescribed in an Existing Contract applicable to a TOR, including all recourses legally available under the contract, cannot, in the first instance, result in a resolution of such a dispute, the CAISO ADR Procedures will be used to resolve any disputes between the CAISO and the Non-Participating TO regarding any aspects of the implementation of this Section 17.1, including the reasonableness of a Non-Participating TO's TRTC Instructions or any other decision rules which the Non-Participating TO may submit to the CAISO as part of the TRTC Instructions. The holders of TORs shall have standing to participate in the CAISO ADR Procedures.

17.2 Treatment Of TORs

The CAISO will accommodate TORs, so that the holders of TORs will receive the same priorities (in scheduling, curtailment, assignment and other aspects of transmission system usage) to which they are entitled under any applicable Existing Contracts or other agreements pertaining to the operation of their TORs.

In addition, scheduling deadlines and operational procedures associated with TORs will be honored by the CAISO, provided such information is explicitly included in the TRTC Instructions. The CAISO will accommodate and honor TORs as follows:

- (1) The CAISO will reserve transmission capacity equal to the TOR transmission capacity and make a corresponding adjustment in its determination of ATC. The CAISO will not limit parallel flow from flowing on TOR transmission capacity consistent with the redispatch provisions of Section 17.2(3), just as the CAISO does not limit TOR Self-Schedules from flowing on non-TOR transmission. There shall be no compensation for parallel flow for either the CAISO or the TOR holder.
- (2) In the HASP, the CAISO will give valid TOR Self-Schedules priority over other non-TOR Day-Ahead Schedules and HASP Bids. In the event of a reduction in capacity on the transmission path associated with the TOR, the CAISO will honor the TOR priority in accordance with this Section 17.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (3) The CAISO will allow the holder of a TOR to make changes to the scheduled amounts of supply after the submission of HASP TOR Self-Schedules in accordance with the TRTC Instructions established for such changes. The CAISO will, as necessary, redispatch non-TOR resources to accommodate valid TOR Self-Schedule changes in Real-Time.
- (4) The CAISO will allow the holder of a TOR to self-provide Ancillary Services, which will include the ability of the holder of a TOR to import Ancillary Services at Scheduling Points with the CAISO.
- (5) The submission of a TOR Self-Schedule change that is authorized pursuant to an applicable existing agreement shall not affect the application of the IFM Congestion Credit or the HASP and RTM Congestion Credit, and the IFM Marginal Cost of Losses Credit for Eligible TOR Self-Schedules or the RTM Marginal Cost of Losses Credit for Eligible TOR Self-Schedules for a TOR Self-Schedule that satisfies the applicable requirements of Sections 17.4.1 and 17.5.

17.2.1 System Emergency Exceptions

As set forth in Section 4.2.1, all Market Participants, including Scheduling Coordinators, Utility Distribution Companies, Participating TOs, Participating Generators, Participating Loads, Demand Response Providers, Balancing Authorities (to the extent the agreement between the Balancing Authority and the CAISO so provides), and MSS Operators within the CAISO Balancing Authority Area and all System Resources must comply fully and promptly with the CAISO's Dispatch Instructions and operating orders, unless such operation would impair public health or safety. The CAISO will honor the terms of TORs, provided that in a System Emergency and circumstances in which the CAISO considers that a System Emergency is imminent or threatened, to enable the CAISO to exercise its responsibilities as Balancing Authority in accordance with Applicable Reliability Criteria, holders of TORs must follow CAISO operating orders even if those operating orders directly conflict with the terms of applicable Existing Contracts or any other contracts pertaining to the TORs, unless such operating orders are inconsistent with the terms of an agreement between the CAISO and a Balancing Authority. In the event of a conflict between the CAISO Tariff and an agreement between the CAISO and a Balancing Authority, the agreement will

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

govern. For this purpose CAISO operating orders to shed Load shall not be considered as an impairment to public health or safety. This section does not prohibit a Scheduling Coordinator from modifying its Bid or re-purchasing Energy in the HASP or RTM.

17.3 Valid TOR Self-Schedules

The CAISO will accept a valid TOR Self-Schedule from a Scheduling Coordinator. That Scheduling Coordinator shall be either the holder of the TOR or its designee. TOR Self-Schedules submitted by Scheduling Coordinators to the CAISO must be submitted in accordance with this CAISO Tariff.

17.3.1 Validation Of TOR Self-Schedules

A TOR Self-Schedule is a valid TOR Self-Schedule when the CAISO has determined that the TOR Self-Schedule, submitted to the CAISO pursuant to the requirements for Bids in Section 30, properly reflects TORs consistent with the TRTC Instructions, is labeled with a unique TOR identifier, and includes balanced sources and sinks, within the TOR capacity limits.

17.3.2 Treatment Of Invalid TOR Self-Schedules

17.3.2.1 Inconsistent with the TRTC Instructions

Except for the reasons listed below in 17.3.2, if the CAISO finds that the TOR Self-Schedule is not consistent with the TRTC Instructions, the CAISO shall find that the TOR Self-Schedule is not valid. If the CAISO finds the TOR Self-Schedule to be invalid, the CAISO shall notify the Scheduling Coordinator and convert the TOR Self-Schedule to an ordinary Self-Schedule and treat the TOR Self-Schedule as an ordinary Self-Schedule as such for terms of scheduling priority and Settlements. Where multiple ETC, TOR or Converted Rights Self-Schedules are submitted in an ETC, TOR or Converted Rights chain, in order for all ETC, TOR, or Converted Rights Self-Schedules in the chain to continue to remain valid, all individual ETC, TOR, or Converted Rights Self-Schedules links in the chain must remain individually valid, including the simultaneous but separate use of an individual ETC, TOR or Converted Rights Self-Schedule, in order for the chain to remain valid.

17.3.2.2 Unbalanced TOR Self-Schedules

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

If the TOR Self-Schedule is not balanced, the TOR Self-Schedule will not be a valid TOR Self-Schedule and the CAISO will: (i) remove any scheduling priority for the entire TOR Self-Schedule; (ii) apply the TOR Settlement treatment pursuant to Sections 11.2.1.5 and 11.5.7.1 to the valid balanced portions only; and (iii) assess any charges and make any payments consistent with the treatment of ordinary Self-Schedules for the unbalanced portions.

17.3.2.3 Exceeds Capacity Limits for TORs as Reflected in TRTC Instructions

If the TOR Self-Schedule exceeds the capacity limits of the TOR as reflected in TRTC Instructions, the TOR Self-Schedule will not be a valid TOR-Self-Schedule and the CAISO will: (i) remove any scheduling priority for the entire TOR Self-Schedule; (ii) apply the TOR Settlement treatment pursuant to Sections 11.2.1.5 and 11.5.7.1 to the valid balanced portions within the capacity limits of the TOR as reflected in the TRTC Instructions; and (iii) assess any charges and make any payments consistent with the treatment of ordinary Self-Schedules for the portions in excess of the capacity limits of the TOR as reflected in the TRTC Instructions.

17.3.3 Settlement Treatment Of Valid TOR Self-Schedules

The resulting valid TOR Self-Schedules shall have the following Settlement treatment:

- (1) The CAISO will apply the TOR Settlement treatment in Sections 11.2.1.5 and 11.5.7.
- (2) The CAISO shall base the Marginal Cost of Losses on LMP differentials at the Points of Receipt and Points of Delivery identified in the valid TOR Self-Schedule; provided, however, that if a specific loss percentage exists in an applicable agreement between the TOR holder and the CAISO or an existing agreement between the TOR holder and a Participating TO, the CAISO will apply the IFM and RTM Marginal Cost of Losses Credit as provided in Sections 11.2.1.7 and 11.5.7.2. In any case in which the TOR holder has an existing agreement regarding its TORs with either the CAISO or a Participating TO, the provisions of the agreement shall prevail over any conflicting provisions of this Section 17.3.3(2). Where the provisions of this Section 17.3.3(2) do not conflict

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

with the provisions of the agreement, the provisions of this Section 17.3.3(2) shall apply to the subject TORs.

- (3) The CAISO will assess only charges applicable to Ancillary Services, Imbalance Energy, Transmission Losses, and Grid Management Charges for the use of a TOR and will not assess charges for neutrality, UFE, transmission Access Charges, Minimum Load Costs, or other charges that might otherwise be applicable to the Demand or exports served solely over the TOR. The CAISO will assess charges applicable to Ancillary Services for the use of a TOR only to the extent that the CAISO must procure Ancillary Services for the TOR holder because Ancillary Services are not self-provided by the TOR holder. The CAISO will assess charges applicable to Imbalance Energy for the use of a TOR only if the CAISO must procure Imbalance Energy for the TOR holder. The CAISO will assess Grid Management Charges for the use of a TOR only in accordance with the provisions of Section 11.22 and Appendix F, Schedule 1.
- (4) The holders of TORs will not be entitled to an allocation of revenues from the CAISO, including Access Charge revenues; provided that the Scheduling Coordinator for the TOR holder shall be allocated the applicable amount of IFM Marginal Losses Surplus Credit in accordance with the provisions of Section 11.2.1.6, except for any TOR Self-Schedule that received the IFM Marginal Cost of Losses Credit.
- (5) Parties with TORs shall continue to pay for Transmission Losses or Ancillary Services requirements in accordance with any Existing Contracts applicable to those TORs as they may be modified or changed in accordance with the terms of the Existing Contract. Any affected Participating TOs shall continue to provide Transmission Losses and any other Ancillary Services to the holder of a TOR subject to an Existing Contract as may be required by the Existing Contract. As described in Section 17.3.3(3) above, the CAISO will charge Scheduling Coordinators submitting the TOR Self-Schedule the charges applicable to

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Transmission Losses, Ancillary Services, and Imbalance Energy in accordance with the CAISO Tariff (e.g., the Transmission Losses Charge based on the Marginal Cost of Losses), and any shortfall or surplus between the CAISO charges and the provisions of any applicable Existing Contract shall be settled bilaterally between the Existing Contract parties or through the relevant TO Tariff. To enable holders of TORs to determine whether the CAISO's calculations result in any associated shortfall or surplus and to enable the parties to the Existing Contracts to settle the differences bilaterally or through the relevant TO Tariff, the CAISO shall calculate and provide the Scheduling Coordinator's Settlements the amounts paid for the MCL for the amounts of MWh submitted with a valid TOR Self-Schedule. Each Participating TO will be responsible for recovering any deficits or crediting any surpluses associated with differences in Transmission Losses and Transmission Loss requirements and/or Ancillary Services requirements, through its bilateral arrangements or its Transmission Owner Tariff.

17.3.4 Notification To SCs Of CAISO Determination

After performing validation of the TOR Self-Schedule, and prior to taking any action pursuant to 17.6.2, the CAISO will make an automated validation notice available to the Scheduling Coordinator indicating whether the TOR Self-Schedule is valid or invalid. If a TOR Self-Schedule involves more than one Scheduling Coordinator, the complete validation of the chain of TOR Self-Schedules will occur when the last Scheduling Coordinator submits its TOR Self-Schedule. At that time, the CAISO will make an automated validation notice available to each Scheduling Coordinator registered as associated with the chain of TOR Self-Schedules. The CAISO can accommodate corrections submitted by a Scheduling Coordinator to a TOR Self-Schedule up to Market Close of the Day-Ahead Market as further described in the applicable Business Practice Manual.

17.4 The HASP

17.4.1 Scheduling Deadlines

Holders of TORs may submit TOR Self-Schedules for the use of those rights by the deadline for the Market Close for the HASP.

17.5 The CAISO'S Real-Time Process

Consistent with this Section 17, the CAISO will honor those scheduling flexibilities that may be exercised by holders of TORs through their respective Scheduling Coordinators during the CAISO's Real-Time Market to the extent that such flexibilities do not interfere with or jeopardize the safe and reliable operation of the CAISO Controlled Grid or Balancing Authority Area operations.

17.6 Inter-Balancing Authority Area TOR Self-Schedule Bid Changes

Changes to TOR Self-Schedules that occur during the CAISO's Real-Time Market that involve changes to CAISO Balancing Authority Area imports or exports with other Balancing Authority Areas (that is, inter-Balancing Authority Area changes to TOR Self-Schedules) will be allowed and will be recorded by the CAISO based upon notification received from the Scheduling Coordinator representing the holder of the TOR. The Scheduling Coordinator representing the holder of the TOR must notify the CAISO of any such changes to external import/export in submitted TOR Self-Schedules. The Scheduling Coordinator representing the holder of the TOR must notify the CAISO of Real-Time Market changes to external import/export Interchange Schedules in submitted TOR Self-Schedules, by telephone. The timing and content of any such notification must be consistent with the TRTC Instructions previously submitted to the CAISO by the Non-Participating TO. The CAISO will manually adjust or update the HASP Intertie Schedule for the Scheduling Coordinator to conform with the other Balancing Authority Area's net TOR Self-Schedule in Real-Time, and the notifying Scheduling Coordinator will be responsible for and manage any resulting Energy imbalance. These Imbalance Energy deviations will be priced and charged to the Scheduling Coordinator representing the holder of the TOR in accordance with the Real-Time LMP.

17.7 Intra-Balancing Authority Area TOR Self-Schedule Changes

Changes to TOR Self-Schedules that occur during the CAISO's Real-Time processes that do not involve changes to CAISO Balancing Authority Area imports or exports with other Balancing Authority Areas (that is, intra-Balancing Authority Area changes to Schedules) will be allowed and will give rise to Imbalance

Energy deviations. These Imbalance Energy deviations will be priced and charged to the Scheduling Coordinator representing the holder of the TOR in accordance with the Real-Time LMP.

17.8 Existing Contracts Re TORs For Non-Participating TOs

Continuation of Rights and Obligations of Non-Participating TOs Regarding TORs and Under Existing Contracts Applicable to TORs.

The transmission service rights and obligations of Non-Participating TOs under Existing Contracts applicable to their TORs, including all terms, conditions and rates of the Existing Contracts, as they may change from time to time under the terms of the Existing Contracts, will continue to be honored by the parties to those contracts, for the duration of those contracts.

17.8.1 Participating TO Obligation

If a Participating TO is a party to an Existing Contract with provisions applicable to a TOR of a Non-Participating TO, the Participating TO shall attempt to negotiate changes to the Existing Contract to align the contract's scheduling and operating provisions with the CAISO's scheduling and operational procedures, rules and protocols, to align operations under the contract with CAISO operations, and to minimize the contract parties' costs of administering the contract while preserving their financial rights and obligations.

17.8.2 Right To Use And Ownership Of TORs

If a Non-Participating TO has an Existing Contract with a Participating TO under which the Non-Participating TO's TORs, or a portion thereof, are subject to use by the Participating TO, the Non-Participating TO's rights to the use and ownership of its TORs shall remain unchanged, regardless of the Participating TO's act of turning over the Participating TO's Entitlement to use the Non-Participating TO's TORs to the extent possible to the Operational Control of the CAISO.

The CAISO will accept valid TOR Self-Schedules from holders of TORs that are Scheduling Coordinators or that are represented by a Scheduling Coordinator. TOR Self-Schedules submitted by Scheduling Coordinators to the CAISO must be submitted in accordance with Sections 17 and 30. The CAISO may refuse to accept TOR Self-Schedules that do not meet the requirements of the principles, protocols and rules referred to in this Section 17.

17.8.3 Dispute Resolution For Existing Contracts Applicable To TORs

The CAISO will, if requested, advise parties to Existing Contracts applicable to TORs regarding the operational aspects of any Existing Contract renegotiations that they undertake.

If the parties to an Existing Contract applicable to a TOR are unable to reach agreement on the changes needed to meet the requirements of this CAISO Tariff, any disputes related thereto shall be addressed using the dispute resolution provisions of the Existing Contract, including any remedies as are provided by law. The rights of the parties to seek changes or to challenge such changes, under the FPA or as otherwise provided by law, are preserved consistent with the terms of the Existing Contract. Unless and until the necessary changes to the Existing Contract are made, all terms and conditions of the Existing Contracts will continue to be honored by the parties to the Existing Contracts.

17.9 Conversion Of PTOs' Rights Under Existing Contracts Re TORs

Non-Participating TOs holding TORs and who choose to become Participating TOs must, at the time of becoming a Participating TO, turn over Operational Control of those TORs to the CAISO in accordance with Section 4.3.1 and convert any Existing Contract rights associated with those TORs to Converted Rights in accordance with Section 4.3.1.6.

17.10 TOR Operational Obligations

To enable the CAISO to exercise its responsibilities as Balancing Authority in accordance with Applicable Reliability Criteria, each Non-Participating TO must operate its ownership interests in facilities in which it holds a TOR in accordance with Good Utility Practice and Applicable Reliability Criteria.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

18. [NOT USED]

19. [NOT USED]

19.1 [NOT USED]

19.1.1 [NOT USED]

19.1.2 [[NOT USED]

19.1.3 [NOT USED]

19.2 [NOT USED]

20. Confidentiality

20.1 CAISO

The CAISO shall maintain the confidentiality of all of the documents, data and information provided to it by any Market Participant that are treated as confidential or commercially sensitive under Section 20.2; provided, however, that the CAISO need not keep confidential: (1) information that is explicitly subject to public data exchange pursuant to Section 6; (2) information that the CAISO or the Market Participant providing the information is required to disclose pursuant to this CAISO Tariff, or applicable regulatory requirements (provided that the CAISO shall comply with any applicable limits on such disclosure); or (3) information that becomes available to the public on a non-confidential basis (other than as a result of the CAISO's breach of this CAISO Tariff).

20.2 Confidential Information

The following information provided to the CAISO shall be treated by the CAISO as confidential:

- (a) individual Bids;
- (b) CRR bids and other CRR Allocation nomination information;
- (c) transactions between Scheduling Coordinators, including Inter-SC Trades;
- (d) individual Generator Outage programs unless a Generator makes a change to its Generator Outage program which causes Congestion in the short term (i.e. one month or less), in which case, the CAISO may publish the identity of that Generator; and
- (e) The following information related to the resource adequacy program in accordance with Section 40:

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (i) Annual and monthly Resource Adequacy Plans and Supply Plans;
 - (ii) Demand Forecasts; and
 - (iii) Information on existing import contracts.
- (f) The following information related to the Transmission Planning Process in accordance with Section 24:
- (i) Information received under Sections 24.2.3.2 and 24.2.3.3 to the extent such information has been designated as confidential in accordance with the Business Practice Manual;
 - (ii) Information deemed confidential by DMM, per Section 8.6 of Appendix P;
 - (iii) Information received by the CAISO pursuant to agreements and contracts, executed prior to December 21, 2007, that preclude the release of the information;
 - (iv) Information that involves proprietary analytical tools, computer codes, or any other material that is protected by intellectual property rights held by the CAISO, Project Sponsor, Market Participant or other third-party; and
 - (v) Critical Energy Infrastructure Information.

However, composite documents, data, and other information that may be developed based on confidential information under this Section shall not be deemed confidential if the composite documents, data, and other information do not disclose any confidential information of any individual Scheduling Coordinator, Market Participant, or other third-party or Critical Energy Infrastructure Information.

20.3 Other Parties

No Market Participant shall have the right hereunder to receive from the CAISO or to review any documents, data or other information of another Market Participant to the extent such documents, data or information is to be treated as in accordance with Section 20.2; provided, however, a Market Participant may receive and review any composite documents, data, and other information that may be developed based upon such confidential documents, data, or information, if the composite document does not disclose such confidential data or information relating to an individual Market Participant and provided, however, that the CAISO may disclose information as provided for in its bylaws.

20.4 Disclosure

Notwithstanding anything in this Section 20 to the contrary,

- (a) The CAISO: (i) shall publish individual bids ninety (90) days after the Trading Day with respect to which the bid was submitted and in a manner that does not reveal the specific resource or the name of the Scheduling Coordinator submitting the bid, but that allows the bidding behavior of individual, unidentified resources and Scheduling Coordinators to be tracked over time; and (ii) may publish data sets analyzed in any public report issued by the CAISO or by the MSC, provided that such data sets shall be published no sooner than six (6) months after the latest Trading Day to which data in the data set apply, and in a manner that does not reveal any specific resource or the name of any Scheduling Coordinator submitting bids included in such data sets.
- (b) If the CAISO is required by applicable laws or regulations, or in the course of administrative or judicial proceedings, to disclose information that is otherwise required to be maintained in confidence pursuant to this Section 20, the CAISO may disclose such information; provided, however, that as soon as the CAISO learns of the disclosure requirement and prior to making such disclosure, the CAISO shall notify any affected Market Participant of the requirement and the terms thereof. The Market Participant may, at its sole discretion and own cost, direct any challenge to or defense against the disclosure requirement and the CAISO shall cooperate with such affected Market Participant to the maximum extent practicable to minimize the disclosure of the information consistent with applicable law. The CAISO shall cooperate with the affected Market Participant to obtain proprietary or confidential treatment of confidential information by the person to whom such information is disclosed prior to any such disclosure.
- (c) The CAISO may disclose confidential or commercially sensitive information, without notice to an affected Market Participant, in the following circumstances:

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (i) If the FERC, or its staff, during the course of an investigation or otherwise, requests information that is confidential or commercially sensitive. In providing the information to FERC or its staff, the CAISO shall take action consistent with 18 C.F.R. §§ 1b.20 and 388.112, and request that the information be treated as confidential and non-public by the FERC and its staff and that the information be withheld from public disclosure. The CAISO shall provide the requested information to the FERC or its staff within the time provided for in the request for information. The CAISO shall notify an affected Market Participant within a reasonable time after the CAISO is notified by FERC or its staff that a request for disclosure of, or decision to disclose, the confidential or commercially sensitive information has been received, at which time the CAISO and the affected Market Participant may respond before such information would be made public; or
- (ii) In order to maintain reliable operation of the CAISO Balancing Authority Area, the CAISO may share critical operating information, system models, and planning data with the WECC Reliability Coordinator that has executed the Western Electricity Coordinating Council Confidentiality Agreement for Electric System Data, or is subject to similar confidentiality requirements; or
- (iii) In order to maintain reliable operation of the CAISO Balancing Authority Area, the CAISO may share individual Generating Unit Outage information with the operations engineering and the outage coordination division(s) of other Balancing Authorities, Participating TOs, MSS Operators and other transmission system operators engaged in the operation and maintenance of the electric supply system whose system is significantly affected by the Generating Unit and who have executed

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

the Western Electricity Coordinating Council Confidentiality Agreement
for Electric System Data.

- (d) Notwithstanding the provisions of Section 20.2(e), information submitted through Resource Adequacy Plans and Supply Plans in accordance with Section 40 may be provided to:
- (i) the Scheduling Coordinator(s) and/or Market Participant(s) involved in a dispute or discrepancy as to whether a resource is properly identified in a Resource Adequacy Plan or a Supply Plan only to the limited extent necessary to identify the disputed transaction and the relevant counterparty or counterparties.
 - (ii) the regulatory entity, whether the CPUC, other Local Regulatory Authority, or federal agency, with jurisdiction over a Load Serving Entity involved in a dispute or discrepancy as to whether a resource is properly identified in a Resource Adequacy Plan or the Supply Plan, or otherwise identified by the CAISO as exhibiting a potential deficiency in demonstrating compliance with resource adequacy requirements adopted by the CPUC, other Local Regulatory Authority, or federal agency, as applicable. The information provided shall be limited to the particular dispute, discrepancy, or deficiency.
 - (iii) the California Energy Commission with respect to Demand Forecast information provided to the CAISO under Sections 40.2.2.3 and 40.2.3.3(b) to the extent the CAISO seeks, and the California Energy Commission grants, confidential treatment of such information pursuant to California Public Resources Code Section 25322 and related regulations.
- (e) Notwithstanding the provisions of Section 20.2(f), information submitted through the Transmission Planning Process shall be disclosed as follows:

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (i) Critical Energy Infrastructure Information may be provided to a requestor where such person is employed or designated to receive CEII by: (a) a Market Participant; (b) an electric utility regulatory agency within California; (c) an Interconnection Customer that has submitted an Interconnection Request to the CAISO under the CAISO's Large Generator Interconnection Procedure or Small Generator Interconnection Procedure (LGIP or SGIP); (d) a developer having a pending or potential proposal for development of a Generating Facility or transmission addition, upgrade or facility and that is performing studies in contemplation of filing an Interconnection Request or submitting a transmission infrastructure project through the CAISO Transmission Planning Process; or (e) a not-for-profit organization representing consumer regulatory or environmental interests before a Local Regulatory Authority or federal regulatory agency. To obtain Critical Energy Infrastructure Information, the requestor must submit a statement as to the need for the CEII, and must execute and return to the CAISO the form of the non-disclosure agreement and non-disclosure statement included as part of the Business Practice Manual. The CAISO may, at its sole discretion, reject a request for CEII and upon such rejection, the requestor will be directed to utilize the FERC procedures for access to the requested CEII.
- (ii) Information that is confidential under Section 20.2(f)(i) or 20.2.(f)(ii) may be disclosed to any individual designated by a Market Participant, electric utility regulatory agency within California, or other stakeholder that signs and returns to the CAISO the form of the non-disclosure agreement, nondisclosure statement and certification that the individual is a non-Market Participant, which is any person or entity not involved in a marketing, sales, or brokering function as market, sales, or brokering

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

are defined in FERC's Standards of Conduct for Transmission Providers (18 C.F.R. § 358 et seq.), included as part of the Business Practice Manual; provided, however, that information obtained pursuant to this 20.4(e)(ii) will be provided only in composite form so that information related to individual Load Serving Entities or Scheduling Coordinators will not be disclosed.

- (iii) Data base and other transmission planning information obtained from the WECC, or its successor, may be disclosed to individuals designated by a Market Participant, electric utility regulatory agency within California, or other stakeholder in accordance with the procedures set forth in the Business Practice Manual.

Nothing in this Section 20 shall limit the ability of the CAISO to aggregate data for public release about the adequacy of supply.

20.5 Confidentiality

The CAISO shall implement and maintain a system of communications with Scheduling Coordinators that includes the strict use of passwords for access to data to ensure compliance with Section 20. Access within the CAISO to such data on CAISO's communications systems, including databases and backup files, shall be strictly limited to authorized CAISO personnel through the use of passwords and other appropriate means.

21. [NOT USED]

22. Miscellaneous

22.1 Audits

22.1.1 Materials Subject To Audit

The CAISO's financial books, cost statements, accounting records and all documentation pertaining to its operation as a state chartered independent institution which controls the operation of the CAISO Controlled Grid to ensure open, non-discriminatory transmission access to all Market Participants and promotes the efficient use and reliable operation of the CAISO Controlled Grid in accordance with this CAISO Tariff, are subject to audit in the manner prescribed below:

22.1.2 CAISO Audit Committee

The CAISO Governing Board shall have overall audit responsibility for the CAISO. The CAISO Audit Committee shall make recommendations to the CAISO Governing Board in relation to the approval, initiation and scheduling of the following audits:

22.1.2.1 Certified Financial Statement Audit

Each year, an audit by an external independent certified public accounting firm shall be performed. This audit will be conducted in accordance with generally accepted auditing standards to verify that the CAISO's financial statements are in compliance with generally accepted accounting principles and fairly present, in all material respects, the financial position, results of operation and cash flows for the audit period. The audit report will be addressed to the CAISO Governing Board, copies will be provided to the CAISO Audit Committee, and, upon request, to Market Participants.

22.1.2.2 Review of Compliance with Operations Policies and Procedures

Each year, an independent review shall be conducted of the CAISO management's compliance with its operations policies and procedures. The CAISO Audit Committee will appoint an independent party to perform this review. This review may also include material issues raised by Market Participants and approved by the CAISO Audit Committee for inclusion in the review. The report will be addressed to the CAISO Governing Board, copies provided to the CAISO Audit Committee, and upon request, to Market Participants.

22.1.2.3 Code of Conduct Audits

On a periodic basis, but not less than once a year, an independent accounting firm shall conduct a management review of governors, officers, employees, substantially full-time consultants, or contractors of the CAISO for compliance with the CAISO Code of Conduct to ensure adherence to the highest standards of lawful and ethical conduct in their activities. The audit report shall be addressed to the CAISO Audit Committee with copies provided to the CAISO Governing Board and, upon request, to Market Participants.

22.1.2.4 Interim Audits

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

At such other intervals agreed upon by a majority of the CAISO Audit Committee members, audits may be undertaken for specific issues and concerns of Market Participants that the CAISO Audit Committee believes, at its sole discretion, to be of significant and critical magnitude to the CAISO. Such audits will be conducted by an independent accounting firm. The costs of such an audit will be borne by the requesting Market Participant(s), unless the CAISO Audit Committee determines otherwise. Interim audits will be conducted during normal business hours, after reasonable notice has been given to the CAISO, and in accordance with the guidelines to be established by the CAISO Audit Committee.

22.1.3 Audit Results

Exceptions identified as a result of an audit will be reviewed with the CAISO Audit Committee. The results of the audits and actions to be taken by the CAISO as a result of the audit shall be mailed to Market Participants upon request.

22.1.4 Availability Of Records

The CAISO will provide full and complete access to all financial books, cost statements, accounting records, and all documentation pertaining to the requirements of the specific audits being performed. Records relating to audits will be retained until the records retention requirements of the CAISO are satisfied or until the audit issues are fully resolved, whichever is the later. The right of access to records does not require the creation of new records, reports, studies, or evaluations not already available.

22.1.5 Confidentiality Of Information

All proprietary information obtained through any audits will remain strictly confidential. All auditors shall sign a confidentiality agreement prior to being accepted as auditors by the CAISO Audit Committee.

22.1.6 Payments

Any payments agreed to between Market Participants and the CAISO as a result of an audit, or directed by FERC, or disclosed by the CAISO in reviews of its own books and records shall include Interest computed at the rate calculated in accordance with the methodology specified for interest on refunds in FERC's regulations at 18 C.F.R. § 35.19a(a)(2)(iii) (as amended from time to time) from the due date to the date such adjustments are due.

22.2 Assignment

Obligations and liabilities under this CAISO Tariff and any Scheduling Coordinator Agreement or other agreements giving contractual effect to this CAISO Tariff shall be binding on the successors and assigns of the parties to such agreements. No assignment of any Scheduling Coordinator Agreement or other agreements giving contractual effect to this CAISO Tariff shall relieve the original party from its obligations or liabilities to the CAISO under this CAISO Tariff or any such agreement arising or accruing due prior to the date of assignment.

22.3 Term And Termination

22.3.1 Effective Date Of CAISO Tariff

This CAISO Tariff shall become effective on the date it is permitted to become effective by the FERC.

22.3.2 Termination Of CAISO Tariff With Board And FERC Approval

This CAISO Tariff shall terminate upon approval of termination by the CAISO Governing Board in accordance with the bylaws of the CAISO and receipt of any necessary regulatory approval from FERC.

22.4 Notice

22.4.1 Effectiveness

Any notice, demand, or request in accordance with this CAISO Tariff, unless otherwise provided in this CAISO Tariff, shall be in writing and shall be deemed properly served, given, or made: (a) upon delivery if delivered in person, (b) five (5) days after deposit in the mail if sent by first class United States mail, postage prepaid, (c) upon receipt of confirmation by return facsimile if sent by facsimile, (d) upon receipt of confirmation by return e-mail if sent by e-mail, or (e) upon delivery if delivered by prepaid commercial courier service.

22.4.2 Addresses

Notices to the CAISO shall be sent to such address as shall be notified by the CAISO to Market Participants from time to time. Notices issued by the CAISO to any Scheduling Coordinator shall be delivered to the address of the representative designated to receive notices for the Scheduling Coordinator included in the Scheduling Coordinator Agreement. Notices to any Market Participant other than a Scheduling Coordinator shall be delivered by the CAISO to the address given to it by the Market Participant. The CAISO and any Market Participant may at any time change their address for notice by notifying the other party in writing.

22.4.3 Notice Of Changes In Operating Procedures And BPMs

The CAISO will issue notice of any changes to any Operating Procedure or proposed changes to any Business Practice Manual. The effective date of any change or proposed change in any Business Practice Manual shall be established as part of the change management process set forth in Section 22.11 but will be no earlier than at least thirty (30) days from the date of publication of a Market Notice describing the change or proposed change, unless: (1) a different notice period is specified by state or federal law, (2) the change falls within Category A of Section 22.11.1.4(a) in which case the provisions of that section shall apply; (3) the change is reasonably required to address an emergency affecting the CAISO Controlled Grid or its operations, or (4) the change is to a provision of a Business Practice Manual that is necessitated by emergency circumstances specific to that Business Practice Manual. Such circumstances include, but are not limited to, any change necessary to ensure that the Business Practice Manual is consistent with the CAISO Tariff or any applicable law, regulation, NERC or WECC operating policies, guidelines and standards, or FERC order, in which case the CAISO shall give Market Participants as much notice as is reasonably practicable. Any notices issued under this provision shall be issued in accordance with the procedures set out in Section 22.11.

22.5 Waiver

Any waiver at any time by the CAISO or any Market Participant of its rights with respect to any default under this CAISO Tariff, or with respect to any other matter arising in connection with this CAISO Tariff, shall not constitute or be deemed a waiver with respect to any subsequent default or other matter arising

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

in connection with this CAISO Tariff. Any delay short of the statutory period of limitations in asserting or enforcing any right shall not constitute or be deemed a waiver.

22.6 Staffing And Training To Meet Obligations

The CAISO shall engage sufficient staff to perform its obligations under this CAISO Tariff in a satisfactory manner consistent with Good Utility Practice. The CAISO shall make its own arrangements for the engagement of all staff and labor necessary to perform its obligations hereunder and for their payment.

The CAISO shall employ (or cause to be employed) only persons who are appropriately qualified, skilled and experienced in their respective trades or occupations. CAISO employees and contractors shall abide by the CAISO Code of Conduct for employees contained in the CAISO bylaws and approved by FERC.

22.7 Accounts And Reports

The CAISO shall notify Market Participants of any significant change in the accounting treatment or methodology of any costs or any change in the accounting procedures, which is expected to result in a significant cost increase to any Market Participant. Such notice shall be given at the earliest possible time, but no later than, sixty (60) days before implementation of such change.

22.8 Applicable Law And Forum

This CAISO Tariff shall be governed by and construed in accordance with the laws of the State of California, except its conflict of laws provisions. Market Participants irrevocably consent that any legal action or proceeding arising under or relating to this CAISO Tariff to which the CAISO ADR Procedures do not apply, shall be brought in any court of the State of California or any federal court of the United States of America located in the State of California. Market Participants irrevocably waive any objection that they may have now or in the future to said courts in the State of California as the proper and exclusive forum for any legal action or proceeding arising under or related to this CAISO Tariff.

22.9 Consistency With Federal Laws And Regulations

- (a) Nothing in the CAISO Tariff shall compel any person or federal entity to: (1) violate federal statutes or regulations; or (2) in the case of a federal agency, to exceed its statutory authority, as defined by any applicable federal statutes, regulations, or orders lawfully promulgated thereunder. If any provision of this CAISO Tariff is inconsistent with any obligation imposed on any person or federal

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

entity by federal law or regulation to that extent, it shall be inapplicable to that person or federal entity. No person or federal entity shall incur any liability by failing to comply with a CAISO Tariff provision that is inapplicable to it by reason of being inconsistent with any federal statutes, regulations, or orders lawfully promulgated thereunder; provided, however, that such person or federal entity shall use its best efforts to comply with the CAISO Tariff to the extent that applicable federal laws, regulations, and orders lawfully promulgated thereunder permit it to do so.

- (b) If any provision of this CAISO Tariff requiring any person or federal entity to give an indemnity or impose a sanction on any person is unenforceable against a federal entity, the CAISO shall submit to the Secretary of Energy or other appropriate Departmental Secretary a report of any circumstances that would, but for this provision, have rendered a federal entity liable to indemnify any person or incur a sanction and may request the Secretary of Energy or other appropriate Departmental Secretary to take such steps as are necessary to give effect to any provisions of this CAISO Tariff that are not enforceable against the federal entity.
- (c) To the extent that the CAISO suffers any loss as a result of being unable to enforce any indemnity as a result of such enforcement being in violation of federal laws or regulations to which it is entitled under the CAISO Tariff under this Section or otherwise, it shall be entitled to recover such loss through the Grid Management Charge.

22.10 [NOT USED]

22.11 Operating Procedures And BPM Development And Amendment

The CAISO shall prepare, maintain, promulgate and update the Operating Procedures and Business Practice Manuals. The Operating Procedures and Business Practice Manuals shall be consistent with the CAISO Tariff, and any NERC or WECC operating policies, guidelines and standards, and shall be available on the CAISO Website, provided that the CAISO shall not make available on the CAISO

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Website any portions of CAISO Operating Procedures that are confidential. The CAISO shall establish a stakeholder process as set forth in Section 22.11.1 and in a Business Practice Manual for BPM change management in order to ensure that all affected parties have an opportunity to comment on and shape the proposed nature of any proposed changes to any Business Practice Manual. Under that process, the CAISO and stakeholders shall consider whether any amendments to the CAISO Tariff are necessary in order to ensure the consistency of the CAISO Tariff and the Business Practice Manuals.

22.11.1 Process For Revisions Of Business Practice Manuals

Revisions of Business Practice Manuals shall be made in accordance with the process set forth in this Section 22.11.1, provided that the details and procedures for submittal and consideration of a BPM Proposed Revision Request (PRR) and other elements of the BPM change management process shall be set forth in a separate Business Practice Manual for BPM change management.

22.11.1.1 BPM Proposed Revision Request Submittal

A request to make any change to a BPM, including any attachments thereto that are incorporated by reference, and any changes to the BPM PRR must be initiated through a submittal of a BPM PRR, except as provided in Section 22.4.3 or 22.11.1.2.

The following entities may submit a BPM PRR:

- (1) Any Market Participant;
- (2) Local Regulatory Authority;
- (3) CAISO management; and
- (4) Any other entity that meets the following qualifications:
 - (a) The entity must represent a Market Participant in dealings with the CAISO or operate in the CAISO Markets, and
 - (b) The entity must demonstrate that the entity (or those it represents) is affected by the subject section(s) of the BPM.

BPM PRRs shall be submitted electronically to the CAISO in the form and manner described in the Business Practice Manual for BPM change management. The BPM PRR shall include a description of the requested revision, the reason for the suggested change, the impacts and benefits of the suggested change (including any impact on the CAISO Market structure, CAISO operations and Market Participants,

to the extent the submitter may know this information), a list of affected BPM sections and subsections, general administrative information, suggested language for the requested revision, and for BPM PRRs submitted by CAISO management, a BPM PRR impact analysis.

22.11.1.2 BPM Proposed Revision Request Processing

The CAISO shall review the BPM PRR for completeness and shall notify the submitter if the BPM PRR is incomplete, including the reasons for its determination, based upon the timelines provided in the BPM for BPM change management. An incomplete BPM PRR shall not receive further consideration until it is completed. In order to pursue the revision requested, a submitter must submit a completed version of the BPM PRR with the deficiencies corrected. If a submitted BPM PRR is complete or once a BPM PRR is corrected, the CAISO shall post the completed or corrected BPM PRR to the CAISO Website and publish a Market Notice of such posting.

22.11.1.3 BPM PRR Coordinator

The consideration and disposition of BPM PRRs shall be led by a BPM change management coordinator. The BPM change management coordinator shall be an identified employee of the CAISO with responsibility for ensuring that BPM PRRs are processed and reviewed in accordance with the provisions of the Business Practice Manual for BPM change management. The BPM change management coordinator shall also be responsible for submitting a report to the CAISO Governing Board at each regularly scheduled CAISO Governing Board meeting that includes (1) the status of pending BPM PRRs, (2) a summary of proposed revisions that have been accepted, and (3) a summary of proposed revisions that have been rejected and the reason(s) that the proposed revisions have been rejected, including the positions of stakeholders, and any decision on appeal as provided in Section 22.11.1.6.

22.11.1.4 Types and Treatment of BPM PRRs

Each BPM PRR shall be preliminarily classified by the BPM change management coordinator as either a Category A revision or a Category B or C revision. After further consultation with internal CAISO business units, the submitter (if not the CAISO), and representatives from potentially affected stakeholders in the BPM PRR review process, the BPM change management coordinator may reclassify the BPM PRR as appropriate. Types of BPM PRRs include:

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (a) Category A – Clarifications of existing BPM language, grammatical errors, and revisions with minor significance.

In the event the CAISO receives no comments or no adverse comments within the specified time frame, the CAISO may incorporate the proposed changes into the BPM, if reasonably acceptable to the CAISO, before the next BPM change management meeting. These changes may be placed into effect at any time after the comment period expires.

- (b) Category B – Revisions of substantial significance or revisions that require changes to CAISO or Market Participants' systems.

For proposals falling in this category, the CAISO will, unless urgent or emergency circumstances exist, delay implementation until after the next regularly scheduled BPM change management meeting even if no comments or no adverse comments are received. In the case of a proposed change affecting the CAISO's systems, the CAISO will prepare a BPM PRR impact analysis, if not already prepared, in accordance with the procedures set forth in the Business Practice Manual. The CAISO shall post the completed BPM PRR impact analysis to the CAISO Website and publish a Market Notice of such posting. Comments may be filed concerning the BPM PRR impact analysis. The comments must be delivered electronically to the CAISO within ten (10) Business Days or otherwise as specified in a Market Notice. Comments shall be posted to the CAISO Website.

- (c) Category C – Revisions implementing significant new CAISO policies and/or potentially requiring revisions to the CAISO Tariff.

Proposed revisions implementing significant new CAISO policies may have implications outside the scope of a proposed change to a BPM and may require alternative treatment. For proposals falling in this category, the CAISO will, unless urgent or emergency circumstances exist, delay implementation until after the next regularly scheduled BPM change management meeting. If the CAISO concludes that a Category C BPM PRR cannot be implemented without an amendment to the CAISO Tariff, the CAISO will provide a written explanation and indicate its support for or opposition to the need or appropriateness of a tariff amendment. The written explanation shall also indicate a lead department or business unit within the CAISO that would have responsibility for leading any stakeholder process necessary for the tariff amendment.

22.11.1.5 BPM PRR Review and Action

Any interested stakeholder or CAISO management may comment on a posted BPM PRR in accordance with the process set forth in the Business Practice Manual for BPM change management. To receive consideration, comments must be delivered electronically to the CAISO within ten (10) Business Days, or within any shorter period determined to be necessary or appropriate pursuant to the provisions of either Sections 22.11.1.7 or 22.11.1.8. Comments shall be posted to the CAISO Website and BPM PRRs shall be considered by the CAISO at a regularly established monthly public meeting or specially-noticed meeting dedicated to that purpose. Following any meeting to consider pending BPM PRRs and subject to the standards set forth in Section 22.11.1.4, the BPM change management coordinator shall issue a recommendation for action on each pending BPM PRR and shall publish for public comment a report on the recommendation in accordance with the procedures set forth in the Business Practice Manual for BPM change management. The report shall be sufficiently detailed and shall be published in a timeframe that allows interested stakeholders a meaningful opportunity to provide written comment. The BPM change management coordinator shall publish a final decision on any BPM PRR after considering stakeholder comments and all relevant impacts on their business needs and after the PRR recommendation report and comments concerning it have been discussed at a BPM change management meeting, in accordance with procedures set forth in the Business Practice Manual for BPM change management.

22.11.1.6 Right to Appeal to CAISO

Any entity eligible to submit a BPM PRR under Section 22.11.1.1 may, within ten (10) Business Days, appeal in writing the outcome of any BPM PRR to a committee comprising at least three CAISO executives established in accordance with procedures set forth in the Business Practice Manual for BPM change management. The CAISO will establish a standing meeting time for the BPM appeals committee to be used if needed and will establish the composition of the BPM appeals committee, including alternates in the case of schedule or other conflicts. Standing meeting dates and the BPM appeals committee composition will be established at least three months in advance. The CAISO may change the meeting time with ten (10) Business Days notice if required to accommodate schedules of the members of the BPM appeals committee. The executive sponsor of a BPM PRR may not sit in review of any

appeal of a final decision regarding that same BPM PRR but may participate in and be present during the public discussion of any appeal. The CAISO committee will review the appeal and publish its decision to the appealing party and to the CAISO Website. If not satisfied with the decision on appeal, the appellant may raise concerns it may have with the CAISO Governing Board at the next regularly scheduled board meeting through the public comment period or through prior letter to the CAISO Governing Board.

22.11.1.7 CAISO Expedited Action in Emergency Circumstances

Notwithstanding the provisions of Section 22.11.1.1, the CAISO may take expedited action to change or clarify a provision of a BPM under emergency circumstances. In addition to the circumstances identified in Section 22.4.3, emergency circumstances exist whenever the CAISO determines in good faith that (i) failure to implement a change or clarification to a BPM on an expedited basis would substantially and adversely affect System Reliability or security or the competitiveness of the CAISO Markets, and (ii) there is insufficient time to comply with the BPM PRR procedures set forth in Section 22.11.1. The CAISO shall take reasonable steps to communicate with Market Participants and any other directly-affected entities prior to taking expedited action if practicable. If the CAISO takes expedited action to change or clarify a provision of a BPM in emergency circumstances, the CAISO shall promptly issue a Market Notice and submit a BPM PRR to examine the necessity of the change and its impacts.

22.11.1.8 Urgent Requests by Entities for BPM Revisions

An entity submitting a BPM PRR may request that the BPM PRR be considered on an urgent basis and may be required to show reasonable necessity for such an urgent request. The BPM change management coordinator may designate a BPM PRR for urgent consideration if the BPM change management coordinator determines that such BPM PRR (1) requires immediate attention due to (i) serious concerns about CAISO System Reliability or market operations under the unmodified language or (ii) the crucial nature of Settlement activity conducted pursuant to any Settlement formula, and (2) is of a nature that allows for rapid implementation without negative consequences to the reliability and integrity of the CAISO's system or market operations. The BPM change management coordinator shall consider the urgent BPM PRR at its next regularly scheduled meeting, or at a special meeting called by the BPM change management coordinator to consider the urgent BPM PRR. Any revisions to a BPM that take effect pursuant to an urgent BPM PRR shall be subject to a BPM PRR impact analysis.

22.11.2 Changes To BPM For BPM Change Management

Any changes to the Business Practice Manual for BPM change management shall require CAISO Governing Board approval.

22.11.3 Requests For And Access To Nonpublic Operating Procedures

Non-public Operating Procedures contain information that is either market sensitive, system security sensitive, or proprietary to third parties. The CAISO may limit access to these non-public Operating Procedures. Subject to agreed upon controls, the CAISO will make non-public CAISO Operating Procedures or portions thereof available to entities that are operationally affected by implementation of the Operating Procedure or any proposed changes to the Operating Procedure. Such controls may include execution of a nondisclosure agreement or other measures to limit access, disclosure and use of any non-public information. Subject to agreed upon controls, the CAISO will provide access to employees or representatives acting as agents of the requesting entity. For purposes of this tariff section an entity is "operationally affected" if (1) the entity is a party to the Transmission Control Agreement, a neighboring Balancing Authority or a Market Participant and (2) the Operating Procedure, if implemented, would require a change outside of the CAISO Markets in the operation of that entity's facilities that are part of or interconnected to the CAISO Controlled Grid. An entity that may merely be affected economically or financially by implementation or revision of a non-public Operating Procedure or portion thereof is not entitled to access to that Operating Procedure or portion thereof pursuant to this Section 22.11.3.

Any entity that believes it is operationally affected by a non-public CAISO Operating Procedure may seek access to that Operating Procedure by providing a written request to the CAISO. Any such request must identify the specific Operating Procedure to which the entity seeks access, the name and position of the employees and representatives of the entity that seek to review the non-public Operating Procedure, a representation that each employee or representative needs to review the non-public Operating Procedure or portion thereof to perform their employment responsibilities and a representation that each employee or representative does not perform a market function on behalf of the requesting entity. The CAISO shall respond in writing to a request for access to a non-public Operating Procedure or portion thereof within ten (10) Business Days after receipt of the request. The CAISO will state whether it will allow access to

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

review the non-public Operating Procedure and under what set of proposed controls. The CAISO will determine whether to provide access to review the non-public Operating Procedure based on whether the entity is operationally affected as a result of implementation of the Operating Procedure or a portion thereof. If the CAISO determines that the entity is operationally affected by the Operating Procedure or portion thereof, the CAISO will, subject to agreed-upon controls, provide access to the non-public Operating Procedure within thirty (30) days of the entity's written request. If the CAISO determines that the entity is not operationally affected by the Operating Procedure or portion thereof, the CAISO will explain the reason for its determination in its written response. If the CAISO denies a request for access to a non-public Operating Procedure or portion thereof, the requesting entity shall have the right to invoke the CAISO ADR Procedures in Section 13.

22.12 [NOT USED]

22.13 Scheduling Responsibilities And Obligations

Nothing in this CAISO Tariff is intended to permit or require the violation of federal or California law concerning hydro-generation and Dispatch, including but not limited to fish release requirements, minimum and maximum dam reservoir levels for flood control purposes, and in-stream flow levels. In carrying out its functions, the CAISO will comply with and will have the necessary authority to give instructions to Participating TOs and Market Participants to enable it to comply with requirements of environmental legislation and environmental agencies having authority over the CAISO in relation to Environmental Dispatch and will expect that submitted Bids, including Self-Schedules will support compliance with the requirements of environmental legislation and environmental agencies having authority over Generators in relation to Environmental Dispatch. In contracting for Ancillary Services and Imbalance Energy the CAISO will not act as principal but as agent for and on behalf of the relevant Scheduling Coordinators.

23. Categories Of Transmission Capacity

References to new firm uses shall mean any use of CAISO transmission service, except for uses associated with Existing Rights or TORs. Prior to the start of the Day-Ahead Market, for each Balancing Authority Area Transmission Interface, the CAISO will allocate the forecasted Total Transfer Capability of the Transmission Interface to four categories. This allocation will represent the CAISO's best estimates at

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

the time, and is not intended to affect any rights provided under Existing Contracts or TORs. The CAISO's forecast of Total Transfer Capability for each Balancing Authority Area Transmission Interface will depend on prevailing conditions for the relevant Trading Day, including, but not limited to, the effects of parallel path (unscheduled) flows and/or other limiting operational conditions. This information will be posted on OASIS in accordance with this CAISO Tariff. The four categories are as follows:

- (a) transmission capacity that must be reserved for firm Existing Rights;
- (b) transmission capacity that may be allocated for use as CAISO transmission service (i.e., "new firm uses");
- (c) transmission capacity that may be allocated by the CAISO for conditional firm Existing Rights; and
- (d) transmission capacity that may remain for any other uses, such as non-firm Existing Rights for which the Responsible PTO has no discretion over whether or not to provide such non-firm service.

24. Comprehensive Transmission Planning Process

24.1 Overview

The CAISO will develop a comprehensive Transmission Plan and approve transmission upgrades or additions using the Transmission Planning Process set forth in this Section 24. The CAISO will analyze the need for transmission upgrades and additions in accordance with the methodologies and criteria set forth in this Section 24, the Transmission Control Agreement, and the applicable Business Practice Manuals. The comprehensive Transmission Plan will identify transmission upgrade or addition projects associated with Approved Project Sponsors that are Merchant Transmission Facilities or are needed: (1) to maintain System Reliability; (2) to satisfy the requirements of a Location Constrained Resource Interconnection Facility; (3) to maintain the simultaneous feasibility of allocated Long-Term CRRs; and (4) as LGIP Network Upgrades identified pursuant to Section 24.4.6.5. The comprehensive Transmission Plan will identify transmission addition and upgrade elements with no approved Project Sponsors needed to (1) meet state and federal policy requirements and directives that are not inconsistent with the Federal Power Act, including renewable portfolio standards policies; and (2) reduce congestion costs, production supply costs, transmission losses, or other electric supply costs resulting from improved access to cost-

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

effective resources. For purposes of this Section 24, the term “the year X/(X+1) planning cycle” will refer to the Transmission Planning Process initiated during year X to complete a comprehensive Transmission Plan in year X+1.

24.1.1 [NOT USED]

24.1.2 [NOT USED]

24.1.3 [NOT USED]

24.1.4 [NOT USED]

24.2 Nature of the Transmission Planning Process

The CAISO will develop the annual comprehensive Transmission Plan and approve transmission upgrades or additions using a shall perform the CAISO’s Transmission Planning Process with three (3) phases. In Phase 1, the CAISO will develop and complete the Unified Planning Assumptions and Study Plan and, in parallel, begin development of a conceptual statewide plan. In Phase 2, the CAISO will complete the comprehensive Transmission Plan. In Phase 3, the CAISO will evaluate proposals to construct and own specific transmission upgrade or addition elements specified in the comprehensive Transmission Plan on an annual cycle in accordance with the terms of this CAISO Tariff, the Transmission Control Agreement, and the Business Practice Manual. The Transmission Planning Process shall, at a minimum:

- (a) Coordinate and consolidate in a single plan the transmission needs of the CAISO Balancing Authority Area for into a single plan, which will be assessed on the basis of maintaining the reliability of the CAISO Controlled Grid in accordance with Applicable Reliability Criteria and CAISO Planning Standards, in a manner that promotes the economic efficiency of the CAISO Controlled Grid and considers federal and state environmental and other policies affecting the provision of Energy.
- (b) Reflect a planning horizon covering a minimum of ten (10) years that considers previously approved transmission upgrades and additions transmission enhancements and expansions, Demand Forecasts, Demand-side management,

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

and capacity forecasts relating to generation technology type, additions and retirements, and such other factors as the CAISO determines are relevant.

- (c) Seek to avoid unnecessary duplication of facilities and ensure the simultaneous feasibility of the CAISO Transmission Plan and the transmission plans of interconnected Balancing Authority Areas, and otherwise coordinate with regional and sub-regional transmission planning processes and entities, including interconnected Balancing Authority Areas. in accordance with Section 24.8.
- (d) Identify existing and projected limitations of the CAISO Controlled Grid's physical, economic or operational capability or performance and identify transmission upgrades and additions, including alternatives thereto, deemed needed in accordance with Section 24.1 to address the existing and projected limitations.
- (e) Account for any effects on the CAISO Controlled Grid of the interconnection of Generating Units on the Distribution System under the Wholesale Distribution Access Tariffs of the Participating TOs, including an assessment of the deliverability of such Generating Units in a manner consistent with CAISO interconnection procedures. on a basis comparable to the Deliverability Assessment performed under Appendix U or Appendix Y, as applicable

24.2.1 [NOT USED]

24.2.2 [NOT USED]

24.2.3 [NOT USED]

24.2.4 [NOT USED]

24.2.5 [NOT USED]

24.3 Transmission Planning Process Phase 1

Phase 1 consists of two (2) parallel processes: (1) the development of the Unified Planning Assumptions and Study Plan; and, (2) initiation of the development of the statewide conceptual transmission plan, as discussed in Section 24.4.4.

24.3.1 Inputs to the Unified Planning Assumptions and Study Plan

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

The CAISO will develop Unified Planning Assumptions and a Study Plan using information and data from the approved Transmission Plan developed in the previous planning cycle. The CAISO will consider the following in the development of the Unified Planning Assumptions and Study Plan:

- (a) WECC base cases, as may be modified for the relevant planning horizon;
- (b) Transmission upgrades and additions approved by the CAISO in past Transmission Planning Process cycles, including upgrades and additions which the CAISO has determined address transmission elements in comprehensive Transmission Plan developed in the previous planning cycle;
- (c) Category 2 policy-driven transmission upgrade and addition elements from a prior planning cycle as described in Section 24.4.6.6;
- (d) Location Constrained Resource Interconnection Facilities conditionally approved under Section 24.4.6.3;
- (e) Network Upgrades identified pursuant to Section 25, Appendix U, Appendix V, Appendix Y or Appendix Z relating to the CAISO's Large Generator Interconnection Procedures and Appendices S and T relating to the CAISO's Small Generator Interconnection Procedures that were not otherwise included in the comprehensive Transmission Plan from the previous annual cycle;
- (f) Operational solutions validated by the CAISO in the Local Capacity Technical Study under Section 40.3.1;
- (g) Policy requirements and directives, as appropriate, including programs initiated by state and federal regulatory agencies;
- (h) Energy Resource Areas or similar resource areas identified by Local Regulatory Authorities;
- (i) Demand response programs that are proposed for inclusion in the base case or assumptions for the comprehensive Transmission Plan;
- (j) Generation and other non-transmission projects that are proposed for inclusion in long-term planning studies as alternatives to transmission additions or upgrades;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (k) Beginning with the 2011/2012 planning cycle, Economic Planning Study requests submitted in comments on the draft Unified Planning Assumptions and Study.
- (l) Planned facilities in interconnected Balancing Authority Areas.

24.3.2 Contents of the Unified Planning Assumptions and Study Plan

The Unified Planning Assumptions and Study Plan shall, at a minimum, provide:

- (a) The planning data and assumptions to be used in the Transmission Planning Process cycle, including, but not limited to, those related to Demand Forecasts and distribution, potential generation capacity additions and retirements, and transmission system modifications;
- (b) A description of the computer models, methodology and other criteria used in each technical study performed in the Transmission Planning Process cycle;
- (c) A list of each technical study to be performed in the Transmission Planning Process cycle and a summary of each technical study's objective or purpose;
- (d) A description of significant modifications to the planning data and assumptions as allowed by Section 24.3.1(a) and consistent with Section 24.3.2;
- (e) The identification of any entities directed to perform a particular technical study or portions of a technical study;
- (f) A proposed schedule for all stakeholder meetings to be held as part of the Transmission Planning Process cycle and the means for notification of any changes thereto, the location on the CAISO Website of information relating to the technical studies performed in the Transmission Planning Process cycle, and the name of a contact person at the CAISO for each technical study performed in the Transmission Planning Process cycle;
- (g) To the maximum extent practicable, and where applicable, appropriate sensitivity analyses, including project or solution alternatives, to be performed as part of technical studies;
- (h) Descriptions of the High Priority Economic Planning Studies as determined by the CAISO under section 24.3.5; and

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (i) Identification of state or federal requirements or directives that the CAISO will utilize, pursuant to Section 24.4.6.6, to identify policy-driven transmission elements.

24.3.3 Stakeholder Input - Unified Planning Assumptions/Study Plan

- (a) Beginning with the 2011/2012 planning cycle and in accordance with the schedule set forth in the Business Practice Manual, the CAISO will provide a comment period during which Market Participants, electric utility regulatory agencies and all other interested parties may submit the following proposals for consideration in the development of the draft Unified Planning Assumptions and Study Plan:
 - (i) Demand response programs for inclusion in the base case or assumptions; and
 - (ii) Generation and other non-transmission alternatives, consistent with Section 24.3.2(a) proposed as alternatives to transmission additions or upgrades.
- (b) Following review of relevant information, including stakeholder comments submitted pursuant to Section 24.3.3(a), the CAISO will prepare and post on the CAISO Website a draft of the Unified Planning Assumptions and Study Plan. The CAISO will issue a Market Notice announcing the availability of such draft, soliciting comments, and scheduling a public conference(s) as required by Section 24.3.3(c).
- (c) No less than one (1) week subsequent to the posting of the draft Unified Planning Assumptions and Study Plan, the CAISO will conduct a minimum of one (1) public meeting open to Market Participants, electric utility regulatory agencies, and other interested parties to review, discuss, and recommend modifications to the draft Unified Planning Assumptions and Study Plan. Additional meetings, web conferences, or teleconferences may be scheduled as needed. All

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

stakeholder meetings, web conferences, or teleconferences shall be noticed by Market Notice.

- (d) Interested parties will be provided a minimum of two (2) weeks following the first public meeting to provide comments on the draft Unified Planning Assumptions and Study Plan. Such comments may include Economic Planning Study requests based on the comprehensive Transmission Plan from the prior cycle. All comments on the draft Unified Planning Assumptions and the Study Plan will be posted by the CAISO to the CAISO Website.
- (e) Following the public conference(s), and under the schedule set forth in the Business Practice Manual, the CAISO will determine and publish to the CAISO Website the final Unified Planning Assumptions and Study Plan in accordance with the procedures set forth in the Business Practice Manual. The CAISO will post the base cases to be used in the technical studies to its secured website as soon as possible after the final Unified Planning Assumptions and Study Plan have been published.

24.3.4 Economic Planning Studies

24.3.4.1 CAISO Assessment of Requests for Economic Planning Studies

Following the submittal of a request for an Economic Planning Study, the CAISO will determine whether the request shall be designated as a High Priority Economic Planning Study for consideration in the development of the comprehensive Transmission Plan. In making the determination, the CAISO will consider:

- (a) Whether the requested Economic Planning Study seeks to assess Congestion not identified or identified and not mitigated by the CAISO in previous Transmission Planning Process cycles;
- (b) Whether the requested Economic Planning Study addresses delivery of Generation from Location Constrained Resource Interconnection Generators or network transmission facilities intended to access Generation from an Energy

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Resource Area or similar resource area assigned a high priority by the CPUC or CEC;

- (c) Whether the requested Economic Planning Study is intended to address Local Capacity Area Resource requirements;
- (d) Whether resource and Demand information indicates that Congestion described in the Economic Planning Study request is projected to increase over the planning horizon used in the Transmission Planning Process and the magnitude of that Congestion; or
- (e) Whether the Economic Planning Study is intended to encompass the upgrades necessary to integrate new generation resources or loads on an aggregated or regional basis.

24.3.4.2 Selection of High Priority Economic Planning Studies

In accordance with the schedule and procedures set forth in the Business Practice Manual, the CAISO will post to the CAISO Website the list of selected High Priority Economic Planning Studies to be included in the draft Unified Planning Assumptions and Study Plan. The CAISO may assess requests for Economic Planning Studies individually or in combination where such requests may have common or complementary effects on the CAISO Controlled Grid. As appropriate, the CAISO will perform requested High Priority Economic Planning Studies, up to five (5); however, the CAISO retains discretion to perform more than five (5) High Priority Economic Planning Studies should stakeholder requests or patterns of Congestion or anticipated Congestion so warrant. Market Participants may, consistent with Section 24.3.1 and 24.3.2, conduct Economic Planning Studies that have not been designated as High Priority Economic Planning Studies at their own expense and may submit such studies for consideration in the development of the comprehensive Transmission Plan.

24.4 Transmission Planning Process Phase 2

24.4.1 Conducting Technical Studies

- (a) In accordance with the Unified Planning Assumptions and Study Plan and with the procedures and deadlines in the Business Practice Manual, the CAISO will perform, or direct the performance by third parties of, technical studies and other

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

assessments necessary to develop the comprehensive Transmission Plan, including such technical studies and other assessments as are necessary in order to determine whether and how to include elements from the conceptual statewide transmission plan or other alternative elements identified by the CAISO during the Phase 2 studies in the comprehensive Transmission Plan. According to the schedule set forth in the applicable Business Practice Manual, the CAISO will post the preliminary results of its technical studies and proposed mitigation solutions on the CAISO Website. The CAISO's technical study results and mitigation solutions shall be posted not less than one-hundred and twenty (120) days after the final Unified Planning Assumptions and Study Plan are published, along with the results of the technical studies conducted by Participating TOs or other third parties at the direction of the CAISO.

- (b) All technical studies, whether performed by the CAISO, the Participating TOs or other third parties under the direction of the CAISO, must utilize the Unified Planning Assumptions for the particular technical study to the maximum extent practical, and deviations from the Unified Planning Assumptions for the particular technical study must be documented in results of each technical study. The CAISO will measure the results of the studies against Applicable Reliability Criteria, the CAISO Planning Standards, and other criteria established by the Business Practice Manual. After consideration of the comments received on the preliminary results, the CAISO will complete, or direct the completion of, the technical studies and post the final study results on the CAISO Website.
- (c) The CAISO technical study results will identify needs and proposed solutions to meet Applicable Reliability Criteria, CAISO planning standards, and other applicable planning standards. The CAISO and Participating TOs shall coordinate their respective transmission planning responsibilities required for compliance with the NERC Reliability Standards and for the purposes of

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

developing the annual Transmission Plan according to the requirements and time schedules set forth in the Business Practice Manual.

24.4.2 Submission of Reliability Driven Projects

Pursuant to the schedule described in the Business Practice Manual and based on the technical study results, the CAISO, CEC, CPUC, and other interested parties may propose any transmission upgrades or additions deemed necessary to ensure System Reliability consistent with Applicable Reliability Criteria and CAISO Planning Standards through the Phase 2 Request Window. Participating TOs will submit such project proposals through the Phase 2 Request Window within thirty (30) days after the CAISO posts its preliminary technical study results. The substantive description of reliability driven projects is set forth in Section 24.4.6.2.

24.4.3 Phase 2 Request Window

- (a) Following publication of the results of the technical studies, and in accordance with the schedule set forth in the Business Practice Manual, the CAISO will open a Request Window during Phase 2 for the submission of proposals for reliability-driven projects, Location Constrained Resource Interconnection Facility projects, demand response or generation proposals proposed as alternatives to transmission additions or upgrades to meet reliability needs, and proposals for Merchant Transmission Facility projects and projects needed to maintain the feasibility of long-term CRRs.
- (b) All facilities proposed during the Request Window must use the forms and satisfy the information and technical requirements set forth in the Business Practice Manual. Proposals for these transmission additions or upgrades must be within or connect to the CAISO Balancing Authority Area or CAISO Controlled Grid. The CAISO will determine whether each of these proposals will be considered in the development of the comprehensive Transmission Plan. In accordance with the schedule and procedures set forth in the Business Practice Manual, the CAISO will notify the party submitting the proposal of any deficiencies in the proposal and provide the party an opportunity to correct the deficiencies. A

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

proposal can only be considered in the development of the comprehensive Transmission Plan if the CAISO determines that:

- (i) the proposal satisfies the information requirements for the particular type of project submitted as set forth in templates included in the Business Practice Manual;
 - (ii) the proposal is not functionally duplicative of transmission upgrades or additions that have previously been approved by the CAISO; and
 - (iii) the proposal, if a sub-regional or regional project that affects other interconnected Balancing Authority Areas, has been reviewed by the appropriate sub-regional or regional planning entity, is not inconsistent with such sub-regional or regional planning entity's preferred solution or project, and has been determined to be appropriate for inclusion in the CAISO Study Plan, rather than, or in addition to, being included in or deferred to the planning process of the sub-regional or regional planning entity.
- (c) The duration of the Request Window will be set forth in the Business Practice Manual.

24.4.4 Comment Period of Conceptual Statewide Plan

Beginning in Phase 1, the CAISO will develop, or, in coordination with other regional or sub-regional transmission planning groups or entities, including interconnected Balancing Authority Areas, will participate in the development of a conceptual statewide transmission plan that, among other things, may identify potential transmission upgrade or addition elements needed to meet state and federal policy requirements and directives. The conceptual statewide transmission plan will be an input into the CAISO's Transmission Planning Process. The CAISO will post the conceptual statewide transmission plan to the CAISO Website and will issue a Market Notice providing notice of the availability of such plan. In the month immediately following the publication of the conceptual statewide transmission plan, the CAISO will provide an opportunity for interested parties to submit comments and recommend modifications to the conceptual statewide transmission plan and alternative transmission elements,

including potential interstate transmission lines and proposals for access to resources located in areas not identified in the conceptual statewide transmission plan, and non-transmission elements.

24.4.5 Determination of Needed Transmission Projects and Elements

To determine which projects and additional elements should be included in the comprehensive Transmission Plan, the CAISO will evaluate the conceptual transmission elements identified in the statewide conceptual transmission plan or other alternative elements identified by the CAISO during the Phase 2 studies, reliability project proposals, LCRIF projects proposals, project proposals required to maintain the feasibility of long term CRRs, proposed Network Upgrades pursuant to Section 24.4.6.5 and the results of Economic Planning Studies or other economic studies the CAISO has performed and will consider potential alternative transmission upgrade and addition elements and non-transmission or generation solutions proposed by interested parties. **In determining which projects and additional elements should be included in the comprehensive Transmission Plan, the CAISO will not give undue weight or preference to the conceptual statewide plan or any other input in its planning process.**

24.4.6 Categories of Transmission Projects

24.4.6.1 Merchant Transmission Project Proposals

The CAISO may include a transmission addition or upgrade in the comprehensive Transmission Plan if a Project Sponsor proposes a Merchant Transmission Facility and demonstrates to the CAISO the financial capability to pay the full cost of construction and operation of the Merchant Transmission Facility. The Merchant Transmission Facility must mitigate all operational concerns identified by the CAISO to the satisfaction of the CAISO, in consultation with the Participating TO(s) in whose PTO Service Territory the Merchant Transmission Facility will be located, and ensure the continuing feasibility of allocated Long Term CRRs over the length of their terms. To ensure that the Project Sponsor is financially able to pay the construction and operating costs of the Merchant Transmission Facility, and where the Participating TO is not the Project Sponsor and is to construct the Merchant Transmission Facility under Section 24.4.1, the CAISO in cooperation with the Participating TO may require (1) a demonstration of creditworthiness (e.g., an appropriate credit rating), or (2) sufficient security in the form of an unconditional and irrevocable letter of credit or other similar security sufficient to meet its responsibilities and obligations for the full costs of the transmission addition or upgrade.

24.4.6.2 Reliability Driven Projects

The CAISO, in coordination with each Participating TO with a PTO Service Territory will, as part of the Transmission Planning Process and consistent with the procedures set forth in the Business Practice Manual, identify the need for any transmission additions or upgrades required to ensure System Reliability consistent with all Applicable Reliability Criteria and CAISO Planning Standards. In making this determination, the CAISO, in coordination with each Participating TO with a PTO Service Territory and other Market Participants, shall consider lower cost alternatives to the construction of transmission additions or upgrades, such as acceleration or expansion of existing projects, Demand-side management, Remedial Action Schemes, appropriate Generation, interruptible Loads, storage facilities or reactive support. The CAISO shall direct each Participating TO with a PTO Service Area, as a registered Transmission Planner with NERC, to perform the necessary studies, based on the Unified Planning Assumptions and Study Plan and any applicable Interconnection Study, and in accordance with the Business Practice Manual, to determine the facilities needed to meet all Applicable Reliability Criteria and CAISO Planning Standards. The Participating TO with a PTO Service Area shall provide the CAISO and other Market Participants with all information relating to the studies performed under this Section, subject to any limitation provided in Section 20.2 or the applicable LGIP. The Participating TO with a PTO Service Territory in which the transmission upgrade or addition deemed needed under this Section 24 will have the responsibility to construct, own and finance, and maintain such transmission upgrade or addition. If, as part of the Transmission Planning Process, the CAISO identifies a Category 1 policy-driven element or an economically-driven element as being needed under Sections 24.4.6.6 and 24.4.6.7 that eliminates an identified reliability concern under Applicable Reliability and CAISO Planning Standards, such element will retain its categorization as Category 1 policy-driven or economic element, respectively. If a transmission addition or upgrade required to ensure System Reliability provides other benefits without any expansion of its scope to explicitly include such benefits, such transmission addition or upgrade will retain its categorization as a reliability project.

24.4.6.3 LCRIF Projects

24.4.6.3.1 Proposals for LCRIFs

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

The CAISO, CPUC, CEC, a Participating TO, or any other interested parties may propose a transmission addition as a Location Constrained Resource Interconnection Facility. A proposal shall include the following information, to the extent available:

- (a) Information showing that the proposal meets the requirements of Section 24.4.6.3.2; and
- (b) A description of the proposed facility, including the following information:
 - (1) Transmission studies demonstrating that the proposed facility satisfies Applicable Reliability Criteria and CAISO Planning Standards;
 - (2) Identification of the most feasible and cost-effective alternative transmission additions, which may include network upgrades, that would accomplish the objective of the proposal;
 - (3) A planning level cost estimate for the proposed facility and all proposed alternatives;
 - (4) An assessment of the potential for the future connection of further transmission additions that would convert the proposed facility into a network transmission facility, including conceptual plans;
 - (5) The estimated in-service date of the proposed facility; and
 - (6) A conceptual plan for connecting potential LCRIGs, if known, to the proposed facility.

24.4.6.3.2 Criteria for Qualification as a LCRIF

- (a) The CAISO shall conditionally approve a facility as a Location Constrained Resource Interconnection Facility if it determines that the facility is needed and all of the following requirements are met:
 - (1) The facility is to be constructed for the primary purpose of connecting to the CAISO Controlled Grid two (2) or more Location Constrained Resource Interconnection Generators in an Energy Resource Area, and at least one of the Location Constrained Resource Interconnection Generators is to be owned by an entity(ies) that is not an Affiliate of the

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- owner(s) of another Location Constrained Resource Interconnection Generator in that Energy Resource Area;
- (2) The facility will be a High Voltage Transmission Facility;
 - (3) At the time of its in-service date, the facility will not be a network facility and would not be eligible for inclusion in a Participating TO's TRR other than as an LCRIF; and
 - (4) The facility meets Applicable Reliability Criteria and CAISO Planning Standards.
- (b) The proponent of a facility that has been determined by the CAISO to meet the requirements of Section 24.4.6.3.2(a) shall provide the CAISO with information concerning the requirements of this subsection not less than ninety (90) days prior to the planned commencement of construction, and the facility shall qualify as a Location Constrained Resource Interconnection Facility if the CAISO determines that both of the following requirements are met:
- (1) The addition of the capital cost of the facility to the High Voltage TRR of a Participating TO will not cause the aggregate of the net investment of all LCRIFs (net of the amount of the capital costs of LCRIFs to be recovered from LCRIGs pursuant to Section 26.6) included in the High Voltage TRRs of all Participating TOs to exceed fifteen (15) percent of the aggregate of the net investment of all Participating TOs in all High Voltage Transmission Facilities reflected in their High Voltage TRRs (net of the amount of the capital costs of LCRIFs to be recovered from LCRIGs pursuant to Section 26.6) in effect at the time of the CAISO's evaluation of the facility; and
 - (2) Existing or prospective owners of LCRIGs have demonstrated their interest in connecting LCRIGs to the facility consistent with the requirements of Section 24.4.6.3.4, which establishes the necessary demonstration of interest.

24.4.6.3.3 Responsibilities of Participating Transmission Owner

Each Participating TO shall report annually to the CAISO the amount of its net investment in LCRIFs (net of the amount of the capital costs of LCRIFs to be recovered from LCRIGs pursuant to Section 26.6), and its net investment in High Voltage Transmission Facilities reflected in its High Voltage TRR (net of the amount of the capital costs of LCRIFs to be recovered from LCRIGs pursuant to Section 26.6), to enable the CAISO to make the determination required under Section 24.4.6.3.2(b)(1).

24.4.6.3.4 Demonstration of Interest in a LCRIF

A proponent of an LCRIF must demonstrate interest in the LCRIF equal to sixty (60) percent or more of the capacity of the facility in the following manner:

- (a) the proponent's demonstration must include a showing that LCRIGs that would connect to the facility and would have a combined capacity equal to at least twenty-five (25) percent of the capacity of the facility have executed Large Generator Interconnection Agreements or Small Generator Interconnection Agreements, as applicable; and
- (b) to the extent the showing pursuant to Section 24.4.6.3.4(a) does not constitute sixty (60) percent of the capacity of the LCRIF, the proponent's demonstration of the remainder of the required minimum level of interest must include a showing that additional LCRIGs:
 - (1) in the case of Large Generating Facilities subject to the LGIP set forth in Appendix Y, have obtained Site Exclusivity or paid the Site Exclusivity Deposit in lieu of Site Exclusivity, provided that any Site Exclusivity Deposit paid pursuant to Section 3.5 of the LGIP set forth in Appendix Y shall satisfy this requirement, or, in the case of Large Generating Facilities subject to the LGIP set forth in Appendix U and Small Generating Facilities, have obtained control over their site or paid a deposit to the CAISO in the amount of \$250,000, which deposit shall be refundable if the LCRIF is not approved or is withdrawn by the proponent; and

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (2) have demonstrated interest in the LCRIF by one of the following methods:
- (i) executing a firm power sales agreement for the output of the LCRIG for a period of five (5) years or longer; or
 - (ii) in the case of Large Generating Facilities subject to the LGIP set forth in Appendix Y, filing an Interconnection Request and paying the Interconnection Study Deposit required by Section 3.5 of the LGIP set forth in Appendix Y; or
 - (iii) in the case of Large Generating Facilities subject to the LGIP set forth in Appendix U and Small Generating Facilities, being in the CAISO's interconnection queue and paying a deposit to the CAISO equal to the sum of the minimum deposits required of an Interconnection Customer for all studies performed in accordance with the Large Generator Interconnection Procedures (Appendix U) or Small Generator Interconnection Procedures (Appendix S), as applicable to the LCRIG, less the amount of any deposits actually paid by the LCRIG for such studies. The deposit shall be credited toward such study costs. If the LCRIF is not approved or is withdrawn by the proponent, any deposit paid under this provision shall be refundable to the extent it exceeds costs incurred by the CAISO for such studies; or
 - (iv) paying a deposit to the CAISO equal to five (5) percent of the LCRIG's pro rata share of the capital costs of a proposed LCRIF. The deposit shall be credited toward costs of Interconnection Studies performed in connection with the Large Generator Interconnection Procedures (Appendix U or Appendix Y, as applicable) or Small Generator Interconnection Procedures

(Appendix S), whichever is applicable. If the LCRIF is not approved or is withdrawn by the proponent, any deposit paid under this provision shall be refundable to the extent it exceeds the costs incurred by the CAISO for such studies.

24.4.6.3.5 Coordination With Non-Participating TOs

In the event that a facility proposed as an LCRIF would connect to LCRIGs in an Energy Resource Area that would also be connected by a transmission facility that is in existence or is proposed to be constructed by an entity that is not a Participating TO and that does not intend to place that facility under the Operational Control of the CAISO, the CAISO shall coordinate with the entity owning or proposing that transmission facility through any regional planning process to avoid the unnecessary construction of duplicative transmission additions to connect the same LCRIGs to the CAISO Controlled Grid.

24.4.6.3.6 Evaluation of LCRIFs

In evaluating whether a proposed LCRIF that meets the requirements of Section 24.4.6.3.2 is needed, and for purposes of ranking and prioritizing LCRIF projects, the CAISO will consider the following factors:

- (a) Whether, and if so, the extent to which, the facility meets or exceeds applicable CAISO Planning Standards, including standards that are Applicable Reliability Criteria.
- (b) Whether, and if so, the extent to which, the facility has the capability and flexibility both to interconnect potential LCRIGs in the Energy Resource Area and to be converted in the future to a network transmission facility.
- (c) Whether the projected cost of the facility is reasonable in light of its projected benefits, in comparison to the costs and benefits of other alternatives for connecting Generating Units or otherwise meeting a need identified in the CAISO Transmission Planning Process, including alternatives that are not LCRIFs. In making this determination, the CAISO shall take into account, among other factors, the following:
 - (1) The potential capacity of LCRIGs and the potential Energy that could be produced by LCRIGs in each Energy Resource Area;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (2) The capacity of LCRIGs in the CAISO's interconnection process for each Energy Resource Area;
- (3) The projected cost and in-service date of the facility in comparison with other transmission facilities that could connect LCRIGs to the CAISO Controlled Grid;
- (4) Whether, and if so, the extent to which, the facility would provide additional reliability or economic benefits to the CAISO Controlled Grid; and
- (5) Whether, and if so, the extent to which, the facility would create a risk of stranded costs.

24.4.6.4 Projects to Maintain the Feasibility of Long Term CRRs

The CAISO is obligated to ensure the continuing feasibility of Long Term CRRs that are allocated by the CAISO over the length of their terms. In furtherance of this requirement the CAISO shall, as part of its annual Transmission Planning Process cycle, test and evaluate the simultaneous feasibility of allocated Long Term CRRs, including, but not limited to, when acting on the following types of projects: (a) planned or proposed transmission projects; (b) Generating Unit or transmission retirements; (c) Generating Unit interconnections; and (d) the interconnection of new Load. Pursuant to such evaluations, the CAISO shall identify the need for any transmission additions or upgrades required to ensure the continuing feasibility of allocated Long Term CRRs over the length of their terms and shall publish Congestion Data Summary along with the results of the CAISO technical studies. In assessing the need for transmission additions or upgrades to maintain the feasibility of allocated Long Term CRRs, the CAISO, in coordination with the Participating TOs and other Market Participants, shall consider lower cost alternatives to the construction of transmission additions or upgrades, such as acceleration or expansion of existing projects; Demand-side management; Remedial Action Schemes; constrained-on Generation; interruptible Loads; reactive support; or in cases where the infeasible Long Term CRRs involve a small magnitude of megawatts, ensuring against the risk of any potential revenue shortfall using the CRR Balancing Account and uplift mechanism in Section 11.2.4. As part of the CAISO's Transmission Planning Process, the Participating TOs and Market Participants shall provide the necessary assistance and information to the

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

CAISO to allow it to assess and identify transmission additions or upgrades that may be necessary under Section 24.4.6.4. If, as part of the Transmission Planning Process, the CAISO identifies a Category 1 policy-driven element or an economically-driven element as being needed under Sections 24.4.6.6 and 24.4.6.7 that eliminates an identified need for a project to maintain the feasibility of allocated long-term CRRs, such element will retain its categorization as Category 1 policy-driven or economic element, respectively. If a transmission addition or upgrade required to maintain the feasibility of long-term CRRs provides other benefits without any expansion of its scope to explicitly include such benefits, such transmission addition or upgrade will retain its categorization as a project needed to maintain the feasibility of long-term CRRs. To the extent a transmission upgrade or addition is deemed needed to maintain the feasibility of allocated Long Term CRRs in accordance with this Section and included in the CAISO's annual Transmission Plan, the CAISO will designate the Participating TO(s) with a PTO Service Territory in which the transmission upgrade or addition is to be located as the Project Sponsor(s), responsible to construct, own and finance, and maintain such transmission upgrade or addition.

24.4.6.5 LGIP Network Upgrades

Beginning with the 2011/2012 planning cycle, Network Upgrades originally identified during the Phase II Interconnection Study or Interconnection Facilities Study Process of the Large Generation Interconnection Process as set forth in Section 7 of Appendix Y that are not already included in a signed LGIA may be assessed as part of the comprehensive Transmission Plan if these Network Upgrades satisfy the following criteria:

- (a) The Network Upgrades consist of new transmission lines 200 kV or above, and have capital costs of \$100 million or greater;
- (b) The Network Upgrade is a new 500 kV substation that has capital costs of \$100 million or greater; or,
- (c) The Network Upgrades have a capital cost of \$200 million or more.

The CAISO will post a list of the Network Upgrades eligible for assessment in the Transmission Planning Process in accordance with the schedule set forth in the applicable Business Practice Manual. Network Upgrades included in the comprehensive Transmission Plan may include additional components not included in the Network Upgrades originally identified during the Phase II Interconnection Study or may

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

be expansions of the Network Upgrades originally identified during the Phase II Interconnection Study if the CAISO determines during the Transmission Planning Process that such components or expansions are needed as additional elements under section 24.1. Network Upgrades identified in the LGIP Phase II studies but not assessed in the Transmission Planning Process will be included in Large Generator Interconnection Agreements, as appropriate. Network Upgrades assessed in the Transmission Planning Process but not modified or replaced will be included in Large Generator Interconnection Agreements, as appropriate. Construction and ownership of Network Upgrades specified in the comprehensive Transmission Plan under this section, including any needed additional components or expansions, will be the responsibility of the Participating TO if the Phase II studies identified the original upgrade as needed and such upgrade has not yet been set forth in an executed Large Generator Interconnection Agreement. If, through the Transmission Planning Process, the CAISO identifies any additional components or expansions of Network Upgrades that result in the need for other upgrades or additions, the responsibility to build and own such additions or upgrades will be determined by this Section 24, according to the category of those other upgrades or additions. Any decision in the Transmission Planning Process to modify Network Upgrades identified in the Large Generator Interconnection Process will not increase the cost responsibility of the Interconnection Customer as described in Appendix Y, Section 7. Category 1 policy-driven elements identified under Section 24.4.6.7 could supplant the need for LGIP Network Upgrades that would be developed in subsequent Generator Interconnection Process cycles. To the extent that a Category 1 policy-driven element eliminates or downsizes the need for a Network Upgrade, the Interconnection Customer's cost responsibility for such Network Upgrade shall be eliminated or reduced. Any financial security posting shall be adjusted accordingly.

24.4.6.6 Policy-Driven Elements

Once the CAISO has identified projects needed to maintain reliability, LCRIF projects eligible for conditional or final approval, projects needed to maintain long-term CRR feasibility, qualified Merchant Transmission Facility projects, and needed LGIP Network Upgrades as described in Section 24.4.6.5, the CAISO may evaluate transmission upgrade and addition elements needed to meet state or federal policy requirements or directives as specified in the Study Plan pursuant to Section 24.3.2(i). Policy-driven transmission upgrade or addition elements will be either Category 1 or Category 2. Category 1 are those

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

elements which under the criteria of this section are found to be needed elements and are recommended for approval as part of the comprehensive Transmission Plan in the current cycle. Category 2 are those elements that could be needed to achieve state or federal policy requirements or directives but have not been found to be needed in the current planning cycle based on the criteria set forth in this section.

Elements identified in this section and not identified in Section 24.4.6.5 as the responsibility of the Participating TO to build will be open for Project Sponsor solicitation during Phase 3. The CAISO will determine the need for, and identify such policy-driven transmission upgrade or addition elements that efficiently and effectively meet applicable policies under alternative resource location and integration assumptions and scenarios, while mitigating the risk of stranded investment. The CAISO will create a baseline scenario reflecting the assumptions about resource locations that are most likely to occur and one or more reasonable stress scenarios that will be compared to the baseline scenario. Any transmission upgrade or addition elements that are included in the baseline scenario and at least a significant percentage of the stress scenarios may be Category 1 elements. Transmission upgrades or additions that are included in the base case, but which are not included in any of the stress scenarios or are included in an insignificant percentage of the stress scenarios, generally will be Category 2 elements, unless the CAISO finds that sufficient analytic justification exists to designate them as Category 1. In such cases, the ISO will make public the analysis upon which it based its justification for designating such facilities as Category 1 rather than Category 2. In this process, the CAISO will consider the following criteria:

- (a) commercial interest in the resources in the applicable geographic area (including renewable energy zones) accessed by potential transmission elements as evidenced by signed and approved power purchase agreements and interconnection agreements;
- (b) the results and identified priorities of the California Public Utilities Commission's or California Local Regulatory Authorities' resource planning processes;
- (c) the expected planning level cost of the transmission element as compared to the potential planning level costs of other alternative transmission elements;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (d) the potential capacity (MW) value and energy (MWh) value of resources in particular zones that will meet the policy requirements, as well as the cost supply function of the resources in such zones;
- (e) the environmental evaluation, using best available public data, of the zones that the transmission is interconnecting as well as analysis of the environmental impacts of the transmission elements themselves; the extent to which the transmission element will be needed to meet Applicable Reliability Criteria or to provide additional reliability or economic benefits to the ISO grid;
- (f) potential future connections to other resource areas and transmission elements;
- (g) resource integration requirements and the costs associated with these requirements in particular resource areas designated pursuant to policy initiatives;
- (h) the potential for a particular transmission element to provide access to resources needed for integration, such as pumped storage in the case of renewable resources;
- (i) the effect of uncertainty associated with the above criteria, and any other considerations, that could affect the risk of stranded investment; and
- (j) the effects of other additions or upgrades being considered for approval during the planning process.

24.4.6.7 Economic Studies and Mitigation Solutions

Once the CAISO has identified projects needed to maintain reliability, LCRIF projects eligible for conditional or final approval, qualified merchant transmission projects and policy driven elements, the CAISO will conduct the High Priority Economic Planning Studies selected under Section 24.4.4 and any other studies that the CAISO concludes are necessary to determine whether additional transmission upgrades and additions, or modifications to identified transmission projects or elements, are necessary to address:

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (a) Congestion identified by the CAISO in the Congestion Data Summary published for the applicable Transmission Planning Process cycle and the magnitude, duration, and frequency of that Congestion;
- (b) Local Capacity Area Resource requirements;
- (c) Congestion projected to increase over the planning horizon used in the Transmission Planning Process and the magnitude of that Congestion; or
- (d) Integration of new generation resources or loads on an aggregated or regional basis.

In determining whether additional elements are needed, the CAISO shall consider the degree to which, if any, the benefits of the solutions outweigh the costs, in accordance with the procedures set forth in the Business Practice Manual. The benefits of the mitigation solutions may include a calculation of any reduction in production costs, Congestion costs, Transmission Losses, capacity or other electric supply costs resulting from improved access to cost-efficient resources. The cost of the mitigation solution must consider any estimated costs identified under Section 24.4.6.4 to maintain the simultaneous feasibility of allocated Long Term CRRs for the length of their term. The CAISO, in determining whether a particular solution is needed, shall also consider the comparative costs and benefits of viable alternatives to the particular transmission element, including: (1) other potential transmission upgrades or additions, including those being considered or proposed during the Transmission Planning Process; (2) acceleration or expansion of any transmission upgrade or addition already approved by the CAISO Governing Board or included in any CAISO annual Transmission Plan, and (3) non-transmission alternatives, including demand-side management. Transmission upgrades and addition elements that are identified under this Section 24.4.6.7, other than reliability-driven projects, LCRIF projects eligible for conditional or final approval and qualified Merchant Transmission Facility projects, will be open for bid and Project Sponsor solicitation in Phase 3.

24.4.6.8 Projects Submitted in Prior Request Windows

During Phase 2 of the 2010/2011 Transmission Planning Cycle, the CAISO will evaluate the specific project proposals submitted during the 2008 and 2009 request windows. If any of these 2008 or 2009 request window proposals is found by the CAISO to be needed as a Category 1 policy-driven or

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

economically-driven element, using the criteria for approval of transmission elements under sections 24.4.6.6 or 24.4.6.7, the project will be included in the comprehensive 2010/2011 Transmission Plan. Upon Board approval of the Transmission Plan, the Project Sponsor that submitted the proposal will be approved to finance, own and construct the approved additions and upgrades provided that Project Sponsor meets the criterion specified in Section 24.5.2.1(c). If a 2008 or 2009 request window proposal is found to be needed as a Category 2 policy-driven element in the 2010-2011 Transmission Planning Cycle, and that Category 2 policy-driven element is reclassified as a Category 1 policy-driven element in the 2011-2012 Transmission Planning Cycle, the Project Sponsor that submitted the proposal will be approved to finance, own and construct the element, provided that Project Sponsor meets the criterion specified in Section 24.5.2.1(c). If competing projects have been submitted by multiple Project Sponsors in the 2008 and 2009 request windows for the same elements in the 2010/2011 comprehensive Transmission Plan, the CAISO will approve one of those Project Sponsors to build and own the project based on the criteria specified in Section 24.5.2.3. To the extent that competing project proposals for the same policy-driven or economically-driven element were submitted in both the 2008 and 2009 request windows, the CAISO will give priority to the project proposals submitted in the 2008 request window.

24.4.7 Description of Transmission Elements

The transmission elements identified in the draft and final comprehensive Transmission Plan will provide sufficient engineering detail to permit Project Sponsors to submit complete proposals, under section 24.5.1 to build certain transmission elements. As further described in the Business Practice Manual, such details may include, but are not limited to:

- (a) Minimum Conductor Ampacity;
- (b) Approximate Line impedance required;
- (c) Approximate Series compensation levels;
- (d) Substation bus and breaker configuration;
- (e) Breaker clearing times;
- (f) Transformer characteristics (capacity, impedance, tap range);
- (g) Minimum Shunt capacitor and reactor sizes;
- (h) Minimum FACTS device specifications;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (i) SPS requirements;
- (j) Planning level cost estimates;
- (k) Projected in-service date.

24.4.8 Additional Contents of Comprehensive Transmission Plan

In addition to the detailed descriptions of specific needed addition and upgrade projects and elements, the draft and final comprehensive Transmission Plan may include: (1) the results of technical studies performed under the Study Plan; (2) determinations and recommendations regarding the need for identified transmission upgrade and addition projects and elements; (3) assessments of transmission upgrades and additions submitted as alternatives to the potential solutions to transmission needs identified by the CAISO and studied during the Transmission Planning Process cycle; (4) results of Economic Planning Studies (except for the 2010/2011 cycle); (5) an update on the status of transmission upgrades or additions previously approved by the CAISO, including identification of mitigation plans, if necessary, to address any potential delay in the anticipated completion of an approved transmission upgrade or addition; and (6) a description of transmission addition and upgrade projects with an estimated capital investment of \$50 million or more submitted through the Request Window and for which additional studies are required before being presented to the CAISO Governing Board for approval following completion of the studies; and (7) a description of Category 2 transmission upgrade or addition elements recommended for consideration in future planning cycles.

24.4.9 Phase 2 Stakeholder Process

- (a) According to the schedule and procedures set forth in the Business Practice Manual, the CAISO will schedule one (1) public meeting after the CAISO technical study results have been posted and Participating TOs have submitted (i) the results of technical studies conducted at the direction of the CAISO (if applicable); and (ii) reliability-driven projects and mitigation solutions. All stakeholder meetings, web conferences, or teleconferences shall be noticed by Market Notice. Interested parties will be provided a minimum two (2) week period to provide written comments regarding the technical study results and the proposals submitted by the Participating TOs.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (b) The CAISO will schedule at least one (1) other public meeting before the draft comprehensive Transmission Plan is posted to provide information about any policy-driven element evaluations or economic planning studies that have been completed since the prior public meeting was held, as well as updated information about any studies or evaluations that are still in progress. Notice of such meeting, web conference or teleconference will be provided to stakeholders via Market Notice.
- (c) In accordance with the schedule and procedures in the Business Practice Manual, but not less than one-hundred and twenty (120) days after the results of the CAISO's technical studies are posted and not less than six (6) weeks after the Request Window closes, the CAISO will post a draft comprehensive Transmission Plan. The CAISO will subsequently conduct a public conference regarding the draft comprehensive Transmission Plan and solicit comments, consistent with the timelines and procedures set forth in the Business Practice Manual. Additional meetings, web conferences, or teleconferences may be scheduled as needed. All stakeholder meetings, web conferences, or teleconferences shall be noticed by Market Notice and such notice shall be posted to the CAISO Website. After consideration of comments, the CAISO will post the revised draft comprehensive Transmission Plan to the CAISO Website.

24.4.10 Transmission Plan Approval Process

The revised draft comprehensive Transmission Plan, along with the stakeholder comments, will be presented to the CAISO Governing Board for consideration and approval. Upon approval of the plan, all needed transmission addition and upgrade projects and elements, **net of all transmission and non-transmission alternatives considered in developing the comprehensive Transmission Plan**, will be deemed approved by the CAISO Governing Board. Transmission upgrade and addition projects with capital costs of \$50 million or less can be approved by CAISO management and may proceed to permitting and construction prior to Governing Board approval of the plan. Following Governing Board approval, the CAISO will post the final comprehensive Transmission Plan to the CAISO website.

24.5 Transmission Planning Process Phase 3

24.5.1 Project Submissions

According to the schedule set forth in the Business Practice Manual, in the month following CAISO Governing Board approval of the comprehensive Transmission Plan, the CAISO will initiate a period of at least two (2) months that will provide an opportunity for Project Sponsors to submit specific transmission project proposals to finance, own, and construct the transmission elements identified in the comprehensive Transmission Plan. Such project proposals must include plan of service details and supporting information as set forth in the Business Practice Manual sufficient to enable the CAISO to determine whether the proposal meets the criteria specified in section 24.5.2.1 and 24.5.2.4. The project proposal will identify the authorized governmental body from which the Project Sponsor will seek siting approval for the project.

24.5.2 Project Selection

At the end of the project submission period, the CAISO will post a list of proposed projects and Project Sponsors to its Website, subject to the confidentiality provisions set forth in Tariff section 20 and as further described in the Business Practice Manual, and will select projects and Approved Project Sponsors pursuant to this section 24.5.2. If the selected project involves an upgrade to or addition on an existing Participating TO facility, the construction or ownership of facilities on a Participating TO's right-of-way, or the construction or ownership of facilities within an existing Participating TO substation, the Participating TO will construct and own such upgrade or addition facilities unless the Project Sponsor and the Participating TO agree to a different arrangement.

24.5.2.1 Project Sponsor Qualification

The CAISO will evaluate the proposals to finance, own and construct policy-driven transmission elements or transmission elements that are included in the comprehensive Transmission Plan based on the results of Economic Planning Studies or other economic studies conducted by the CAISO under section 24.4.6.7 to determine:

- (a) whether the proposed project is consistent with needed transmission elements identified in the comprehensive Transmission Plan;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (b) whether the proposed project satisfies Applicable Reliability Criteria and CAISO Planning Standards; and
- (c) whether the Project Sponsor **and its team** is physically, technically, and financially capable of (i) completing the project in a timely and competent manner; and (ii) operating and maintaining the facilities consistent with Good Utility Practice and applicable reliability criteria for the life of the project.

On the CAISO's request, the Project Sponsor will provide additional information that the CAISO reasonably determines is necessary to conduct its evaluation.

24.5.2.2 Single Project Sponsor

If only one (1) Project Sponsor submits a proposal to finance, own, and construct transmission elements under section 24.5.1, and the CAISO determines that the Project Sponsor is qualified to own and construct the project under the criteria set forth in section 24.5.2.1, the Project Sponsor must seek siting approval, and any other necessary approvals, from the appropriate authority or authorities within **one-hundred twenty (120)** days of CAISO approval.

24.5.2.3 Multiple Project Sponsors

- (a) If two (2) or more Project Sponsors submit proposals to own and construct the same transmission element or elements under section 24.5.1 and the CAISO determines that the two (2) or more Project Sponsors are qualified to own and construct the project under the criteria set forth in section 24.5.2.1, the CAISO will, upon request, facilitate an opportunity for the Project Sponsors to collaborate with each other to propose a single project to meet such need. If joint projects are proposed following the collaboration period, the CAISO will revise the list of potential renewable transmission upgrades or additions eligible for selection.
- (b) If the qualified Project Sponsors are unable to collaborate on a joint project and are applying to the same authorized governmental body to approve the project siting, the qualified Project Sponsors must seek siting approval within sixty (60) days and the CAISO will accept the Project Sponsor determination by that authorized governmental authority.

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (c) If the qualified Project Sponsors are unable to collaborate on a joint project and are applying to different authorized governmental bodies for project siting approval, the CAISO will select one approved Project Sponsor based on a comparative analysis of the degree to which each Project Sponsor meets the criteria set forth in sections 24.5.2.1 and a consideration of the factors set forth in 24.5.2.4. The CAISO will engage an expert consultant to assist with the selection of the approved Project Sponsor. Thereafter, the approved Project Sponsor must seek siting approval, and any other necessary approvals, from the appropriate authority or authorities within one-hundred twenty (120) days of CAISO approval.

24.5.2.4 Project Sponsor Selection Factors

In selecting an approved Project Sponsor from among multiple project sponsors, as described in section 24.5.2.3(c), the CAISO shall consider the following criteria, in addition to the criteria set forth in section 24.5.2:

- (a) the current and expected capabilities of the Project Sponsor and its team to finance, license, and construct the facility and operate and maintain it for the life of the project;
- (b) the Project Sponsor's existing rights of way and substations that would contribute to the project in question;
- (c) the experience of the Project Sponsor and its team in acquiring rights of way, and the authority to acquire rights of way by eminent domain, if necessary, that would facilitate approval and construction;
- (d) the proposed schedule for development and completion of the project and demonstrated ability to meet that schedule of the Project Sponsor and its team;
- (e) the financial resources of the Project Sponsor and its team;
- (f) the technical and engineering qualifications and experience of the Project Sponsor and its team;

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

- (g) if applicable, the previous record regarding construction and maintenance of transmission facilities, including facilities outside the CAISO Controlled Grid of the Project Sponsor and its team;
- (h) demonstrated capability to adhere to standardized construction, maintenance and operating practices;
- (i) demonstrated ability to assume liability for major losses resulting from failure of facilities;
- (j) demonstrated cost containment capability and other advantages the Project Sponsor and its team may have to build the specific project, including any binding agreement by the Project Sponsor and its team to accept a cost cap that would preclude project costs above the cap from being recovered through the CAISO's Transmission Access Charge.

The information that Project Sponsors must submit to enable the CAISO to conduct its evaluation of these criteria shall be specified in the Business Practice Manual.

24.5.3 Notice to Project Sponsors

The CAISO will notify Project Sponsors as to results of the project evaluation process in accordance with the schedule and procedures set forth in the Business Practice Manual.

24.6 Obligation to Construct Transmission Projects

A Participating TO that has a PTO Service Territory in which either terminus of the element or elements being upgraded or added is located shall be obligated to construct all transmission additions and upgrade elements or elements included in the comprehensive Transmission Plan for which there is no Approved Project Sponsor or for which the Project Sponsor is unable to secure all necessary approvals. In cases where the Approved Project Sponsor is subsequently unable or unwilling to build the project, the CAISO may, at its discretion, direct the Participating TO with a PTO Service Territory in which either terminus of the facility being upgraded or added is located to build the element or elements, or open a new solicitation of Project Sponsors to finance, construct and own the element or elements. The Approved Project Sponsor shall not sell, assign or otherwise transfer its rights to finance, construct and own the project before the project has been energized and, if applicable, turned over to the CAISO's Operational Control

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

unless the CAISO has approved such proposed transfer. The obligations of the Participating TO to construct such transmission additions or upgrades will not alter the rights of any entity to construct and expand transmission facilities as those rights would exist in the absence of a TO's obligations under this CAISO Tariff or as those rights may be conferred by the CAISO or may arise or exist pursuant to this CAISO Tariff.

24.6.1 [NOT USED]

24.6.2 [NOT USED]

24.6.3 [NOT USED]

24.7 Documentation of Compliance with NERC Reliability Standards

The Transmission Plan and underlying studies, assessments, information and analysis developed during the Transmission Planning Process, regardless of whether performed by CAISO or by Participating TOs or other third parties at the direction of CAISO, shall be used by the CAISO as part of its documentation of compliance with NERC Reliability Standards.

24.8 Additional Planning Information

24.8.1 Information Provided by Participating TOs

In addition to any information that must be provided to the CAISO under the NERC Reliability Standards, Participating TOs shall provide the CAISO on an annual or periodic basis in accordance with the schedule and procedures and in the form required by the Business Practice Manual any information and data reasonably required by the CAISO to perform the Transmission Planning Process, including, but not limited to: (1) modeling data for power flow, including reactive power, short-circuit and stability analysis; (2) a description of the total Demand to be served from each substation, including a description of any Energy efficiency programs reflected in the total Demand; (3) the amount of any interruptible Loads included in the total Demand (including conditions under which an interruption can be implemented and any limitations on the duration and frequency of interruptions); (4), a description of Generating Units to be interconnected to the Distribution System of the Participating TO, including generation type and anticipated Commercial Operation Date; (5) detailed power system models of their transmission systems that reflect transmission system changes, including equipment replacement not requiring approval by the CAISO; (6) Distribution System modifications; (7) transmission network information, including line ratings,

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

line length, conductor sizes and lengths, substation equipment ratings, circuits on common towers and with common rights-of-ways and cross-overs, special protection schemes, and protection setting information; and (8) Contingency lists.

24.8.2 Information Provided by Participating Generators

In addition to any information that must be provided to the CAISO under the NERC Reliability Standards, Participating Generators shall provide the CAISO on an annual or periodic basis in accordance with the schedule, procedures and in the form required by the Business Practice Manual any information and data reasonably required by the CAISO to perform the Transmission Planning Process, including, but not limited to: (1) modeling data for short-circuit and stability analysis and (2) data, such as term, and status of any environmental or land use permits or agreements the expiration of which may affect that the operation of the Generating Unit.

24.8.3 Information Requested from Load Serving Entities

In addition to any information that must be provided to the CAISO under the NERC Reliability Standards, the CAISO shall solicit from Load Serving Entities through their Scheduling Coordinators information required by, or anticipated to be useful to, the CAISO in its performance of the Transmission Planning Process, including, but not limited to: (1) long-term resource plans; (2) existing long-term contracts for resources and transmission service outside the CAISO Balancing Authority Area; and (3) Demand Forecasts, including forecasted effect of Energy efficiency and Demand response programs.

24.8.4 Information from Planning Groups, BAAs and Regulators

In accordance with Section 24.8 , the CAISO shall obtain or solicit from interconnected Balancing Authority Areas, regional and sub-regional planning groups within the WECC, the CPUC, the CEC, and Local Regulatory Authorities information required by, or anticipated to be useful to, the CAISO in its performance of the Transmission Planning Process, including, but not limited to: (1) long-term transmission system plans; (2) long-term resource plans; (3) generation interconnection process information; (4) Demand Forecasts; and (5) any other data necessary for the development of power flow, short-circuit, and stability cases over the planning horizon of the CAISO Transmission Planning Process.

24.8.5 Obligation to Provide Updated Information

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

If material changes to the information provided under Sections 24.8 occur during the annual Transmission Planning Process, the providers of the information must provide notice to the CAISO of the changes.

24.9 Participating TO Study Obligation

The Participating TO constructing or expanding facilities will be directed by the CAISO to coordinate with the Project Sponsor or Participating TO(s) with PTO Service Territories in which the transmission upgrade or addition will be located, neighboring Balancing Authority Areas, as appropriate, and other Market Participants to perform any study or studies necessary, including a Facility Study, to determine the appropriate facilities to be constructed in accordance with the CAISO Transmission Planning Process and the terms set forth in the TO Tariff.

24.10 Operational Review

The CAISO will perform an operational review of all facilities studied as part of the CAISO Transmission Planning Process that are proposed to be connected to, or made part of, the CAISO Controlled Grid to ensure that the proposed facilities provide for acceptable Operational Flexibility and meet all its requirements for proper integration with the CAISO Controlled Grid. If the CAISO finds that such facilities do not provide for acceptable Operational Flexibility or do not adequately integrate with the CAISO Controlled Grid, the CAISO shall coordinate with the Project Sponsor and, if different, the Participating TO with the PTO Service Territory, or the operators of neighboring Balancing Authority Areas, if applicable, in which the facilities will be located to reassess and redesign the facilities required to be constructed. Transmission upgrades or additions that do not provide acceptable Operational Flexibility or do not adequately integrate with the CAISO Controlled Grid cannot be included in the CAISO Transmission Plan or approved by CAISO management or the CAISO Governing Board, as applicable.

24.10.1 [NOT USED]

24.10.2 [NOT USED]

24.10.3 [[NOT USED]

24.10.4 [NOT USED]

24.11 State and Local Approval and Property Rights

24.11.1 PTO Requirement to Seek Necessary Approvals And Rights

The Participating TO obligated to construct facilities under this Section 24 must make a good faith effort

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

to obtain all approvals and property rights under applicable federal, state and local laws that are necessary to complete the construction of the required transmission additions or upgrades. This obligation includes the Participating TO's use of eminent domain authority, where provided by state law.

24.11.2 Consequences Of PTO Inability To Obtain Approvals And Rights

If the Participating TO cannot secure any such necessary approvals or property rights and consequently is unable to construct a transmission addition or upgrade found to be needed, it shall promptly notify the CAISO and shall comply with its obligations under the TO Tariff to convene a technical meeting to evaluate alternative proposals. The CAISO shall take such action as it reasonably considers appropriate, in coordination with the Participating TO and other affected Market Participants, to facilitate the development and evaluation of alternative proposals including, where possible, conferring on a third party the right to build the transmission addition or upgrade.

24.11.3 Conferral Of Right To Build Facilities On Third Party

Where the conditions of Section 24.11.2 have been satisfied and it is possible for a third party to obtain all approvals and property rights under applicable federal, state and local laws that are necessary to complete the construction of transmission additions or upgrades required to be constructed in accordance with this CAISO Tariff (including the use of eminent domain authority, where provided by state law), the CAISO may confer on a third party the right to build the transmission addition or upgrade, which third party shall, if applicable, enter into the Transmission Control Agreement in relation to such transmission addition or upgrade.

24.12 WECC and Regional Coordination

The Project Sponsor will have responsibility for completing any applicable WECC requirements and rating study requirements to ensure that a proposed transmission addition or upgrade meets regional planning requirements. The Project Sponsor may request the Participating TO to perform this coordination on behalf of the Project Sponsor at the Project Sponsor's expense.

24.13 Regional and Sub-Regional Planning Process

The CAISO will be a member of the WECC and other applicable regional or sub-regional organizations and participate in WECC's operation and planning committees, and in other applicable regional and sub-regional coordinated planning processes.

24.13.1 Scope of Regional or Sub-Regional Planning Participation

The CAISO will collaborate with adjacent transmission providers and existing sub-regional planning organizations through existing processes. This collaboration involves a reciprocal exchange of information, to the maximum extent possible and subject to applicable confidentiality restrictions, in order to ensure the simultaneous feasibility of respective Transmission Plans, the identification of potential areas for increased efficiency, and the consistent use of common assumptions whenever possible. The details of the CAISO's participation in regional and sub-regional planning processes are set forth in the Business Practice Manual. At a minimum, the CAISO shall be required to:

- (a) solicit the participation, whether through sub-regional planning groups or individually, of all interconnected Balancing Authority Areas in the development of the Unified Planning Assumptions and Study Plan and in reviewing the results of technical studies performed as part of the CAISO's Transmission Planning Process in order to:
 - (i) coordinate, to the maximum extent practicable, planning assumptions, data and methodologies utilized by the CAISO, regional and sub-regional planning groups or interconnected Balancing Authority Areas;
 - (ii) ensure transmission expansion plans of the CAISO, regional and sub-regional planning groups or interconnected Balancing Authority Areas are simultaneously feasible and seek to avoid duplication of facilities.
- (b) coordinate with regional and sub-regional planning groups regarding the entity to perform requests for Economic Planning Studies or other Congestion related studies;
- (c) transmit to applicable regional and sub-regional planning groups or interconnected Balancing Authority Areas information on technical studies performed as part of the CAISO Transmission Planning Process;
- (d) post on the CAISO Website links to the planning activities of applicable regional and sub-regional planning groups or interconnected Balancing Authority Areas.

24.13.2 Limitation on Regional Activities

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

Neither the CAISO nor any Participating TO nor any Market Participant shall take any position before the WECC or a regional organization that is inconsistent with a binding decision reached through an arbitration proceeding pursuant to Section 13, in which the Participating TO or Market Participant voluntarily participated.

24.14 Cost Responsibility for Transmission Additions or Upgrades

Cost responsibility for transmission additions or upgrades constructed pursuant to this Section 24 (including the responsibility for any costs incurred under Section 24.11) shall be determined as follows:

24.14.1 Project Sponsor Commitment to Pay Full Cost

Where a Project Sponsor commits to pay the full cost of a transmission addition or upgrade as set forth in subsection (2) of Section 24.4.6.1, the full costs shall be borne by the Project Sponsor.

24.14.2 Cost of Needed Addition or Upgrade to be Borne by PTO

Where the need for a transmission addition or upgrade is determined by the CAISO, the cost of the transmission addition or upgrade shall be borne by the Participating TO that will be the owner of the transmission addition or upgrade and shall be reflected in its Transmission Revenue Requirement.

24.14.3 CRR Entitlement for Project Sponsors Not Recovering Costs

Provided that the CAISO has Operational Control of the Merchant Transmission Facility, a Project Sponsor that does not recover the investment cost under a FERC-approved rate through the Access Charge or a reimbursement or direct payment from a Participating TO shall be entitled to receive Merchant CRRs as provided in Section 36.11. The full amount of capacity added to the system by such transmission upgrades or additions will be as determined through the regional reliability council process of the Western Electricity Coordinating Council or its successor.

24.14.3.1 Western Path 15

Pursuant to its Project Sponsor status as specified in Section 4.3.1.3, consistent with FERC's findings in Docket Nos. EL04-133-001, ER04-1198-000, and ER04-1198-001, issued on May 16, 2006 (115 FERC ¶ 61,178), Western Path 15 shall receive compensation associated with transmission usage rights modeled for Western Path 15. In the event that Western Path 15 has an approved rate schedule that returns excess revenue from any compensation obtained from the CAISO associated with the transmission

California Independent System Operator Corporation
Fifth Replacement FERC Electric Tariff

usage rights for Western Path 15, such revenue shall be returned to the CAISO through a procedure established by the CAISO and the Western Area Power Administration for that purpose.

24.14.3.2 FPL Energy, LLC

Pursuant to its Project Sponsor status, consistent with FERC's findings in Docket No. ER03-407, issued on June 15, 2006 (115 FERC ¶ 61, 329), FPL Energy, LLC shall receive Merchant CRRs associated with transmission usage rights modeled for the Blythe Path 59 upgrade, such Merchant CRRs to be in effect for a period of thirty (30) years, or the pre-specified intended life of the Merchant Transmission Facility, whichever is less, from the date Blythe Path 59 was energized. For the purpose of allocating Merchant CRRs to FPL Energy, LLC over the Blythe Path 59 upgrade, the allocation of CRR Options in the import (east to west, from the Blythe Scheduling Point to the 230 kV side of the 161 kV to 230 kV transformer at the Eagle Mountain substation) as well as of CRR Options in the export (west to east) direction will be based on 57.1 percent of the total upgrade (96 MW out of the 168 MW), which is FPL Energy, LLC's share of the total upgrade as approved by FERC in the letter order issued by FERC on June 15, 2006 in Docket No. ER03-407 (115 FERC ¶ 61,329).

24.14.4 Treatment Of New High Voltage Facilities Costs In HVAC

Once a New Participating TO has executed the Transmission Control Agreement and it has become effective, the cost for New High Voltage Facilities for all Participating TOs shall be included in the CAISO Grid-wide component of the High Voltage Access Charge in accordance with Schedule 3 of Appendix F, unless and with respect to Western Path 15 only, cost recovery is provided in Section 24.14.3. The Participating TO who is supporting the cost of the New High Voltage Facility shall include such costs in its High Voltage Transmission Revenue Requirement, regardless of which TAC Area the facility is geographically located.

24.15 Ownership of and Charges for Expansion Facilities

24.15.1 Transmission Additions and Upgrades under TCA

All transmission additions and upgrades constructed by Participating TOs in accordance with this Section 24 that form part of the CAISO Controlled Grid shall be operated and maintained by a Participating TO in accordance with the Transmission Control Agreement. Where such transmission additions and upgrades are jointly developed by Participating TOs and non-Participating TOs, nothing herein shall be construed to

require that the non-Participating TO transfer its portion of the transmission additions or upgrades to the CAISO's Operational Control or place such facilities within the CAISO's Balancing Authority Area.

24.15.2 Access and Charges for Transmission Additions and Upgrades

Each Participating TO that owns or operates transmission additions and upgrades constructed in accordance with this Section 24 shall provide access to them and charge for their use in accordance with this CAISO Tariff and its TO Tariff.

24.16 Expansion by Local Furnishing Participating TOs

Notwithstanding any other provision of this CAISO Tariff, a Local Furnishing Participating TO shall not be obligated to construct or expand facilities (including interconnection facilities as described in Section 8 of the TO Tariff), unless the CAISO or Project Sponsor has tendered an application under FPA Section 211 that requests FERC to issue an order directing the Local Furnishing Participating TO to construct such facilities pursuant to Section 24. The Local Furnishing Participating TO shall, within ten (10) days of receiving a copy of the Section 211 application, waive its right to a request for service under FPA Section 213(a) and to the issuance of a proposed order under FPA Section 212(c). Upon receipt of a final order from FERC that is no longer subject to rehearing or appeal, such Local Furnishing Participating TO shall construct such facilities in accordance with this Section 24.