Original Sheet No. 837

CAISO Tariff Appendix A

Master Definitions Supplement

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: December 21, 2007 Effective: March 31

Effective: March 31, 2008

FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. I Substitute Second Revised Sheet No. 838 Superseding First Revised Sheet No. 838

Appendix A

Master Definition Supplement

Access Charge A charge paid by all Utility Distribution Companies, Small Utility

Distribution Companies, and MSS Operators with Gross Load in a PTO Service Territory, as set forth in Article II. The Access Charge includes the High Voltage Access Charge, the Transition Charge and the Low

Voltage Access Charge. The Access Charge will recover the

Participating TO's Transmission Revenue Requirement in accordance

with Appendix F, Schedule 3.

ACE Area Control Error
ACR All Constraints Run

Actual Settlement Quality

Meter Data

Settlement Quality Meter Data gathered, edited, validated, and submitted

by the Scheduling Coordinators on behalf of Scheduling Coordinator

Metered Entities.

Adjusted Load Metric A Load Serving Entity's Load Metric minus the megawatts of Load

served using Existing Transmission Contracts, Converted Rights, and

Transmission Ownership Rights.

Adjusted RMR Invoice The monthly invoice issued by the RMR Owner to the CAISO for

adjustments made to the Revised Estimated RMR Invoice pursuant to

the RMR Contract reflecting actual data for the billing month.

Adjusted Verified CRR

Source Quantity

The MW amount eligible for nomination by an LSE or Qualified

OBAALSE in a verified tier of the CRR Allocation process, determined

by reducing a Verified CRR Source Quantity to account for

circumstances where the ownership or contract right to a generating resource is effective only for a portion of a particular season or month for

which CRRs are being nominated.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Issued on: June 4, 2009 Effective: November 1, 2009

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 839 Superseding Original Sheet No. 839

Administrative Price The price set by the CAISO in place of a Locational Marginal Price

when, by reason of a System Emergency, the CAISO determines that it no longer has the ability to maintain reliable operation of the CAISO Controlled Grid relying solely on the economic Dispatch of Generation. This price will remain in effect until the CAISO considers that the System

Emergency has been contained and corrected.

ADR Alternative Dispute Resolution
ADS Automated Dispatch System

Adverse System Impact The negative effects due to technical or operational limits on conductors

or equipment being exceeded that may compromise the safety and

reliability of the electric system.

Affected System An electric system other than the CAISO Controlled Grid that may be

affected by the proposed interconnection, including the Participating TOs' electric systems that are not part of the CAISO Controlled Grid.

Affected System Operator The entity that operates an Affected System.

Affiliate With respect to a corporation, partnership or other entity, each such

other corporation, partnership or other entity that directly, or indirectly through one or more intermediaries, controls, or is controlled by, or is under common control with, such corporation, partnership or other

entity.

AGC Automatic Generation Control

Aggregate Credit Limit The sum of a Market Participant's or CRR Holder's Unsecured Credit

Limit and its Financial Security Amount, as provided for in Section 12.

Elimit and its i mandar cooding into and, as provided for in coolidarity.

Aggregated Participating Load

An aggregation at one or more Participating Load Locations, created by the CAISO in consultation with the relevant Participating Load, for the purposes of enabling participating of the Participating Load in the CAISO

Markets like Generation by submitting Supply Bids when offering Curtailable Demand and as non-Participating Load by submitting

Demand Bids to consume in the Day-Ahead Market only.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist

Issued on: May 19, 2008

Effective:

Second Revised Sheet No. 840 Superseding First Revised Sheet No. 840

Aggregated Pricing Node (Aggregated PNode)

A Load Aggregation Point, Trading Hub or any group of Pricing Nodes as defined by the CAISO.

Alert, Warning or Emergency (AWE) Notice A CAISO operations communication issued to Market Participants and the public, under circumstances and in a form specified in CAISO Operating Procedures, when the operating requirements of the CAISO Controlled Grid are marginal because of Demand exceeding forecast, loss of major Generation sources, or loss of transmission capacity that has curtailed imports into the CAISO Balancing Authority Area, or if insufficient Bids for the Supply of Energy and Ancillary Services have been submitted in the HASP for the CAISO Balancing Authority Area.

All Constraints Run (ACR)

The second optimization run of the MPM-RRD process through which all transmission Constraints that are expected to be enforced in the market-clearing processes (IFM, RUC, STUC, RTUC and RTD) are enforced.

Ancillary Service Award or AS Award

The notification by the CAISO indicating that a Bid to supply an Ancillary Service has been selected to provide such service in the DAM, HASP, or RTM.

Ancillary Service Bid Cost or AS Bid Cost

An amount equal to the product of the AS Award from each accepted AS Bid, reduced by any applicable No Pay capacity, and the relevant AS Bid price.

Ancillary Service Bid or AS Bid

The Bid component that indicates the quantity in MW and a price in dollars per MW for a specific Ancillary Service, including Regulation Up, Regulation Down, Spinning Reserve and Non-Spinning Reserve, that a Scheduling Coordinator is offering to supply in a CAISO Market from a Generating Unit or System Resource, and only for Non-Spinning Reserve from the Load of a Participating Load.

Ancillary Service Marginal Price (ASMP)

The marginal cost of providing an Ancillary Service as further provided in Section 27.1.2.

Ancillary Service Obligation or AS Obligation A Scheduling Coordinator's hourly obligation for Regulation Down, Regulation Up, Spinning Reserves, and Non-Spinning Reserves calculated pursuant to Section 11.10.2.1.3, 11.10.2.2.2, 11.10.3.2, and 11.10.4.2, respectively.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 841 Superseding Original Sheet No. 841

Ancillary Service Provider A Participating Generator, System Resource operator, or Participating

Load that is certified to provide an Ancillary Service.

Ancillary Service Region

or AS Region

The System Region, the Expanded System Region, or any Sub-Region

identified by the CAISO for procurement of Ancillary Services.

Ancillary Service Regional

Limit

A maximum or a minimum, or both a maximum and a minimum, amount

of (or boundary of) Ancillary Services to be obtained within an AS Region. Limits can be expressed as either megawatt amounts or

percentages.

Ancillary Services (AS) Regulation, Spinning Reserve, Non-Spinning Reserve, Voltage Support

and Black Start together with such other interconnected operation services as the CAISO may develop in cooperation with Market Participants to support the transmission of Energy from Generation resources to Loads while maintaining reliable operation of the CAISO Controlled Grid in accordance with WECC standards and Good Utility

Practice.

Ancillary Service Schedule or AS Schedule

The notification by the CAISO indicating that a Submission to Self-

Provide an Ancillary Service has been selected to provide such service

in the DAM, HASP, or RTM.

Annual Peak Demand

Forecast

A Demand Forecast of the highest Hourly Demand in a calendar year, in

MW.

Applicable Reliability

Criteria

The Reliability Standards and reliability criteria established by NERC

and WECC and Local Reliability Criteria, as amended from time to time,

including any requirements of the NRC.

Approved Load Profile Local Regulatory Authority approved Load profiles applied to cumulative

End-Use Meter Data in order to allocate consumption of Energy to

Settlement Periods.

Approved Maintenance

Outage

A Maintenance Outage which has been approved by the CAISO through

the CAISO Outage Coordination Office.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 842 Superseding Original Sheet No. 842

Area Control Error (ACE) The sum of the instantaneous difference between the actual net

Interchange and the scheduled net Interchange between the CAISO Balancing Authority Area and all interconnected Balancing Authority Areas, taking into account the effects of the CAISO Balancing Authority

Area's frequency bias, correction of meter error, and time error

correction obligations.

AS Ancillary Services

ASMP Ancillary Service Marginal Price

ATC Available Transfer Capability

Automated Dispatch The CAISO systems application to communicate Dispatch Instructions to

System (ADS) Scheduling Coordinators.

Automatic Generation Control (AGC)

Generation equipment that automatically responds to signals from the CAISO's EMS control in Real-Time to control the Power output of Generating Units within a prescribed area in response to a change in system frequency, tie-line loading, or the relation of these to each other, so as to maintain the target system frequency and the established Interchange with other Balancing Authority Areas within the

predetermined limits.

Available Import Capability

The Maximum Import Capability of an Intertie into the CAISO Balancing Authority Area in MW deliverable to the CAISO Balancing Authority Area based on CAISO study criteria minus the sum in MW of all Existing Contracts and Transmission Ownership Rights over that Intertie held by load serving entities that do not serve Load within the CAISO Balancing Authority Area.

Available Transfer Capability (ATC)

Hours

The available capacity of a given transmission path, in MW after allocation of rights associated with Existing Contracts and

Transmission Ownership Rights, to that path's Operating Transfer Capability established consistent with CAISO and WECC transmission

capacity rating guidelines, further described in Appendix L.

Availability Assessment The hours of the month specified in accordance with Section 40.9.3

which the CAISO will utilize for applying the Availability Standards

program of Section 40.9.

Availability Incentive The monthly payment that the CAISO may make to a Resource

Payment Adequacy Resource under the Availability Standards program in

accordance with Section 40.9.

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Issued on: April 28, 2009 Effective: January 1, 2010

> Availability Charges assessed for a given month by the total Resource Adequacy Capacity that is eligible to receive the Availability Incentive

Payment for that month.

Availability Standards The standard established in accordance with Sections 40.9.4 and 40.9.7

to determine if a Resource Adequacy Resource is subject to Non-

Availability Charges or Availability Incentive Payments.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 843 Superseding First Revised Sheet No. 843

AWE Notice Alert, Warning or Emergency Notice

Backup CAISO Control

Center

The CAISO Control Center located in Alhambra, California.

Backup Meter A redundant revenue quality meter which is identical to and of equal

accuracy to the primary revenue quality meter connected at the same metering point which must be certified in accordance with the CAISO

Tariff.

BAID Business Associate Identification

Balancing Account An account set up to allow periodic balancing of financial transactions

that, in the normal course of business, do not result in a zero balance of

cash inflows and outflows.

Balancing Authority The responsible entity that integrates resource plans ahead of time,

maintains load-interchange-generation balance within a Balancing

Authority Area, and supports Interconnection frequency in real time.

Balancing Authority Area The collection of generation, transmission, and loads within the metered

boundaries of the Balancing Authority. The Balancing Authority

maintains load-resource balance within this area.

Balancing Authority Area

Gross Load

For the purpose of calculating and billing Minimum Load Costs,

Emission Costs, and Start-Up Costs, Balancing Authority Area Gross

Load is all Demand for Energy within the CAISO Balancing Authority Area. Balancing Authority Area Gross Load shall not include Energy

consumed by:

(a) Station Power that is netted pursuant to Section 10.1.3; and

(b) Load that is isolated electrically from the CAISO Balancing

Authority Area (i.e., Load that is not synchronized with the CAISO

Balancing Authority Area).

Base Case The base case power flow, short circuit, and stability data bases used

for the Interconnection Studies.

Base Market Model A computer based model of the CAISO Controlled Grid that is derived

from the Full Network Model as described in Section 27.5.1 and that, as described further in Section 27.5.6, is used as the basis for formulating the market models used in the operation of each of the CAISO Markets.

Issued by: Nancy Saracino, Vice President, General Counsel and Corporate Secretary

Issued on: December 31, 2009 Effective: October 2, 2009

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

BCR Bid Cost Recovery

Bid An offer for the Supply or Demand of Energy or Ancillary Services,

including Self-Schedules, submitted by Scheduling Coordinators for specific resources, conveyed through several components that apply differently to the different types of service offered to or demanded from

Original Sheet No. 844

any of the CAISO Markets.

Bid Adder A dollar amount added to the Bid of a Frequently Mitigated Unit.

Bid Cost Recovery (BCR) The CAISO settlements process through which Eligible Resources

recover their Bid Costs.

Bid Cost Recovery
Eligible Resources (BCR
Eligible Resources)

Those resources eligible to participate in the Bid Cost Recovery as specified in Section 11.8, which include Generating Units, System Units,

System Resources, and Participating Loads.

Bid Costs The costs for resources manifested in the Bid components submitted,

which include the Start-Up Cost, Minimum Load Cost, Energy Bid Cost, Pump Shut-Down Cost, Pumping Cost, Ancillary Services Bid Cost and

RUC Availability Payment.

Black Start The procedure by which a Generating Unit self-starts without an external

source of electricity thereby restoring a source of power to the CAISO Balancing Authority Area following system or local area blackouts.

Black Start Generator A Participating Generator in its capacity as party to an Interim Black

Start Agreement with the CAISO for the provision of Black Start

services, but shall exclude Participating Generators in their capacity as

providers of Black Start services under their Reliability Must-Run

Contracts.

BPM Business Practice Manual

BPM PRRBusiness Practice Manual Proposed Revision Request

Bulk Supply Point A Utility Distribution Company or Small Utility Distribution Company

metering point.

Business Associate Any entity with whom the CAISO interacts related to the CAISO

Markets.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: December 21, 2007 Effective: March 31, 2008

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 845 Superseding Original Sheet No. 845

Business Associate Identification (BAID)

Identification characters assigned to each Business Associate by the

CAISO.

Business Day Monday through Friday, excluding federal holidays and the day after

Thanksgiving Day.

Business Practice Manual Proposed Revision Request (BPM PRR) A request to make any change to a BPM, including any attachments

thereto, as described in Section 22.11.1.

Business Practice Manuals (BPMs)

A collection of documents made available by the CAISO on the CAISO Website that contain the rules, polices, procedures and guidelines established by the CAISO for operational, planning, accounting and settlement requirements of CAISO Market activities, consistent with the

CAISO Tariff.

CAISO The California Independent System Operator Corporation, a state

chartered, California non-profit public benefit corporation that operates the transmission facilities of all Participating TOs and dispatches certain

Generating Units and Loads.

CAISO Account The CAISO Clearing Account, the CAISO Reserve Account or such

other trust accounts as the CAISO deems necessary or convenient for the purpose of efficiently implementing the funds transfer system under

the CAISO Tariff.

CAISO ADR Procedures The procedures for resolution of disputes or differences set out in

Section 13.

CAISO Alternative Dispute Resolution Committee (CAISO ADR Committee) The Committee appointed by the CAISO Governing Board pursuant to Article IV, Section 3 of the CAISO bylaws to perform functions assigned to the CAISO ADR Committee in the CAISO ADR Procedures in Section

13.

CAISO Audit Committee A committee of the CAISO Governing Board appointed pursuant to

Article IV, Section 5 of the CAISO bylaws to (1) review the CAISO's annual independent audit (2) report to the CAISO Governing Board on

such audit, and (3) monitor compliance with the CAISO Code of

Conduct.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

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FERC ELECTRIC TARIFF
Substitute Second Revised Sheet No. 846
FOURTH REPLACEMENT VOLUME NO. I
Superseding First Revised Sheet No. 846

CAISO Authorized

Inspector

A person authorized by the CAISO to certify, test, inspect and audit

meters and Metering Facilities in accordance with the procedures

established by the CAISO pursuant to Section 10.

CAISO Bank The bank appointed by the CAISO from time to time for the purposes of

operating the Settlement process.

CAISO CEO The Chief Executive Officer of the CAISO.

CAISO Clearing Account The account in the name of the CAISO with the CAISO Bank to which

payments are required to be transferred for allocation to CAISO

Creditors in accordance with their respective entitlements.

CAISO Code of Conduct For employees, the code of conduct for officers, employees and

substantially full-time consultants and contractors of the CAISO as set out in exhibit A to the CAISO bylaws; for governors, the code of conduct for governors of the CAISO as set out in exhibit B to the CAISO bylaws.

CAISO Commitment

Period

The portion of a Commitment Period that is not a Self-Commitment

Period.

CAISO Control Center The control center established by the CAISO pursuant to Section 7.1.

CAISO Controlled Grid The system of transmission lines and associated facilities of the

Participating TOs that have been placed under the CAISO's Operational

Control.

CAISO CreditorA Business Associate to which amounts are payable under the terms of

the CAISO Tariff and agreements with the CAISO.

CAISO Debtor A Business Associate that is required to make a payment to the CAISO

under the CAISO Tariff and agreements with the CAISO.

CAISO Demand Power delivered to Load internal to CAISO Balancing Authority Area.

CAISO Documents The CAISO Tariff, CAISO bylaws, and any agreement entered into

between the CAISO and a Scheduling Coordinator, a Participating TO or

any other Market Participant pursuant to the CAISO Tariff.

CAISO Emissions Cost

Trust Account

The CAISO Account established pursuant to Section 11.18.2.

CAISO Estimated

Settlement Quality Meter

Data

Settlement Quality Meter Data estimated by the CAISO in accordance

with Sections 10.3.6.1 and 11.1.5.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Issued on: June 4, 2009 Effective: November 1, 2009

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 846A

CAISO Financing Costs

The CAISO's financing costs that are approved by the CAISO Governing Board, including capital expenditures that may be financed over such period as the CAISO Governing Board shall decide. CAISO Financing Costs shall also include the CAISO Start Up and Development Costs. The amortized amount to be included in the Grid Management Charge shall be equal to the amount necessary to amortize fully all CAISO Start Up and Development Costs over a period of five (5) years, or such longer period as the CAISO Governing Board shall decide. These costs include the requirement to collect an amount in excess of the annual debt service obligations as specified in the rate covenants of the official statements for each CAISO bond offering.

CAISO Forecast of CAISO Demand The forecast of CAISO Demand made by the CAISO for use in the

CAISO Markets.

CAISO Governing Board

The Board of Governors established to govern the affairs of the CAISO.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: February 20, 2008

FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II 2nd Substitute Second Revised Sheet No. 847 Superseding First Revised Sheet No. 847

CAISO IFM Commitment

Period

The portion of a Commitment Period in the IFM that is not a Self-

Commitment Period.

CAISO IFM Curtailed Quantity

In each Trading Hour for each Scheduling Coordinator (a) the maximum of zero or the submitted Day-Ahead Self-Schedule for Demand minus the Day-Ahead Schedule for Demand in each applicable LAP, or (b) in the event a LAP price equals the maximum price for Energy Bids specified in Section 39.6.1.1, the maximum of zero or the submitted Day-Ahead Self-Schedule for Demand plus the quantity of Demand bid at the maximum price for Energy Bids specified in Section 39.6.1.1 minus the Day-Ahead Schedule for Demand in the relevant LAP.

CAISO Invoice

The invoices issued by the CAISO to the Responsible Utilities or RMR Owners based on the Revised Estimated RMR Invoice and the Revised Adjusted RMR Invoice.

CAISO Markets

Any of the markets administered by the CAISO under the CAISO Tariff, including, without limitation, the DAM, HASP, RTM, transmission, and Congestion Revenue Rights.

CAISO Markets Processes

The MPM-RRD, IFM, RUC, STUC, RTUC, and RTD. HASP is an hourly

run of the RTUC.

CAISO Memorandum Account

The memorandum account established by each California IOU pursuant to California Public Utilities Commission Order D. 96-08-038 date August 2, 1996 which records all CAISO start up and development costs

incurred by that California IOU.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Issued on: April 27, 2009 Effective: March 31, 2009 FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 847A Superseding Original Sheet No. 847A

CAISO Metered Entity

- (a) any one of the following entities that is directly connected to the CAISO Controlled Grid:
- a Generator other than a Generator that sells all of its Energy (excluding any Station Power that is netted pursuant to Section 10.1.3) and Ancillary Services to the Utility Distribution Company or Small Utility Distribution Company in whose Service Area it is located;
- ii. an MSS Operator; or
- iii. a Utility Distribution Company or Small Utility Distribution Company; and
- (b) any one of the following entities:
- i. a Participating Generator;
- ii. a Participating TO in relation to its Tie Point Meters with other TOs or Balancing Authority Areas;
- iii. a Participating Load;
- iv. a Participating Intermittent Resource; or
- v. a utility that requests that Unaccounted for Energy for its Service Area be calculated separately, in relation to its meters at points of connection of its Service Area with the systems of other utilities.

CAISO Penalty Reserve Account

The account established by the CAISO pursuant to Section 11.29.9.6.4.

Issued by: Nancy Saracino, Vice President, General Counsel and Corporate Secretary

Issued on: February 5, 2010 Effective: April 7, 2010

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

Superseding Original Sheet No. 848

First Revised Sheet No. 848

CAISO Operating and Capital Reserves Account

FOURTH REPLACEMENT VOLUME NO. II

The account in the name of the CAISO with the CAISO Bank to which revenues collected to fund the CAISO financial operating reserves are transferred, in accordance with Section 11.17. Such financial operating reserves shall be utilized to minimize the impact of any variance between forecast and actual costs throughout the year.

CAISO Operating and Capital Reserves Costs

The CAISO's annual budgeted cost of cash funded capital and project expenditures and the amount (positive or negative) sufficient to maintain the CAISO Operating and Capital Reserves Account at the level specified by (1) the rate covenants of the official statements for each CAISO bond offering, (2) the CAISO Governing Board, or (3) the FERC.

CAISO Operating Costs

The CAISO's budgeted annual operating costs, which shall include all staffing costs including remuneration of contractors and consultants, salaries, benefits and any incentive programs for employees, costs of operating, replacing and maintaining CAISO systems, lease payments on facilities and equipment necessary for the CAISO to carry out its business, and annual costs of financing the CAISO's working capital and other operating costs.

CAISO Operations Date

March 31, 1998.

CAISO Other Costs and

Revenues

Other costs and revenues that are recovered through, or are offsets to, the CAISO revenue requirement, including special charges, fines, penalties, other interest expenses, reimbursements, and interest earnings.

CAISO Outage Coordination Office The office established by the CAISO to coordinate Maintenance Outages in accordance with Section 9.3.

CAISO Payments Calendar

A calendar published by the CAISO showing the dates on which Settlement Statements will be published by the CAISO and the Payment Dates by which Invoices issued under the CAISO Tariff must be paid.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: February 20, 2008 Effective:

FOURTH REPLACEMENT VOLUME NO. II

CAISO Planning Standards	Reliability Criteria that: (1) address specifics not covered in the NERC
	and WECC planning standards; (2) provide interpretations of the NERC
	and WECC planning standards specific to the CAISO Controlled Grid;
	and (3) identify whether specific criteria should be adopted that are more

stringent than the NERC and WECC planning standards.

CAISO Protocols The rules, protocols, procedures and standards promulgated by the

CAISO (as amended from time to time) to be complied with by the

CAISO, Scheduling Coordinators, Participating TOs and all other Market Participants in relation to the operation of the CAISO Controlled Grid and the participation in the markets for Energy and Ancillary Services in

accordance with the CAISO Tariff.

CAISO Register The register of all the transmission lines, associated facilities and other

necessary components that are at the relevant time being subject to the

CAISO's Operational Control.

CAISO Reserve Account The account established for the purpose of holding cash deposits which

may be used in or towards clearing the CAISO Clearing Account.

CAISO Start Up and

The CAISO's costs outstanding to the credit of the CAISO Memorandum

Development Costs

Account plus any additional start up or development costs incurred after the date of Resolution E 3459 (July 17, 1996), plus any additional capital

expenditure incurred by the CAISO in 1998.

CAISO Surplus Account The account established by the CAISO pursuant to Section 11.29.9.6.3.

CAISO Tariff

The California Independent System Operator Corporation Operating

Agreement and Tariff, dated March 31, 1997, as it may be modified from

time to time.

CAISO Website The CAISO internet home page at http://www.caiso.com or such other

internet address as the CAISO shall publish from time to time.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: February 20, 2008 Effective:

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 849 Superseding Original Sheet No. 849

CAISO-WECC Billing Services Agreement The agreement between the CAISO and the WECC entered into by

those parties in August 2007, as it may be amended from time to

time, regarding the CAISO's performance of certain billing services to

facilitate the WECC's collection of NERC/WECC Charges.

Calculated Energy Bid The Energy Bid utilized in the IFM and RTM on behalf of a COG

calculated by dividing its Minimum Load Cost by the MW quantity of its

PMax.

Candidate CRR Holder An entity that is registered and qualified by the CAISO to participate in

the CRR Allocation, the CRR Auction, or the Secondary Registration

System to become a CRR Holder and is a party to a fully executed CRR Entity Agreement, and therefore must comply with the requirements for

Candidate CRR Holders under the CAISO Tariff.

Capacity Benefit Margin

(CBM)

The factor defined in Appendix L.

CBM Capacity Benefit Margin
CCR Competitive Constraints Run

CDWR-SWP The California Department of Water Resources, State Water Project.

CDWR-SWP Participating Generating Units The Generating Units operated by the California Department of Water

Resources, State Water Project, that are subject to a Participating

Generator Agreement with the CAISO.

CEC The California Energy Commission or its successor.

Certificate of Compliance A certificate issued by the CAISO which states that the Metering

Facilities referred to in the certificate satisfy the certification criteria for

Metering Facilities contained in the CAISO Tariff.

C.F.R. Code of Federal Regulations.

Charge Code A numeric identifier used to specify Settlement calculations in the

Business Practice Manual.

Clean Bid A valid Bid submitted by a Scheduling Coordinator that requires no

modification, a Default Modified Bid, or a Generated Bid deemed to be

acceptable for submission to the CAISO Market applications.

Clustering The process whereby a group of Interconnection Requests is studied

together, instead of serially, for the purpose of conducting the

Interconnection System Impact Study.

COG Constrained Output Generator

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Issued on: January 15, 2009 Effective: March 31, 2009

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Third Revised Sheet No. 850 Superseding Second Revised Sheet No. 850

Commercial Operation The status of a Generating Unit or project phase at a Generating Facility

that has commenced generating electricity for sale, excluding electricity

generated during Trial Operation.

Commercial Operation Date

The date on which a Generating Unit or project phase at a Generating

Facility commences Commercial Operation as agreed to by the applicable Participating TO, the CAISO, and the Interconnection

Customer pursuant to Appendix E to the Large Generator

Interconnection Agreement, and in accordance with the implementation

plan agreed to by the Participating TO and the CAISO for multiple individual Generating Units or project phases at a Generating Facility where an Interconnection Customer intends to establish separate Commercial Operation Dates for those Generating Units or project

phases.

Commitment Interval The fifteen minute period of time for which the CAISO commits

resources or procures Ancillary Services through the Real-Time Unit

Commitment process.

Commitment Period The consecutive Time Periods within a Trading Day with an "On"

Commitment Status.

Commitment Status The "On" or "Off" state for each unit in each Time Period.

Competitive Constraints

Run (CCR)

The first optimization run of the MPM-RRD process through which all

pre-designated competitive Constraints are enforced.

Condition 1 RMR Unit

Condition 2 RMR Unit

Congestion

A resource operating pursuant to Condition 1 of its RMR Contract.

A resource operating pursuant to Condition 2 of its RMR Contract.

A characteristic of the transmission system produced by a

binding Constraint to the optimum economic dispatch to meet Demand such that the LMP, exclusive of Marginal Cost of Losses, at different

Locations of the transmission system is not equal.

Congestion Charge A charge attributable to the Marginal Cost of Congestion at a given

pricing PNode.

Congestion Data

Summary

A report issued by the CAISO on the schedule set forth in the Business

Practice Manual that sets forth historic Congestion on the CAISO

Controlled Grid.

Congestion Management The alleviation of Congestion in accordance with applicable CAISO

procedures, the CAISO Tariff, and Good Utility Practice.

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Issued on: October 31, 2008 Effective: January 31, 2009

FERC ELECTRIC TARIFF
Substitute Third Revised Sheet No. 851
FOURTH REPLACEMENT VOLUME NO. II
Superseding Second Revised Sheet No. 851

Congestion Revenue Right (CRR)

A CRR Obligation or CRR Option.

Connected Entity

A Participating TO or any party that owns or operates facilities that are

electrically interconnected with the CAISO Controlled Grid.

Constrained Output Generator (COG)

A Generating Unit with an operating range (PMax - PMin) that is no greater than the higher of three (3) MW or five percent (5%) of its PMax that elects, on an annual basis, to utilize a Calculated Energy Bid in the

IFM and RTM as described in Section 27.7.

Constraints Physical and operational limitations on the transfer of electrical power

through transmission facilities.

commitments for the purchase of major electrical equipment or land for

Participating TO's Interconnection Facilities or Network Upgrades

assigned to the Interconnection Customer that occur after receipt of all appropriate governmental approvals needed for the Participating TO's

Interconnection Facilities or Network Upgrades.

Contingency A potential Outage that is unplanned, viewed as possible or eventually

probable, which is taken into account when considering approval of other requested Outages or while operating the CAISO Balancing

Authority Area.

Contingency Flag The daily Bid component that indicates that the Spinning Reserves and

Non-Spinning Reserves being offered in the CAISO Market are

Contingency Only reserves.

Contingency Only A resource providing Operating Reserve capacity that may be

Dispatched by the CAISO only in the event of a Contingency or an

imminent or actual System Emergency.

Contract Reference Number (CRN) The Bid component that indicates the specific contract identification

number issued by the CAISO to Scheduling Coordinators transactions

under Existing Contracts or TORs.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 851A

Control Area Balancing Authority Area

Control Area Gross Load Balancing Authority Area Gross Load

Control Area Operator Balancing Authority

Converted Rights Those transmission service rights as defined in Section 4.3.1.6.

Core Reliability Services – Demand Charge

The component of the Grid Management Charge that provides for the recovery of the CAISO's costs of providing a basic, non-scalable level of reliable operation for the CAISO Balancing Authority Area and meeting

regional and national reliability requirements. The formula for

determining the Core Reliability Services - Demand Charge is set forth

in Appendix F, Schedule 1, Part A.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

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Core Reliability Services – Energy Export Charge

The component of the Grid Management Charge that provides for the recovery of the CAISO's costs of providing a basic, non-scalable level of reliable operation for the CAISO Balancing Authority Area and meeting regional and national reliability requirements. The formula for determining the Core Reliability Services – Energy Exports Charge is set forth in Appendix F, Schedule 1, Part A.

Core Reliability Services/ Energy Transmission Services – Transmission Ownership Rights Charge The component of the Grid Management Charge that provides for the recovery of the CAISO's costs of providing reliability services to Transmission Ownership Rights within the CAISO Balancing Authority Area. The formula for determining the Core Reliability Services/Energy Transmission Services – Transmission Ownership Rights Charge is set forth in Appendix F, Schedule 1, Part A.

CPUC

The California Public Utilities Commission, or its successor.

CPUC Load Serving Entity

Any entity serving retail Load in the CAISO Balancing Authority Area under the jurisdiction of the CPUC, including an electrical corporation under section 218 of the California Public Utilities Code, an electric service provider under section 218.3 of the California Public Utilities Code, and a community choice aggregator under section 331.1 of the California Public Utilities Code.

Credit Margin

The quantity equal to Expected Congestion Revenue minus Fifth Percentile Congestion Revenue.

Critical Energy Infrastructure Information (CEII) Critical Energy Infrastructure Information shall have the meaning given the term in the regulations of FERC at 18 C.F.R. § 388.12, et seq.

Critical Protective System

Facilities and sites with protective relay systems and Remedial Action Schemes that the CAISO determines may have a direct impact on the ability of the CAISO to maintain system security and over which the CAISO exercises Operational Control.

CRN Contract Reference Number
CRR Congestion Revenue Rights

CRR Allocation The process of nominations and awards held monthly and annually

through which the CAISO will distribute CRRs to Candidate CRR

Holders.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 853

CRR Annual Cycle Time period covered by all the CRRs released in an annual CRR

Allocation and CRR Auction processes.

CRR Auction The annual and monthly market process that will follow CRR Allocation

through which the CAISO makes CRRs available to Candidate CRR

Holders that submit offers to purchase CRRs.

CRR Auction Price The positive or negative price to pay or be paid for a CRR at auction.

CRR Balancing Account The financial account held by the CAISO for CRRs that is administered

in accordance with Section 11.2.4.

CRR Charge The charge assessed by the CAISO on the holder of a CRR Obligation

when Congestion is in the opposite direction of the CRR Source to CRR

Sink specification as described in Section 11.2.4.

CRR Eligible Quantity The Seasonal CRR Eligible Quantity or the Monthly CRR Eligible

Quantity.

CRR Entity Agreement An agreement between the CAISO and a Candidate CRR Holder or

CRR Holder that must be fully executed in order for such an entity to

participate in the CRR Allocation, CRR Auction, or Secondary Registration System, a pro forma version of which is set forth in

Appendix B.11.

CRR Holder A Candidate CRR Holder that has acquired CRR(s) either through the

CRR Allocation, the CRR Auction, or through a transaction registered in

the Secondary Registration System.

CRR Load Metric The Seasonal CRR Load Metric or Monthly CRR Load Metric.

CRR Obligation A financial instrument that entitles the holder to a CRR Payment when

Congestion is in the direction of the CRR Source to CRR Sink specification and imposes on its holder a CRR Charge when

Congestion is in the opposite direction of the CRR Source to CRR Sink

specification as described in Section 11.2.4.

CRR Option A financial instrument that entitles its holder to a CRR Payment when

Congestion is in the direction of the CRR Source to CRR Sink

specification.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

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11.2.4.

CRR Sink A PNode or a Trading Hub specified as the point of withdrawal for a

Congestion Revenue Right.

CRR Source A PNode or a Trading Hub specified as the point of receipt for a

Congestion Revenue Right.

CRR Term Set of hours for which a given CRR is effective, based on the CRR

specifications in Section 36.3, which is either the season multiplied by the time of use specifications or the month multiplied by the time of use

specifications.

CRR Year Four Second, third and fourth quarters of calendar year 2011 and first quarter

of calendar year 2012.

CRR Year One Second, third and fourth quarters of calendar year 2008 and first quarter

of calendar year 2009.

CRR Year Three Second, third and fourth quarters of calendar year 2010 and first quarter

of calendar year 2011.

CRR Year Two Second, third and fourth quarters of calendar year 2009 and first quarter

of calendar year 2010.

Curtailable Demand Demand from a Participating Load or Aggregated Participating Load that

can be curtailed at the direction of the CAISO in the Real-Time Dispatch of the CAISO Controlled Grid. Scheduling Coordinators with Curtailable Demand may offer it to the CAISO to meet Non-Spinning Reserve or

Imbalance Energy.

Custom Load Aggregation

Point (Custom LAP)

An aggregation of Load PNodes created by the CAISO based on a set

of custom LDFs submitted by a Scheduling Coordinator, at which such Scheduling Coordinator may submit a single Bid and settle Demand consistent with the CAISO Tariff rules, and for which the Scheduling Coordinator is required to submit to the CAISO Meter Data for the nodal

Load represented in such aggregation.

DAM Day-Ahead Market

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 855 Superseding Original Sheet No. 855

Day 0 The Trading Day to which the Settlement Statement or Settlement

calculation refers. For example "Day 41" shall mean the 41st day after that Trading Day and similar expressions shall be construed accordingly.

triat Trading Day and Similar expressions shall be constitued acco

Day-Ahead The twenty-four hour time period prior to the Trading Day.

Day-Ahead Bid Awarded Energy

The Day-Ahead Scheduled Energy above the Day-Ahead Total Self-Schedule and below the Day-Ahead Schedule. The Day-Ahead Bid Awarded Energy is also indexed against the relevant Day-Ahead Energy Bid and sliced by the Energy Bid price. The Day-Ahead Energy Bid Awarded Energy slices are settled as described in Section 11.2.1.1, and

they are included in BCR as described in Section 11.8.2.1.5.

Day-Ahead Inter-SC Trade Period

The period commencing seven (7) days prior to the applicable Trading Day and ending at 12:00 p.m. noon on the day prior to that Trading Day, during which time the CAISO will accept Inter-SC Trades of Energy for the DAM from Scheduling Coordinators.

Day-Ahead Market (DAM)

A series of processes conducted in the Day-Ahead that includes the Market Power Mitigation-Reliability Requirement Determination, the Integrated Forward Market and the Residual Unit Commitment.

Day-Ahead Minimum Load Energy

Day-Ahead Scheduled Energy below the registered Minimum Load, which applies to Generating Units with non-zero Minimum Load. Day-Ahead Minimum Load Energy is settled as provided in Section 11.2.1.1, and it is included in Bid Cost Recovery (BCR) at the relevant IFM Minimum Load Cost as described in Section 11.8.2.1.2.

Day-Ahead Pumping Energy

Negative Day-Ahead Scheduled Energy consumed by Participating Load Pumped-Storage Hydro Units and Pumping Load scheduled in pumping mode in the IFM. When Day-Ahead Pumping Energy is present, there are no other Day-Ahead Scheduled Energy subtypes present. Day-Ahead Pumping Energy is settled as provided in Section 11.2.1.3 and it is included in BCR as described in Sections 11.8.2.1.4

and 11.8.2.2.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

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Day-Ahead Schedule

A Schedule issued by the CAISO one day prior to the target Trading Day indicating the levels of Supply and Demand for Energy cleared through the IFM and scheduled for each Settlement Period, for each PNode or Aggregated Pricing Node, including Scheduling Points of that Trading Day.

Day-Ahead Scheduled Energy

Hourly Energy that corresponds to the flat portions of the hourly Day-Ahead Schedule. It is composed of Day-Ahead Minimum Load Energy, Day-Ahead Self-Scheduled Energy, and Day-Ahead Bid Awarded Energy. It does not include the Day-Ahead Energy that corresponds to the flat schedule when a resource is committed in the Day-Ahead in pumping mode. Expected Energy committed in Day-Ahead pumping mode is accounted for as Day-Ahead Pumping Energy. Day-Ahead Scheduled Energy is settled as specified in Section 11.2.1.1.

Day-Ahead Self-Scheduled Energy

Day-Ahead Scheduled Energy above the registered Minimum Load and below the lower of the Day-Ahead Total Self-Schedule or the Day-Ahead Schedule. Day-Ahead Self-Scheduled Energy is settled as described in Section 11.2.1.1, and, as indicated in Section 11.8.2.1.5, it is not included in BCR.

Day-Ahead Total Self-Schedule

The sum of all Day-Ahead Self-Schedules (except Pumping Load Self-Schedules) in the relevant Clean Bid.

Decline Monthly Charge – Exports

A charge that applies to the aggregate of a Scheduling Coordinator's HASP Intertie Schedules for Energy exports that are not delivered in a Trading Month, as determined pursuant to Section 11.31.1.

Decline Monthly Charge – Imports

A charge that applies to the aggregate of a Scheduling Coordinator's HASP Intertie Schedules for Energy imports that are not delivered in a Trading Month, as determined pursuant to Section 11.31.1.

Decline Potential Charge – Exports

A potential charge that is calculated for any HASP Intertie Schedule for an Energy export when the HASP Intertie Schedule is not delivered for any reason, which potential charge and its applicability are determined pursuant to Section 11.31.

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Original Sheet No. 856A

Decline Potential	Charge -
Imports	_

A potential charge that is calculated for any HASP Intertie Schedule for an Energy import when the HASP Intertie Schedule is not delivered for any reason, which potential charge and its applicability are determined pursuant to Section 11.31.

Decline Threshold Percentage – Imports/Exports

The rate at which Scheduling Coordinators may fail to deliver imports or exports in accordance with HASP Intertie Schedules without incurring Decline Monthly Charges – Imports or Decline Monthly Charges – Exports, as measured by the respective percentages of HASP Intertie Schedules for import or export MWh quantities that the Scheduling Coordinator does not deliver during a Trading Month. The Decline Threshold Percentage – Imports/Exports is ten percent (10%).

Decline Threshold Quantity – Imports/Exports

The MWh quantity of HASP Intertie Schedules for imports or exports of Energy that a Scheduling Coordinator may fail to deliver during a Trading Month without incurring Decline Monthly Charges – Imports or Decline Monthly Charges – Exports. The Decline Threshold Quantity – Imports/Exports is 300 MWh.

Default Energy Bid

The Energy Bid Curve used in Local Market Power Mitigation pursuant to Section 39.

Default LAP

The LAP defined for the TAC Area at which all Bids for Demand shall be submitted and settled, except as provided in Sections 27.2.1 and 30.5.3.2.

Default Modified Bid

A Bid that is submitted by a Scheduling Coordinator and is deemed valid and qualifies for modification under the provisions of Section 40.

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First Revised Sheet No. 857 Superseding Original Sheet No. 857

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Deliverability Assessment

An evaluation by the Participating TO, CAISO or a third party consultant for the Interconnection Customer to determine a list of facilities, the cost of those facilities, and the time required to construct these facilities, that would ensure a Generating Facility could provide Energy to the CAISO Controlled Grid at peak Load, under a variety of severely stressed conditions, such that the aggregate of Generation in the local area can be delivered to the aggregate of Load on the CAISO Controlled Grid, consistent with the CAISO's reliability criteria and procedures.

Delivery Network Upgrades Transmission facilities at or beyond the Point of Interconnection, other than Reliability Network Upgrades, identified in the Interconnection

Studies to relieve Constraints on the CAISO Controlled Grid.

Delivery Point

The point where a transaction between Scheduling Coordinators is deemed to take place. It can be either the Generation input point, a Demand Take-Out Point, or a transmission bus at some intermediate Location.

Demand

The instantaneous amount of Power that is delivered to Loads and Scheduling Points by Generation, transmission or distribution facilities. It is the product of voltage and the in-phase component of alternating current measured in units of watts or standard multiples thereof, e.g., 1,000W=1kW, 1,000kW=1MW, etc.

Demand Bid

The Bid component in a Bid submitted in the DAM that indicates the MWh of Energy the Scheduling Coordinator is willing to purchase, the price at which it is willing to purchase the specified Energy and the applicable Trading Hours for the next day.

Demand Forecast

An estimate of Demand over a designated period of time.

Department of Market Monitoring (DMM)

The department of the CAISO established under Section 1 of Appendix

Ρ.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 858 Superseding Original Sheet No. 858

Derate Energy

Extra-marginal IIE, exclusive of Standard Ramping Energy, Ramping Energy Deviation, Residual Imbalance Energy, MSS Load Following Energy, and Real-Time Minimum Load Energy produced or consumed due to Minimum Load overrates or PMax derates. Derate Energy is produced above the higher of the Day-Ahead Schedule, the registered Minimum Load, or the HASP Intertie Schedule, and below the lower of the overrated Minimum Load and the Dispatch Operating Point, or consumed below the lower of the Day-Ahead Schedule or the HASP Intertie Schedule, and above the higher of the derated PMax or the Dispatch Operating Point. There could be two Derate Energy slices. one for the Minimum Load overrate, and one for the PMax derate. Derate Energy does not overlap with Standard Ramping Energy. Ramping Energy Deviation, Residual Imbalance Energy, Real-Time Minimum Load Energy, Exceptional Dispatch Energy, or Optimal Energy, but it may overlap with Day-Ahead Scheduled Energy, HASP Scheduled Energy, and MSS Load Following Energy. Derate Energy is settled as described in Section 11.5.1, and it is not included in BCR as described in Section 11.8.4.

Direct Access End-User

An Eligible Customer located within the Service Area of a Utility Distribution Company who purchases Energy and Ancillary Services through a Scheduling Coordinator.

Dispatch

The activity of controlling an integrated electric system to: i) assign specific Generating Units and other sources of supply to effect the supply to meet the relevant area Demand taken as Load rises or falls; ii) control operations and maintenance of high voltage lines, substations, and equipment, including administration of safety procedures; iii) operate interconnections; iv) manage Energy transactions with other interconnected Balancing Authority Areas; and v) curtail Demand.

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Dispatch Instruction An instruction by the CAISO for an action with respect to specific

equipment, or to a resource for increasing or decreasing its Energy Supply or Demand from the Day-Ahead Schedule, RUC Schedule, and

First Revised Sheet No. 859

Day-Ahead AS Award to a specified Dispatch Operating Point pertaining

to Real-Time operations.

Dispatch Interval The Time Period, which may range between five (5) and thirty (30)

minutes, over which the Real-Time Dispatch measures deviations in

Generation and Demand, and selects Ancillary Service and

supplemental energy resources to provide balancing Energy in response

to such deviations. The Dispatch Interval shall be five (5) minutes. Following a decision by the CAISO Governing Board, the CAISO may, by seven (7) days' notice published on the CAISO Website, increase or decrease the Dispatch Interval within the range of five (5) to thirty (30)

minutes.

Dispatch Interval LMPThe price of Imbalance Energy determined at each Dispatch Interval in

accordance with Section 11.5.4.

Dispatch Operating Point The expected operating point of a resource that has received a Dispatch

Instruction. The resource is expected to operate at the Dispatch Operating Point after completing the Dispatch Instruction, taking into account any relevant Ramp Rate and time delays. Energy expected to be produced or consumed above or below the Day-Ahead Schedule in response to a Dispatch Instruction constitutes Instructed Imbalance

Dispatch Operating Point defaults to the corresponding Day-Ahead

Energy. For resources that have not received a Dispatch Instruction, the

Schedule.

Distribution SystemThe distribution assets of an IOU or Local Publicly Owned Electric Utility.

Distribution Upgrades The additions, modifications, and upgrades to the Participating TO's

electric systems that are not part of the CAISO Controlled Grid.

Distribution Upgrades do not include Interconnection Facilities.

DMM Department of Market Monitoring

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Superseding Second Revised Sheet No. 860

DSHBAOA Dynamic Scheduling Host Balancing Authority Operating Agreement

Dynamic Resource-Specific System Resource A Dynamic System Resource that is a specific generation resource

outside the CAISO Balancing Authority Area.

Dynamic Schedule A telemetered reading or value which is updated in Real-Time and which

is used as an Interchange Schedule in the CAISO Energy Management System calculation of Area Control Error and the integrated value of which is treated as an Interchange Schedule for Interchange accounting

Third Revised Sheet No. 860

purposes.

Appendix B.5.

Dynamic Scheduling Agreement for Scheduling Coordinators An agreement between the CAISO and a Scheduling Coordinator regarding the terms by which a Scheduling Coordinator may submit Dynamic Schedules, a pro forma version of which is set forth in

Dynamic Scheduling Host Balancing Authority Operating Agreement (DSHBAOA) An agreement entered into between the CAISO and a Host Balancing Authority governing the terms of dynamic scheduling between the Host Balancing Authority and the CAISO in accordance with the Dynamic Scheduling Protocol set forth in Appendix X, a pro forma version of which agreement is set forth in Appendix B.9

Dynamic System Resource

A System Resource that has satisfied the CAISO's contractual and operational requirements for submitting a Dynamic Schedule, and for which a Dynamic Schedule has been submitted, including a Dynamic Resource-Specific System Resource.

E&P Agreement Engineering & Procurement Agreement

Economic Bid A Bid that includes quantity (MWh or MW) and price (\$) for specified

Trading Hours.

Economic Planning Study A study performed to provide a preliminary assessment of the potential

cost effectiveness of mitigating specifically identified Congestion.

EEP Electrical Emergency Plan

Effective Economic Bid An Economic Bid that is not an Ineffective Economic Bid.

ELC Process Extremely Long-Start Commitment Process

Electrical Emergency Plan

(EEP)

A plan to be developed by the CAISO in consultation with Utility

Distribution Companies to address situations when Energy reserve

margins are forecast to be below established levels.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Substitute Fourth Revised Sheet No. 861 Superseding Third Revised Sheet No. 861

Electric Facility An electric resource, including a Generating Unit, System Unit, or a

Participating Load.

Eligible Capacity Capacity Capacity of Generating Units, System Units, System Resources, or

Participating Load that is not already under a contract to be a Resource Adequacy Resource, is not under an RMR Contract or is not currently designated as ICPM Capacity that effectively resolves a procurement shortfall or reliability concern and thus is eligible to be designated under

the ICPM in accordance with Section 43.1.

Eligible Customer (i) any utility (including Participating TOs, Market Participants and any

power marketer), Federal power marketing agency, or any person generating Energy for sale or resale; Energy sold or produced by such entity may be Energy produced in the United States, Canada or Mexico; however, such entity is not eligible for transmission service that would be prohibited by Section 212(h)(2) of the Federal Power Act; and (ii) any retail customer taking unbundled transmission service pursuant to a state retail access program or pursuant to a voluntary offer of unbundled

retail transmission service by the Participating TO.

Eligible Intermittent

Resource

A Generating Unit 1 MW or larger subject to a Participating Generator

Agreement or QF PGA that is powered by wind or solar energy, except

for a de minimis amount of Energy from other sources.

ELS Resource Extremely Long-Start Resource

Emissions Cost Demand

The level of Demand specified in Section 11.18.3.

Emissions Cost Invoice

The invoice submitted to the CAISO in accordance with Section 11.18.6.

Emissions Costs

The mitigation fees, excluding capital costs, assessed against a Generating Unit by a state or federal agency, including air quality

districts, for exceeding applicable NOx emission limitations.

Emissions Eligible

Generator

A Generator with a Generating Unit that is a BCR Eligible Resource.

Ems Energy Management System

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 862

Encumbrance A legal restriction or covenant binding on a Participating TO that affects

> the operation of any transmission lines or associated facilities and which the CAISO needs to take into account in exercising Operational Control over such transmission lines or associated facilities if the Participating TO is not to risk incurring significant liability. Encumbrances shall include Existing Contracts and may include: (1) other legal restrictions

or covenants meeting the definition of Encumbrance and arising under other arrangements entered into before the CAISO Operations Date, if any; and (2) legal restrictions or covenants meeting the definition of Encumbrance and arising under a contract or other arrangement

entered into after the CAISO Operations Date.

End-Use Customer or End-User

A consumer of electric power who consumes such power to satisfy a Load directly connected to the CAISO Controlled Grid or to a Distribution System and who does not resell the power.

End-Use Meter A metering device collecting Meter Data with respect to the Energy

consumption of an End-User.

End-Use Meter Data Meter Data that measures the Energy consumption in respect of End-

Users gathered, edited and validated by Scheduling Coordinators and

submitted to the CAISO in Settlement quality form.

Energy The electrical energy produced, flowing or supplied by generation,

> transmission or distribution facilities, being the integral with respect to time of the instantaneous power, measured in units of watt-hours or standard multiples thereof, e.g., 1,000 Wh=1kWh, 1,000 kWh=1MWh,

etc.

Energy Bid A Demand Bid or an Energy Supply Bid.

Energy Bid Cost An amount equal to the integral of the Energy Bid for resources that

have been selected through the IFM or RTM, above PMin.

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FERC ELECTRIC TARIFF

Second Revised Sheet No. 863 Superseding First Revised Sheet No. 863

FOURTH REPLACEMENT VOLUME NO. II

Energy Bid Curve

Energy Export

The Bid component that indicates the prices and related quantity at which a resource offers Energy in a monotonically increasing (decreasing for

Participating Load) staircase function, consisting of no more than 10

segments defined by 11 pairs of MW operating points and \$/MWh, which may be different for each Trading Hour of the applicable Bid time period. If

the resource has Forbidden Operating Regions, each Forbidden Operating

Region must be reflected as a single, separate Energy Bid Curve segment.

For purposes of calculating the Grid Management Charge, Energy included

in an Interchange Schedule submitted to the CAISO, or dispatched by the

CAISO, to serve a load located outside the CAISO's Balancing Authority

Area, whether the Energy is produced by a Generator in the CAISO

Balancing Authority Area or a resource located outside the CAISO

Balancing Authority Area.

Energy Limit The Bid component that indicates the maximum and minimum daily Energy

limits for the Generating Unit. Energy Limit applies to net pumping Demand

and Generation over the Operating Day for a Pumped-Storage Hydro Unit.

A computer control system used by electric utility dispatchers to monitor the real-time performance of the various elements of an electric system and to

control Generation and transmission facilities.

Energy-Only Deliverability Status

Energy Management

System (EMS)

A condition elected by an Interconnection Customer for a Large Generating

Facility interconnected with the CAISO Controlled Grid the result of which is

that the Interconnection Customer is responsible only for the costs of

Reliability Network Upgrades and is not responsible for the costs of Delivery

Network Upgrades, but the Large Generating Facility will be deemed to

have a Net Qualifying Capacity of zero, and, therefore, cannot be

considered to be a Resource Adequacy Resource.

Energy Resource Area (ERA)

A geographic region certified by the California Public Utilities Commission

and the California Energy Commission as an area in which multiple LCRIGs could be located, provided that, for the interim period before those agencies

certify such areas and for LCRIFs that are proposed to connect LCRIGs

located outside the State of California, an Energy Resource Area shall

mean a geographic region that would be connected to the CAISO

Controlled Grid by an LCRIF with respect to which the CAISO Governing

Board determines that all of the requirements of Section 24.1.3 are

satisfied, except for the requirement that the LCRIGs to which the LCRIF

would connect are located in an area certified as an ERA by those

agencies.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 864 Superseding Original Sheet No. 864

Energy Supply Bid

The quantity (MWh) and a price (\$) at or above which a resource has agreed to sell the next increment of Energy for a specified interval of time.

Energy Transmission Services – Net Energy Charge

The component of the Grid Management Charge that provides, in conjunction with the Energy Transmission Services – Uninstructed Deviations Charge, for the recovery of the CAISO's costs of providing reliability on a scalable basis, i.e., a function of the intensity of the use of the transmission system within the Balancing Authority Area and the occurrence of system outages and disruptions. The formula for determining the Energy Transmission Services – Net Energy Charge is set forth in Appendix F, Schedule 1, Part A.

Energy Transmission Services – Uninstructed Deviations Charge The component of the Grid Management Charge that provides, in conjunction with the Energy Transmission Services – Net Energy Charge, for the recovery of the CAISO's costs of providing reliability on a scalable basis, in particular for the costs associated with balancing transmission flows that result from Uninstructed Imbalance Energy. The formula for determining the Energy Transmission Services – Uninstructed Deviations Charge is set forth in Appendix F, Schedule 1, Part A.

Engineering & Procurement (E&P) Agreement

An agreement that authorizes the Participating TO to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection in order to advance the implementation of the Interconnection Request.

Entitlements

The right of a Participating TO obtained through contract or other means to use another entity's transmission facilities for the transmission of Energy.

Environmental Dispatch

Dispatch designed to meet the requirements of air quality and other environmental legislation and environmental agencies having authority or jurisdiction over the CAISO.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: February 20, 2008 Effective:

FERC ELECTRIC TARIFF

Superseding Second Revised Sheet No. 865

Third Revised Sheet No. 865

FOURTH REPLACEMENT VOLUME NO. II

ERA Energy Resource Area

Estimated Aggregate

Liability

The sum of a Market Participant's or CRR Holder's known and reasonably estimated potential liabilities for a specified time period arising from charges described in the CAISO Tariff, as provided for in

Section 12.

Estimated RMR Invoice The monthly invoice issued by the RMR Owner to the CAISO for

estimated RMR Payments or RMR Refunds pursuant to the RMR

Contract.

E-Tag An electronic tag associated with an Interchange schedule in

accordance with the requirements of WECC.

ETC Existing Transmission Contract

ETC Self-Schedule A Self-Schedule submitted by a Scheduling Coordinator pursuant to

Existing Rights as reflected in the TRTC Instructions.

Exceptional Dispatch A Dispatch Instruction issued for the purposes specified in Section 34.9.

Energy from Exceptional Dispatches shall not set any Dispatch Interval

LMP.

Exceptional Dispatch

Energy

Extra-marginal IIE, exclusive of Standard Ramping Energy, Ramping Energy Deviation, Residual Imbalance Energy, MSS Load Following

Energy, Real-Time Minimum Load Energy, and Derate Energy,

produced or consumed due to Exceptional Dispatch Instructions that are binding in the relevant Dispatch Interval. Without MSS Load following, Exceptional Dispatch Energy is produced above the LMP index and below the lower of the Dispatch Operating Point or the Exceptional Dispatch Instruction, or consumed below the LMP index and above the higher of the Dispatch Operating Point or the Exceptional Dispatch Instruction. The LMP index is the capacity in the relevant Energy Bid that corresponds to a Bid price equal to the relevant LMP. Exceptional Dispatch Energy does not overlap with Standard Ramping Energy,

Ramping Energy Deviation, Residual Imbalance Energy, Real-Time Minimum Load Energy, Derate Energy, or Optimal Energy, but it may overlap with Day-Ahead Scheduled Energy, HASP Scheduled Energy, and MSS Load Following Energy. Exceptional Dispatch Energy is settled as described in Section 11.5.6, and it is not included in BCR as

described in Section 11.8.4.

Exceptional Dispatch ICPM

An Exceptional Dispatch ICPM under Section 43.1.5 with a term of 30

days.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Issued on: March 23, 2009 Effective: March 31, 2009

FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 866 Superseding Original Sheet No. 866

Exceptional Dispatch Instruction	A Dispatch Instruction issued pursuant to Exceptional Dispatch.
Excess Cost Payments	The payments made by the CAISO for costs associated with Exceptional
	Dispatches for 1) emergency conditions, to avoid Market Interruption
	and avoid an imminent System Emergency as provided in Section
	11.5.6.1.1; 2) transmission-related modeling limitations as provided in
	Section 11.5.6.2.3; 3) Condition 2 RMR Units as provided in Section
	11.5.6.3.2; and 4) emergency Energy as provided in Section 11.5.8.1.1.
Existing Contract Import	The quantity of Available Import Capability reserved for Existing
Capability	Contracts and Transmission Ownership Rights held by Load Serving
	Entities that serve Load within the CAISO Balancing Authority Area
	under Step 3 of Section 40.4.6.2.
Existing High Voltage	A High Voltage Transmission Facility of a Participating TO that was
Facility	placed in service on or before the TAC Transition Date described in
	Section 4.2 of Schedule 3 of Appendix F.
Existing QF Contract	An agreement for the sale of capacity, Energy, and/or Ancillary Services
	by a Participating Generator to an electric utility from a Qualifying
	Facility that became effective on or prior to December 20, 1995 or, in the
	case of a Participating Generator employing landfill gas technology, on
	or prior to December 31, 1996.
Existing Rights	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.
Existing Transmission	The contracts which grant transmission service rights in existence on the
Contracts (ETC) or Existing Contracts	CAISO Operations Date (including any contracts entered into pursuant
Existing Contracts	to such contracts) as may be amended in accordance with their terms or
	by agreement between the parties thereto from time to time.
Existing Zone	A region formerly referred to as NP15, SP15, or ZP26 prior to
	implementation of the CAISO LMP market design.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist Issued on: May 19, 2008

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 867 Superseding First Revised Sheet No. 867

Existing Zone Generation Trading Hub

Trading Hubs specifically developed to represent the average price paid

to generation resources within Existing Zones.

Expanded System Region

The System Region and Intertie Scheduling Points with interconnected

Balancing Authority Areas.

Expected Congestion Revenue

The mean value based on the probability distribution of the historic

Congestion revenue of a CRR.

Expected Energy

The total Energy that is expected to be generated or consumed by a resource, based on the Dispatch of that resource, as calculated by the Real-Time Market (RTM), and as finally modified by any applicable Dispatch Operating Point corrections. Expected Energy includes the Energy scheduled in the IFM, and it is calculated the applicable Trading Day. Expected Energy is calculated for Generating Units, System Resources, Resource-Specific System Resources, and Participating Loads. The calculation is based on the Day-Ahead Schedule and the Dispatch Operating Point trajectory for the three-hour period around the

target Trading Hour (including the previous and following hours), the applicable Real-Time LMP for each Dispatch Interval of the target Trading Hour, and any Exceptional Dispatch Instructions. Energy from

Non-Dynamic System Resources is converted into HASP Intertie Schedules. Expected Energy is used as the basis for Settlements. A Demand Bid submitted to a CAISO Market at a Scheduling Point.

A Participating Intermittent Resource with a PIR Export Percentage

greater than zero (0).

Extremely Long-Start Commitment Process (ELC Process)

Exporting Participating

Intermittent Resource

Export Bid

The CAISO process for Unit Commitment for Extremely Long-Start Resources, as set forth in Section 31.7.

Extremely Long-Start Resource (ELS Resource)

A Generating Unit that has a Start-Up Time greater than 18 hours or a System Resource that is either: 1) a non-Resource-Specific System Resource with contractual limitations that require the Energy be transacted (i.e., committed) prior to the publishing time of the Day-Ahead Market results (1300 hours on the day before the Trading Day) or 2) a Resource-Specific System Resource that has a Start-Up Time greater than 18 hours.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 868

An engineering study conducted by a Participating TO to determine **Facility Study**

> required modifications to the Participating TO's transmission system, including the cost and scheduled completion date for such modifications

that will be required to provide needed services.

Facility Study Agreement An agreement between a Participating TO and either a Market

> Participant, Project Sponsor, or identified principal beneficiaries pursuant to which the Market Participants, Project Sponsor, and

identified principal beneficiaries agree to reimburse the Participating TO

for the cost of a Facility Study.

Facility Trust Account For each RMR Contract, the account established and operated by the

CAISO to and from which all payments under Section 11.13 shall be

made. Each Facility Trust Account will have two segregated commercial

bank accounts, an RMR Owner Facility Trust Account and a

Responsible Utility Facility Trust Account.

Fast Start Unit A Generating Unit that has a Start-Up Time less than two hours and can

be committed in the RTUC and STUC.

Feasibility Index A test used to evaluate whether a supplier or set of suppliers is pivotal in

relieving congestion on a transmission path for the purposes of

determining if a path is deemed to be competitive.

Fed-Wire The Federal Reserve Transfer System for electronic funds transfer.

FERC The Federal Energy Regulatory Commission or its successor.

FERC Annual Charge

Recovery Rate

The rate to be paid by Scheduling Coordinators for recovery of FERC Annual Charges assessed against the CAISO for transactions on the

CAISO Controlled Grid.

FERC Annual Charges Those charges assessed against a public utility by the FERC pursuant

to 18 C.F.R. § 382.201 and any related statutes or regulations, as they

may be amended from time to time.

FERC Annual Charge

Trust Account

An account to be established by the CAISO for the purpose of

maintaining funds collected from Scheduling Coordinators for FERC

Annual Charges and disbursing such funds to the FERC.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Effective: March 31, 2008

Issued on: December 21, 2007

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 869

Superseding Original Sheet No. 869

Fifth Percentile Congestion Revenue

The fifth percentile value based on the probability distribution of the

historic Congestion revenue of a CRR.

Final Approval A statement of consent by the CAISO Control Center to initiate a

scheduled Outage.

Final Invoice The invoice due from a RMR Owner to the CAISO at termination of the

RMR Contract.

Final NERC/WECC Charge

Invoice

A final invoice issued by the CAISO that reflects an allocation of

NERC/WECC Charges to a Scheduling Coordinator based on the Final NERC/WECC Charge Rate for the NERC/WECC Charge Assessment

Year.

Final NERC/WECC Charge

Rate

The rate to be paid by Scheduling Coordinators for NERC/WECC

Charges based on the WECC invoice to the CAISO for NERC/WECC Charges for a given year and on the NERC/WECC Metered Demand for

the NERC/WECC Charge Assessment Year.

Financial Security Any of the types of financial instruments listed in Section 12 that are

posted by a Market Participant, CRR Holder or Candidate CRR Holder.

Financial Security Amount The level of Financial Security posted in accordance with Section 12 by

a Market Participant, Candidate CRR Holder or CRR Holder.

Firm Liquidated Damages

Contract

A contract utilizing or consistent with Service Schedule C of the Western

Systems Power Pool Agreement or the Firm Liquidated Damages product of the Edison Electric Institute pro forma agreement, or any other similar firm Energy contract that does not require the seller to source the Energy from a particular unit, and specifies a delivery point

internal to the CAISO Balancing Authority Area.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

FERC ELECTRIC TARIFF

Superseding First Revised Sheet No. 870

Second Revised Sheet No. 870

FOURTH REPLACEMENT VOLUME NO. II

Fixed CRRs Congestion Revenue Rights that are used in the running of an SFT to

> represent known encumbrances on the transmission system and which may include some or all of the following: previously allocated or awarded

Monthly CRRs, Seasonal CRRs, Long Term CRRs, and Merchant Transmission CRRs, Existing Transmission Contracts, and Converted

Rights.

FNM Full Network Model

Forbidden Operating

Region

A pair of lower and higher operating levels between which a resource cannot operate stably. The Forbidden Operating Regions lie between a resource's Minimum Operating Limit and Maximum Operating Limit and

Forced Outage An Outage for which sufficient notice cannot be given to allow the

Outage to be factored into the Day-Ahead Market, HASP or RTM

bidding processes.

cannot overlap.

Forecast Fee The charge imposed on an Eligible Intermittent Resource pursuant to

the terms of Appendix F, Schedule 4.

Forward Scheduling

Charge

The component of the Grid Management Charge that provides for the recovery of the CAISO's costs, including, but not limited to the costs of providing the ability to Scheduling Coordinators to submit a Bid for Energy and Ancillary Services and the cost of processing accepted Ancillary Services Bids. The formula for determining the Forward Scheduling Charge is set forth in Appendix F, Schedule 1, Part A.

Issued by: Nancy Saracino, Vice President, General Counsel and Corporate Secretary

Issued on: November 25, 2009 Effective: February 1, 2010

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 871 Superseding First Revised Sheet No. 871

FPA Parts II and III of the Federal Power Act, 16 U.S.C. § 824 et seq., as

they may be amended from time to time.

Frequently Mitigated Unit A Generating Unit that is eligible for a Bid Adder pursuant to Section

39.8.

Full Capacity Deliverability Status The condition whereby a Large Generating Facility interconnected with the CAISO Controlled Grid, under coincident CAISO Balancing Authority

Area peak Demand and a variety of severely stressed system

conditions, can deliver the Large Generating Facility's full output to the aggregate of Load on the CAISO Controlled Grid, consistent with the CAISO's Reliability Criteria and procedures and the CAISO On-Peak

Deliverability Assessment.

Full Network Model (FNM) A computer-based model that includes all CAISO Balancing Authority

Area transmission network (Load and Generating Unit) busses, transmission Constraints, and Intertie busses between the CAISO

Balancing Authority Area and interconnected Balancing Authority Areas.

The FNM models the transmission facilities internal to the CAISO

Balancing Authority Area as elements of a looped network and models

the CAISO Balancing Authority Area Interties with interconnected Balancing Authority Areas in a radial fashion as specified in Section

27.5.

GADS Generating Availability Data System

GDF Generation Distribution Factor

Generated Bid A post-market Clean Bid generated by the CAISO in accordance with

the provisions of Section 40 or other applicable provisions of the CAISO Tariff when a Bid is not submitted by the Scheduling Coordinator and is required for a resource adequacy requirement, an Ancillary Services

Award, a RUC Award or a Day-Ahead Schedule.

Generation Energy delivered from a Generating Unit.

Generation Distribution

Factor (GDF)

The Bid template component that indicates the proportions of how the

Bid is distributed for the resources participating in Physical Scheduling

Plants or System Units.

Generating Facility An Interconnection Customer's Generating Unit(s) used for the

production of electricity identified in the Interconnection Request, but shall not include the Interconnection Customer's Interconnection

Facilities.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 872

Generating Facility Capacity

The net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple energy production devices.

Generating Unit

An individual electric generator and its associated plant and apparatus whose electrical output is capable of being separately identified and metered or a Physical Scheduling Plant that, in either case, is:

- (a) located within the CAISO Balancing Authority Area;
- (b) connected to the CAISO Controlled Grid, either directly or via interconnected transmission, or distribution facilities; and
- (c) that is capable of producing and delivering net Energy (Energy in excess of a generating station's internal power requirements).

Generator

The seller of Energy or Ancillary Services produced by a Generating Unit.

GMC

Grid Management Charge

Good Utility Practice

Any of the practices, methods, and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods, and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety, and expedition. Good Utility Practice is not intended to be limited to any one of a number of the optimum practices, methods, or acts to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region, including those practices required by Federal Power Act section 215(a)(4).

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

Second Revised Sheet No. 873 Superseding First Revised Sheet No. 873

Grid Management Charge (GMC)

FOURTH REPLACEMENT VOLUME NO. II

The CAISO monthly charge on all Scheduling Coordinators that provides for the recovery of the CAISO's costs listed in Section 11.22.2 through the service charges described in Section 11.22.2.5 calculated in accordance with the formula rate set forth in Appendix F, Schedule 1, Part A. The charges that comprise the Grid Management Charge consist of: 1) the Core Reliability Services – Demand Charge, 2) the Core Reliability Services – Energy Exports Charge, 3) the Energy Transmission Services – Net Energy Charge, 4) the Energy Transmission Services – Uninstructed Deviations Charge, 5) the Core Reliability Services/Energy Transmission Services – Transmission Ownership Rights Charge, 6) the Forward Scheduling Charge, 7) the Market Usage Charge, and 8) the Settlements, Metering, and Client Relations Charge.

Gross Load

For the purposes of calculating the transmission Access Charge, Gross Load is all Energy (adjusted for distribution losses) delivered for the supply of End-Use Customer Loads directly connected to the transmission facilities or directly connected to the Distribution System of a Utility Distribution Company or MSS Operator located in a PTO Service Territory. Gross Load shall exclude (1) Load with respect to which the Wheeling Access Charge is payable, (2) Load that is exempt from the Access Charge pursuant to Section 4.1, Appendix I, and the portion of the Load of an individual retail customer of a Utility Distribution Company, Small Utility Distribution Company or MSS Operator that is served by a Generating Unit that: (a) is located on the customer's site or provides service to the customers site through arrangements as authorized by Section 218 of the California Public Utilities Code; (b) is a qualifying small power production facility or qualifying cogeneration facility, as those terms are defined in the FERC's regulations implementing Section 201 of the Public Utility Regulatory Policies Act of 1978; and (c) secures Standby Service from a Participating TO under terms approved by a Local Regulatory Authority or FERC, as applicable, or can be curtailed concurrently with an Outage of the Generating Unit serving the Load. Gross Load forecasts consistent with filed Transmission Revenue Requirements will be provided by each Participating TO to the CAISO.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 874 Superseding First Revised Sheet No. 874

Group Study The process whereby more than one Interconnection Request is studied

together, instead of individually, for the purpose of conducting one or

more of the Interconnection Studies or analyses therein.

HASP Hour-Ahead Scheduling Process

HASP Advisory Schedule The non-binding output of the HASP as it pertains to the Real-Time

Market.

HASP and RTM Congestion Credit

A credit provided to Scheduling Coordinators to offset any HASP and RTM Congestions Charges that would otherwise be applied to the valid and balanced portions of any ETC or TOR Self-Schedules in the HASP

and the Real-Time Market as provided in Section 11.5.7.

HASP AS Award

Awards for imports of Ancillary Services established through the HASP.

A Bid received in HASP that can be used in the MPM-RRD conducted in

HASP, the RTUC, STUC, or the RTD.

HASP Inter-SC Trade

Period

The period commencing at midnight (0000 hours) on the applicable Trading Day and ending at forty-five (45) minutes prior to the start of the applicable Operating Hour, during which time the CAISO will accept from Scheduling Coordinators Inter-SC Trades of Energy for the HASP, Inter-SC Trades of Ancillary Services, and Inter-SC Trades of IFM Load

Uplift Obligations.

HASP Intertie LMP

The average of four (4) 15-minute interval LMPs at Intertie Scheduling

Points over a Trading Hour.

HASP Intertie Schedule The binding output of the HASP including accepted Bids for imported

Energy or Ancillary Services and associated LMPs and ASMPs.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

First Revised Sheet No. 875 Superseding Original Sheet No. 875

HASP Scheduled Energy

FOURTH REPLACEMENT VOLUME NO. II

IIE from a Non-Dynamic System Resource, exclusive of Real-Time Pumping Energy and Real-Time Minimum Load Energy, produced or consumed due to hourly scheduling in the HASP. HASP Scheduled Energy is produced above the higher of the Day-Ahead Schedule or the Minimum Load, and below the HASP Intertie Schedule, or consumed below the Day-Ahead Schedule and above the HASP Intertie Schedule. In the latter case, HASP Scheduled Energy overlaps with Day-Ahead Scheduled Energy; HASP Scheduled Energy does not overlap with Real-Time Pumping Energy or Real-Time Minimum Load Energy, but it may overlap with other IIE subtypes. HASP Scheduled Energy is indexed against the relevant Energy Bid and sliced by service type, depending on the Ancillary Services capacity allocation on the Energy Bid, and by Energy Bid price. HASP Scheduled Energy slices are settled as described in Section 11.4, and they are included in BCR as reflected in Section 11.8.4; provided that if any HASP Scheduled Energy slice below or above the Energy Bid has no associated Energy Bid price, it is not included in BCR as described in Section 11.8.4. For Non-Dynamic System Resources that are designated as MSS Load following resources, HASP Scheduled Energy is considered as MSS Load Following Energy.

Henry Hub

The pricing point for natural gas futures contracts traded on the New York Mercantile Exchange (NYMEX).

High Priority Economic Planning Study

An Economic Planning Study performed by the CAISO for inclusion in the Transmission Plan and for which the CAISO assumes cost responsibility.

High Voltage Access Charge (HVAC)

The Access Charge applicable under Section 26.1 to recover the High Voltage Transmission Revenue Requirements of each Participating TO in a Transmission Access Charge Area.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist

Issued on: May 19, 2008

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

First Revised Sheet No. 876 Superseding Original Sheet No. 876

High Voltage Transmission Facility

FOURTH REPLACEMENT VOLUME NO. II

A transmission facility that is owned by a Participating TO or to which a Participating TO has an Entitlement that is represented by a Converted Right, that is under the CAISO Operational Control, and that operates at a voltage at or above 200 kilovolts, and supporting facilities, and the costs of which are not directly assigned to one or more specific customers, provided that the High Voltage Transmission Facilities of a Participating TO shall include any Location Constrained Resource Interconnection Facility of that Participating TO that has been turned over to the CAISO's Operational Control.

High Voltage Transmission Revenue Requirement (HVTRR) The portion of a Participating TO's Transmission Revenue Requirement associated with and allocable to the Participating TO's High Voltage Transmission Facilities and Converted Rights associated with High Voltage Transmission Facilities that are under the CAISO Operational Control.

High Voltage Utility Specific Rate A Participating TO's High Voltage Transmission Revenue Requirement divided by such Participating TO's forecasted Gross Load.

High Voltage Wheeling Access Charge

The Wheeling Access Charge associated with the recovery of a Participating TO's High Voltage Transmission Revenue Requirements in accordance with Section 26.1.

Historical Expected Value

The expected value of a CRR, as calculated by the CAISO, based on monthly historical market operation data for the applicable month. Such values will be established based on at least one (1) year and up to three (3) years of historical market operations data.

Host Balancing Authority Host Balancing Authority Area

The Balancing Authority Area in which a System Resource subject to this CAISO Tariff is connected to the electric grid. The Host Balancing Authority Area may, or may not, be directly interconnected with the

The Balancing Authority for a Host Balancing Authority Area.

CAISO Balancing Authority Area.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 877 Superseding First Revised Sheet No. 877

Hour-Ahead Scheduling Process (HASP)

The process conducted by the CAISO beginning at seventy-five minutes prior to the Trading Hour through which the CAISO conducts the following activities: 1) accepts Bids for Supply of Energy, including imports, exports and Ancillary Services imports to be supplied during the next Trading Hour that apply to the MPM-RRD, RTUC, STUC, and RTD; 2) conducts the MPM-RRD on the Bids that apply to the RTUC, STUC,

Energy and Ancillary Services.

Hourly Demand The average of the instantaneous Demand integrated over a single

clock hour, in MWh.

Hourly Real-Time LAP

Price

The load deviation weighted average of the hourly average of the

and RTD; and 3) conducts the RTUC for the hourly pre-dispatch of

Dispatch Interval LMPs for the LAP in the relevant Trading Hour used for

the settlement of UIE.

HVAC High Voltage Access Charge

HVTRR High Voltage Transmission Revenue Requirement

Hydro Spill Generation Hydro-electric Generation in existence prior to the CAISO Operations

Date that: i) has no storage capacity and that, if backed down, would spill; ii) has exceeded its storage capacity and is spilling even though the

generators are at full output; iii) has inadequate storage capacity to prevent loss of hydro-electric Energy either immediately or during the forecast period, if hydro-electric Generation is reduced; or iv) has increased regulated water output to avoid an impending spill.

IBAA Integrated Balancing Authority Area

IBAAOA Interconnected Balancing Authority Area Operating Agreement

ICAOA Interconnected Control Area Operating Agreement

ICPM Interim Capacity Procurement Mechanism

ICPM Availability Factor A factor as set forth in Appendix F, Schedule 6 that is used in calculating

a resource's monthly ICPM Capacity Payment.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 877A

ICPM Capacity Capacity of Generating Units, System Units, System Resources, or

Participating Load that is designated under the ICPM in accordance with

Section 43 during the term of the designation.

ICPM Capacity Payment The payment provided pursuant to Section 43.6.

ICPM Significant Event A substantial event, or a combination of events, that is determined by

the CAISO to either result in a material difference from what was

assumed in the resource adequacy program for purposes of determining the Resource Adequacy Capacity requirements, or produce a material change in system conditions or in CAISO Controlled Grid operations, that causes, or threatens to cause, a failure to meet Reliability Criteria absent the recurring use of a non-Resource Adequacy Resource(s) on a

prospective basis.

Identification Code An identification number assigned to each Scheduling Coordinator by

the CAISO.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: February 8, 2008

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

IFM **Integrated Forward Market**

IFM Bid Cost The sum of a BCR Eligible Resource's IFM Start-Up Cost, IFM Minimum

Load Cost, IFM Pump Shut-Down Cost, IFM Pumping Cost, IFM Energy

Original Sheet No. 878

Bid Cost, and IFM AS Bid Cost.

IFM Bid Cost Shortfall For each Settlement Interval, for any BCR Eligible Resource, the

positive amount resulting from the difference between the IFM Bid Cost

and the IFM Market Revenue.

IFM Bid Cost Surplus For each Settlement Interval, for any BCR Eligible Resource, the

negative amount resulting from the difference between the IFM Bid Cost

and the IFM Market Revenue.

IFM Bid Cost Uplift The system-wide net of the IFM Bid Cost Shortfalls and IFM Bid Cost

> Surpluses for a Settlement Interval of all BCR Eligible Resources with Unrecovered Bid Cost Uplift Payments. This amount will be netted according to Section 11.8.6.2 to calculate the Net IFM Bid Cost Uplift

before allocation to Scheduling Coordinators.

IFM Commitment Period A Commitment Period determined by the IFM.

IFM Congestion Charge The Congestion Charge calculated by the CAISO for each Settlement

Period of the IFM as the IFM MCC for Demand minus the IFM MCC for

Supply.

IFM Congestion Credit A credit provided to Scheduling Coordinators to offset any IFM

> Congestions Charges that would otherwise be applied to the valid and balanced portions of any ETC, TOR or Converted Rights Self-Schedule

in the IFM as provided in Section 11.2.1.5.

IFM Congestion Fund The funds the CAISO shall have available in each Settlement Period

> from which the CAISO will pay CRR Holders for the CRR(s) they hold in any Settlement Period, which shall determined as provided in Section

11.2.4.1.2.

IFM Load Uplift Obligation The obligation of a Scheduling Coordinator to pay its share of

unrecovered IFM Bid Costs paid to resources through Bid Cost

Recovery.

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Issued on: December 21, 2007

IFM Marginal Cost of Losses Credit for Eligible TOR Self-Schedules

FOURTH REPLACEMENT VOLUME NO. II

A credit provided to Scheduling Coordinators pursuant to Section 17.3.3 to offset any IFM Marginal Cost of Losses that would otherwise be applied to the valid and balanced portions of any TOR Self-Schedule in the IFM as provided in Section 11.2.1.5.

IFM Marginal Losses Surplus

For each Settlement Period of the IFM, the IFM Marginal Losses Surplus is the difference between: (1) the Net Hourly Energy Charge; and (2) the total IFM Congestion Charges which do not include IFM Congestion Credits collected by the CAISO as specified in Section 11.2.1.5.

IFM Marginal Losses Surplus Credit The amount of money distributed to Scheduling Coordinators in the allocation of IFM Marginal Losses Surplus in proportion to Scheduling Coordinator's Measured Demand in accordance with Section 11.2.1.6. The amount received by BCR Eligible Resource from Energy scheduled

IFM Market Revenue

The amount received by BCR Eligible Resource from Energy scheduled and Ancillary Services awarded in the IFM for the purposes of Bid Cost Recovery, as calculated pursuant to Section 11.8.2.2.

IFM MSS Price

Either (1) The IFM LAP price for the MSS when the MSS scheduled internal Demand exceeds the MSS scheduled internal Supply; or (2) the weighted average of the IFM LMPs for all applicable PNodes within the relevant MSS when MSS scheduled internal Supply exceeds MSS scheduled internal Demand where weighting factors for computing the weighted average are based on the scheduled Supply at the corresponding PNodes.

IFM Pumping Bid Cost

For the applicable Settlement Interval, the Pumping Cost submitted to the CAISO in the IFM divided by the number of Settlement Intervals in a Trading Hour as further provided in Section 11.8.2.1.4.

IFM Self-Commitment Period

A Time Period determined by the CAISO pursuant to the rules in Section 11.8.1.1 for the purposes of deriving any Bid Cost Recovery amounts, related to the IFM.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. I Substitute Second Revised Sheet No. 880 Superseding First Revised Sheet No. 880

IIE Instructed Imbalance Energy

IIE Settlement Amount The payment due a Scheduling Coordinator for positive Instructed

Imbalance Energy or the charge assessed on a Scheduling Coordinator for negative Instructed Imbalance Energy, as calculated pursuant to

Section 11.5.1.

Imbalance Energy The deviation of Supply or Demand from Day-Ahead Schedule, positive

or negative, as measured by metered Generation, metered Load, or

Real-Time Interchange Schedules.

Import Bid A Supply Bid submitted to a CAISO Market at a Scheduling Point.

Import Capability Load

Share

A Load Serving Entity's proportionate share of the forecasted Resource

Adequacy Compliance Year coincident peak Demand for the CAISO Balancing Authority Area relative to the total coincident peak Demand for the CAISO Balancing Authority Area as determined by the California

Energy Commission.

Import Capability Load

Share Ratio

A Load Serving Entity's Import Capability Load Share divided by the sum of the Import Capability Load Shares of all Load Serving Entities

with unfulfilled requests for Available Import Capability on a particular

Intertie.

Import Capability Transfer

Registration Process

The electronic means by which Load Serving Entities and Market

Participants must register with the CAISO any bilateral transfers of

Existing Contract Import Capability, Pre-RA Import Commitment

Capability, or Remaining Import Capability.

Incremental Change The change in dollar value of a specific Charge Code from the Initial

Settlement Statement T+7B to a subsequent Recalculation Settlement

Statement including any new Charge Codes or Trading Day charges

appearing for the first time on a Settlement Statement.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Issued on: June 4, 2009 Effective: November 1, 2009

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. I

Substitute Fourth Revised Sheet No. 881 Superseding Third Revised Sheet No. 881

Independent Entity The entity, not affiliated with the CAISO or any Market Participant, that

assists the CAISO in the determination of reference prices.

Independent System Operator (ISO)

See California Independent System Operator Corporation.

Ineffective Economic Bid An Economic Bid that is not accepted in a CAISO market because its

impact on the value of the CAISO Markets objectives, as specified in Section 31.3 and 34.5, would exceed the impact of adjusting a Non-

priced Quantity. The CAISO maintains in the Business Practice Manuals

the current values of the scheduling parameters that specify the

thresholds, including the provisions of Section 27.4.3.1, whereby the market software determines whether to adjust a Non-priced Quantity

rather than accept Economic Bids.

Initial Settlement A Settlement Statement generated by the CAISO for the calculation of Statement T+7B

Settlements for a given Trading Day, which is published on the seventh Business Day from the relevant Trading Day (T+7B) and is prior to the

Invoice or Payment Advice published for the relevant bill period.

In-Service Date

The date upon which the Interconnection Customer reasonably expects

it will be ready to begin use of the Participating TO Interconnection

Facilities to obtain back feed power.

Instructed Imbalance

Energy (IIE)

The portion of Imbalance Energy resulting from Dispatch Instructions

and HASP Intertie Schedules.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 881A Superseding Original Sheet No. 881A

Integrated Balancing Authority Area (IBAA) A Balancing Authority Area as provided in Section 27.5.3 that has been determined to have one or more direct interconnections with the CAISO Balancing Authority Area, such that power flows within the IBAA significantly affect power flows within the CAISO Balancing Authority Area, and whose network topology is therefore modeled in further detail in the CAISO's Full Network Model beyond the simple radial modeling of interconnections between the IBAA and the CAISO Balancing Authority

Area.

Integrated Forward Market

(IFM)

The pricing run conducted by the CAISO using SCUC in the Day-Ahead Market, after the MPM-RRD process, which includes Unit Commitment, Ancillary Service procurement, Congestion Management and Energy

procurement based on Supply and Demand Bids.

Interchange Imports and exports between the CAISO Balancing Authority Area and

other Balancing Authority Areas.

Interchange Schedule A final agreed-upon schedule of Energy to be transferred between the

CAISO Balancing Authority Area and another Balancing Authority Area.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Interconnected Balancing Authority Area Operating Agreement (IBAAOA) An agreement entered into between the CAISO and a Balancing Authority of a Balancing Authority Area interconnected to the CAISO Balancing Authority Area to govern operation of their interconnected electric systems.

Interconnected Control Area Operating Agreement (ICAOA) An agreement entered into between the CAISO and a Balancing Authority of a Balancing Authority Area interconnected to the CAISO Balancing Authority Area to govern operation of their interconnected electric systems, a pro forma version of which has been accepted by FERC as a CAISO rate schedule in 87 FERC ¶ 61,231 (1999).

Interconnection

Transmission facilities, other than additions or replacements to existing facilities that: i) connect one system to another system where the facilities emerge from one and only one substation of the two systems and are functionally separate from the CAISO Controlled Grid facilities such that the facilities are, or can be, operated and planned as a single facility; or ii) are identified as radial transmission lines pursuant to contract; or iii) produce Generation at a single point on the CAISO Controlled Grid; provided that such interconnection does not include facilities that, if not owned by the Participating TO, would result in a reduction in the CAISO's Operational Control of the Participating TO's portion of the CAISO Controlled Grid.

Interconnection Agreement

A contract between a party requesting interconnection and the Participating TO that owns the transmission facility with which the requesting party wishes to interconnect.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II Sur

First Revised Sheet No. 882A Superseding Original Sheet No. 882A

Interconnection Base Case Data

Data including, but not limited to, base power flow, short circuit and stability databases, underlying Load, Generation, and transmission facility assumptions, Contingency lists and automated contingency files, including relevant Remedial Action Schemes, Operating Procedures, per unit costs, and transmission diagrams used to perform Phase I Interconnection Studies and Phase II Interconnection Studies. Interconnection Base Case Data may include Critical Energy Infrastructure Information (as that term is defined by FERC). The Interconnection Base Case Data shall include transmission facilities approved by the CAISO under Section 24 and Network Upgrades associated with Generation Facilities in (iv) below and Generating Facilities that (i) are directly interconnected to the CAISO Controlled Grid; (ii) are interconnected to Affected Systems and may have an impact on the Interconnection Request; (iii) have a pending request to interconnect to an Affected System; or (iv) are not interconnected to the CAISO Controlled Grid, but are subject to a fully executed LGIA (or its equivalent predecessor agreement)_or for which an unexecuted LGIA (or its equivalent predecessor agreement) has been requested to be filed with FERC. To the maximum extent practicable, the Interconnection Base Case Data shall utilize the Unified Planning Assumptions developed pursuant to Section 24.2.4.

Interconnection Customer

Any entity, including a Participating TO or any of its Affiliates or subsidiaries, that proposes to interconnect its Generating Facility with the CAISO Controlled Grid.

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Issued on: November 25, 2008 Effective: February 28, 2009

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 883 Superseding Original Sheet No. 883

Interconnection
Customer's
Interconnection Facilities

All facilities and equipment, as identified in Appendix A of the Large Generator Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the CAISO Controlled Grid. Interconnection Customer's Interconnection Facilities are sole use facilities.

Interconnection Facilities

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

Interconnection Facilities Study

A study conducted by the Participating TO(s), CAISO, or a third party consultant for the Interconnection Customer to determine a list of facilities (including the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades), the cost of those facilities, and the time required to interconnect the Generating Facility with the CAISO Controlled Grid. The scope of the study is defined in Section 8 of the Standard Large Generator Interconnection Procedures.

Interconnection Facilities Study Agreement

The form of agreement accepted by FERC and posted on the CAISO Website for conducting the Interconnection Facilities Study.

Interconnection Feasibility Study

A preliminary evaluation conducted by the Participating TO(s), CAISO, or a third party consultant for the Interconnection Customer of the system impact and cost of interconnecting the Generating Facility to the CAISO Controlled Grid, the scope of which is described in Section 6 of the Standard Large Generator Interconnection Procedures.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist

Issued on: July 28, 2008

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 884 Superseding Original Sheet No. 884

Interconnection Feasibility Study Agreement

The form of agreement accepted by FERC and posted on the CAISO Website for conducting the Interconnection Feasibility Study.

Interconnection Financial Security

Any of the financial instruments listed in LGIP Section 9.1 set forth in

Appendix Y that are posted by an Interconnection Customer.

Interconnection Handbook

A handbook, developed by the Participating TO and posted on the

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

Interconnection Request

An Interconnection Customer's request, in the form of Appendix 1 to the Large Generator Interconnection Procedures or Attachment 2 to the Small Generator Interconnection Procedures, in accordance with Section 25.1.

Interconnection Service

The service provided by the Participating TO and CAISO associated with interconnecting the Interconnection Customer's Generating Facility to the CAISO Controlled Grid and enabling it to receive electric Energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of the Large Generator Interconnection Agreement, the Participating TO's TO Tariff, and the CAISO Tariff.

Interconnection Study

Any of the following studies: the Interconnection Feasibility Study, the Interconnection System Impact Study, and the Interconnection Facilities Study described in the Standard Large Generator Interconnection Procedures set forth in Appendix U or the Phase I Interconnection Study and the Phase II Interconnection Study described in the LGIP set forth in Appendix Y.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 884A

Interconnection Study Cycle

All requirements, actions, and respective obligations of the CAISO, Participating TO, and Interconnection Customer under the LGIP set forth in Appendix Y applicable to an Interconnection Request submitted in a particular Queue Cluster Window through execution by the parties or submission to FERC by one or more of the parties of an LGIA.

Interconnection Study Deposit

The cash deposit provided to the CAISO by Interconnection Customers under LGIP Section 3.5.1 set forth in Appendix Y as a requirement of a valid Interconnection Request to be used to offset the cost of the Interconnection Studies as set forth in LGIP Sections 3.5.1.2 and 3.5.1.3 set forth in Appendix Y.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist

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Second Revised Sheet No. 885

Interconnection System Impact Study

FOURTH REPLACEMENT VOLUME NO. II

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

Interconnection System Impact Study Agreement

Interest

The form of agreement accepted by FERC and posted on the CAISO Website for conducting the Interconnection System Impact Study. Interest shall be calculated in accordance with the methodology specified for interest on refunds in the regulations of FERC at 18 C.F.R. §35.19a(a)(2)(iii) (1996). Interest on delinquent amounts shall be calculated from the due date of the bill to the date of payment, except as provided in Section 11.29.13.1. When payments are made by mail, bills shall be considered as having been paid on the date of receipt.

Interim Black Start Agreement

An agreement entered into between the CAISO and a Participating Generator (other than a Reliability Must-Run Contract) for the provision by the Participating Generator of Black Start capability and Black Start Energy on an interim basis until the introduction by the CAISO of its Black Start auction (or until terminated earlier by either party in accordance with its terms).

Interim Capacity
Procurement Mechanism
(ICPM)
Intermediary Balancing
Authority

The Interim Capacity Procurement Mechanism, as set forth in Section 43.

The Balancing Authority that operates an Intermediary Balancing Authority Area.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 886 Superseding Original Sheet No. 886

Intermediary Balancing Authority Area

Any Balancing Authority Area between a Host Balancing Authority Area and the CAISO Balancing Authority Area. An Intermediary Balancing Authority Area may, or may not, be directly interconnected with the

CAISO Balancing Authority Area.

Interruptible Imports Non-firm Energy sold by a Generator or resource located outside the

CAISO Controlled Grid which by contract can be interrupted or reduced at the discretion of the seller. Interruptible Imports must be submitted

through Self-Schedules in the Day-Ahead Market.

Inter-SC Trade A trade between Scheduling Coordinators of Energy, Ancillary Services,

or IFM Load Uplift Obligation in accordance with the CAISO Tariff.

Inter-SC Trade Period Either the Day-Ahead Inter-SC Trade Period or the HASP Inter-SC

Trade Period.

Intertie A Scheduling Point at a point of interconnection between the CAISO

Balancing Authority Area and an interconnected Balancing Authority

Area.

Intertie Block Bid A Bid from a System Resource in the DAM that offers the same quantity

of Energy, RUC Availability, or Ancillary Services across multiple,

contiguous hours of the Trading Day.

Invoice A document published as a result of an invoicing run pursuant to the

CAISO Payments Calendar in which a Business Associate's current net

financial obligation is a positive Settlement amount.

An investor owned electric utility.

ISO Independent System Operator

California Joint Exercise of Powers Act (California Government Code,

Section 6500, et seq.).

Joint Powers Authority

An authority authorized by law through which two or more public entities

jointly exercise their powers.

LAP Load Aggregation Point

LAP Price The marginal price for a particular LAP, calculated as a weighted

average of the nodal LMPs at the associated PNodes pursuant to

Section 27.2.2.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Agreement (LGIA)

Process Agreement

(LGISPA)

Second Revised Sheet No. 887 Superseding First Revised Sheet No. 887

Large Generating Facility A Generating Facility having a Generating Facility Capacity of more

than 20 MW.

Large Generator
Interconnection

The form of interconnection agreement applicable to an Interconnection

Description to a Large Congression To silitate a property of the connection of the conn

Request pertaining to a Large Generating Facility, a pro forma version

of which is set forth in Appendix V or Appendix Z, as applicable.

Large Generator

The interconnection procedures applicable to an Interconnection

Interconnection
Procedures (LGIP)

Request pertaining to a Large Generating Facility that are set forth in

Appendix U or Appendix Y, as applicable.

Large Generator The agreement between the CAISO and the Interconnection Customer Interconnection Study

for conducting the Interconnection Studies for a proposed Large

Generating Facility, a pro forma version of which is accepted by FERC,

posted on the CAISO Website, and set forth in Appendix Y.

Large Project A transmission upgrade or addition that exceeds \$200 million in capital

costs and consists of a proposed transmission line or substation facilities capable of operating at voltage levels greater than 200 kV. Location Constrained Resource Interconnection Facilities are not

included in this definition, regardless of the capital cost or voltage level

of the transmission upgrade or addition. A Large Project may also be a project that does not meet the dollar or voltage level requirement, but

that the CAISO determines raises significant policy issues warranting a

separate planning process.

LCRIF Location Constrained Resource Interconnection Facility

LCRIG Location Constrained Resource Interconnection Generator

LDF Load Distribution Factor

LFDP Load Following Deviation Penalty

LGIA Standard Large Generator Interconnection Agreement or Large

Generator Interconnection Agreement

LGIP Standard Large Generator Interconnection Procedures or Large

Generator Interconnection Procedures

Large Generator Interconnection Study Process Agreement

Issued by: Laura Manz, Vice President, Market and Development Infrastructure

Issued on: October 31, 2008 Effective: January 31, 2009

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II
Superseding Original Sheet No. 887A
Superseding Original Sheet No. 887A

Line Loss Correction The line loss correction factor as set forth in the technical specifications

Factor contained in the applicable Business Practice Manual.

LMP Locational Marginal Price

LMPM Local Market Power Mitigation

LMP Option A method of calculating Default Energy Bids based on Locational

Marginal Prices.

Load An end-use device of an End-Use Customer that consumes Power.

Load should not be confused with Demand, which is the measure of

Power that a Load receives or requires.

Load Aggregation Point

(LAP)

A set of Pricing Nodes as specified in Section 27.2 that are used for the

submission of Bids and Settlement of Demand.

Issued by: Laura Manz, Vice President, Market and Development Infrastructure

Load Distribution Factor (LDF)

A number that reflects the relative amount of Load at each PNode within a Load Aggregation Point. Load Distribution Factors determine how the aggregated Load at a given LAP is distributed to the associated power system Nodes. The sum of all Load Distribution Factors for a single Load Aggregation Point equals one.

Load Following Deviation Penalty (LFDP)

The penalty assignable to an MSS Operator for deviations from

Expected Energy outside the MSS Deviation Band.

Load Metric A Load Serving Entity's level of Load in megawatts

A Load Serving Entity's level of Load in megawatts for a defined time period that is exceeded in only 0.5% of the hours of that time period

based on historical or forecast Load data.

Load Migration The transfer of the responsibility to serve Load from one Load Serving

Entity to another.

Load Serving Entity (LSE) Any entity (or the duly designated agent of such an entity, including, e.g.

a Scheduling Coordinator), including a load aggregator or power marketer, that (a) (i) serves End Users within the CAISO Balancing Authority Area and (ii) has been granted authority or has an obligation pursuant to California state or local law, regulation, or franchise to sell electric energy to End Users located within the CAISO Balancing Authority Area; (b) is a federal power marketing authority that serves End Users; or (c) is the State Water Resources Development System

commonly known as the State Water Project of the California

Department of Water Resources.

Load Share Quantity

The product of Total Import Capability and Import Capability Load

Share.

Load SheddingThe systematic reduction of system Demand by temporarily decreasing

the Supply of Energy to Loads in response to transmission system or

area capacity shortages, system instability, or voltage control

considerations.

Local Capacity AreaTransmission constrained area as defined in the study referenced in

Section 40.3.1.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: December 21, 2007 Effective: March 31, 2008

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 889

Local Capacity Area Resource Deficiency

The monthly difference in MW between any applicable Local Capacity Area Resource requirements for an LSE as established pursuant to Section 40.3.2 and the quantity of monthly MW shown in the LSE's Resource Adequacy Plan.

First Revised Sheet No. 889

Local Capacity Area Resources

Resource Adequacy Capacity from a Generating Unit listed in the technical study or Participating Load that is located within a Local Capacity Area capable of contributing toward the amount of capacity required in a particular Local Capacity Area.

Local Capacity Technical Study

The study performed by the CAISO pursuant to Section 40.3.

Local Furnishing Bond

Tax-exempt bonds utilized to finance facilities for the local furnishing of electric energy, as described in section 142(f) of the Internal Revenue Code, 26 U.S.C. § 142(f).

Local Furnishing Participating TO

Any Tax-Exempt Participating TO that owns facilities financed by Local Furnishing Bonds.

Local Market Power Mitigation (LMPM)

The mitigation of market power that could be exercised by an entity when it is needed for local reliability services due to its location on the grid and a lack of competitive supply at that location pursuant to Section 39.7.

Local Publicly Owned Electric Utility A municipality or municipal corporation operating as a public utility furnishing electric services, a municipal utility district furnishing electric services, a public utility district furnishing electric services, an irrigation district furnishing electric services, a state agency or subdivision furnishing electric services, a rural cooperative furnishing electric services, or a Joint Powers Authority that includes one or more of these agencies and that owns Generation or transmission facilities, or furnishes electric services over its own or its members' electric Distribution System.

Local Regulatory Authority (LRA) The state or local governmental authority, or the board of directors of an electric cooperative, responsible for the regulation or oversight of a utility.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: February 8, 2008 Effective:

identification.

Local Reliability Criteria

Reliability Criteria unique to the transmission systems of each of the Participating TOs established at the later of: (1) CAISO Operations Date, or (2) the date upon which a New Participating TO places its facilities under the control of the CAISO.

Location

Location Code

A reference to either a PNode or an Aggregated Pricing Node.
The code assigned by the CAISO to Generation input points, and
Demand Take-Out Points from the CAISO Controlled Grid, and
transaction points from trades between Scheduling Coordinators. This
will be the information used by the CAISO Controlled Grid, and
transaction points for trades between Scheduling Coordinators. This will
be the information used by the CAISO to determine the location of the
input, output, and trade points of Energy Schedules. Each Generation
input and Demand Take-Out Point will have a designated Location Code

Location Constrained Resource Interconnection Facility (LCRIF) A High Voltage Transmission Facility that has been determined by the CAISO to satisfy all of the requirements of Section 24.1.3.

Location Constrained Resource Interconnection Generator (LCRIG) A Generating Unit that (a) uses a primary fuel source or source of energy that is in a fixed location and cannot practicably be transported from that location; and (b) is located in an Energy Resource Area.

Generating Units meeting criterion (a) shall include, but not be limited to, wind, solar, geothermal, hydroelectric, digester gas, landfill gas, ocean wave and ocean thermal tidal current Generating Units.

Locational Marginal Price (LMP)

The marginal cost (\$/MWh) of serving the next increment of Demand at that PNode consistent with existing transmission facility Constraints and the performance characteristics of resources.

Long Start Unit

A Generating Unit that requires between five and 18 hours to Start-Up and synchronize to the grid.

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Issued on: December 21, 2007

Effective: March 31, 2008

Long Term Congestion Revenue Right (Long Term CRR)

A Congestion Revenue Right differentiated by season and time-of-use period (on-peak and off-peak) with a term of ten years.

Low Voltage Access Charge (LVAC)

The Access Charge applicable under Section 26.1 to recover the Low Voltage Transmission Revenue Requirement of a Participating TO.

A transmission facility owned by a Participating TO or to which a

Low Voltage Transmission Facility

Participating TO has an Entitlement that is represented by a Converted Right, which is not a High Voltage Transmission Facility, that is under the CAISO Operational Control.

Low Voltage Transmission Revenue Requirement (LVTRR) The portion of a Participating TO's TRR associated with and allocable to the Participating TO's Low Voltage Transmission Facilities and Converted Rights associated with Low Voltage Transmission Facilities

that are under the CAISO Operational Control.

Low Voltage Wheeling Access Charge

The Wheeling Access Charge associated with the recovery of a

Participating TO's Low Voltage Transmission Revenue Requirement in

accordance with Section 26.1.

LRA Local Regulatory Authority

LSE Load-Serving Entity

LVAC Low Voltage Access Charge

LVTRR Low Voltage Transmission Revenue Requirement

Maintenance Outage

A period of time during which an Operator (i) takes its transmission facilities out of service for the purposes of carrying out routine planned maintenance, or for the purposes of new construction work or for work on de-energized and live transmission facilities (e.g., relay maintenance or insulator washing) and associated equipment; or (ii) limits the capability of or takes its Generating Unit or System Unit out of service for the purposes of carrying out routine planned maintenance, or for the purposes of new construction work.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: December 21, 2007 Effective: March 31, 2008

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Fourth Revised Sheet No. 892 Superseding Third Revised Sheet No. 892

Manual RMR Dispatch An RMR Dispatch Notice issued by the CAISO other than as a result of

the MPM-RRD process.

Marginal Cost of Congestion (MCC)

The component of LMP at a PNode that accounts for the cost of congestion, as measured between that Node and a Reference Bus.

Marginal Cost of Losses (MCL)

The component of LMP at a PNode that accounts for the marginal real power losses, as measured between that Node and a Reference Bus.

Marginal Losses

Market Clearing

The transmission system marginal real power losses that arise from changes in demand at a Node which are served by changes in generation at a Reference Bus.

Market Behavior Rules

Those rules established by FERC under Docket No. EL01-118.

The act of conducting any of the process used by the CAISO to

determine LMPs, Day-Ahead Schedules, RUC Awards or AS Awards, HASP Intertie Schedules and Dispatch Instructions based on Supply Bids and Demand Bids or CAISO Demand Forecast.

Market Clearing Price

The price in a market at which supply equals demand. All demand prepared to pay at least this price has been satisfied and all supply prepared to operate at or below this price has been purchased.

The time after which the CAISO is no longer accepting Bids for its

Market Close

CAISO Markets which: 1) for the DAM is 10:00 A.M. Pacific Time of the Day-Ahead; and 2) for the HASP and the RTM is approximately seventy-five minutes prior to the Operating Hour.

Market Disruption

An action or event that causes a failure of a CAISO Market, related to system operation issues or System Emergencies referred to in Sections 7.6 and 7.7, respectively.

Market Efficiency Enhancement Agreement (MEEA) An agreement between the CAISO and the Balancing Authority of an IBAA, or any entity or group of entities that use the transmission system of an IBAA, which provides for an alternative modeling and pricing arrangement to the default IBAA modeling and pricing provisions provided in Section 27.5.3. The CAISO may enter into such an agreement subject to FERC review and acceptance. Creation and modification of such an agreement will be pursuant to the process set forth in Section 27.5.3 and will be posted on the CAISO Website.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Issued on: April 8, 2009 Effective: March 31, 2009

FERC ELECTRIC TARIFF
Third Revised Sheet No. 892A
FOURTH REPLACEMENT VOLUME NO. II
Superseding Second Revised Sheet No. 892A

Market Interruption Actions taken by the CAISO outside of the normal market operation of

any of the CAISO Markets in the event of a Market Disruption, to prevent a Market Disruption, or minimize the extent of a Market Disruption as

provided in Sections 7.7.15 and 34.9.

Market Manipulation Has the meaning set forth in Section 37.7.

Market Monitoring Unit The component of the CAISO organization (currently the "Department of

Market Monitoring") that is assigned responsibility in the first instance for the functions of a Market Monitoring Unit, as that term is defined in 18

CFR § 35.28(b)(7).

Issued by: Nancy Saracino, Vice President, General Counsel and Corporate Secretary
Issued on: February 18, 2010

Effective: February 18, 2010

FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Substitute Second Revised Sheet No. 893 Superseding First Revised Sheet No. 893

Market Notice An electronic notice issued by the CAISO that the CAISO posts on the

CAISO Website and provides by e-mail to those registered with the

CAISO to receive CAISO e-mail notices.

Market Participant An entity, including a Scheduling Coordinator, who either: (1)

participates in the CAISO Markets through the buying, selling,

transmission, or distribution of Energy, Capacity, or Ancillary Services into, out of, or through the CAISO Controlled Grid; or (2) is a CRR

Holder or Candidate CRR Holder.

Market Power Mitigation-Reliability Requirement Determination (MPM-RRD) The two-optimization run process conducted in both the Day-Ahead

Market and the HASP that determines the need for the CAISO to employ

market power mitigation measures or Dispatch RMR Units.

Market Surveillance Committee (MSC)

The committee established under Appendix P.2.

Market Usage Charge The component of the Grid Management Charge that provides for the

recovery of the CAISO's costs, including, but not limited to the costs for processing Day-Ahead, Hour-Ahead Scheduling Process and Real-Time

Bids, maintaining the Open Access Same-Time Information System, monitoring market performance, ensuring generator compliance with market rules as defined in the CAISO Tariff and the Business Practice

Manuals, and determining LMPs. The formula for determining the Market Usage Charge is set forth in Appendix F, Schedule 1, Part A.

Market Violation A CAISO Tariff violation, violation of a Commission-approved order, rule

or regulation, market manipulation, or inappropriate dispatch that

creates substantial concerns regarding unnecessary market

inefficiencies.

Master File A file containing information regarding Generating Units, Loads and

other resources, or its successor.

Issued by: Nancy Saracino, Vice President, General Counsel and Corporate Secretary

Issued on: February 18, 2010 Effective: February 18, 2010

Material Change in Financial Condition

A change in or potential threat to the financial condition of a Market Participant or CRR Holder that increases the risk that the Market Participant or CRR Holder will be unlikely to meet some or all of its financial obligations. The types of Material Change in Financial Condition include but are not limited to the following:

- (a) a credit agency downgrade;
- (b) being placed on a credit watch list by a major rating agency;
- (c) a bankruptcy filing;
- (d) insolvency;
- the filing of a material lawsuit that could significantly and adversely affect past, current, or future financial results; or
- (f) any change in the financial condition of the Market Participant or CRR Holder which exceeds a five percent (5%) reduction in the Market Participant's or CRR Holder's Tangible Net Worth or Net Assets for the Market Participant or CRR Holder's preceding fiscal year, calculated in accordance with generally accepted accounting practices.

Material Modification

A modification that has a material impact on the cost or timing of any Interconnection Request or any other valid interconnection request with a later queue priority date.

Maximum Daily Start-Ups

The maximum number of times a Generating Unit can be started up within one day, due to environmental or physical operating constraints. A quantity in MW determined by the CAISO for each Intertie into the CAISO Balancing Authority Area to be deliverable to the CAISO Balancing Authority Area based on CAISO study criteria.

Maximum Import Capability

Maximum Net Dependable Capacity (MNDC)

A term defined in and used in association with an RMR Contract.

$\begin{array}{ll} \textbf{Maximum Operating Limit} \\ \textbf{(MOL}_{max}\textbf{)} \end{array}$

The lower of the maximum allowable output when the resource is operating or the upper bound of the Regulating Range if the resource is providing Regulation service.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: December 21, 2007 Effective: March 31, 2008

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 895

MCC Marginal Cost of Congestion
MCL Marginal Cost of Losses

MDT Minimum Down Time

Measured Demand The metered CAISO Demand plus Real-Time Interchange Export

Schedules.

Medium Start Unit A Generating Unit that requires between two and five hours to Start-Up

and synchronize to the grid.

MEEA Market Efficiency Enhancement Agreement

Merchant Transmission

CRRs

Incremental CRRs that are created by the addition of a Merchant

Transmission Facility. Merchant Transmission CRRs are effective for thirty (30) years or for the pre-specified intended life of the facility,

First Revised Sheet No. 895

whichever is less.

Merchant Transmission

Facility

A transmission facility or upgrade that is part of the CAISO Controlled

Grid and whose costs are paid by a Project Sponsor that does not recover the cost of the transmission investment through the CAISO's Access Charge or WAC or other regulatory cost recovery mechanism.

Meter Data Energy usage data collected by a metering device or as may be

otherwise derived by the use of Approved Load Profiles.

Meter Data Exchange

Format

A format for submitting Meter Data to the CAISO which will be published

by the CAISO on the CAISO Website or available on request.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist

Issued on: June 17, 2008

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First Revised Sheet No. 896 Superseding Original Sheet No. 896

Metered Balancing Authority Area Load

For purposes of calculating and billing the Grid Management Charge, Metered Balancing Authority Area Load is:

(a) all metered Demand for Energy of Scheduling Coordinators for the supply of Loads in the CAISO's Balancing Authority Area, plus (b) all Energy for exports by Scheduling Coordinators from the CAISO Balancing Authority Area; less (c) Energy associated with the Load of a retail customer of a Scheduling Coordinator, Utility Distribution Company, Small Utility Distribution Company or Metered Subsystem that is served by a Generating Unit that: (i) is located on the same site as the customer's Load or provides service to the customer's Load through arrangements as authorized by Section 218 of the California Public Utilities Code: (ii) is a qualifying small power production facility or qualifying cogeneration facility, as those terms are defined in FERC's regulations implementing Section 201 of the Public Utility Regulatory Policies Act of 1978; and (iii) the customer secures Standby Service from a Participating TO under terms approved by a Local Regulatory Authority or FERC, as applicable, or the customer's Load can be curtailed concurrently with an Outage of the Generating Unit. Metered Balancing Authority Area Load.

Metered Control Area Load

Metered Quantities

For each Direct Access End-User, the actual metered amount of MWh and MW; for each Participating Generator the actual metered amounts of MWh, MW, MVar and MVarh.

Metered Subsystem (MSS)

A geographically contiguous system located within a single zone which has been operating as an electric utility for a number of years prior to the CAISO Operations Date as a municipal utility, water district, irrigation district, state agency or federal power marketing authority subsumed within the CAISO Balancing Authority Area and encompassed by CAISO certified revenue quality meters at each interface point with the CAISO Controlled Grid and CAISO certified revenue quality meters on all Generating Units or, if aggregated, each individual resource and Participating Load internal to the system, which is operated in accordance with a MSS Agreement described in Section 4.9.1.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 897 Superseding Original Sheet No. 897

Metered Subsystem Agreement (MSS Agreement) A negotiated agreement between the CAISO and an MSS Operator regarding the operation of an MSS in relation to the CAISO entered into pursuant to Section 4.9, which MSS Agreement will incorporate the

provision of Section 4.9, unless otherwise agreed.

Metering Facilities Revenue quality meters, instrument transformers, secondary circuitry,

secondary devices, meter data servers, related communication facilities

and other related local equipment.

Meter Points Locations on the CAISO Controlled Grid at which the CAISO requires

the collection of Meter Data by a metering device.

Meter Service Agreement for CAISO Metered Entities (MSA CAISOME) An agreement entered into between the CAISO and a CAISO Metered Entity consistent with the provisions of Section 10, a *pro forma* version

of which is set forth in Appendix B.6.

Meter Service Agreement for Scheduling Coordinators (MSA SC) An agreement entered into between the CAISO and a Scheduling Coordinator consistent with the provisions of Section 10, a *pro forma*

Minimum Down Time (MDT)

The minimum amount of time that a Generating Unit must stay off-line

after being Shut-Down, due to physical operating constraints.

Minimum Load For a Generating Unit, the minimum sustained operating level at which it

version of which is set forth in Appendix B.7.

can operate at a continuous sustained level. For a Participating Load, the Operating Level at reduced consumption pursuant to a Dispatch

Instruction.

Minimum Load Bid The Bid component that indicates the Minimum Load Cost for the

Generating Unit or Participating Load, specified by a non-negative number in dollars per hour, which applies for the entire Trading Day for

which it is submitted.

Minimum Load Costs The costs a Generating Unit or a Participating Load incurs operating at

Minimum Load, which in the case of Participating Load may not be

negative.

Minimum Load Energy The product of the relevant Minimum Load and the duration of the

Settlement Interval.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Superseding Second Revised Sheet No. 898

Minimum Operating Limit

(MOL_{min})

The greater of the Minimum Load or the lower bound of the Regulating

Third Revised Sheet No. 898

Range if the resource offers Regulation service.

Minimum Run Time The minimum amount of time that a Generating Unit must stay on-line

after being started-up prior to being Shut-Down, due to physical

operating constraints.

Mitigation Frequency The percent of the Generating Unit's run hours where the unit had one

or more Bid segments mitigated under the CAISO Local Market Power

Mitigation.

Mitigation Measures The CAISO market power mitigation measures under the CAISO Tariff.

MNDC Maximum Net Dependable Capacity

Modified Reserve Sharing A Load Serving Entity whose Scheduling Coordinator has informed the LSE

CAISO in accordance with Section 40.1 of its election to be a Modified

Reserve Sharing LSE.

MOLmaxMaximum Operating LimitMOLminMinimum Operating Limit

Monthly Available CRR

Capacity

The upper limit of network capacity that will be used in the monthly CRR

Allocation and monthly CRR Auctions calculated by using OTC adjusted

for Outages, derates, and Transmission Ownership Rights for the

relevant month in accordance with Section 36.4.

Monthly CRR A Congestion Revenue Right whose term is one calendar month in

length and distributed in the monthly CRR Allocation and monthly CRR

Auction.

Monthly CRR Eligible

Quantity

The MW quantity of CRRs a CRR Holder or Candidate CRR Holder is

eligible to nominate for the relevant month in a monthly CRR Allocation.

provided in Section 36.8.2.2.

Moody's KMV Equivalent

Rating

The rating derived by Moody's KMV from the Moody's KMV Estimated

Default Frequency that effectively translates the Moody's Estimated

Default Fequency into a comparable credit agency rating. The Moody's

KMV Equivalent Rating may correspond to the Moody's KMV Spot

Credit Rating (CreditEdge Plus), Bond Default Rate Mapping or

Dynamic Rating (RiskCalc), or other rating established by Moody's KMV

for this purpose.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 899 Superseding Original Sheet No. 899

MPM-RRD Market Power Mitigation-Reliability Requirement Determination

MSA CAISOME Metered Service Agreement for CAISO Metered Entities

MSA SC Metered Service Agreement for Scheduling Coordinators

MSC Market Surveillance Committee

MSS Metered Subsystem

MSS Aggregation Either (1) a Metered Subsystem or (2) a collection of Metered

Subsystems represented by a single MSS Aggregator.

MSS Aggregation Net Measured Demand The sum of the net metered CAISO Demand from all the Net-Load MSSs in the MSS Aggregation plus any exports out of the CAISO Balancing Authority Area from the MSS Aggregation. Net metered CAISO Demand of a MSS is defined as the algebraic difference

between the gross CAISO Demand and Generation internal to the MSS.

MSS Aggregation Net Non-ETC/TOR Measured Demand The sum of the net metered non-ETC/TOR CAISO Demand from all of the non-ETC/TOR Net-Load MSSs in the MSS Aggregation plus any non-ETC/TOR exports out of the CAISO Balancing Authority Area from the MSS Aggregation. Net metered non-ETC/TOR CAISO Demand of an MSS is defined as the algebraic difference between the non-

ETC/TOR CAISO Demand and the non-ETC/TOR Generation within the

MSS.

MSS Aggregator An entity that has executed an agreement with the CAISO that enables it

to represent individual MSS Operators in the CAISO Markets on an aggregated basis, which agreement has been accepted by FERC.

MSS Aggregator CRR Entity Agent Agreement

An agreement between the CAISO and an MSS Aggregator by which the MSS Aggregator commits to act as agent for aggregation of MSS

Operators in the CRR Allocation, CRR Auction, and Secondary

Registration System process, a pro forma version of which is set forth in

Appendix B.12.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 900 Superseding First Revised Sheet No. 900

MSS Demand CAISO Demand specified in an MSS Agreement as being within the

MSS.

MSS Deviation Band The amount by which a Load following MSS Operator can deviate from

Expected Energy without incurring a Load Following Deviation Penalty,

equal to three percent (3%) of an MSS Operator's gross metered

Demand in the MSS and exports from the MSS, adjusted for Forced

Outages and any CAISO directed firm Load Shedding for the MSS's

portfolio as a whole.

MSS Load Following Energy IIE, exclusive of Standard Ramping Energy, Ramping Energy Deviation, and Residual Imbalance Energy, produced or consumed due to Load following by an MSS. MSS Load Following Energy is the IIE that corresponds to the algebraic Qualified Load Following Instruction, relative to the Day-Ahead Schedule. MSS Load Following Energy does not coexist with HASP Scheduled Energy, and it does not overlap with Standard Ramping Energy, Ramping Energy Deviation, or Residual Imbalance Energy, but it may overlap with Day-Ahead Scheduled

Energy, Derate Energy, Exceptional Dispatch Energy, Real-Time Self-Scheduled Energy, and Optimal Energy. MSS Load Following Energy is settled as provided in Section 11.5.1, and it is not included in BCR as

described in Section 11.8.4.

MSS Net Negative Uninstructed Deviation Net Negative Uninstructed Deviation for an MSS, with MSS Load

Following Energy included in the netting.

MSS Operator MSS Supply

Multi-Point CRR

An entity that owns an MSS and has executed a MSS Agreement.

Supply specified in an MSS Agreement as supplying an MSS.

A CRR Obligation specified according to one or more CRR Sources and one or more CRR Sinks and a flow from the CRR Source(s) to the CRR

Effective: _____

Sink(s), provided that at least the CRR Sink or the CRR Source

identifies more than one point.

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Municipal Tax Exempt Debt

An obligation the interest on which is excluded from gross income for federal tax purposes pursuant to Section 103(a) of the Internal Revenue Code of 1986 or the corresponding provisions of prior law without regard to the identity of the holder thereof. Municipal Tax Exempt Debt does not include Local Furnishing Bonds.

Must-Take/Must-Run Generation

The Bid component that identifies Generating Units that are Regulatory Must-Take Generation or Regulatory Must-Run Generation.

Nationally Recognized Statistical Rating Organizations (NRSRO)

Native Load

NERC

National credit rating agencies as designated by the U.S. Securities & Exchange Commission.

Load required to be served by a utility within its Service Area pursuant to

Negative Operating Reserve Obligation Credit Adjustment Factor

The adjustment factor specified in Section 11.10.5.

Reserve Obligation Credit Adjustment Factor (NOROCAF) Negotiated Rate Option

A method of calculating Default Energy Bids based on a negotiation with

The North American Electric Reliability Corporation or its successor.

The NERC standard for determination of generation resource net

the CAISO or the Independent Entity.

dependable capacity.

applicable law, franchise, or statute.

NERC Generating

Availability Data System (GADS)

NERC Reliability Standards for Modeling, Data and Analysis (NERC MOD Standards)

A set of NERC Reliability Standards applicable to the transmission planning process.

NERC/WECC Charge Assessment Year

A given year for which NERC/WECC Charges will be assessed by the WECC based on data from the calendar year two years prior to the year of the NERC/WECC Charge assessment.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 902 Superseding First Revised Sheet No. 902

NERC/WECC Charges

The charges approved by FERC, pursuant to Section 215 of the FPA and FERC issuances related thereto, that provide funding for the statutory-related functions performed by NERC, the WECC, and regional advisory bodies that serve the WECC, or their successors or assignees.

NERC/WECC Charge Trust Account

An account to be established by the CAISO for the purpose of maintaining funds collected from Scheduling Coordinators and disbursing such funds to the WECC.

NERC/WECC Metered Demand

For purposes of calculating NERC/WECC Charges, a Scheduling Coordinator's net metered CAISO Demand plus Unaccounted for Energy for net metered CAISO Demand and Transmission Losses for metered CAISO Demand. A Scheduling Coordinator's net metered CAISO Demand equals the Scheduling Coordinator's metered CAISO Demand (which adds Energy associated with imports from and subtracts Energy associated with exports to other Balancing Authority Areas), less metered CAISO Demand for Station Power and for Energy required for storage at electric energy storage facilities, such as pumped storage. For purposes of calculating NERC/WECC Metered Demand, Unaccounted for Energy and Transmission Losses allocable to net metered CAISO Demand will be allocated pro rata to each Scheduling Coordinator based on the Scheduling Coordinator's net metered CAISO Demand.

Net Assets

For governmental and not-for-profit entities, as defined in Step 4(b) of Section 12.1.1.1.2.

Net Hourly Energy Charge

Total charges to all Demand minus total payments to all Supply both based on the product of MWh amounts specified in all Day-Ahead Schedules and the relevant LMPs at the applicable PNodes or Aggregated Pricing Node.

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FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 903

The amount of IFM-related Bid Costs resulting from the sequential **Net IFM Bid Cost Uplift**

netting in Section 11.8.6.2 and allocated to Scheduling Coordinators in

accordance with Section 11.8.6.4.

Net-Load MSS An MSS with positive net metered CAISO Demand of the MSS within

the MSS Aggregation.

Net Negative CAISO Demand Deviation

The difference between metered CAISO Demand and the total CAISO

Demand scheduled in the Day-Ahead Schedule, if positive.

Net Negative Uninstructed

Deviation

The real-time change in Generation or Demand associated with

underscheduled Demand (i.e., Demand that appears unscheduled in Real-Time) and overscheduled Generation (i.e., Generation that is

scheduled in the DAM and does not appear in Real-Time), which are netted for each Settlement Interval, apply to a Scheduling Coordinator's

entire portfolio, and include Demand, Generation, imports and exports.

Net Output The gross Energy output from a Generating Unit less the Station Power

requirements for such Generating Unit during the Netting Period, or the

Energy available to provide Remote Self-Supply from a generating

facility in another Balancing Authority Area during the Netting Period.

Net Procurement The awarded amount (MWs) of a given Ancillary Service in the Day-

> Ahead, HASP, and Real-Time Markets, minus, (ii) the amount of that Ancillary Service associated with payments rescinded pursuant to any of

the provisions of Section 8.10.2.

Net Qualifying Capacity Qualifying Capacity reduced, as applicable, based on: (1) testing and

> verification; (2) application of performance criteria; and (3) deliverability restrictions. The Net Qualifying Capacity determination shall be made by the CAISO pursuant to the provisions of this CAISO Tariff and the

applicable Business Practice Manual.

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Original Sheet No. 904

netting in Section 11.8.6.2 and allocated to Scheduling Coordinators in

accordance with Section 11.8.6.6.

Net RUC Bid Cost Uplift

The amount of RUC-related Bid Costs resulting from the sequential

netting in Section 11.8.6.2 and allocated to Scheduling Coordinators in

accordance with Section 11.8.6.5.

Net Scheduled QFA Qualifying Facility identified in a QF PGA operated as a single unit

such that the Energy bid or self-scheduled with the CAISO is the net value of the aggregate electrical net output of the Qualifying Facility and

the Self-provided Load.

Netting Period A calendar month, representing the interval over which the Net Output of

one or more generating resources in a Station Power Portfolio is available to be attributed to the self-supply of Station Power in that

Station Power Portfolio.

Network Upgrades The additions, modifications, and upgrades to the CAISO Controlled

Grid required at or beyond the Point of Interconnection to accommodate the interconnection of the Generating Facility to the CAISO Controlled Grid. Network Upgrades shall consist of Delivery Network Upgrades and Reliability Network Upgrades. Network Upgrades do not include

Distribution Upgrades.

New High Voltage Facility A High Voltage Transmission Facility of a Participating TO that is placed

in service after the beginning of the TAC Transition Period described in Section 4 of Schedule 3 of Appendix F, or a capital addition made and placed in service after the beginning of the TAC Transition Period

described in Section 4.2 of Schedule 3 of Appendix F to an Existing High

Voltage Facility.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Third Revised Sheet No. 905 Superseding Second Revised Sheet No. 905

New Participating TOA Participating TO that is not an Original Participating TO.

New Responsible Utility A Responsible Utility that executes a TCA after April 1, 1998.

Node A point in the Full Network Model representing a physical location within

the CAISO Balancing Authority Area or the CAISO Controlled Grid, which includes the Load and Generating Unit busses in the CAISO

Balancing Authority Area and at the Intertie busses between the CAISO Balancing Authority Area and interconnected Balancing Authority Areas.

Nomogram A set of operating or scheduling rules which are used to ensure that

simultaneous operating limits are respected, in order to meet NERC and WECC reliability standards, including any requirements of the NRC.

Non-Availability Charge The monthly charge that the CAISO may assess to a Resource

Adequacy Resource under the Availability Standards program in

accordance with Section 40.9.

Non-CPUC Load Serving Entity

Any entity serving retail Demand in the CAISO Balancing Authority Area not within the jurisdiction of the CPUC, including (i) a local publicly owned electric utility under section 9604 of the California Public Utilities Code and (ii) any federal entities, including but not limited to federal

power marketing authorities, that serve retail Load.

Non-Dispatchable Use-Limited Resource A Use-Limited Resource that cannot be increased or curtailed at the direction of the CAISO in the Real-Time Dispatch of the CAISO Balancing Authority Area to Supply or consume Energy, such as certain

Qualifying Facilities.

Non-Dynamic Resource-Specific System Resource A Non-Dynamic System Resource that is a specific generation resource

outside the CAISO Balancing Authority Area.

Non-Dynamic System Resource

A System Resource that is not capable of submitting a Dynamic

Schedule, or for which a Dynamic Schedule has not be submitted, which

may be a Non-Dynamic Resource-Specific System Resource.

Non-Load-Serving Participating TO

A Participating TO that (1) is not a UDC, MSS Operator or Scheduling Coordinator serving End-Use Customers and (2) does not have Gross

Load in accordance with Section 9 of Schedule 3 of Appendix F.

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FERC ELECTRIC TARIFF

Second Revised Sheet No. 906

FOURTH REPLACEMENT VOLUME NO. II

Superseding First Revised Sheet No. 906

Non-Overlapping Optimal

Energy

The portions of Optimal Energy that are not Overlapping Optimal

Energy, which are indexed against the relevant Energy Bid and sliced by

Energy Bid price.

Non-Participating TO

A TO that is not a party to the Transmission Control Agreement or, for the purposes of Section 16.1, the holder of transmission service rights under an Existing Contract that is not a Participating TO.

Non-priced Quantity

As set forth in Section 27.4.3, a quantitative value in a CAISO Market that may be adjusted by the SCUC or SCED in the CAISO market optimizations but that does not have an associated bid price submitted by a Scheduling Coordinator. The Non-priced Quantities that may be so adjusted are: Energy Self-Schedules, transmission constraints, market energy balance constraints, Ancillary Service requirements, conditionally qualified and conditionally unqualified Ancillary Service self-provision, limits in RUC on minimum load energy, quick start capacity and minimum generation, Day-Ahead Energy Schedules resulting from the IFM, and estimated HASP Energy Self-Schedules used in RUC.

Non-Spinning Reserve

The portion of generating capacity that is capable of being synchronized and Ramping to a specified load in ten minutes (or Load that is capable of being interrupted in ten minutes) and that is capable of running (or being interrupted).

Non-Spinning Reserve Cost

The revenues paid to the suppliers of the total awarded Non-Spinning Reserve capacity in the Day-Ahead Market, HASP, and Real-Time Market, minus, (ii) the payments rescinded due to either the failure to conform to CAISO Dispatch Instructions or the unavailability of the Non-Spinning Reserves under Section 8.10.8.

Non-Spinning Reserve Obligation

The obligation of a Scheduling Coordinator to pay its share of costs incurred by the CAISO in procuring Non-Spinning Reserve.

No Pay

The rescission of a payment made for provision of Spinning Reserve and/or Non-Spinning Reserve when, subsequent to the AS Award for such Ancillary Service and payment, the Ancillary Service becomes Undispatchable Capacity, Unavailable Capacity, Undelivered Capacity,

or, in certain circumstances, unsynchronized capacity.

NOROCAF Negative Operating Reserve Obligation Credit Adjustment Factor

NRC The Nuclear Regulatory Commission or its successor.

NRC Standards The reliability standards published by the NRC from time to time.

OASIS Open Access Same-Time Information System

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FERC ELECTRIC TARIFF Third Revised Sheet No. 907

FOURTH REPLACEMENT VOLUME NO. II Superseding Substitute Second Revised Sheet No. 907

Out-of-Balancing Authority Area Load Serving Entity **OBAALSE**

Off A unit is Off when it is offline or in the process of starting up or shutting

down.

Off-Peak Deliverability

Assessment

The technical study performed under LGIP Section 6.3.2.2 set forth in

Appendix Y.

Offsetting CRR One of the pair of new equal and opposite CRRs created and allocated

> by the CAISO to reflect Load Migration between two LSEs pursuant to the provisions in Section 36.8.5, which is allocated to the Load losing LSE and is opposite in direction to the corresponding CRR previously allocated to that LSE and is denominated in a MW quantity that reflects

the net amount of Load Migration between the two LSEs.

On A unit is On when it is online, synchronized with the grid, and available

for Dispatch.

On-Peak Deliverability

Assessment

The technical study performed under LGIP Section 6.3.2.1 set forth in

Appendix Y.

On-Site Self-Supply Energy from a Generating Unit that self-supplies all or a portion of its

contemporaneous Station Power Load that is netted pursuant to Section

10.1.3 or is deemed to have self-supplied all or a portion of its

associated non-contemporaneous Station Power Load without use of the CAISO Controlled Grid during the Netting Period pursuant to Section

3.1 of the Station Power Protocol in Appendix I.

Open Access Same-Time Information System

(OASIS)

The electronic posting system for transmission access data that the

CAISO maintains on the CAISO Website that allows all Market

Participants to view the data simultaneously.

Operating Day The day when the Real-Time Market runs and Energy is supplied to

Load.

Operating Hour The hour during the day when the Real-Time Market runs and Energy is

supplied to Load.

Operating Procedures Procedures governing the operation of the CAISO Controlled Grid as the

CAISO may from time to time develop, and/or procedures that

Participating TOs currently employ which the CAISO adopts for use.

The combination of Spinning and Non-Spinning Reserve required to **Operating Reserve**

> meet NERC and WECC reliability standards, including any requirements of the NRC for reliable operation of the CAISO Balancing Authority Area.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 908 Superseding Original Sheet No. 908

Operating Reserve Obligation

The obligation of a Scheduling Coordinator to pay its share of costs

incurred by the CAISO in procuring Operating Reserves.

Operating Reserve Ramp

Rate

A single number included in Ancillary Service Bids and Submissions to Self-Provide Ancillary Services for Spinning Reserve and Non-Spinning Reserve that represents the Ramp Rate of a resource used in the

procurement of Operating Reserve capacity.

Operating Transfer Capability (OTC)

The maximum capability of a transmission path to transmit real power, expressed in MW, at a given point in time, as further defined in Appendix

L.

Operational Adjustment The difference between the Energy scheduled in the Balancing Authority

Area check-out process for Non-Dynamic System Resources and the

sum of Dispatch Interval IIE.

Operational Control The rights of the CAISO under the Transmission Control Agreement and

the CAISO Tariff to direct Participating TOs how to operate their transmission lines and facilities and other electric plant affecting the reliability of those lines and facilities for the purpose of affording comparable non-discriminatory transmission access and meeting

Applicable Reliability Criteria.

Operational Flexibility The latitude allowed the CAISO necessary to provide reasonable

assurance that the transmission network is designed in such a way that

it will be secure considering the inherent uncertainty in system

conditions or unforeseen circumstances, based on the current system

configuration and available generation.

Operational Ramp Rates A staircase function of up to 4 segments (in addition to Ramp Rate

segments needed for modeling Forbidden Operating Regions).

Operational Ramp Rates are submitted with Energy Bid data.

Operator The operator of facilities that comprise the CAISO Controlled Grid or a

Participating Generator.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 909 Superseding Original Sheet No. 909

Optimal Energy

Any remaining IIE after accounting for all other IIE subtypes. Optimal Energy does not overlap with Standard Ramping Energy, Ramping Energy Deviation, Residual Imbalance Energy, Real-Time Minimum Load Energy, Derate Energy, and Exceptional Dispatch Energy, but it may overlap with Day-Ahead Scheduled Energy, HASP Scheduled Energy, and MSS Load Following Energy. Optimal Energy is indexed against the relevant Energy Bid and sliced by service type, depending on the AS capacity allocation on the Energy Bid. Optimal Energy is also divided into Overlapping Optimal Energy and Non-Overlapping Optimal Energy. Any Optimal Energy slice below or above the Energy Bid has no associated Energy Bid price, and it is not included in BCR as described in Section 11.5.1.1.

Optional Interconnection Study

A sensitivity analysis based on assumptions specified by the Interconnection Customer in the Optional Interconnection Study Agreement.

Website for conducting the Optional Interconnection Study.

Optional Interconnection Study Agreement

The form of agreement accepted by FERC and posted on the CAISO

Order No. 888

The final rule issued by FERC entitled "Promoting Wholesale Competition through Open Access Non- discriminatory Transmission Services by Public Utilities; Recovery of Stranded Costs by Public

Services by Public Utilities; Recovery of Stranded Costs by Public Utilities and Transmitting Utilities," 61 Fed. Reg. 21,540 (May 10, 1996), FERC Stats. & Regs., Regulations Preambles [1991-1996] ¶ 31,036 (1996), Order on Rehearing, Order No. 888-A, 78 FERC ¶ 61,220

(1997), as it may be amended from time to time

Order No. 889

The final rule issued by FERC entitled "Open Access Same-Time Information System (formerly Real Time Information Networks) and Standards of Conduct," 61 Fed. Reg. 21,737 (May 10, 1996), FERC Stats. & Regs., Regulations Preambles [1991-1996] ¶ 31,035 (1996), Order on Rehearing, Order No. 889-A, 78 FERC ¶ 61,221 (1997), as it

may be amended from time to time.

Issued by: Anjali Sheffrin, Ph.D., Chief Economist

Issued on: May 19, 2008

Effective: _____

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 910 Superseding Original Sheet No. 910

Original Participating TO

A Participating TO that was a Participating TO as of January 1, 2000.

OTC

Operating Transfer Capability

Outage

Disconnection, separation or reduction in capacity, planned or forced, of

one or more elements of an electric system.

Out-of-Balancing Authority Area Load Serving Entity (OBAALSE) An entity serving end-users located outside the CAISO Balancing Authority Area and that has been granted authority or has an obligation pursuant to federal, state or local law, or under contracts to provide

electric service to such end-users located outside the CAISO Balancing

Authority Area.

Overgeneration

A condition that occurs when total Supply exceeds total Demand in the

CAISO Balancing Authority Area.

Overlapping Optimal Energy

The portion of Optimal Energy that overlaps with MSS Load Following

Energy.

Partial Resource Adequacy Resource

A Resource Adequacy Resource that has capacity that is designated by its Scheduling Coordinator as Resource Adequacy Capacity in its monthly or annual Resource Adequacy Plan and has a related availability obligation to the CAISO, but also has capacity that is not committed to meet a resource adequacy obligation in the CAISO Balancing Authority Area.

Participating Generator

A Generator or other seller of Energy or Ancillary Services through a Scheduling Coordinator over the CAISO Controlled Grid from a Generating Unit with a rated capacity of 1 MW or greater, or from a Generating Unit providing Ancillary Services and/or submitting Energy Bids through an aggregation arrangement approved by the CAISO, which has undertaken to be bound by the terms of the CAISO Tariff, in the case of a Generator through a Participating Generator Agreement.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Third Revised Sheet No. 911 Superseding Second Revised Sheet No. 911

Participating Generator

An agreement between the CAISO and a Participating Generator, a pro

forma version of which is set forth in Appendix B.2.

Participating Intermittent Resource

Agreement (PGA)

One or more Eligible Intermittent Resources that meets the

requirements of the technical standards for Participating Intermittent Resources adopted by the CAISO and set forth in a Business Practice

Manual.

Participating Intermittent Resource Export Fee

Fee based on Schedule 4 of Appendix F and Section 5.3 of Appendix Q.

Participating Intermittent Resource Fees

Fees set forth in Section 11.12.3.

Participating Load

An entity, including an entity with Pumping Load or Aggregated Participating Load, providing Curtailable Demand, which has undertaken in writing by execution of a Participating Load Agreement to comply with all applicable provisions of the CAISO Tariff.

Participating Load Agreement (PLA)

An agreement between the CAISO and a Participating Load, a pro forma

version of which is set forth in Appendix B.4.

Participating TO or Participating Transmission Owner (PTO) A party to the Transmission Control Agreement whose application under Section 2.2 of the Transmission Control Agreement has been accepted and who has placed its transmission assets and Entitlements under the CAISO's Operational Control in accordance with the Transmission Control Agreement. A Participating TO may be an Original Participating

TO or a New Participating TO.

Participating TO Service Territory

The area in which an IOU, a Local Public Owned Electric Utility, or federal power marketing authority that has turned over its transmission facilities and/or Entitlements to CAISO Operational Control is obligated to provide electric service to Load. A PTO Service Territory may be comprised of the Service Areas of more than one Local Publicly Owned Electric Utility, if they are operating under an agreement with the CAISO for aggregation of their MSS and their MSS Operator is designated as the Participating TO.

Issued by: Nancy Saracino, Vice President, General Counsel and Corporate Secretary

Issued on: November 25, 2009 Effective: February 1, 2010

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 912 Superseding Original Sheet No. 912

Participating TO's Interconnection Facilities

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

Path 15 Upgrade

The upgraded transmission facilities on Path 15 that have been turned over to CAISO Operational Control.

Payment Advice

A document published as a result of an invoicing run pursuant to the CAISO Payments Calendar in which a Business Associate's current net financial obligation is a negative Settlement Amount.

Payment Date

The date by which invoiced amounts are to be paid under the terms of the CAISO Tariff.

PGA

Participating Generator Agreement

Phase I Interconnection Study

The engineering study conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), that evaluates the impact of the proposed interconnection on the safety and reliability of the CAISO Controlled Grid and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility (ies) were interconnected without identified project modifications or system modifications, as provided in the On-Peak Deliverability Assessment or Off-Peak Deliverability Assessment, and other potential impacts, including but not limited to those identified in the Scoping Meeting as described in the Large Generator Interconnection Procedures set forth in Appendix Y. The study will also identify the approximate total costs, based on per unit costs, of mitigating these impacts, along with an equitable allocation of those costs to Interconnection Customers for their individual Generating

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Facilities.

Issued on: July 28, 2008

Effective: _____

Phase II Interconnection Study

An engineering and operational study conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), to determine the Point of Interconnection and a list of facilities (including the Participating TO's Interconnection Facilities, Network Upgrades, Distribution Upgrades, and Stand Alone Network Upgrades), the cost of those facilities, and the time required to interconnect the Generating Facility(ies) with the CAISO Controlled Grid.

Physical Scheduling Plant

A group of two or more related Generating Units, each of which is individually capable of producing Energy, but which either by physical necessity or operational design must be operated as if they were a single Generating Unit and any Generating Unit or Units containing related multiple generating components which meet one or more of the following criteria: i) multiple generating components are related by a common flow of fuel which cannot be interrupted without a substantial loss of efficiency of the combined output of all components; ii) the Energy production from one component necessarily causes Energy production from other components; iii) the operational arrangement of related multiple generating components determines the overall physical efficiency of the combined output of all components; iv) the level of coordination required to schedule individual generating components would cause the CAISO to incur scheduling costs far in excess of the benefits of having scheduled such individual components separately; or v) metered output is available only for the combined output of related multiple generating components and separate generating component metering is either impractical or economically inefficient.

Physical Trade

An Inter-SC Trade of Energy at an individual Generating Unit's PNode or at the unique Aggregated Pricing Node of a Physical Scheduling Plant that is submitted to the CAISO for Settlement through the CAISO Market and is subject to physical validation.

PIR Export Percentage

The PIR Export Percentage will be calculated for each Participating Intermittent Resource as the ratio of the Participating Intermittent Resource's PMax in the CAISO Master File minus the MW subject to an exemption under Section 5.3.2 of the EIRP in Appendix Q on a MW basis to the Participating Intermittent Resource's PMax in the CAISO Master File.

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Issued on: January 15, 2009 Effective: March 31, 2009

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 914

PLA Participating Load Agreement

Planning Standards

Committee

The committee appointed under Section 24.2.1.

PMax The maximum normal capability of the Generating Unit. PMax should

not be confused as an emergency rating of the Generating Unit.

First Revised Sheet No. 914

PMin The minimum normal capability of the Generating Unit.

PMS Power Management System

PNode Pricing Node

PNP Priority Nomination Process

PNP Eligible Quantity The maximum MW quantity of CRRs an LSE is eligible to nominate in

the Priority Nomination Process of the CRR Allocation.

POD Point(s) of Delivery

Point of Change of

Ownership

The point, as set forth in Appendix A to the Large Generator

Interconnection Agreement, where the Interconnection Customer's

Interconnection Facilities connect to the Participating TO's

Interconnection Facilities.

Point of Demarcation For a Net Scheduled QF, the point (1) where the electrical conductors

from the Net Scheduled QF contact an electric utility system or the CAISO Controlled Grid; or (2) if dedicated utility distribution facilities are

employed, where the dedicated facilities contact the electric utility

system or the CAISO Controlled Grid.

Point of Interconnection The point, as set forth in Appendix A to the Large Generator

Interconnection Agreement or Attachment 3 to the Small Generator

Interconnection Agreement, where the Interconnection Facilities connect

to the CAISO Controlled Grid.

Point(s) of Delivery or Withdrawal (POD or Point(s) of Withdrawal)

Point(s) within the CAISO Balancing Authority Area where Energy and

Ancillary Services are made available to a receiving party under this

CAISO Tariff.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 915 Superseding Original Sheet No. 915

Point(s) of Receipt or Injection (POR or Point(s) or Injection)

Point(s) within the CAISO Balancing Authority Area where Energy and Ancillary Services are made available by a delivering party under this

CAISO Tariff.

Point-to-Point CRR A CRR Option or CRR Obligation with a single CRR Source to a single

CRR Sink.

POR Point(s) of Receipt

Power The electrical work produced by a Generating Unit that is absorbed by

the resistive components of Load or other network components, measured in units of watts or standard multiples thereof, e.g., 1,000

Watt = 1 kW; 1,000 kW = 1 MW, etc.

Power Flow Model A network model used by the CAISO to model the voltages, power

injections and power flows on the CAISO Controlled Grid and adjacent

Balancing Authority Areas.

Power Management System (PMS) The CAISO computer control system used to monitor the real-time performance of the various elements of the CAISO Controlled Grid, control Generation, and perform operational power flow studies.

Power System Stabilizers (PSS)

An electronic control system applied on a Generating Unit that helps to damp out dynamic oscillations on a power system. The Power System Stabilizers senses Generator variables, such as voltage, current and shaft speed, processes this information and sends control signals to the Generator voltage regulator.

Power Transfer Distribution Factor (PTDF)

The percentage of a power transfer that flows on a transmission facility as a result of the injection of power at a specific bus and the withdrawal of power at another bus or a Reference Bus.

Pre-Construction Activities

Actions by a Participating TO, other than those required by an Engineering and Procurement Agreement under LGIP Section 10 in Appendix Y, undertaken prior to Construction Activities in order to prepare for the construction of Participating TO's Interconnection Facilities or Network Upgrades assigned to the Interconnection Customer, including, but not limited to, preliminary engineering, permitting activities, environmental analysis, or other activities specifically needed to obtain governmental approvals for the Participating TO's Interconnection Facilities or Network Upgrades.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 916

Preliminary NERC/WECC Charge Invoice An initial invoice issued by the CAISO that reflects an allocation of NERC/WECC Charges to a Scheduling Coordinator for a NERC/WECC Charge Assessment Year based on (i) the Scheduling Coordinator's NERC/WECC Metered Demand for the NERC/WECC Charge Assessment Year as described in Section 11.20.4, multiplied by (ii) the Preliminary NERC/WECC Charge Rate for the NERC/WECC Charge Assessment Year.

Preliminary NERC/WECC Charge Rate

The preliminary rate to be paid by Scheduling Coordinators for NERC/WECC Charges for a NERC/WECC Charge Assessment Year based on (i) the portions of the proposed budgets of NERC, WECC, and regional advisory bodies that serve the WECC that the WECC notifies the CAISO in writing are allocable to the CAISO for the NERC/WECC Charge Assessment Year or, alternatively, if the WECC does not provide such written notification to the CAISO in accordance with the CAISO-WECC Billing Services Agreement, the portions of the budgets of NERC, WECC, and regional advisory bodies that serve that WECC that the WECC informed the CAISO were allocable to the CAISO for the immediately preceding NERC/WECC Charge Assessment Year divided by (ii) the total of all Scheduling Coordinators' NERC/WECC Metered Demand for the NERC/WECC Charge Assessment Year as described in Section 11.20.4, including any adjustments to the calculation of NERC/WECC Metered Demand, as reported to the WECC pursuant to Section 11.20.4(b), and including any additional adjustments to the calculation of NERC/WECC Metered Demand, based on decisions by the WECC to permit such adjustments, that the WECC provides to the CAISO in a written statement in accordance with the CAISO-WECC Billing Services Agreement.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management
Issued on: December 21, 2007

Effective: March 31, 2008

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 917 Superseding Original Sheet No. 917

Pre-RA Import Commitment

Any power purchase agreement, ownership interest, or other commercial arrangement entered into on or before March 10, 2006, by a Load Serving Entity serving Load in the CAISO Balancing Authority Area for the procurement of Energy or capacity from a resource or resources located outside the CAISO Balancing Authority Area. The Pre-RA Import Commitment shall be deemed to terminate upon the expiration of the initial term of the Pre-RA Import Commitment, notwithstanding any "evergreen" or other renewal provision exercisable at the option of the Load Serving Entity.

Pre-RA Import Commitment Capability

The quantity in MW assigned to a particular Intertie into the CAISO Balancing Authority Area based on a Pre-RA Import Commitment.

Previously-Released CRRs

CRRs that were released based on a CRR FNM that did not include a particular IBAA change and that will continue to be in effect, either as active financial instruments or as allocated CRRs eligible for renewal nomination in the Priority Nomination Process, when the particular IBAA change is implemented in the CAISO Markets.

Price Correction Derived LMP

The applicable resource specific settlement LMP calculated pursuant to Section 11.21 for resources impacted by price corrections in the upward direction consistent with Section 35.

Price Taker

A quantity only Energy Bid with no associated price.

Pricing Node (PNode)

A single network Node or subset of network Nodes where a physical injection or withdrawal is modeled and for which a Locational Marginal Price is calculated and used for financial settlements.

Primary CAISO Control Center

The CAISO Control Center located in Folsom, California.

Priority Nomination Process (PNP)

The step in an annual CRR Allocation in years beyond CRR Year One through which CRR Holders re-nominate (1) Seasonal CRRs they were allocated in the prior year, (2) Long Term CRRs that are expiring, and (3) Existing Transmission Contracts and Converted Rights that are expiring.

Priority Type

The Bid component that indicates if applicable the scheduling priority for the Settlement Period for Reliability Must-Run Generation, if applicable. Any correction, surcharge, credit, refund or other adjustment pertaining to a billing month pursuant to an RMR Contract which is discovered after the Revised Adjusted RMR Invoice for such billing month has been

Prior Period Change

Issued on: March 31, 2010 Effective: June 1, 2010

issued.

Issued by: Nancy Saracino, Vice President, General Counsel and Corporate Secretary

FERC ELECTRIC TARIFF Fourth Revised Sheet No. 918
FOURTH REPLACEMENT VOLUME NO. II Superseding Third Revised Sheet No. 918

Prior Period Change A worksheet prepared by the RMR Owner and submitted to the CAISO

Worksheet following discovery of a necessary change to an RMR Invoice after the

Revised Adjusted RMR Invoice for the billing month has been issued.

Projected Proxy Cost A calculation of a resource's Start-Up Costs and Minimum Load Costs

for a prospective period used to determine the maximum Registered

Cost for the resource as set forth in Section 39.6.1.6.1 for a 30-day

period as set forth in Section 30.4.

Project Sponsor A Market Participant, group of Market Participants, a Participating TO or

a project developer who is not a Market Participant or Participating TO that proposes the construction of a transmission addition or upgrade in

accordance with Section 24.

Proposal for Installation A written proposal submitted by a CAISO Metered Entity to the CAISO

describing a proposal for the installation of additional Metering Facilities.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 918A

Proxy CostThe cost basis of a generating resource for which the operating cost is

calculated as an approximation of the actual operating cost pursuant to

Section 30.4(1).

PSS Power System Stabilizers

PTDF Power Transfer Distribution Factor

PTO Participating TO or Participating Transmission Owner

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Issued on: October 31, 2008 Effective: January 31, 2009

First Revised Sheet No. 919 Superseding Original Sheet No. 919

PTO Service Territory

FOURTH REPLACEMENT VOLUME NO. II

The area in which an IOU, a Local Public Owned Electric Utility, or federal power marketing authority that has turned over its transmission facilities and/or Entitlements to CAISO Operational Control is obligated to provide electric service to Load. A PTO Service Territory may be comprised of the Service Areas of more than one Local Publicly Owned Electric Utility, if they are operating under an agreement with the CAISO for aggregation of their MSS and their MSS Operator is designated as the Participating TO.

Public Utility Regulatory Policies Act (PURPA)

The Public Utility Regulatory Policies Act of 1978, incorporated in relevant part into the Federal Power Act.

Pumped-Storage Hydro Unit

A hydroelectric dam with the capability to produce electricity and the ability to pump water between reservoirs at different elevations to store such water for the production of electricity.

Pumping Cost

The hourly cost of pumping, expressed in \$/hour, submitted by a Participating Load.

Pumping Level

Level of MW that the Pumping Load resources would consume as

submitted in their Bid.

Pumping Load

A hydro pumping resource that is capable of responding to Dispatch Instructions by ceasing to pump.

Pump Ramping Conversion Factor

A Master File entry submitted by Scheduling Coordinators that allows the Scheduling Coordinator to indicate the ratio of Energy expended to pump water into storage that can be used to produce Energy. A zero percent Pump Ramping Conversion Factor implies that no amount of Energy production capability is produced as a result of pumping water and the CAISO shall not use such unavailable Energy in its CAISO Markets optimization. A hundred percent Pump Ramping Conversion Factor indicates all the Energy expended to pump water is available for Generation and the CAISO shall use only the available portions in its CAISO Markets optimization. The Pump Ramping Conversion Factor submitted in the Master File need not be based on physical characteristics of the resource and is adjustable by the Scheduling

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Coordinator.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 920 Superseding Original Sheet No. 920

Pump Shut-Down Costs A Bid Component submitted by Scheduling Coordinators for resources

that are registered as a Participating Load that indicates the \$/MWh that

the Scheduling Coordinator is willing to be paid to not pump.

PURPA Public Utility Regulatory Policies Act

QF Qualifying Facility

QF PGA Qualifying Facility Participating Generator Agreement

Qualified Load Following

Instruction

The MSS Load following instruction that is limited by the qualified Load

following up or down capacity. The qualified Load following up and down capacity is the Load following capacity that is qualified and limited by whether the resource is derated or is limited by the Regulation Limits

if the resource is providing Regulation.

Qualified OBAALSE An OBAALSE which the CAISO has certified has met all the

requirements for eligibility for CRR Allocation in accordance with Section

39.

Qualifying Capacity The maximum capacity of a Resource Adequacy Resource. The criteria

for calculating Qualifying Capacity from Resource Adequacy Resources may be established by the CPUC or other applicable Local Regulatory

Authority and provided to the CAISO.

Qualifying Facility (QF)A qualifying cogeneration facility or small qualifying power production

facility, as defined in the Code of Federal Regulations, Title 18, Part 292

(18 C.F.R § 292).

Qualifying Facility Participating Generator Agreement (QF PGA) An agreement between the CAISO and a Generator with a QF

Generating Unit, a pro forma version of which is set forth in Appendix

B.3.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 921 Superseding First Revised Sheet No. 921

Queue Position

The order of a valid Interconnection Request, relative to all other pending valid Interconnection Requests, that is established based upon the date and time of receipt of the valid Interconnection Request by the CAISO.

Ramping

Changing the loading level of a Generating Unit in a constant manner over a fixed time (e.g., Ramping up or Ramping down). Such changes may be directed by a computer or manual control.

Ramping Energy Deviation

The portion of Imbalance Energy produced or consumed due to deviation from the Standard Ramp because of ramp constraints, Start-Up, or Shut-Down. Ramping Energy Deviation may overlap with Standard Ramping Energy, and both Standard Ramping Energy and Ramping Energy Deviation may overlap with Day-Ahead Scheduled Energy, but with no other IIE subtype. Ramping Energy Deviation may be composed of two parts: a) the part that overlaps with Standard Ramping Energy whenever the DOP crosses the Standard Ramping Energy region; and b) the part that does not overlap with Standard Ramping Energy. The latter part of Ramping Energy Deviation consists only of extra-marginal IIE contained within the hourly schedule change band and not attributed to Exceptional Dispatch or derates. Ramping Energy Deviation does not apply to Non-Dynamic System Resources (including Resource-Specific System Resources). Ramping Energy Deviation is settled as described in Section 11.5.1, and it is included in BCR only for market revenue calculations as provided in Section 11.8.1.4.5.

Ramp Rate

The Bid component that indicates the Operational Ramp Rate,
Regulation Ramp Rate, and Operating Reserve Ramp Rate for a
Generating Unit, and the Load drop rate and Load pick-up rate for
Participating Loads, for which the Scheduling Coordinator is submitting
Energy Bids or Ancillary Services Bids.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Substitute First Revised Sheet No. 922 Superseding Original Sheet No. 922

RAS Remedial Action Schemes

Rated Governmental

Entity

A municipal utility or state or federal agency that holds an issuer,

counterparty, or underlying credit rating by a Nationally Recognized

Statistical Rating Organization.

Rated Public/Private

Corporation

An investor-owned or privately held entity that holds an issuer,

counterparty, or underlying credit rating by a Nationally Recognized

Statistical Rating Organization.

Real-Time The period of time during the Operating Hour. Any time period during the

twenty-four Operating Hours of any given day.

Real-Time Congestion

Fund

For each Settlement Period of the HASP and RTM, the CAISO shall

calculate the Real-Time Congestion Fund as the difference of 1) the sum of the products of the RTM or HASP MCC for Demand and the Demand Imbalance Energy at the relevant Location; and 2) the sum of

the products of RTM or HASP MCC for Supply and the Supply

Imbalance Energy at the relevant Location; including also the sum of RTM and HASP Congestion Charges for Intertie Ancillary Services

Awards.

Real-Time Congestion

Offset

A component of the neutrality adjustments as provided in Section

11.5.4.2 to account for the distribution of excess Real-Time Congestion revenue and for the non-assessment of the Marginal Cost of Congestion to Measured Demand for ETCs and TOR Self-Schedules in the Real-

Time as provided in Section 11.5.7.

Real-Time Contingency

Dispatch (RTCD)

The mode of the Real-Time Dispatch that will be invoked when a transmission or generation Contingency occurs and will include all

Contingency Only Operating Reserves in the optimization.

Real-Time Dispatch (RTD)

The SCED and SCUC software used by the CAISO to determine which

Ancillary Service and Imbalance Energy resources to Dispatch and to

calculate LMPs.

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FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II Substitute First Revised Sheet No. 923 Superseding Original Sheet No. 923

Real-Time Economic Dispatch (RTED)

The mode of the Real-Time Dispatch that will optimally dispatch resources based on their Energy Bids, excluding Contingency Only Operating Reserves except when needed to avoid an imminent System Emergency.

Real-Time Interchange Export Schedule

A final agreed-upon schedule of Energy to be transferred from the CAISO Balancing Authority Area to another Balancing Authority Area based on agreed-upon size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and Energy between the source and sink Balancing Authority Areas involved in the transaction.

Real-Time Manual Dispatch (RTMD)

The mode of the Real-Time Dispatch that will be invoked as a fall-back mechanism only when the RTED or RTCD fails to provide a feasible Dispatch.

Real-Time Marginal Cost of Losses Offset

A component of the neutrality adjustments as provided in Section 11.5.4.2 to account for the distribution of excess Real-Time Marginal Cost of Losses and the non-assessment of Marginal Cost of Losses charges to Measured Demand for TOR Self-Schedules eligible for the RTM Marginal Cost of Losses Credit for Eligible TOR Self-Schedules as provided in Section 11.5.7.2.

Real-Time Market (RTM)

The spot market conducted by the CAISO using SCUC and SCED in the Real-Time, after the HASP is completed, which includes the RTUC, STUC and the RTD for the purpose of Unit Commitment, Ancillary Service procurement, Congestion Management and Energy procurement based on Supply Bids and CAISO Forecast of CAISO Demand.

Real-Time Market Pumping Bid Cost For the applicable Settlement Interval, the Pumping Cost submitted to the CAISO in the HASP or RTM divided by the number of Settlement Intervals in a Trading Hour, as further provided in Section 11.8.4.1.4.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

Superseding First Revised Sheet No. 924

Second Revised Sheet No. 924

Real-Time Minimum Load Energy

FOURTH REPLACEMENT VOLUME NO. II

IIE, exclusive of Standard Ramping Energy, Ramping Energy Deviation, and Residual Imbalance Energy, produced due to the Minimum Load of a Generating Unit that is committed in the RUC or the RTM and does not have a Day-Ahead Schedule or of a Constrained Output Generator (COG) that is committed in the IFM with a Day-Ahead Schedule below the registered Minimum Load. If the resource is committed in RTM for Load following by an MSS Operator, the Real-Time Minimum Load Energy is accounted as MSS Load Following Energy instead. Real-Time Minimum Load Energy is IIE above the Day-Ahead Schedule (or zero if there is no Day-Ahead Schedule of Energy) and below the registered Minimum Load. Real-Time Minimum Load Energy does not overlap with any other Expected Energy type. Real-Time Minimum Load Energy is settled as described in Section 11.5.1, and it is included in BCR as described in Section 11.8.4.1.2. IIE that is consumed when a resource that is scheduled in the DAM is shut down in the RTM is accounted as HASP Scheduled Energy or Optimal Energy and not as Real-Time Minimum Load Energy.

Real-Time Pumping Energy

IIE from a Participating Load Pumped-Storage Hydro Unit or Pumping Load, exclusive of Standard Ramping Energy and Ramping Energy Deviation, consumed below the Day-Ahead Schedule when dispatched in pumping mode, or produced from pumping operation due to pumping level reduction in Real-Time, including pump shut-down. Real-Time Pumping Energy does not overlap with any other Expected Energy type. Real-Time Pumping Energy is settled as described in Section 11.5.1, and it is included in BCR as described in Section 11.8.4.1.4.

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Issued on: January 15, 2009 Effective: March 31, 2009

Substitute Second Revised Sheet No. 925 Superseding First Revised Sheet No. 925

Real-Time Self-Scheduled Energy

The slice of Non-Overlapping Optimal Energy that corresponds to the Real-Time total Self-Schedule.

Real-Time Settlement Interval MSS Price

1) The Real-Time LAP price for the MSS when the MSS internal metered Demand exceeds the MSS internal measured Generation; or 2) the weighted average of the Real-Time LMPs for all applicable PNodes within the relevant MSS when MSS internal measured Generation exceeds MSS internal Measured Demand where weighting factors for computing the weighted average are based on the measured Energy of all Generation at the corresponding PNodes.

Real-Time Unit Commitment (RTUC)

An application of the RTM that runs every 15 minutes and commits Fast Start Units and Medium Start Units using the SCUC to adjust from Day-Ahead Schedules and HASP Intertie Schedules.

Recalculation Settlement Statement

The recalculation of a Settlement Statement in accordance with the provisions of the CAISO Tariff, which includes the Recalculation Settlement Statement T+38B, the Recalculation Settlement Statement T+76B, the Recalculation Settlement Statement T+18M, the Recalculation Settlement Statement T+35M, the Recalculation Settlement Statement T+36M or any other Recalculation Settlement Statement authorized by the CAISO Governing Board.

Recalculation Settlement Statement T+38B

The reissue of an Initial Settlement Statement T+7B by the CAISO on the thirty-eighth (38th) Business Day from the relevant Trading Day.

Recalculation Settlement Statement T+76B

The reissue of an Initial Settlement Statement T+7B or a Recalculation Settlement Statement T+38B by the CAISO on the seventy-sixth (76th) Business Day from the relevant Trading Day (T+76B).

Recalculation Settlement Statement T+18M

The reissue of an Initial Settlement Statement T+7B, a Recalculation Settlement Statement T+38B, or a Recalculation Settlement Statement T+76B on the Business Day eighteen (18) calendar months from the relevant Trading Day (T+18M).

Recalculation Settlement Statement T+35M

The reissue of an Initial Settlement Statement T+7B, a Recalculation Settlement Statement T+38B, a Recalculation Settlement Statement T+76B, or a Recalculation Settlement Statement T+18M, on the Business Day thirty-five (35) calendar months from the relevant Trading Day (T+35M).

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. I

Substitute Original Sheet No. 925A

Recalculation Settlement Statement T+36M

The reissue of an Initial Settlement Statement T+7B, a Recalculation Settlement Statement T+38B, a Recalculation Settlement Statement T+18M or a Recalculation Settlement Statement T+35M on the Business

Day thirty-six (36) calendar months from the relevant Trading Day

(T+36M).

Redispatch The readjustment of scheduled Generation or Demand side

management measures, to relieve Congestion or manage Energy

imbalances.

Reference Bus The Location(s) on the CAISO Controlled Grid relative to which

mathematical quantities relating to powerflow solution will be calculated.

Registered Cost The cost basis of a generating resource for which the operating cost is

determined from registered values pursuant to Section 30.4(2).

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

provide Regulation.

FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 926 Superseding First Revised Sheet No. 926

Registered Data

Those items of technical data and operating characteristics relating to Generation, transmission or distribution facilities which are identified to the owners of such facilities as being information, supplied in accordance with the CAISO Tariff, to assist the CAISO to maintain reliability of the CAISO Controlled Grid and to carry out its functions. The operating level range within which a generating resource may

Regulating Range

Regulation

The service provided either by Generating Units certified by the CAISO as equipped and capable of responding to the CAISO's direct digital control (AGC) signals, or by System Resources that have been certified by the CAISO as capable of delivering such service to the CAISO Balancing Authority Area, in an upward and downward direction to match, on a Real-Time basis, Demand and resources, consistent with established NERC and WECC reliability standards, including any requirements of the NRC. Regulation is used to control the Power output of electric generators within a prescribed area in response to a change in system frequency, tie line loading, or the relation of these to each other so as to maintain the target system frequency and/or the established Interchange with other Balancing Authority Areas within the predetermined Regulation Limits. Regulation includes both the increase of output by a Generating Unit or System Resource (Regulation Up) and the decrease in output by a Generating Unit or System Resource (Regulation Down). Regulation Up and Regulation Down are distinct capacity products, with separately stated requirements and ASMPs in each Settlement Period.

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Issued on: January 28, 2009 Effective: March 31, 2009

First Revised Sheet No. 927 Superseding Original Sheet No. 927

Regulation Down or Regulation Down Reserve

FOURTH REPLACEMENT VOLUME NO. II

Regulation reserve provided by a resource that can decrease its actual operating level in response to a direct electronic (AGC) signal from the CAISO to maintain standard frequency in accordance with established Reliability Criteria.

Regulation Down Reserve Cost

The revenues paid to the suppliers of the total awarded Regulation Down Reserve capacity in the Day-Ahead, HASP, and Real-Time Markets for the Settlement Period, minus the payments rescinded in the Settlement Period due to the unavailability of the Regulation Down under any of the provisions of Section 8.10.8.

Regulation Limits

The MW limits, up and down, set by a Generator for a Generating Unit's operation on Automatic Generation Control.

Regulation Ramp Rate

A single number included in Ancillary Service Bids and Submissions to Self-Provide Ancillary Services for Regulation that represents the Ramp Rate of a resource used in the procurement of Regulation capacity.

Regulation Up or Regulation Up Reserve Regulation provided by a resource that can increase its actual operating level in response to a direct electronic (AGC) signal from the CAISO to maintain standard frequency in accordance with established Reliability Criteria.

Regulation Up Reserve Obligation

The obligation of a Scheduling Coordinator to pay its share of costs incurred by the CAISO in procuring Regulation Up Reserves.

Regulatory Must-Run Generation

Hydro Spill Generation and Generation which is required to run by applicable federal or California laws, regulations, or other governing jurisdictional authority. Such requirements include but are not limited to hydrological flow requirements, environmental requirements, such as minimum fish releases, fish pulse releases and water quality requirements, irrigation and water supply requirements of solid waste Generation, or other Generation contracts specified or designated by the jurisdictional regulatory authority as it existed on December 20, 1995, or as revised by federal or California law or Local Regulatory Authority.

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Second Revised Sheet No. 928 Superseding First Revised Sheet No. 928

Regulatory Must-Take Generation

Those generation resources identified by CPUC, or a Local Regulatory Authority, the operation of which is not subject to competition. These resources will be scheduled by the relevant Scheduling Coordinator directly with the CAISO on a must-take basis. Regulatory Must-Take Generation includes generation from Qualifying Facility Generating Units subject to a mandatory purchase obligation as defined by federal law, nuclear units and pre-existing power purchase contracts with minimum Energy take requirements.

Reliability Coordinator

The entity designated by WECC as responsible for reliability coordination in Real-Time for the area defined by WECC.

Reliability Criteria

Pre-established criteria that are to be followed in order to maintain desired performance of the CAISO Controlled Grid under Contingency or steady state conditions.

Reliability Must-Run Charge (RMR Charge)

The sum payable by a Responsible Utility to the CAISO pursuant to Section 41 for the costs, net of all applicable credits, incurred under the Reliability Must-Run Contract.

Reliability Must-Run Contract (RMR Contract)

A Must-Run Service Agreement between the owner of a Reliability Must-Run Unit and the CAISO.

Reliability Must-Run Generation (RMR Generation)

Generation that the CAISO determines is required to be on line to meet Applicable Reliability Criteria requirements. This includes i) Generation constrained on line to meet NERC and WECC reliability criteria for interconnected systems operation; ii) Generation needed to meet Load demand in constrained areas; and iii) Generation needed to be operated to provide voltage or security support of the CAISO or a local area.

Reliability Must-Run Unit (RMR Unit)

A Generating Unit of a Participating Generator which is the subject of a

Reliability Must-Run Contract.

Issued on: August 3, 2009 Effective: October 2, 2009

Reliability Network Upgrades

FOURTH REPLACEMENT VOLUME NO. II

The transmission facilities at or beyond the Point of Interconnection identified in the Interconnection Studies as necessary to interconnect one or more Large Generating Facility(ies) safely and reliably to the CAISO Controlled Grid, which would not have been necessary but for the interconnection of one or more Large Generating Facility(ies), including Network Upgrades necessary to remedy short circuit or stability problems, or thermal overloads. Reliability Network Upgrades shall only be deemed necessary for thermal overloads, occurring under any system condition, where such thermal overloads cannot be adequately mitigated through Congestion Management, Operating Procedures, or Special Protection Systems based on the characteristics of the Large Generating Facilities included in the Interconnection Studies, limitations on market models, systems, or information, or other factors specifically identified in the Interconnection Studies. Reliability Network Upgrades also include, consistent with WECC practice, the facilities necessary to mitigate any adverse impact the Large Generating Facility's interconnection may have on a path's WECC rating.

Reliability Requirement Determination (RRD)

The reliability process conducted by the CAISO during the DAM, prior to the IFM, and in the HASP, prior to the RTUC, to determine whether unit(s) subject to a contract with the CAISO to provide local reliability services, which includes a Reliability Must-Run Contract and any successor instrument, are necessary to meet local reliability needs for the CAISO Balancing Authority Area.

Reliability Services Costs

The costs associated with services provided by the CAISO: 1) that are deemed by the CAISO as necessary to maintain reliable electric service in the CAISO Balancing Authority Area; and 2) whose costs are billed by the CAISO to the Participating TO pursuant to the CAISO Tariff. Reliability Services Costs include costs charged by the CAISO to a Participating TO associated with service provided under an Reliability Must-Run Contract, Exceptional Dispatches and Minimum Load Costs associated with units committed for local reliability requirements.

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First Revised Sheet No. 930 Superseding Original Sheet No. 930

Reliability Standard

FOURTH REPLACEMENT VOLUME NO. II

A requirement approved by FERC under Section 215 of the Federal Power Act to provide for reliable operation of the bulk power system. The term includes requirements for the operation of existing bulk power system facilities, including cyber security protection, and the design of planned additions or modifications to such facilities to the extent necessary for reliable operation of the bulk power system; but the term does not include any requirement to enlarge such facilities or to construct new transmission capacity or generation capacity.

Remaining Import Capability

The quantity in MW of Total Import Capability assigned to a Load Serving Entity up to its Load Share Quantity after the assignment of Existing Contract Import Capability and Pre-RA Import Commitment. Capability.

Remedial Action Schemes (RAS)

Protective systems that typically utilize a combination of conventional protective relays, computer-based processors, and telecommunications to accomplish rapid, automated response to unplanned power system events. Also, details of RAS logic and any special requirements for arming of RAS schemes, or changes in RAS programming, that may be required. Remedial Action Schemes are also referred to as Special Protection Systems.

Remote Self-Supply

Positive Net Output from generating resources in the Station Power Portfolio that is deemed to have self-supplied Station Power Load of other Generating Units in the Station Power Portfolio during the Netting Period, where such self-supply requires use of the CAISO Controlled Grid.

Request Window

The period of time as set forth in the Business Practice Manual during which transmission additions or upgrades, requests for Economic Planning Studies, and other transmission related information is submitted to the CAISO in accordance with Section 24.2.2.

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FERC ELECTRIC TARIFF

Third Revised Sheet No. 931 Superseding Second Revised Sheet No. 931

FOURTH REPLACEMENT VOLUME NO. II

Reserve Margin The amount of Resource Adequacy Capacity that a Scheduling

Coordinator is required to maintain in accordance with Section 40.

Reserve Sharing LSE A Load Serving Entity whose Scheduling Coordinator has informed

the CAISO in accordance with Section 40.1 of its election to be a

Reserve Sharing LSE.

Residual Imbalance Energy

Extra-marginal IIE produced or consumed at the start or end of a

Trading Hour outside the hourly schedule-change band and not
attributed to Exceptional Dispatch. Residual Imbalance Energy is due

to a Dispatch Instruction in the previous Trading Hour or a Dispatch Instruction in the next Trading Hour. Residual Imbalance Energy may overlap only with Day-Ahead Scheduled Energy. Residual Imbalance Energy does not apply to Non-Dynamic System Resources (including Resource-Specific System Resources). Residual Imbalance Energy is settled as bid, based on the Real-Time Energy Bid of the reference hour, as described in Section 11.5.5 and it is not included in BCR as described in Section 11.8.4. The reference hour is the previous Trading Hour, if Residual Imbalance Energy occurs at the start of a

occurs at the end of a Trading Hour.

Residual Unit Commitment (RUC)

The process conducted by the CAISO in the Day-Ahead Market after the IFM has been executed to ensure sufficient Generating Units, System Units, System Resources and Participating Loads are committed to meet the CAISO Forecast of CAISO Demand.

Trading Hour, or the next Trading Hour, if Residual Imbalance Energy

Resource Adequacy Capacity or RA Capacity

The supply capacity of a Resource Adequacy Resource listed on a

Resource Adequacy Plan and a Supply Plan.

Resource Adequacy Compliance Year

A calendar year from January 1 through December 31.

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Issued on: April 28, 2009 Effective: January 1, 2010

FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 932 Superseding First Revised Sheet No. 932

A submission by a Scheduling Coordinator for a Load Serving Entity **Resource Adequacy Plan**

in the form required by the Business Practice Manual to satisfy the

requirements of Section 40.

Resource Adequacy

Resource

A resource that is designated in a Supply Plan to provide Resource

Adequacy Capacity. The criteria for determining the types of

resources that are eligible to provide Qualifying Capacity may be established by the CPUC or other applicable Local Regulatory

Authority and provided to the CAISO.

Resource ID Identification characters assigned by the CAISO to Generating Units,

Loads, Participating Loads, System Units, System Resources, and

Physical Scheduling Plants.

Resource Location The Resource ID for a Generating Unit, Participating Load or System

Resource.

Resource-Specific ASMP The Ancillary Services Marginal Price as determined pursuant to

Section 11.10.

Resource-Specific **Settlement Interval LMP** The LMP at a PNode used for settlement of IIE, calculated as the IIEweighted average, excluding the IIE weight for Residual Imbalance Energy, Energy from HASP Intertie Schedules, and Energy from Black Start and Voltage Support, of the individual LMPs for Dispatch Intervals within the given Settlement Interval for a resource, and if there is no Instructed Imbalance Energy, then it is calculated as the simple average of the individual LMPs for the Dispatch Intervals within the given Settlement Interval for a resource.

Resource-Specific System

Resource

A Dynamic or Non-Dynamic Resource-Specific System Resource.

Resource-Specific Tier 1 **UIE Settlement Interval**

Price

The price used to settle Tier 1 UIE as calculated pursuant to Section

11.5.2.1.

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First Revised Sheet No. 933 Superseding Original Sheet No. 933

Responsible Participating Transmission Owner (or Responsible Participating TO or Responsible PTO)

FOURTH REPLACEMENT VOLUME NO. II

The party providing transmission service under an Existing Contract listed in Appendix A of a Responsible Participating Transmission Owner Agreement and that is the Scheduling Coordinator for each Existing Right holder listed in Appendix A of that RPTOA, unless that Scheduling Coordinator responsibility is transferred pursuant to the provisions of the RPTOA.

Responsible Participating Transmission Owner Agreement (RPTOA) An agreement between the CAISO and a Responsible Participating Transmission Owner, a *pro forma* version of which has been accepted by FERC as a CAISO rate schedule in 88 FERC ¶ 61,077.

Responsible Utility

The utility which is a party to the Transmission Control Agreement in whose PTO Service Territory the Reliability Must-Run Unit is located or whose PTO Service Territory is contiguous to the PTO Service Territory in which a Reliability Must-Run Unit owned by an entity outside of the CAISO Controlled Grid is located.

Responsible Utility Facility Trust Account

A segregated commercial bank account under the Facility Trust Account containing funds held in trust for the Responsible Utility under an RMR Contract.

Results Meeting

The meeting among the CAISO, the applicable Participating TO(s), the Interconnection Customer, and, if applicable, other Affected System Operators to discuss the results of the Phase I Interconnection Study as set forth in LGIP Section 6 set forth in Appendix Y.

Revenue Meter Data Acquisition and Processing System (RMDAPS) A collective name for the set of CAISO systems used to collect, validate, edit and report on Revenue Quality Meter Data.

Revenue Quality Meter Data Meter data meeting the standards and requirements established and maintained by the CAISO.

Revenue Requirement

The revenue level required by a utility to cover expenses made on an investment, while earning a specified rate of return on the investment. The monthly invoice issued by the Reliability Must-Run Owner to the CAISO pursuant to the Reliability Must-Run Contract reflecting any appropriate revisions to the Adjusted Reliability Must-Run Invoice based

Revised Adjusted RMR Invoice

on the CAISO's validation and actual data for the billing month.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 934 Superseding Original Sheet No. 934

Revised Estimated RMR

Invoice

The monthly invoice issued by the Reliability Must-Run Owner to the

CAISO pursuant to the Reliability Must-Run Contract reflecting

appropriate revisions to the Estimated Reliability Must-Run Invoice based on the CAISO's validation of the Estimated Reliability Must-Run

Invoice.

RMDAPS Revenue Meter Data Acquisition and Processing System

RMR Reliability Must-Run

RMR Charge Reliability Must-Run Charge
RMR Contract Reliability Must-Run Contract

the RMR Owner or the Responsible Utility in accordance with an RMR

Contract.

RMR Dispatch The quantity of Energy or Ancillary Services that is mandated by the

CAISO to be delivered in a given market for a resource by an RMR Unit

under an RMR Contract.

RMR Dispatch Notice
Notice received by an RMR Unit from the CAISO containing an RMR

Dispatch.

RMR Energy Total Expected Energy under RMR Dispatch. RMR Energy is calculated

independent of other Expected Energy types and it may overlap with any

other Expected Energy type. It is used for RMR Contract based

settlement as provided in Section 11.13.

RMR Generation Reliability Must-Run Generation

RMR Invoice Any Estimated RMR Invoice, Revised Estimated RMR Invoice, Adjusted

RMR Invoice, or Revised Adjusted RMR Invoice under an RMR

Contract.

RMR Owner The provider of services under a Reliability Must-Run Contract.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 935 Superseding Original Sheet No. 935

RMR Owner Facility Trust

Account

The commercial bank account held in trust by the CAISO for the benefit

of the owner of an RMR Unit subject to an RMR Contract as required

and specified in Section 9.2 of the pro forma RMR Contract.

RMR Payment Any amounts which the CAISO is obligated to pay to RMR Owners

under the RMR Contracts, net of any applicable credits under the RMR

Contracts.

RMR Payments Calendar

RMR Proxy Bid

The payment calendar issued by the CAISO pursuant to Section 11.13.

For Condition 1 RMR Units, for Energy, an amount calculated based on

the hourly variable costs as defined in Schedule C of the applicable

RMR Contract in the form of a monotonically increasing function

consistent with the bidding rules in Section 30. For Condition 2 RMR Units, for Energy, the Energy Bid defined in Schedule M of the RMR

Contract. For Condition 1 and 2 RMR Units, for Start-Up costs, the

amount set forth in Schedule D of the applicable RMR Contract; and for

Minimum Load costs, an amount calculated based on unit specific

performance parameters as set for the applicable RMR Contract and the

gas price calculated in accordance with Schedule C of the applicable

RMR Contract.

RMR Refund Any amounts which RMR Owners are obligated to pay to the CAISO and

the CAISO is obligated to pay to the Responsible Utilities under the

RMR Contracts, or resulting from any order by the FERC, for deposit

into the Responsible Utility Facility Trust Account.

RMR Security The form of security provided by a Responsible Utility to cover its liability

under Section 11.13.

RMR Unit Reliability Must-Run Unit

RPTOA Responsible Participating Transmission Owner Agreement

RRD Reliability Requirement Determination

RTCD Real-Time Contingency Dispatch

RTD Real-Time Dispatch

RTED Real-Time Economic Dispatch

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

RTM Real-Time Market

RTM AS Bid Cost The Bid Cost of a BCR Eligible Resource for Ancillary Service capacity

in the RTM.

RTM Bid Cost The total of a resource's RTM Start–Up Cost, RTM Minimum Load Cost,

RTM Pump Shut-Down Cost, RTM Pumping Cost, RTM Energy Bid

Original Sheet No. 936

Cost, and RTM AS Bid Cost.

RTM Bid Cost Shortfall For each Settlement Interval, for any BCR Eligible Resource, the

negative amount resulting from the difference between its RTM Bid Cost

and its RTM Market Revenue.

RTM Bid Cost Surplus For each Settlement Interval, for any BCR Eligible Resource, the

positive amount, if any, resulting from the difference between its RTM

Bid Cost and its RTM Market Revenue.

RTM Bid Cost Uplift The system-wide net of the RTM Bid Cost Shortfalls and RTM Bid Cost

Surpluses for a Settlement Interval of all BCR Eligible Resources with Unrecovered Bid Cost Uplift Payments. This amount will be netted according to Section 11.8.6.2 to calculate the Net RTM Bid Cost Uplift

before allocation to Scheduling Coordinators.

RTM Commitment Period A Commitment Period determined by the RTM; provided that if the RTM

changes the Commitment Status of units scheduled in the IFM or committed in the RUC, an RTM Commitment Period may or may not partially overlap with IFM Commitment Period and RUC Commitment

Period.

RTMD Real-Time Manual Dispatch

RTM Marginal Cost of Losses Credit for Eligible TOR Self-Schedules A credit provided to Scheduling Coordinators pursuant to Section 17.3.3

to offset any HASP and RTM Marginal Cost of Losses that would

otherwise be applied to the valid and balanced portions of any TOR Self-

Schedule in the IFM as provided in Section 11.5.7.2.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 937 Superseding Original Sheet No. 937

RTM Market Revenue The amount received by BCR Eligible Resource from Energy scheduled

and Ancillary Services awarded in the RTM for the purposes of Bid Cost

Recovery.

RTM Pumping Bid Cost Real-Time Market Pumping Bid Cost

RTM Self-Commitment

Period

A time period determined by the CAISO for the purposes of deriving any

Bid Cost Recovery amounts, related to the RTM.

RTUC Real-Time Unit Commitment
RUC Residual Unit Commitment

RUC Availability Bid The quantity (MW) and price (\$/MW per hour) at or above which a

Generating Unit, System Resource, System Unit or Participating Load has agreed to sell capacity for a specified interval of time to the CAISO

to meet the Residual Unit Commitment requirement.

RUC Availability Bid Cost As provided in Section 11.8.3.1.3, the product of the RUC Award and

the relevant RUC Availability Bid price, divided by the number of

Settlement Intervals in a Trading Hour.

RUC Availability Payment
The payment made for the RUC Availability Quantity as specified in

Section 11.2.2.1.

RUC Availability Quantity A RUC Award (MW) excluding any RUC Capacity that is actually

unavailable due to a unit derate or Outage.

RUC Award The portion of the RUC Capacity from resources eligible to receive RUC

Availability Payments, exclusive of Minimum Load, capacity designated

as RMR, and capacity under resource adequacy requirements as

specified in Section 40.

RUC Bid CostThe total Bid Costs associated with commitment by the CAISO through

the RUC process used for determination of Unrecovered Bid Cost Uplift

Payments and RUC Bid Cost Uplift allocation.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

RUC Bid Cost Shortfall For each Settlement Interval, for any BCR Eligible Resource, the

negative amount, if any, resulting from the difference between its RUC

Bid Cost and its RUC Market Revenue.

RUC Bid Cost Surplus For each Settlement Interval, for any BCR Eligible Resource, the

positive amount, if any, resulting from the difference between its RUC

Bid Cost and its RUC Market Revenue.

RUC Bid Cost Uplift The system-wide net of the RUC Bid Cost Shortfalls and RUC Bid Cost

> Surpluses for a Settlement Interval for all BCR Eligible Resources with Unrecovered Bid Cost Uplift Payments. This amount will be netted according to Section 11.8.6.2 to calculate the Net RUC Bid Cost Uplift

before allocation to Scheduling Coordinators.

RUC Capacity The positive difference between the RUC Schedule and the greater of

the Day-Ahead Schedule and the Minimum Load level of a resource.

RUC Commitment Period A Commitment Period determined by the RUC; provided that because

> the RUC may not decommit units scheduled in the IFM, if the unit is scheduled by the IFM within that Time Period an IFM Commitment Period is always within a RUC Commitment Period; and a RUC

Commitment Period may start earlier and/or may end later than an IFM Commitment Period if RUC issues an earlier Start-Up Instruction and/or

later Shut-Down Instruction than the IFM, respectively.

RUC Compensation The payment to Scheduling Coordinators with RUC Awards, calculated

as the sum of RUC Availability Payment and RUC Unrecovered Bid

Costs.

RUC Compensation Cost As provided in Section 11.8.6.5, for each Trading Hour of the RUC, the

sum of the RUC Availability Payment and the hourly Net RUC Bid Cost

Uplift, which is allocated as provided in Section 11.8.6.5.3.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Original Sheet No. 939

RUC Market Revenues The sum of a resource's RUC Availability Payment for a Trading Hour

divided by the number of Settlement Intervals in a Trading Hour or the

purposes of calculating Bid Cost Recovery for RUC.

RUC Price The price calculated by the RUC optimization for each Trading Hour of

the next Trading Day which reflects the price (\$/MW per hour) for the next increment of RUC Capacity at a specified PNode for each Trading

Hour.

RUC Schedule The total MW per hour amount of capacity committed by RUC including

the MW per hour amounts committed in the Day-Ahead Schedule.

RUC Zone A forecast region representing a UDC or MSS Service Area, Local

Capacity Area, or other collection of Nodes for which the CAISO has developed sufficient historical CASIO Demand and relevant weather data to perform a Demand Forecast for such area, for which as further provided in Section 31.5.3.7 the CAISO may adjust the CAISO Forecast of CAISO Demand to ensure that the RUC process produces adequate

local capacity procurement.

Rules of Conduct The rules set forth in Sections 37.2 through 37.7.

Sanction A consequence specified in Section 37 for the violation of a Rule of

Conduct, which may include a) a warning letter notifying the Market Participant of the violation and future consequences specified under Section 37 if the behavior is not corrected, or b) financial penalties. Neither referral to FERC nor rescission of payment for service not

provided shall constitute a Sanction.

SC Scheduling Coordinator

SCA Scheduling Coordinator Agreement

SCADA Supervisory Control and Data Acquisition
SCED Security Constrained Economic Dispatch

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FERC ELECTRIC TARIFF

Superseding Original Sheet No. 940 FOURTH REPLACEMENT VOLUME NO. I

A Day-Ahead Schedule, a HASP Advisory Schedule, or a HASP Intertie **Schedule**

Schedule.

Scheduled Demand The MW of Energy of Demand cleared through the IFM and set in the

Day-Ahead Schedule for the next Trading Day.

Scheduled Generation The MW of Energy of Generation cleared through the IFM and set in the

Day-Ahead Schedule for the next Trading Day.

Scheduling and Logging system for the CAISO

(SLIC)

A logging application that allows Market Participants to notify the CAISO when a Generating Unit's properties change due to physical problems. Users can modify the maximum and minimum output of a unit, as well as

Substitute First Revised Sheet No. 940

the Ramping capability of the unit.

Scheduling Coordinator (SC)

An entity certified by the CAISO for the purposes of undertaking the

functions specified in Section 4.5.3.

Scheduling Coordinator Agreement (SCA)

An agreement between a Scheduling Coordinator and the CAISO whereby the Scheduling Coordinator agrees to comply with all CAISO rules, protocols and instructions, as those rules, protocols and instructions may be amended from time to time, a pro forma version of

which is set forth in Appendix B.1.

Scheduling Coordinator Applicant

An applicant for certification by the CAISO as a Scheduling Coordinator.

Scheduling Coordinator Application Form

The form specified by the CAISO from time to time in which a Scheduling Coordinator Applicant must apply to the CAISO for certification as a Scheduling Coordinator.

Scheduling Coordinator Customer

A customer of the Scheduling Coordinator Applicant or a Scheduling Coordinator for whom the Scheduling Coordinator provides services relevant to the CAISO Controlled Grid.

Scheduling Coordinator Estimated Settlement Quality Meter Data

Settlement Quality Meter Data estimated and submitted by the Scheduling Coordinators on behalf of Scheduling Coordinator Metered

Entities.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 941 Superseding Original Sheet No. 941

Scheduling Coordinator ID Code (SCID)

The Bid component that indicates the individual identification Code

provided by the CAISO to the Scheduling Coordinator.

Scheduling Coordinator Metered Entity A Generator, Eligible Customer or End-User that is not a CAISO

Metered Entity.

Scheduling Point A location at which the CAISO Controlled Grid or a transmission facility

owned by a Transmission Ownership Right holder is connected, by a group of transmission paths for which a physical, non-simultaneous transmission capacity rating has been established for Congestion Management, to transmission facilities that are outside the CAISO's

Operational Control.

SCID Scheduling Coordinator ID Code

Scoping Meeting The meeting among representatives of the Interconnection Customer,

the applicable Participating TO, and the CAISO conducted for the

purpose of discussing alternative interconnection options, to exchange

information including any transmission data and earlier study evaluations that would be reasonably expected to impact such

interconnection options, to analyze such information, and to determine

the potential feasible Points of Interconnection.

SCUC Security Constrained Unit Commitment

Seasonal Available CRR

Capacity

The upper limit of network capacity that will be used in the annual CRR Allocation and annual CRR Auction calculated by effectively reducing OTC for Transmission Ownership Rights as if all lines will be in service

for the relevant year in accordance with Section 36.4.

Seasonal CRR A Congestion Revenue Right that is valid for one season and one time-

of-use period in a given year.

Seasonal CRR Eligible

Quantity

The MW quantity of CRRs a CRR Holder or Candidate CRR Holder is eligible to nominate for a specific season and time of use period in the

annual CRR Allocation.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Seasonal CRR Load Metric

The MW level of Load that is exceeded only in .05 percent of the hours for each season and time of use period based on the LSE's historical Load.

Secondary Registration System

The computer interface through which CRR Holders and Candidate CRR Holders register any bilateral CRR transactions with the CAISO. An algorithm performed by a computer program that simultaneously clears Energy Supply Bids, including Self-Schedules, against Demand Forecast to determine Dispatch Instructions.

Security Constrained Economic Dispatch (SCED)

Security Constrained Unit Commitment (SCUC)

An algorithm performed by a computer program over a multi-hour Time Horizon that determines the Commitment Status and Day-Ahead Schedules, AS Awards, RUC Awards, HASP Intertie Schedules and Dispatch Instructions for selected resources and minimizes production costs (Start-Up, Minimum Load and Energy Bid Costs in IFM, HASP and RTM; Start-Up, Minimum Load and RUC Availability Bid Costs) while respecting the physical operating characteristics of selected resources and transmission Constraints.

Security Monitoring

The real-time assessment of the CAISO Controlled Grid that is conducted to ensure that the system is operating in a secure state, and in compliance with all Applicable Reliability Criteria.

Self-Commitment Period

The portion of a Commitment Period of a unit with an Energy Self-Schedule or a Submission to Self-Provide an Ancillary Services, except for Non-Spinning Reserve self-provision by a Fast Start Unit. The Self-Commitment Period may include Time Periods without Energy Self-Schedules or AS self-provision if it is determined by inference that the unit must be on due to Minimum Run Time, Minimum Down Time, or Maximum Daily Start-Up constraints.

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Issued on: December 21, 2007

Self-Provided Ancillary Services

A Submission to Self-Provide Ancillary Services in the Day-Ahead Market, HASP, or Real-Time Market that has been accepted by the CAISO. Acceptance will occur prior to Ancillary Service Bid evaluation in the relevant market and indicates that the CAISO has determined the submission is feasible with regard to resource operating characteristics and regional constraints and is qualified to provide the Ancillary Service in the market for which it was submitted. Self-Provided Ancillary Services consist of self-provided Regulation Up reserves, self-provided Regulation Down reserves, self provided Spinning Reserves, and selfprovided Non-Spinning Reserves.

Self-provided Load

The portion of Load that is served by a Net Scheduled QF listed in a QF PGA, consistent with Section 218(b) of the California Public Utilities Code.

Self-Schedule

The Bid component that indicates the quantities in MWhs with no specification of a price that the Scheduling Coordinator is submitting to the CAISO, which indicates that the Scheduling Coordinator is a Price Taker, Regulatory Must-Run Generation or Regulatory Must-Take Generation, which includes ETC and TOR Self-Schedules and Self-Schedules for Converted Rights.

Service Area

An area in which an IOU or a Local Publicly Owned Electric Utility is obligated to provide electric service to End-Use Customers.

Set Point

Scheduled operating level for each Generating Unit or other resource scheduled to run in the HASP Schedule and HASP Awards.

Settlement

Process of financial settlement for products and services purchased and sold undertaken by the CAISO under Section 11. Each Settlement will involve a price and a quantity.

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Settlement Account An account held at a bank situated in California, designated by a

Scheduling Coordinator, a CRR Holder or a Participating TO pursuant to the Scheduling Coordinator's Scheduling Coordinator Agreement, the CRR Holder's CRR Entity Agreement or in the case of a Participating TO, Section 2.2.1 of the Transmission Control Agreement, to which the CAISO shall pay amounts owing to the Scheduling Coordinator, the

CRR Holder or the Participating TO under the CAISO Tariff.

Settlement Interval The time period equal to or a multiple of the Dispatch Interval, over

which the CAISO settles cost compensation amounts or deviations in

Generation and Demand in CAISO Markets.

Settlement Interval Penalty Location Real-Time LMP The optimal Instructed Imbalance Energy weighted average of the individual Dispatch Interval Real-Time LMPs for the resources in a UDP

Aggregation established pursuant to Appendix R.

Settlement Period For all CAISO transactions the period beginning at the start of the hour,

and ending at the end of the hour. There are twenty-four Settlement Periods in each Trading Day, with the exception of a Trading Day in

which there is a change to or from daylight savings time.

Settlement Quality Meter

Data

Meter Data gathered, edited, validated, and stored in a settlement-ready

format, for Settlement and auditing purposes.

Settlement Quality Meter Data Systems (SQMDS)

A collective name for the set of CAISO systems used to accept, analyze

and report on Settlement Quality Meter Data.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. I

Substitute Fourth Revised Sheet No. 945 Superseding Third Revised Sheet No. 945

Settlements, Metering, and Client Relations Charge

The component of the Grid Management Charge that provides for the recovery of the CAISO's costs, including, but not limited to the costs of maintaining customer account data, providing account information to customers, responding to customer inquiries, calculating market charges, resolving customer disputes, and the costs associated with the CAISO's Settlement, billing, and metering activities. Because this is a fixed charge per Scheduling Coordinator ID, costs associated with activities listed above also are allocated to other charges under the Grid Management Charge according to formula set forth in Appendix F, Schedule 1, Part A.

Settlement Statement

Any one of the following: Initial Settlement Statement T+7B,
Recalculation Settlement Statement T+38B, Recalculation Settlement
Statement T+76B, Recalculation Settlement Statement T+18M,
Recalculation Settlement Statement T+35M, Recalculation Settlement
Statement T+36M, or any other Recalculation Settlement Statement
authorized by the CAISO Governing Board.

SFT

Simultaneous Feasibility Test

Shadow Price

The marginal value of relieving a particular Constraint.

Short Start Unit

A Generating Unit that has a cycle time less than five hours (Start-Up Time plus Minimum Run Time is less than five hours), has a Start-Up Time less than two hours, and can be fully optimized with respect to this cycle time.

Short-Term Unit Commitment (STUC)

The Unit Commitment procedure run at approximately T-52.5 minutes for a Time Horizon of approximately five (5) hours. The STUC determines whether some Medium Start Units need to be started early enough to meet the Demand within the STUC Time Horizon using the CAISO Forecast of CAISO Demand. The STUC produces a Unit Commitment solution for every 15-minute interval within the STUC Time Horizon and issues binding Start-Up Instructions only as necessary.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 946 Superseding Original Sheet No. 946

Shut-Down A Commitment Status transition from On to Off.

Shut-Down Cost The Bid Component submitted by the Scheduling Coordinator indicating

a single price at which the resource is willing to Shut-Down.

Shut-Down Instruction An instruction issued by the CAISO to a resource to Shut-Down.

Simultaneous Feasibility

Test (SFT)

The process that the CAISO will conduct to ensure that allocated and auction CRRs do not exceed relevant transmission system Constraints as described in Section 36.4.2 and further described in the Business

Practice Manuals.

Site Control Documentation reasonably demonstrating: (1) ownership of, a leasehold

interest in, or a right to develop a site for the purpose of constructing the Generating Facility; (2) an option to purchase or acquire a leasehold site for such purpose; or (3) an exclusivity or other business relationship between Interconnection Customer and the entity having the right to sell,

lease or grant Interconnection Customer the right to possess or occupy

a site for such purpose.

Site Exclusivity Documentation reasonably demonstrating:

(1) For private land:

- (a) Ownership of, a leasehold interest in, or a right to develop property upon which the Generating Facility will be located consisting of a minimum of 50% of the acreage reasonably necessary to accommodate the Generating Facility; or
- (b) an option to purchase or acquire a leasehold interest in property upon which the Generating Facility will be located consisting of a minimum of 50% of the acreage reasonably necessary to accommodate the Generating Facility.
- (2) For public land, including that controlled or managed by any federal, state or local agency, a final, non-appealable permit, license, or other right to use the property for the purpose of generating electric power and in acreage reasonably necessary to accommodate the Generating Facility, which exclusive right to use public land under the management of the federal Bureau of Land Management shall be in a form specified by the Bureau of Land Management.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 946A

Site Exclusivity Deposit The cash depos

The cash deposit provided to the CAISO by Interconnection Customers under LGIP Section 3.5.1 set forth in Appendix Y as an option in lieu of demonstrating Site Exclusivity for a valid Interconnection Request and treated in accordance with LGIP Section 3.5.1.4 set forth in Appendix Y.

SLIC Scheduling and Logging system for the CAISO

Small Generating Facility A Generating Facility that has a Generating Facility Capacity of no more

than 20 MW.

Small Utility Distribution Company (SUDC)

An entity that owns a Distribution System that is capable of transmitting or delivery of Energy to and/or from the CAISO Controlled Grid that provides retail electric service to End-Use Customers, and has the following characteristics:

- 1. Annual peak Demand is 25 MW or less;
- 2. The Distribution System is not in a local reliability area defined by the CAISO; and
- Good Utility Practice was used in designing all substation facilities that are owned or operated by the entity and interconnected to the CAISO Controlled Grid, and none of those substations have transmission circuit breakers.

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FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 947 Superseding Original Sheet No. 947

Small Utility Distribution Company Operating Agreement (SUDC Operating Agreement) An agreement between the CAISO and an SUDC, a pro forma version of which is set forth in Appendix B.10.

SMEC

System Marginal Energy Cost

Special Protection System (SPS)

An automatic protection system designed to detect abnormal or predetermined system conditions, and take corrective actions other than and/or in addition to the isolation of faulted components to maintain System Reliability. Such action may include changes in Demand, Generation (MW and MVar), or system configuration to maintain system stability, acceptable voltage, or power flows. An SPS does not include (a) Underfrequency Load Shedding or undervoltage Load Shedding or (b) fault conditions that must be isolated or (c) out-of-step relaying (not designed as an integral part of an SPS). An SPS is also sometimes

called a Remedial Action Scheme.

Spinning Reserve

The portion of unloaded synchronized generating capacity that is immediately responsive to system frequency and that is capable of being loaded in ten minutes, and that is capable of running for at least two hours.

Spinning Reserve Cost

The revenues paid to the suppliers of the total awarded Spinning Reserve capacity in the Day-Ahead Market, HASP, and Real-Time Market for the Settlement Period, minus the payments rescinded in the Settlement Period due to the unavailability of the Spinning Reserve under any of the provisions of Section 8.10.2.

Spinning Reserve Obligations

The obligation of a Scheduling Coordinator to pay its share of costs

incurred by the CAISO in procuring Spinning Reserve.

SPS Special Protection System

SQMDS Settlement Quality Meter Data Systems

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 948 Superseding First Revised Sheet No. 948

Stand Alone Network Upgrades

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

Standard Large Generator Interconnection Agreement (LGIA) The form of interconnection agreement applicable to an Interconnection Request pertaining to a Large Generating Facility, a *pro forma* version of which is set forth in Appendix V.

Standard Large Generator Interconnection Procedures (LGIP)

The interconnection procedures applicable to an Interconnection Request pertaining to a Large Generating Facility that is set forth in Appendix U.

Standard Ramp (-ing)

A ramp calculated from two consecutive Day-Ahead Schedules that results in a straight trajectory between 10 minutes before the start of a Trading Hour to 10 minutes after the start of the Trading Hour.

Standard Ramping Energy

Imbalance Energy produced or consumed in the first two and the last two Dispatch Intervals due to hourly schedule changes. Standard Ramping Energy is a schedule deviation along a linear symmetric twenty (20)-minute ramp (Standard Ramp) across hourly boundaries. Standard Ramping Energy is always present when there is an hourly schedule change, including resource Start-Ups and Shut-Downs. Standard Ramping Energy does not apply to Non-Dynamic System Resources (including Resource-Specific System Resources) and is not subject to Settlement as described in Section 11.5.1.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

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Standby Rate A rate assessed a Standby Service Customer by the Participating TO

that also provides retail electric service, as approved by the Local

Regulatory Authority, or FERC, as applicable, for Standby Service which compensates the Participating TO, among other things, for costs of High

Voltage Transmission Facilities.

Standby Service Service provided by a Participating TO that also provides retail electric

> service, which allows a Standby Service Customer, among other things, access to High Voltage Transmission Facilities for the delivery of backup power on an instantaneous basis to ensure that Energy may be reliably delivered to the Standby Service Customer in the event of an Outage of

a Generating Unit serving the customer's Load.

Standby Service Customer

A retail End-Use Customer of a Participating TO that also provides retail electric service that receives Standby Service and pays a Standby Rate.

Standby Transmission

Revenue

The transmission revenues, with respect to cost of both High Voltage

Transmission Facilities and Low Voltage Transmission Facilities, collected directly from Standby Service Customers through charges for

Standby Service.

Start-Up A Commitment Status transition from Off to On.

Start-Up Bid The Bid component that indicates the Start-Up Time and Start-Up Cost

> curves for the Generating Unit, which applies for the entire Trading Day for which it is submitted. Start-Up Cost curves are strictly monotonically increasing non-negative staircase curves, up to three segments, which

represent a function of Start-Up Cost versus down time.

Start-Up Cost The cost incurred by a particular Generating Unit during Start-Up from

> the time of first fire, the time of receipt of a CAISO Dispatch Instruction, or the time the unit was last synchronized to the grid, whichever is later, until the time the Generating Unit reaches its minimum operating level.

Start-Up Instruction An instruction issued by the CAISO to a resource to Start-Up.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

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Start-Up Time The time period required for a resource to go from Off to its Minimum

Load.

State Commission The regulatory body of a State having jurisdiction to regulate rates and

charges for the sale of electric energy to consumers within the State.

State Estimator A computer software program that provides the CAISO with a near Real-

Time assessment of system conditions within the CAISO Balancing

Authority Area, including portions of the CAISO Balancing Authority Area

where Real-Time information is unavailable.

Station Power Energy for operating electric equipment, or portions thereof, located on

the Generating Unit site owned by the same entity that owns the

Generating Unit, which electrical equipment is used exclusively for the

production of Energy and any useful thermal energy associated with the

production of Energy by the Generating Unit; and for the incidental

heating, lighting, air conditioning and office equipment needs of buildings, or portions thereof, that are owned by the same entity that

owns the Generating Unit; located on the Generating Unit site; and used

exclusively in connection with the production of Energy and any useful

thermal energy associated with the production of Energy by the

Generating Unit. Station Power includes the Energy associated with motoring a hydroelectric Generating Unit to keep the unit synchronized

at zero real power output to provide Regulation or Spinning Reserve.

Station Power does not include any Energy used to power synchronous

condensers; used for pumping at a pumped storage facility; or provided

during a Black Start procedure. Station Power does not include Energy

to serve loads outside the CAISO Balancing Authority Area.

Station Power Portfolio One or more generating resources eligible to self-supply Station Power,

including Generating Units in the CAISO Balancing Authority Area, and

generating facilities outside the CAISO Balancing Authority Area, all of

which are owned by the same entity.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 951

STUC Short-Term Unit Commitment

Study Plan The plan to be developed pursuant to Section 24.2.1, which sets forth

the technical studies to be performed during the annual Transmission

First Revised Sheet No. 951

Planning Process.

Sub-LAP A CAISO defined subset of PNodes within a Default LAP.

Submission to Self-Provide an Ancillary

Service

A submission to the CAISO containing all of the bidding requirements for

an Ancillary Service with the exception of price information.

Sub-Region A region identified by the CAISO for procurement of Ancillary Services

within the System Region.

SUDC Small Utility Distribution Company.

SUDC Operating Agreement Small Utility Distribution Company Operating Agreement

Supervisory Control and Data Acquisition (SCADA)

A computer system that allows an electric system operator to remotely

monitor and control elements of an electric system.

Supply The Energy delivered from a Generating Unit, System Unit, Physical

Scheduling Plant, System Resource or the Curtailable Demand provided

by a Participating Load.

Supply Plan A submission by a Scheduling Coordinator for a Resource Adequacy

Resource in order to satisfy the requirements of Section 40.

System Emergency Conditions beyond the normal control of the CAISO that affect the ability

of the CAISO Balancing Authority Area to function normally, including any abnormal system condition which requires immediate manual or automatic action to prevent loss of Load, equipment damage, or tripping

of system elements which might result in cascading Outages or to restore system operation to meet Applicable Reliability Criteria.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 952 Superseding Original Sheet No. 952

System Marginal Energy Cost (SMEC)

The component of the LMP that reflects the marginal cost of providing

Energy from a designated reference Location.

System Planning Studies

Reports summarizing studies performed to assess the adequacy of the

CAISO Controlled Grid as regards conformance to Reliability Criteria.

System Region

The CAISO Balancing Authority Area.

System Reliability

A measure of an electric system's ability to deliver uninterrupted service

at the proper voltage and frequency.

System Resource

A group of resources, single resource, or a portion of a resource located outside of the CAISO Balancing Authority Area, or an allocated portion of a Balancing Authority Area's portfolio of generating resources that are either a static Interchange schedule or directly responsive to that Balancing Authority Area's Automatic Generation Control (AGC) capable of providing Energy and/or Ancillary Services to the CAISO Balancing Authority Area, provided that if the System Resource is providing

Regulation to the CAISO it is directly responsive to AGC.

System Unit

One or more individual Generating Units and/or Loads within a Metered Subsystem controlled so as to simulate a single resource with specified performance characteristics, as mutually determined and agreed to by the MSS Operator and the CAISO. The Generating Units and/or Loads making up a System Unit must be in close physical proximity to each other such that the operation of the resources comprising the System Unit does not result in significant differences in flows on the CAISO

Controlled Grid.

TAC Transmission Access Charge

TAC Area Transmission Access Charge Area

TAC Benefit The amount, if any, for each year by which the cost of Existing High

Voltage Transmission Facilities associated with deliveries of Energy to

Gross Loads in the PTO Service Territory is reduced by the

implementation of the High Voltage Access Charge described in

Schedule 3 to Appendix F. The TAC Benefit of a New Participating TO

shall not be less than zero.

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TAC Transition Date January 1, 2001, the date described in Section 4.2 of Appendix F,

Schedule 3, when the first New Participating TO's execution of the

Transmission Control Agreement took effect, which established the start of the TAC Transition Period for the calculation of the Access Charge.

TAC Transition Period The 10-year transition period for the CAISO's Access Charge

methodology commencing January 1, 2001 through December 31, 2010.

Take-Out Point The metering points at which a Scheduling Coordinator Metered Entity

or CAISO Metered Entity takes delivery of Energy.

Tangible Net Worth For Rated or Unrated Public/Private Corporations, as defined in Step

4(a) of Section 12.1.1.1.2.

Tax Exempt Debt Municipal Tax Exempt Debt or Local Furnishing Bonds.

Tax Exempt Participating

TO

A Participating TO that is the beneficiary of outstanding Tax Exempt

Debt issued to finance any electric facilities, or rights associated

therewith, which are part of an integrated system including transmission facilities the Operational Control of which is transferred to the CAISO

pursuant to the Transmission Control Agreement.

TCA Transmission Control Agreement

TEA Transmission Exchange Agreement

Third Party Supply Energy that is deemed to have been purchased from third parties to

supply Station Power Load during the Netting Period.

Tie Point Meter A revenue meter, which is capable of providing Settlement Quality Meter

Data, at a Scheduling Point or at a boundary between Utility Distribution

Companies within the CAISO Controlled Grid.

Tier 1 UIE The quantity of Uninstructed Deviation from the resource's Instructed

Imbalance Energy.

Tier 2 UIE The quantity of Uninstructed Deviation from the resource's Day-Ahead

Schedule.

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

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Tier LT The tier of the annual CRR Allocation process through which the CAISO

allocates Long Term CRRs.

Time Horizon The time period to which a given CAISO Market optimization process

applies. For the IFM and RUC the Time Horizon consists of each

Trading Hour of the next Trading Day. For the HASP, the Time Horizon is 1.75 Trading Hours in fifteen-minute increments. For STUC the Time Horizon is 4.25 Trading Hours in fifteen-minute increments. For RTUC the Time Horizon is a variable number of fifteen-minute intervals that runs every fifteen minutes and covers 4 to 7 intervals. For the RTD, the Time Horizon is seven five-minute intervals span over thirty-five minutes.

Time Period The period of time for Scheduling or Dispatch activities, which is a

Trading Hour in the DAM and a Dispatch Interval in the RTM.

TO Transmission Owner

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Original Sheet No. 955

Tolerance Band

The permitted area of variation for performance requirements of resources used for various purposes as further provided in the CAISO Tariff. The Tolerance Band is expressed in terms of Energy (MWh) for Generating Units, System Units and imports from Dynamic System Resources for each Settlement Interval and equals the greater of the absolute value of: (1) five (5) MW divided by number of Settlement Intervals per Settlement Period or (2) three percent (3%) of the relevant Generating Unit's, Dynamic System Resource's or System Unit's maximum output (PMax), as registered in the Master File, divided by number of Settlement Intervals per Settlement Period. The maximum output (PMax) of a Dynamic System Resource will be established by agreement between the CAISO and the Scheduling Coordinator representing the Dynamic System Resource on an individual case basis, taking into account the number and size of the generating resources, or allocated portions of generating resources, that comprise the Dynamic System Resource.

The Tolerance Band is expressed in terms of Energy (MWh) for Participating Loads for each Settlement Interval and equals the greater of the absolute value of: (1) five (5) MW divided by number of Settlement Intervals per Settlement Period or (2) three percent (3%) of the applicable HASP Intertie Schedule or CAISO Dispatch amount divided by number of Settlement Intervals per Settlement Period. The Tolerance Band shall not be applied to Non-Dynamic System Resources.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II Original Sheet No. 956

TOR Transmission Ownership Right

TOR Self-Schedule A Self-Schedule submitted by a Scheduling Coordinator pursuant to

Transmission Ownership Rights as reflected in the TRTC Instructions.

Total CAISO Markets

Uplift

The sum of the Net IFM Bid Cost Uplift, the Net RUC Bid Cost Uplift,

and the Net RTM Bid Cost Uplift, for all Settlement Intervals in the IFM,

RUC and RTM.

Total Import CapabilityThe aggregate Maximum Import Capability of all Interties into the CAISO

Balancing Authority Area in MW deliverable to the CAISO Balancing Authority Area based on CAISO study criteria minus the aggregate sum in MW of all Existing Contracts and Transmission Ownership Rights held

by load serving entities that do not serve Load within the CAISO

Balancing Authority Area.

Total Positive CAISO Markets Uplift

The sum of the positive IFM Bid Cost Uplift, positive RUC Bid Cost Uplift and positive RTM Bid Cost Uplift, for all Settlement Intervals in the IFM,

RUC and RTM.

Total Transfer Capability

(TTC)

The amount of power that can be transferred over an interconnected

transmission network in a reliable manner while meeting all of a specific set of defined pre Contingency and post Contingency system conditions.

Trading DayThe twenty-four hour period for which any given DAM or RTM is

executed and settled, beginning at the start of the hour ending 0100 and ending at the end of the hour ending 2400 daily, except where there is a

change to and from daylight savings time. For any given DAM, the

Trading Day will be the next Operating Day following the Operating Day during which that DAM is executed. For any given RTM, the Trading

Day will be the same Operating Day during which that RTM is executed.

Trading Hour Any hour during which trades are conducted in a CAISO Market.

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FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

First Revised Sheet No. 957 Superseding Original Sheet No. 957

Trading Hub An aggregation of network Pricing Nodes, such as Existing Zone

Generation Trading Hubs, maintained and calculated by the CAISO for settlement and trading purposes posted by the CAISO on its CAISO

Website.

Trading Interval A Settlement Period.

Trading MonthThe period beginning at the start of the hour ending 0100 and ending at

the end of the hour ending 2400 for each calendar month, except where there is a change to and from daylight savings time on the first or last

day of a month.

Transformer and Line Loss Correction Factor

The transformer and line loss correction factor as set forth in the

applicable Business Practice Manual or Technical Specifications to be applied to revenue quality meters of CAISO Metered Entities which are

installed on the low voltage side of step-up transformers.

Transition Charge The component of the Access Charge collected by the CAISO with the

High Voltage Access Charge in accordance with Section 5.7 of

Appendix F, Schedule 3.

Transmission Access

Charge (TAC)

Access Charge

Transmission Access Charge Area (TAC Area)

A portion of the CAISO Controlled Grid with respect to which

Participating TOs' High Voltage Transmission Revenue Requirements are recovered through a High Voltage Access Charge. TAC Areas are

listed in Section 3 of Schedule 3 of Appendix F.

Transmission Control Agreement (TCA)

The agreement between the CAISO and Participating TOs establishing the terms and conditions under which TOs will become Participating TOs and how the CAISO and each Participating TO will discharge their respective duties and responsibilities, as may be modified from time to

time.

Issued by: Laura Manz, Vice President, Market and Infrastructure Development

Transmission Exchange Agreement (TEA)

The agreement among the CAISO, Western Area Power Administration and Pacific Gas and Electric Company establishing the terms and conditions of the treatment of Western Area Power Administration's interests in the Pacific AC Intertie, which agreement was originally accepted by FERC in Docket No. ER04-688.

Transmission Interface

A CAISO-defined set of transmission facilities that comprise an important transmission corridor for Energy or capacity.

Transmission Losses

Energy that is lost as a natural part of the process of transmitting Energy from Generation to Load delivered at the CAISO/Utility Distribution Company boundary or Balancing Authority Area boundary.

Transmission Losses Charge

The charge for Transmission Losses based on the Marginal Cost of

Losses at the Pricing Node.

Transmission Owner (TO)

An entity owning transmission facilities or having firm contractual rights

to use transmission facilities.

Transmission Ownership Right (TOR)

The ownership or joint ownership right to transmission facilities within the CAISO Balancing Authority Area of a Non-Participating TO that has not executed the Transmission Control Agreement, which transmission facilities are not incorporated into the CAISO Controlled Grid.

Transmission Owner Tariff (TO Tariff)

A tariff setting out a Participating TO's rates and charges for

transmission access to the CAISO Controlled Grid and whose other terms and conditions are the same as those contained in the document referred to as the Transmission Owners Tariff approved by FERC as it

may be amended from time to time.

Transmission Plan The report prepared by the CAISO on annual basis pursuant to Section

24, which documents the outcome of the Transmission Planning

Process as defined in the Study Plan.

Transmission Planner A designation by NERC regarding responsibility to perform specified

transmission planning functions in accordance with the NERC Reliability

Standards.

Transmission Planning Process

The process by which the CAISO assesses the CAISO Controlled Grid

as set forth in Section 24.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

Superseding First Revised Sheet No. 959

Second Revised Sheet No. 959

Transmission Reliability Margin (TRM)

FOURTH REPLACEMENT VOLUME NO. II

A factor described in Appendix L.

Transmission Revenue Balancing Account (TRBA)

A mechanism to be established by each Participating TO which will ensure that all Transmission Revenue Credits and other credits specified in Sections 6, 8, and 13 of Appendix F, Schedule 3, flow through to transmission customers.

Transmission Revenue Credit

For an Original Participating TO, the proceeds received from the CAISO for Wheeling service, plus (a) the revenues received from any LCRIG with respect to an LCRIF, unless FERC has approved an alternative mechanism to credit such revenues against the Original Participating TO's TRR, and (b) the shortfall or surplus resulting from any cost differences between Transmission Losses and Ancillary Service requirements associated with Existing Rights and the CAISO's rules and protocols, minus any Low Voltage Access Charge amounts paid for the use of the Low Voltage Transmission Facilities of a Non-Load-Serving Participating TO pursuant to Section 26.1 and Appendix F, Schedule 3, Section 13. For a New Participating TO during the 10-year TAC Transition Period described in Section 4 of Schedule 3 of Appendix F, the revenues received from the CAISO for Wheeling service and IFM Congestion Credit pursuant to Section 4.3.1.2, plus (a) the revenues received from any LCRIG with respect to an LCRIF, unless FERC has approved an alternative mechanism to credit such revenues against the New Participating TO's TRR, and (b) the shortfall or surplus resulting from any cost differences between Transmission Losses and Ancillary Service requirements associated with Existing Rights and the CAISO's rules and protocols, minus any Low Voltage Access Charge amounts paid for the use of the Low Voltage Transmission Facilities of a Non-Load-Serving Participating TO pursuant to Section 26.1 and Appendix F, Schedule 3, Section 13. After the 10-year TAC Transition Period, the New Participating TO Transmission Revenue Credit shall be calculated the same as the Transmission Revenue Credit for the Original Participating TO.

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First Revised Sheet No. 960 Superseding Original Sheet No. 960

Transmission Revenue Requirement (TRR)

The Transmission Revenue Requirement is the total annual authorized revenue requirements associated with transmission facilities and Entitlements turned over to the Operational Control of the CAISO by a Participating TO. The costs of any transmission facility turned over to the Operational Control of the CAISO shall be fully included in the Participating TO's Transmission Revenue Requirement. The Transmission Revenue Requirement includes the costs of transmission facilities and Entitlements and deducts Transmission Revenue Credits and credits for Standby Transmission Revenue and the transmission revenue expected to be actually received by the Participating TO for

Transmission Rights and Transmission Curtailment (TRTC) Instructions Operational directives developed (i) between Existing Rights holders and holders of Converted Rights and the Participating TO, submitted to the CAISO by the Participating TO, unless otherwise agreed to by the Participating TO and the Existing Rights or Converted Rights holder, and (ii) by TOR holders, to facilitate the accommodation of Existing Rights, Converted Rights, and TORs in the CAISO Markets.

TRBA Transmission Revenue Balancing Account

Trial Operation The period during which Interconnection Customer is engaged in on-site

Existing Rights and Converted Rights.

test operations and commissioning of a Generating Unit prior to

The trustee of the California Independent System Operator trust

Commercial Operation.

TRM Transmission Reliability Margin

TRR Transmission Revenue Requirement

TRTC Instructions Transmission Rights and Transmission Curtailment Instructions

established by order of the California Public Utilities Commission on August 2, 1996 Decision No. 96-08-038 relating to the Ex Parte Interim

Approval of a Loan Guarantee and Trust Mechanism to Fund the Development of an Independent System Operator (ISO) and a Power

Exchange (PX) pursuant to Decision 95-12-063 as modified.

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Trustee

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FERC ELECTRIC TARIFF
FOURTH REPLACEMENT VOLUME NO. II

Second Revised Sheet No. 961

Superseding First Revised Sheet No. 961

TTC Total Transfer Capability

UDC Utility Distribution Company

UDCOA Utility Distribution Company Operating Agreement

UDP Uninstructed Deviation Penalty

UDP AggregationTwo or more units scheduled by the same Scheduling Coordinator with

the same Resource ID that are to be considered interchangeable for

calculating the Uninstructed Deviation Penalty.

UFE Unaccounted for Energy

UIE Uninstructed Imbalance Energy

UIE Settlement AmountThe payment due a Scheduling Coordinator for positive Uninstructed

Imbalance Energy or the charge assessed on a Scheduling Coordinator for negative Uninstructed Imbalance Energy, calculated pursuant to

Section 11.5.2.

Unaccounted for Energy

(UFE)

The difference in Energy, for each utility Service Area and Settlement

Period, between the net Energy delivered into the utility Service Area, adjusted for utility Service Area Transmission Losses and the total

Measured Demand within the utility Service Area adjusted for

distribution losses using Distribution System loss factors approved by the Local Regulatory Authority. This difference is attributable to meter measurement errors, power flow modeling errors, energy theft, statistical

Load profile errors, and distribution loss deviations.

Unavailable Capacity Ancillary Services capacity that receives an AS Award and Self-Provided

Ancillary Services capacity that was not dispatched by the CAISO but where all or a portion of the capacity was not available for Dispatch to

provide Energy in Real-Time.

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FOURTH REPLACEMENT VOLUME NO. II

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Uncontrollable Force Any act of God, labor disturbance, act of the public enemy, war,

insurrection, riot, fire, storm, flood, earthquake, explosion, any

curtailment, order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities or any other cause beyond the reasonable control of the CAISO or Market Participant which

could not be avoided through the exercise of Good Utility Practice.

Undelivered Capacity Ancillary Services capacity that receives an AS Award and Self-Provided

Ancillary Services capacity, or capacity committed in RUC that was dispatched by the CAISO to provide Energy but where a certain

percentage or more of the Expected Energy was not provided in Real-Time, which percentage is determined as specified in the applicable

Business Practice Manual.

Underfrequency Load Shedding (UFLS)

Automatic Load Shedding, accomplished by the use of such devices as underfrequency relays, intended to arrest frequency decline and assure

continued operation within anticipated islands.

Undispatchable Capacity Ancillary Services capacity that receives an AS Award and Self-Provided

Ancillary Services capacity, or capacity committed in RUC, that is not

available for use due to a derate or Outage of the resource.

Undispatchable Capacity includes AS Awards for Spinning Reserve and Non-Spinning Reserve capacity that are not available for use due to Ramp Rate constraints (e.g., operational Ramping ability is lower than

Operating Reserve Ramp Rate).

Unified Planning Assumptions The assumptions to be developed pursuant to Section 24.2.1 and used, to the maximum extent possible, in performing technical studies

identified in the Study Plan as part of the annual Transmission Planning

Process.

Uninstructed Deviation

A deviation from the resources' Dispatch Operating Point.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 963

Uninstructed Deviation

Penalty (UDP)

Uninstructed Imbalance Energy (UIE)

The penalty as set forth in Section 11.23.

The portion of Imbalance Energy that is not Instructed Imbalance

Energy.

Unit Commitment The process of determining which Generating Units will be committed

(started) to meet Demand and provide Ancillary Services in the near

future (e.g., the next Trading Day).

Unrated Governmental

Entity

A municipal utility or state or federal agency that does not hold an

issuer, counterparty, or underlying credit rating by a Nationally

Recognized Statistical Rating Organization.

Unrated Public/Private

Corporation

An investor-owned or privately held entity that does not hold an issuer,

counterparty, or underlying credit rating by a Nationally Recognized

Statistical Rating Organization.

Unrecovered Bid Cost Uplift Payment

A payment made to Scheduling Coordinators for any Bid Costs in the

IFM, RUC, and RTM not recovered by IFM, RUC, or RTM Market

Revenues as provided in Section 11.8.5.

Unsecured Credit Limit The level of credit established for a Market Participant or CRR Holder

that is not secured by any form of Financial Security, as provided for in

Section 12.

Upgrade The required additions and modifications to the CAISO Controlled Grid

and the Distribution System at or beyond the Point of Interconnection.

Upgrades may be Network Upgrades or Distribution Upgrades.

Upgrades do not include Interconnection Facilities.

Use-Limited Resource A resource that, due to design considerations, environmental restrictions

> on operations, cyclical requirements, such as the need to recharge or refill, or other non-economic reasons, is unable to operate continuously on a daily basis, but is able to operate for a minimum set of consecutive

Trading Hours each Trading Day.

Issued by: Charles A. King, PE, Vice President of Market Development and Program Management Issued on: December 21, 2007 Effective: March 31, 2008 **Utility Distribution** Company (UDC)

An entity that owns a Distribution System for the delivery of Energy to and from the CAISO Controlled Grid, and that provides regulated retail electric service to Eligible Customers, as well as regulated procurement service to those End-Use Customers who are not yet eligible for direct access, or who choose not to arrange services through another retailer.

Utility Distribution Company Operating Agreement (UDCOA)

Editing (VEE)

An agreement between the CAISO and a Utility Distribution Company, a pro forma version of which is set forth in Appendix B.8.

Validation, Estimation and

The procedures set forth in Section 10 that the CAISO applies to Revenue Quality Meter Data in order to develop Settlement Quality

Meter Data.

Variable Cost The cost associated with fuel cost and variable operations and

maintenance costs.

Variable Cost Option A method of calculation Default Energy Bids based on fuel costs and

variable operations and maintenance costs.

VEE Validation, Estimation and Editing

Verified CRR Source Quantity

The MW amount corresponding to a verified CRR Source and the LSE or OBAALSE that submitted that verified CRR Source to the CAISO, as

described in Section 36.8.3.4.

Voltage Limits For all substation busses, the normal and post Contingency Voltage

> Limits (kV). The bandwidth for normal Voltage Limits must fall within the bandwidth of the post Contingency Voltage Limits. Special voltage limitations for abnormal operating conditions such as heavy or light

Demand may be specified.

Voltage Support Services provided by Generating Units or other equipment such as

> shunt capacitors, static var compensators, or synchronous condensers that are required to maintain established grid voltage criteria. This service is required under normal or System Emergency conditions.

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Original Sheet No. 965

WAC Wheeling Access Charge

WECC Western Electricity Coordinating Council

Weekly Peak Demand

Forecast

Demand Forecast of the highest Hourly Demand in a period beginning at the start of the hour ending 0100 on Sunday and ending at the end of the hour ending 2400 the following Saturday, in MW.

Western Electricity Coordinating Council (WECC)

The Western Electricity Coordinating Council or its successor.

Western Interconnection

Western Systems Coordinating Council (WSCC)

The network of transmission lines embodied within the WECC region. The Western Systems Coordinating Council or its successor, the WECC.

Western Systems Power Pool

Western Systems Power Pool Agreement

An organization of participants in the electricity markets that have developed and maintain the Western Systems Power Pool Agreement. A standardized power sales agreement developed and maintained as a

FERC rate schedule by the Western Systems Power Pool. Western Path 15 The Western Area Power Administration, Sierra Nevada Region (or its

successor) with respect solely to its rights and interests in the Path 15

Upgrade.

Wheeling

Wheeling Out or Wheeling Through.

Wheeling Access Charge (WAC)

The charge assessed by the CAISO that is paid by a Scheduling Coordinator for Wheeling in accordance with Section 26.1. Wheeling Access Charges shall not apply for Wheeling under a bundled noneconomy Energy coordination agreement of a Participating TO executed prior to July 9, 1996. The Wheeling Access Charge may consist of a High Voltage Wheeling Access Charge and a Low Voltage Wheeling Access Charge.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF

FOURTH REPLACEMENT VOLUME NO. II

Original Sheet No. 966

Wheeling Out Except for Existing Rights exercised under an Existing Contract in

accordance with Section 16.1, the use of the CAISO Controlled Grid for the transmission of Energy from a Generating Unit located within the CAISO Controlled Grid to serve a Load located outside the transmission

and Distribution System of a Participating TO.

Wheeling Through Except for Existing Rights exercised under an Existing Contract in

accordance with Section 16.1, the use of the CAISO Controlled Grid for the transmission of Energy from a resource located outside the CAISO Controlled Grid to serve a Load located outside the transmission and

Distribution System of a Participating TO.

Wholesale Customer A person wishing to purchase Energy and Ancillary Services at a Bulk

Supply Point or a Scheduling Point for resale.

Wholesale Sales The sale of Energy and Ancillary Services at a Bulk Supply Point or a

Scheduling Point for resale.

WSCC Western Systems Coordinating Council

WSCC Reliability Criteria

Agreement

The Western Systems Coordinating Council Reliability Criteria

Agreement dated June 18, 1999 among the WSCC and certain of its

Member transmission operators, as such may be amended from time to

time.

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