CAISO Tariff Appendix A

Master Definitions Supplement

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
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	The MW amount eligible for nomination by an LSE or Qualified
Source Quantity	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.

Effective: _____

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. 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.
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.

Effective: _____

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 840 FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 840

Aggregated Pricing Node A Load Aggregation Point, Trading Hub or any group of Pricing Nodes (Aggregated PNode) as defined by the CAISO. Alert, Warning or A CAISO operations communication issued to Market Participants and **Emergency (AWE) Notice** 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 known transmission Constraints are enforced. **Ancillary Service Award** The notification by the CAISO indicating that a Bid to supply an Ancillary or AS Award Service has been selected to provide such service in the DAM, HASP, or RTM. **Ancillary Service Bid Cost** An amount equal to the product of the AS Award from each accepted AS or AS Bid Cost Bid, reduced by any applicable No Pay capacity, and the relevant AS Bid price. **Ancillary Service Bid or** The Bid component that indicates the quantity in MW and a price in AS Bid 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** The marginal cost of providing an Ancillary Service as further provided in Price (ASMP) Section 27.1.2. **Ancillary Service** A Scheduling Coordinator's hourly obligation for Regulation Down, **Obligation or AS** Regulation Up, Spinning Reserves, and Non-Spinning Reserves Obligation calculated pursuant to Section 11.10.2.1.3, 11.10.2.2.2, 11.10.3.2, and 11.10.4.2, respectively.

Ancillary Service Provider	A Participating Generator, System Resource operator, or Participating
	Load that is certified to provide an Ancillary Service.
Ancillary Service Region	The System Region, the Expanded System Region, or any Sub-Region
or AS Region	identified by the CAISO for procurement of Ancillary Services.
Ancillary Service Regional	A maximum or a minimum, or both a maximum and a minimum, amount
Limit	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	The notification by the CAISO indicating that a Submission to Self-
Schedule or AS Schedule	Provide an Ancillary Service has been selected to provide such service
	in the DAM, HASP, or RTM.
Annual Peak Demand	A Demand Forecast of the highest Hourly Demand in a calendar year, in
Forecast	MW.
Applicable Reliability	The Reliability Standards and reliability criteria established by NERC
Criteria	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	A Maintenance Outage which has been approved by the CAISO through
Outage	the CAISO Outage Coordination Office.

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	Generation equipment that automatically responds to signals from the
Control (AGC)	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	The Maximum Import Capability of an Intertie into the CAISO Balancing
Capability	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	The available capacity of a given transmission path, in MW after
Capability (ATC)	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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 843 FOURTH REPLACEMENT VOLUME NO. II Superseding Original 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	For the purpose of calculating and billing Minimum Load Costs,
Gross Load	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.

Original Sheet No. 844

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
	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	Those resources eligible to participate in the Bid Cost Recovery as
Eligible Resources (BCR Eligible Resources)	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 PRR	Business 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.

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.

First Revised Sheet No. 846 Superseding Original Sheet No. 846

CAISO Authorized	A person authorized by the CAISO to certify, test, inspect and audit
Inspector	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	The portion of a Commitment Period that is not a Self-Commitment
Period	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 Creditor	A 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.

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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 847 FOURTH REPLACEMENT VOLUME NO. II 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 the maximum of zero or the submitted Day-Ahead Self-Schedule for Demand minus the Day-Ahead Schedule for Demand in each applicable 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.
CAISO Metered Entity	 (a) any one of the following entities that is directly connected to the CAISO Controlled Grid: i. 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 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.

First Revised Sheet No. 848 Superseding Original Sheet No. 848

CAISO Operating and Capital Reserves Account	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	The CAISO's annual budgeted cost of cash funded capital and project
Capital Reserves Costs	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	Other costs and revenues that are recovered through, or are offsets to,
Revenues	the CAISO revenue requirement, including special charges, fines,
	penalties, other interest expenses, reimbursements, and interest
	earnings.
CAISO Outage	The office established by the CAISO to coordinate Maintenance
Coordination Office	Outages in accordance with Section 9.3.
CAISO Payments	A calendar published by the CAISO showing the dates on which
Calendar	Settlement Statements will be published by the CAISO and the Payment
	Dates by which Invoices issued under the CAISO Tariff must be paid.

Original Sheet No. 848A

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.

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. 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.
СВМ	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.
Chustering	
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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third Revised Sheet No. 850 FOURTH REPLACEMENT VOLUME NO. II Superseding Second Revised Sheet No. 850

The status of a Generating Unit or project phase at a Generating Facility **Commercial Operation** that has commenced generating electricity for sale, excluding electricity generated during Trial Operation. **Commercial Operation** The date on which a Generating Unit or project phase at a Generating Date 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** The first optimization run of the MPM-RRD process through which all Run (CCR) pre-designated competitive Constraints are enforced. **Condition 1 RMR Unit** A resource operating pursuant to Condition 1 of its RMR Contract. **Condition 2 RMR Unit** A resource operating pursuant to Condition 2 of its RMR Contract. Congestion 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** A report issued by the CAISO on the schedule set forth in the Business Summary 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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third Revised Sheet No. 851 FOURTH REPLACEMENT VOLUME NO. II Superseding Second Revised Sheet No. 851 **Congestion Revenue** A CRR Obligation or CRR Option. Right (CRR) **Connected Entity** A Participating TO or any party that owns or operates facilities that are electrically interconnected with the CAISO Controlled Grid. **Constrained Output** A Generating Unit with an operating range (PMax - PMin) that is no Generator (COG) 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. **Construction Activities** Actions by a Participating TO that result in irrevocable financial 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 System Emergency. **Contract Reference** The Bid component that indicates the specific contract identification Number (CRN) number issued by the CAISO to Scheduling Coordinators transactions under Existing Contracts or TORs.

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.

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

Second Revised Sheet No. 852 Superseding First Revised Sheet No. 852

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.

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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CRR Payment	A payment from the CAISO to a CRR Holder as specified in Section
	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

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.
Day-Ahead	The twenty-four hour time period prior to the Trading Day.
Day-Ahead Bid Awarded	The Day-Ahead Scheduled Energy above the Day-Ahead Total Self-
Energy	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	The period commencing seven (7) days prior to the applicable Trading
Period	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	Day-Ahead Scheduled Energy below the registered Minimum Load,
Energy	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	Negative Day-Ahead Scheduled Energy consumed by Participating
Energy	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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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 856 FOURTH REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 856

Day-Ahead Schedule Day-Ahead Scheduled Energy	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. 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
Day-Ahead Self- Scheduled Energy	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 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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Decline Potential Charge –	A potential charge that is calculated for any HASP Intertie Schedule for
Imports	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	The rate at which Scheduling Coordinators may fail to deliver imports or
Percentage – Imports/Exports	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	The MWh quantity of HASP Intertie Schedules for imports or exports of
Quantity – Imports/Exports	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.

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	Transmission facilities at or beyond the Point of Interconnection, other
Upgrades	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	The department of the CAISO established under Appendix P.1.

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.

Effective: _____

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
	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 LMP	The 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
	Energy. For resources that have not received a Dispatch Instruction, the
	Dispatch Operating Point defaults to the corresponding Day-Ahead
	Schedule.
Distribution System	The 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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third F FOURTH REPLACEMENT VOLUME NO. II Superseding Second F

Third Revised Sheet No. 860 Superseding Second Revised Sheet No. 860

DSHBAOA	Dynamic Scheduling Host Balancing Authority Operating Agreement
Dynamic Resource-	A Dynamic System Resource that is a specific generation resource
Specific System 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
	purposes.
Dynamic Scheduling	An agreement between the CAISO and a Scheduling Coordinator
Agreement for Scheduling Coordinators	regarding the terms by which a Scheduling Coordinator may submit
	Dynamic Schedules, a pro forma version of which is set forth in
	Appendix B.5.
Dynamic Scheduling Host	An agreement entered into between the CAISO and a Host Balancing
Balancing Authority Operating Agreement	Authority governing the terms of dynamic scheduling between the Host
(DSHBAOA)	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	A System Resource that has satisfied the CAISO's contractual and
Resource	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 \underline{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	A plan to be developed by the CAISO in consultation with Utility
(EEP)	Distribution Companies to address situations when Energy reserve
	margins are forecast to be below established levels.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third Revised Sheet No. 861 FOURTH REPLACEMENT VOLUME NO. II Superseding Second Revised Sheet No. 861

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Electric Facility	An electric resource, including a Generating Unit, System Unit, or a Participating Load.
Eligible 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	A Generating Unit that is powered by one of the following sources,
Resource	except for a de minimis amount of Energy from other sources: 1) wind,
	2) solar energy, or 3) hydroelectric potential derived from small conduit
	water distribution facilities that do not have storage capability.
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

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	A consumer of electric power who consumes such power to satisfy a
End-User	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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 863 FOURTH REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 863 **Energy Bid Curve** 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. **Energy Export** 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. **Energy Management** A computer control system used by electric utility dispatchers to monitor the System (EMS) real-time performance of the various elements of an electric system and to control Generation and transmission facilities. Energy-Only A condition elected by an Interconnection Customer for a Large Generating **Deliverability Status** 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** A geographic region certified by the California Public Utilities Commission (ERA) 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.

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	The component of the Grid Management Charge that provides, in
Services – Uninstructed Deviations Charge	conjunction with the Energy Transmission Services – Net Energy
Domanono onalgo	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 &	An agreement that authorizes the Participating TO to begin engineering
Procurement (E&P) Agreement	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.

Second Revised Sheet No. 865 Superseding First Revised Sheet No. 865

ERA	Energy Resource Area
Estimated Aggregate	The sum of a Market Participant's or CRR Holder's known and
Liability	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	Extra-marginal IIE, exclusive of Standard Ramping Energy, Ramping
Energy	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.

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CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 866 FOURTH REPLACEMENT VOLUME NO. II 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
	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.

Existing Zone Generation Trading Hub Expanded System Region	Trading Hubs specifically developed to represent the average price paid to generation resources within Existing Zones. 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. <i>Energy from Non-Dynamic System Resources is converted into HASP Intertie</i> Schedules, Expected Energy is used as the basis for Settlements.
Export Bid	A Demand Bid submitted to a CAISO Market at a Scheduling Point.
Exporting Participating Intermittent Resource	A Participating Intermittent Resource with a PIR Export Percentage greater than zero (0).
Extremely Long-Start Commitment Process (ELC Process)	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.

Original Sheet No. 868

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

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Rev FOURTH REPLACEMENT VOLUME NO. II Superseding Orig

Eifth Doroontilo	The fifth perceptile value based on the probability distribution of the
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	A final invoice issued by the CAISO that reflects an allocation of
Invoice	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	The rate to be paid by Scheduling Coordinators for NERC/WECC
Rate	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	A contract utilizing or consistent with Service Schedule C of the Western
Contract	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.

First Revised Sheet No. 870 Superseding Original Sheet No. 870

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	A pair of lower and higher operating levels between which a resource
Region	cannot operate stably. The Forbidden Operating Regions lie between a
	resource's Minimum Operating Limit and Maximum Operating Limit and
	cannot overlap.
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.
Forecast Fee	The charge imposed on a Participating 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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 871 FOURTH REPLACEMENT VOLUME NO. II 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.

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).

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 873 FOURTH REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 873

The CAISO monthly charge on all Scheduling Coordinators that provides **Grid Management Charge** (GMC) 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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 874 FOURTH REPLACEMENT VOLUME NO. II 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	A credit provided to Scheduling Coordinators to offset any HASP and
Congestion Credit	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.
HASP Bid	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	The period commencing at midnight (0000 hours) on the applicable
Period	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
	<i>Points</i> 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.

HASP Scheduled Energy 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. The pricing point for natural gas futures contracts traded on the New Henry Hub York Mercantile Exchange (NYMEX). High Priority Economic An Economic Planning Study performed by the CAISO for inclusion in **Planning Study**

High Voltage Access Charge (HVAC) the Transmission Plan and for which the CAISO assumes cost responsibility.

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.

High Voltage Transmission Facility	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	The Balancing Authority for a Host Balancing Authority Area.
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 CAISO Balancing Authority Area.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 877 FOURTH REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 877

Hour-Ahead Scheduling	The process conducted by the CAISO beginning at seventy-five minutes
Process (HASP)	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,
	and RTD; and 3) conducts the RTUC for the hourly pre-dispatch of
	Energy and Ancillary Services.
Hourly Demand	The average of the instantaneous Demand integrated over a single
	clock hour, in MWh.
Hourly Real-Time LAP	The load deviation weighted average of the hourly average of the
Price	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.

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.

Original Sheet No. 878

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
	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.

First Revised Sheet No. 879 Superseding Original Sheet No. 879

IFM Marginal Cost of	A credit provided to Scheduling Coordinators pursuant to Section 17.3.3
Losses Credit for Eligible TOR Self-Schedules	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	For each Settlement Period of the IFM, the IFM Marginal Losses Surplus
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	The amount of money distributed to Scheduling Coordinators in the
Surplus Credit	allocation of IFM Marginal Losses Surplus in proportion to Scheduling
	Coordinator's Measured Demand in accordance with Section 11.2.1.6.
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	A Time Period determined by the CAISO pursuant to the rules in Section
Period	11.8.1.1 for the purposes of deriving any Bid Cost Recovery amounts,
	related to the IFM.

First Revised Sheet No. 880 Superseding Original 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	A Load Serving Entity's proportionate share of the forecasted Resource
Share	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	A Load Serving Entity's Import Capability Load Share divided by the
Share Ratio	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+33BD to the Initial Settlement Statement
	Reissue or Recalculation Settlement Statement including any new
	Charge Codes or Trading Day charges appearing for the first time on the
	Initial Settlement Statement, Reissue or Recalculation Settlement
	Statement.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third Revised Sheet No. 881 FOURTH REPLACEMENT VOLUME NO. II Superseding Second 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	The reissue of an Initial Settlement Statement T+38BD by the CAISO on
Statement Reissue	the fifty-first (51st) Business Day from the relevant Trading Day
	(T+51BD) if T+51BD falls on a calendar day that is on or before the day
	the Invoice or Payment Advice for the bill period containing the relevant
	Trading Day is scheduled to publish.
Initial Settlement	A Settlement Statement generated by the CAISO for the calculation of
Statement T+38BD	Settlements for a given Trading Day, which is published on the thirty-
	eight Business Day from the relevant Trading Day (T+38BD) 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	The portion of Imbalance Energy resulting from Dispatch Instructions
Energy (IIE)	and HASP Intertie Schedules.

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.

Second Revised Sheet No. 882 Superseding First Revised Sheet No. 882

An agreement entered into between the CAISO and a Balancing Interconnected Balancing Authority Area Operating Authority of a Balancing Authority Area interconnected to the CAISO Agreement (IBAAOA) Balancing Authority Area to govern operation of their interconnected electric systems. Interconnected Control An agreement entered into between the CAISO and a Balancing Area Operating Authority of a Balancing Authority Area interconnected to the CAISO Agreement (ICAOA) 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 A contract between a party requesting interconnection and the Agreement Participating TO that owns the transmission facility with which the requesting party wishes to interconnect.

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.

Interconnection	All facilities and equipment, as identified in Appendix A of the Large
Customer's Interconnection Facilities	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	A study conducted by the Participating TO(s), CAISO, or a third party
Study	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	
Interconnection Facilities Study Agreement	Section 8 of the Standard Large Generator Interconnection Procedures.
Study Agreement Interconnection Feasibility	Section 8 of the Standard Large Generator Interconnection Procedures. The form of agreement accepted by FERC and posted on the CAISO
Study Agreement	Section 8 of the Standard Large Generator Interconnection Procedures. The form of agreement accepted by FERC and posted on the CAISO Website for conducting the Interconnection Facilities Study.
Study Agreement Interconnection Feasibility	Section 8 of the Standard Large Generator Interconnection Procedures. The form of agreement accepted by FERC and posted on the CAISO Website for conducting the Interconnection Facilities Study. A preliminary evaluation conducted by the Participating TO(s), CAISO,
Study Agreement Interconnection Feasibility	Section 8 of the Standard Large Generator Interconnection Procedures. The form of agreement accepted by FERC and posted on the CAISO Website for conducting the Interconnection Facilities Study. A preliminary evaluation conducted by the Participating TO(s), CAISO, or a third party consultant for the Interconnection Customer of the

Interconnection Feasibility Study Agreement Interconnection Financial Security	The form of agreement accepted by FERC and posted on the CAISO Website for conducting the Interconnection Feasibility Study. Any of the financial instruments listed in LGIP Section 9.1 set forth in
Interconnection Handbook	Appendix Y that are posted by an Interconnection Customer. 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
Interconnection Request	LGIP or SGIP shall apply. 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.

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.

Second Revised Sheet No. 885 Superseding First Revised Sheet No. 885

Interconnection System Impact Study	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	The form of agreement accepted by FERC and posted on the CAISO
Impact Study Agreement	Website for conducting the Interconnection System Impact Study.
Interest	Interest shall be calculated in accordance with the methodology specified
	for interest on refunds in the regulations of FERC at 18 C.F.R.
	§35.19 <mark>a</mark> (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	An agreement entered into between the CAISO and a Participating
Agreement	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	The Interim Capacity Procurement Mechanism, as set forth in Section
Procurement Mechanism	43.
(ICPM) Intermediary Balancing	The Balancing Authority that operates an Intermediary Balancing
Authority	Authority Area.
	-

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 886 FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 886 **Intermediary Balancing** Any Balancing Authority Area between a Host Balancing Authority Area **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.

- Either the Day-Ahead Inter-SC Trade Period or the HASP Inter-SC Inter-SC Trade Period 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.
- Independent System Operator **Joint Powers Agreement** An agreement governing a Joint Powers Authority that is subject to the 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

IOU

ISO

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.

Large Generating Facility	A Generating Facility having a Generating Facility Capacity of more
	than 20 MW.
Large Generator	The form of interconnection agreement applicable to an Interconnection
Interconnection Agreement (LGIA)	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 Process Agreement	for conducting the Interconnection Studies for a proposed Large
(LGISPA)	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
LGISPA	Large Generator Interconnection Study Process Agreement

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 887A FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 887A

Line Loss Correction Factor	The line loss correction factor as set forth in the technical specifications
	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	A set of Pricing Nodes as specified in Section 27.2 that are used for the
(LAP)	submission of Bids and Settlement of Demand.

Load Distribution Factor	A number that reflects the relative amount of Load at each PNode within
(LDF)	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	The penalty assignable to an MSS Operator for deviations from
Penalty (LFDP)	Expected Energy outside the MSS Deviation Band.
Load Metric	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 Shedding	The 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 Area	Transmission constrained area as defined in the study referenced in
	Section 40.3.1.

First Revised Sheet No. 889 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.
Local Capacity Area	Resource Adequacy Capacity from a Generating Unit listed in the
Resources	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	Any Tax-Exempt Participating TO that owns facilities financed by Local
Participating TO	Furnishing Bonds.
Local Market Power	The mitigation of market power that could be exercised by an entity
Mitigation (LMPM)	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	A municipality or municipal corporation operating as a public utility
Electric 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	The state or local governmental authority, or the board of directors of an
Authority (LRA)	electric cooperative, responsible for the regulation or oversight of a
	utility.

Original Sheet No. 890

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	A reference to either a PNode or an Aggregated Pricing Node.
Location Code	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
	identification.
Location Constrained	A High Voltage Transmission Facility that has been determined by the
Resource Interconnection Facility (LCRIF)	CAISO to satisfy all of the requirements of Section 24.1.3.
Location Constrained	A Generating Unit that (a) uses a primary fuel source or source of
Resource Interconnection Generator (LCRIG)	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	The marginal cost (\$/MWh) of serving the next increment of Demand at
(LMP)	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.

Long Term Congestion	A Congestion Revenue Right differentiated by season and time-of-use
Revenue Right (Long Term CRR)	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.
Low Voltage	A transmission facility owned by a Participating TO or to which a
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	The portion of a Participating TO's TRR associated with and allocable to
Transmission Revenue Requirement (LVTRR)	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	The Wheeling Access Charge associated with the recovery of a
Access Charge	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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third Revised Sheet No. 892 FOURTH REPLACEMENT VOLUME NO. II Superseding Second 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	The component of LMP at a PNode that accounts for the cost of
Congestion (MCC)	congestion, as measured between that Node and a Reference Bus.
Marginal Cost of Losses	The component of LMP at a PNode that accounts for the marginal real
(MCL)	power losses, as measured between that Node and a Reference Bus.
Marginal Losses	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.
Market Clearing	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.
Market Close	The time after which the CAISO is no longer accepting Bids for its
	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 the normal operation of any of
	the CAISO Markets.
Market Efficiency	An agreement between the CAISO and the Balancing Authority of an
Enhancement Agreement (MEEA)	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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATIONFERC ELECTRIC TARIFFSecond Revised Sheet No. 892AFOURTH REPLACEMENT VOLUME NO. IISuperseding First 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 used in Docket No. EL01-118.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 893 FOURTH REPLACEMENT VOLUME NO. II Superseding Original 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
	Manuals, and determining LMPs. The formula for determining the Market Usage Charge is set forth in Appendix F, Schedule 1, Part A.
Master File	

Material Change in Financial Condition	A chang	ge in or potential threat to the financial condition of a Market	
	Particip	ant or CRR Holder that increases the risk that the Market	
	Particip	ant or CRR Holder will be unlikely to meet some or all of its	
	financia	I 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;	
	(e)	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 modif	ication that has a material impact on the cost or timing of any	
	Intercor	nnection Request or any other valid interconnection request with	
	a later o	queue priority date.	
Maximum Daily Start-Ups	The ma	ximum number of times a Generating Unit can be started up	
	within o	ne day, due to environmental or physical operating constraints.	
Maximum Import Capability	A quan	tity in MW determined by the CAISO for each Intertie into the	
	CAISO	Balancing Authority Area to be deliverable to the CAISO	
	Balanci	ng Authority Area based on CAISO study criteria.	
Maximum Net Dependable Capacity (MNDC)	A term	defined in and used in association with an RMR Contract.	
Maximum Operating Limit	The low	ver of the maximum allowable output when the resource is	
(MOL _{max})	operatir	ng or the upper bound of the Regulating Range if the resource is	
	providir	ng Regulation service.	

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORA	TION
FERC ELECTRIC TARIFF	First Revised Sheet No. 895
FOURTH REPLACEMENT VOLUME NO. II	Superseding Original Sheet No. 895

МСС	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,
	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.

Metered Balancing	For purposes of calculating and billing the Grid Management Charge,
Authority Area Load	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 Control Area Load	Metered Balancing Authority 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.
	-

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	An agreement entered into between the CAISO and a CAISO Metered
for CAISO Metered Entities (MSA CAISOME)	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
	version of which is set forth in Appendix B.7.
Minimum Down Time	The minimum amount of time that a Generating Unit must stay off-line
(MDT)	after being Shut-Down, due to physical operating constraints.
Minimum Load	For a Generating Unit, the minimum sustained operating level at which it
	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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Minimum Operating Limit (MOL _{min})	The greater of the Minimum Load or the lower bound of the Regulating
	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.
MOL _{max}	Maximum Operating Limit
MOL _{min}	Minimum Operating Limit
Monthly Available CRR	The upper limit of network capacity that will be used in the monthly CRR
Capacity	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	The MW quantity of CRRs a CRR Holder or Candidate CRR Holder is
Quantity	eligible to nominate for the relevant month in a monthly CRR Allocation.
Monthly CRR Load Metric	The load metric used for determining eligibility for CRR Allocation as
	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.

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	The sum of the net metered CAISO Demand from all the Net-Load
Measured Demand	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	The sum of the net metered non-ETC/TOR CAISO Demand from all of
Non-ETC/TOR Measured Demand	the non-ETC/TOR Net-Load MSSs in the MSS Aggregation plus any
Demand	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	An agreement between the CAISO and an MSS Aggregator by which
Entity Agent Agreement	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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 900 FOURTH REPLACEMENT VOLUME NO. II 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,
Liioigy	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	Net Negative Uninstructed Deviation for an MSS, with MSS Load
Uninstructed Deviation	Following Energy included in the netting.
MSS Operator	An entity that owns an MSS and has executed a MSS Agreement.
MSS Supply	Supply specified in an MSS Agreement as supplying an MSS.
Multi-Point CRR	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
	Sink(s), provided that at least the CRR Sink or the CRR Source
	identifies more than one point.

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	The Bid component that identifies Generating Units that are Regulatory
Generation	Must-Take Generation or Regulatory Must-Run Generation.
Nationally Recognized	National credit rating agencies as designated by the U.S. Securities &
Statistical Rating Organizations (NRSRO)	Exchange Commission.
Native Load	Load required to be served by a utility within its Service Area pursuant to
	applicable law, franchise, or statute.
Negative Operating Reserve Obligation Credit Adjustment Factor (NOROCAF)	The adjustment factor specified in Section 11.10.5.
Negotiated Rate Option	A method of calculating Default Energy Bids based on a negotiation with
	the CAISO or the Independent Entity.
NERC	The North American Electric Reliability Corporation or its successor.
NERC Generating Availability Data System (GADS)	The NERC standard for determination of generation resource net
	dependable capacity.
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
ASSESSIIIEIIL I EAI	WECC based on data from the calendar year two years prior to the year

of the NERC/WECC Charge assessment.

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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, <mark>as</mark> defined <i>in Step 4(b) o</i> f
	Section 12.1.1.1.2.
Net Hourly Energy Charge	Total <mark>c</mark> harges to all Demand minus total <mark>p</mark> ayments 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.

Original Sheet No. 903

Net IFM Bid Cost Uplift	The amount of IFM-related Bid Costs resulting from the sequential
	netting in Section 11.8.6.2 and allocated to Scheduling Coordinators in
	accordance with Section 11.8.6.4.
Net-Load MSS	An MSS with positive net metered CAISO Demand of the MSS within
	the MSS Aggregation.
Net Negative CAISO	The difference between metered CAISO Demand and the total CAISO
Demand Deviation	Demand scheduled in the Day-Ahead Schedule, if positive.
Net Negative Uninstructed	The real-time change in Generation or Demand associated with
Deviation	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.

Net RTM Bid Cost Uplift	The amount of RTM-related Bid Costs resulting from the sequential
	netting in Section 11.8.6.2 and allocated to Scheduling Coordinators in
	accordance with Section 11.8.6.6.
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 QF	A 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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New Participating TO	A 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-CPUC Load Serving	Any entity serving retail Demand in the CAISO Balancing Authority Area
Entity	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-	A Non-Dynamic System Resource that is a specific generation resource
Specific System 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.

FERC ELECTRIC TARIFF	SYSTEM OPERATOR CORPORATION Second Revised Sheet No. 906
FOURTH REPLACEMENT VO Non-Overlapping Optimal Energy	LUME NO. II Superseding First Revised Sheet No. 906 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

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third Revised Sheet No. 907 FOURTH REPLACEMENT VOLUME NO. II Superseding Substitute Second Revised Sheet No. 907

OBAALSE	Out-of-Balancing Authority Area Load Serving Entity
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.
Operating Reserve	The combination of Spinning and Non-Spinning Reserve required to meet NERC and WECC reliability standards, including any requirements of the NRC for reliable operation of the CAISO Balancing Authority Area.

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 represent <mark>s</mark> the Ramp Rate of a resource used in the
	procurement of Operating Reserve capacity.
Operating Transfer	The maximum capability of a transmission path to transmit real power,
Capability (OTC)	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.

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

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 910 FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 910

Original Participating TO	A Participating TO that was a Participating TO as of January 1, 2000.
отс	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	An entity serving end-users located outside the CAISO Balancing
Authority Area Load Serving Entity (OBAALSE)	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	The portion of Optimal Energy that overlaps with MSS Load Following
Energy	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.

Second Revised Sheet No. 911 Superseding First Revised Sheet No. 911

Participating Generator Agreement (PGA) Participating Intermittent	An agreement between the CAISO and a Participating Generator, a <i>pro forma</i> version of which is set forth in Appendix B.2. One or more Eligible Intermittent Resources that meets the
Resource	requirements of the technical standards for Participating Intermittent Resources adopted by the CAISO and published on the CAISO Website.
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. <mark>12.3</mark> .
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 <i>pro forma</i> 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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 912 FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 912

Second Revised Sheet No. 913 Superseding First Revised Sheet No. 913

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. 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.

First Revised Sheet No. 914 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.
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	The point, as set forth in Appendix A to the Large Generator
Ownership	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	Point(s) within the CAISO Balancing Authority Area where Energy and
Withdrawal (POD or Point(s) of Withdrawal)	Ancillary Services are made available to a receiving party under this
	CAISO Tariff.

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	The CAISO computer control system used to monitor the real-time
System (PMS)	performance of the various elements of the CAISO Controlled Grid,
	control Generation, and perform operational power flow studies.
Power System Stabilizers	An electronic control system applied on a Generating Unit that helps to
(PSS)	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	Actions by a Participating TO, other than those required by an
Activities	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.

Original Sheet No. 916

Preliminary	An initial invoice issued by the CAISO that reflects an allocation of
NERC/WECC Charge Invoice	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	The preliminary rate to be paid by Scheduling Coordinators for
Charge Rate	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.

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	The quantity in MW assigned to a particular Intertie into the CAISO
Commitment Capability	Balancing Authority Area based on a Pre-RA Import Commitment.
Previously-Released	CRRs that were released based on a CRR FNM that did not include a
CRRs	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 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	The step in an annual CRR Allocation in years beyond CRR Year One
Process (PNP)	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.
Prior Period Change	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
	issued.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 918 FOURTH REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 918

A worksheet prepared by the RMR Owner and submitted to the CAISO Prior Period Change 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 six-month period used to determine the maximum Registered Cost for the resource. Projected Proxy Costs will be calculated whenever a Scheduling Coordinator elects the Registered Cost option. For natural gas fired resources, the CAISO will calculate a gas price to be used in calculating maximum Start-Up Costs and Minimum Load Costs after the twenty-first day of each month and post it on the CAISO Website by the end of each calendar month. The price will be applicable for the following month until a new gas price is calculated and posted on the CAISO Website. The gas price will be calculated as follows. First, daily closing prices for monthly NYMEX Natural Gas Futures contracts at Henry Hub for each of the next six monthly contracts are averaged over the first twenty one days of the month. A separate average is calculated for each of the six monthly contracts, based on the average closing price of the contract over the first twenty-one days. Second, the maximum of the six monthly averages will be calculated and be used as the gas price applicable for calculating Start-Up Bid and Minimum Load Bid caps. For non-gas fired resources, the Projected Proxy Costs for Start-Up Costs and Minimum Load Costs will be calculated using the information contained in the Master File used for calculating the Proxy Cost, as set forth in the Business Practice Manual. **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.

Proxy Cost	The 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
РТО	Participating TO or Participating Transmission Owner

Original Sheet No. 918A

PTO 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.
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	Instructions by ceasing to pump. 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 Coordinator.

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	The MSS Load following instruction that is limited by the qualified Load
Instruction	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	An agreement between the CAISO and a Generator with a QF
Participating Generator Agreement (QF PGA)	Generating Unit, a pro forma version of which is set forth in Appendix
	B.3.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second F FOURTH REPLACEMENT VOLUME NO. II Superseding First F

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.

RampingChanging 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 The portion of Imbalance Energy produced or consumed due to Deviation 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

Energy Bids or Ancillary Services Bids.

Participating Loads, for which the Scheduling Coordinator is submitting

Issued on: January 15, 2009

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	An investor-owned or privately held entity that holds an issuer,
Corporation	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	For each Settlement Period of the HASP and RTM, the CAISO shall
Fund	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	A component of the neutrality adjustments as provided in Section
Offset	11.5.4.2 to account 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.

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	A final agreed-upon schedule of Energy to be transferred from the
Export Schedule	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	The mode of the Real-Time Dispatch that will be invoked as a fall-back
Dispatch (RTMD)	mechanism only when the RTED or RTCD fails to provide a feasible
	Dispatch.
Real-Time Marginal Cost	A component of the neutrality adjustments as provided in Section
of Losses Offset	11.5.4.2 to account for 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 <mark>for Eligible TOR Self-Schedules</mark> 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	For the applicable Settlement Interval, the Pumping Cost submitted to
Pumping Bid Cost	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.

Second Revised Sheet No. 924 Superseding First Revised Sheet No. 924

Real-Time Minimum Load	IIE, exclusive of Standard Ramping Energy, Ramping Energy Deviation,
Energy	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	IIE from a Participating Load Pumped-Storage Hydro Unit or Pumping
Energy	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.

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	An application of the RTM that runs every 15 minutes and commits Fast
Commitment (RTUC)	Start Units and Medium Start Units using the SCUC to adjust from Day-
	Ahead Schedules and HASP Intertie Schedules.
Recalculation Settlement	The reissue of an Initial Settlement Statement T+38BD by the CAISO on
Statement	the fifty-first (51st) Business Day from the relevant Trading Day
	(T+51BD) if T+51BD falls on a calendar day that is after the day the
	Invoice or Payment Advice for the bill period containing the relevant
	Trading Day is scheduled to publish.
Recalculation Settlement	The reissue of an Initial Settlement Statement Reissue or the
Statement T+76BD	Recalculation Settlement Statement by the CAISO on the seventy-sixth
	(76th) Business Day from the relevant Trading Day (T+76BD).
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).

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Re FOURTH REPLACEMENT VOLUME NO. II Superseding First Re

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.
Regulating Range	The operating level range within which a generating resource may
	provide Regulation.
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.

First Revised Sheet No. 927 Superseding Original Sheet No. 927

Regulation Down or Regulation Down Reserve	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.

Regulatory Must-Take	Those Generation resources identified by CPUC, or a Local Regulatory
Generation	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	The sum payable by a Responsible Utility to the CAISO pursuant to
Charge (RMR Charge)	Section 41 for the costs, net of all applicable credits, incurred under the
	Reliability Must-Run Contract.
Reliability Must-Run	A Must-Run Service Agreement between the owner of a Reliability Must-
Contract (RMR Contract)	Run Unit and the CAISO.
Reliability Must-Run	Generation that the CAISO determines is required to be on line to meet
Generation (RMR Generation)	Applicable Reliability Criteria requirements. This includes i) Generation
Contrationy	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	A Generating Unit of a Participating Generator which is the subject of a
(RMR Unit)	Reliability Must-Run Contract.

Second Revised Sheet No. 929 Superseding First Revised Sheet No. 929

Reliability Network	The transmission facilities at or beyond the Point of Interconnection
Upgrades	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	The reliability process conducted by the CAISO during the DAM, prior
Determination (RRD)	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 <mark>a</mark> 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.
	associated with units committee for local reliability requirements.

Reliability Standard	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	The quantity in MW of Total Import Capability assigned to a Load
Capability	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	Protective systems that typically utilize a combination of conventional
(RAS)	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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second R FOURTH REPLACEMENT VOLUME NO. II Superseding First R

Second Revised Sheet No. 931 Superseding First Revised Sheet No. 931

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	Extra-marginal IIE produced or consumed at the start or end of a
Energy	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. <mark>5</mark> 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
	Trading Hour, or the next Trading Hour, if Residual Imbalance Energy
	occurs at the end of a Trading Hour.
Residual Unit	The process conducted by the CAISO in the Day-Ahead Market after
Commitment (RUC)	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.
Resource Adequacy	The generation capacity of a Resource Adequacy Resource listed on
Capacity or RA Capacity	a Resource Adequacy Plan and a Supply Plan.
Resource Adequacy Compliance Year	A calendar year from January 1 through December 31.

Resource Adequacy Plan	A submission by a Scheduling Coordinator for a Load Serving Entity in the form required by the Business Practice Manual to satisfy the requirements of Section 40.
Resource Adequacy Resource	A resource that is required to offer 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	The LMP at a PNode used for settlement of IIE, calculated as the IIE-
Settlement Interval LMP	weighted 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	The price used to settle Tier 1 UIE as calculated pursuant to Section
UIE Settlement Interval Price	11.5.2.1.

Responsible Participating	The party providing transmission service under an Existing Contract
Transmission Owner (or Responsible Participating	listed in Appendix A of a Responsible Participating Transmission
TO or Responsible PTO)	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	An agreement between the CAISO and a Responsible Participating
Transmission Owner Agreement (RPTOA)	Transmission Owner, a pro forma version of which has been accepted
Agreement (NTTOA)	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	A segregated commercial bank account under the Facility Trust
Facility Trust Account	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	A collective name for the set of CAISO systems used to collect,
Acquisition and Processing System (RMDAPS)	validate, edit and report on Revenue Quality Meter Data.
Revenue Quality Meter	Meter data meeting the standards and requirements established and
Data	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.
Revised Adjusted RMR	The monthly invoice issued by the Reliability Must-Run Owner to the
Invoice	CAISO pursuant to the Reliability Must-Run Contract reflecting any
	appropriate revisions to the Adjusted Reliability Must-Run Invoice based
	on the CAISO's validation and actual data for the billing month.

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Revised Estimated RMR	The monthly invoice issued by the Reliability Must-Run Owner to the
Invoice	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
RMR Default Amount	Any amount due to be remitted to the relevant Facility Trust Account by
	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.

Effective: _____

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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 <i>pro forma</i> 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	The payment calendar issued by the CAISO pursuant to Section 11.13.
RMR Proxy Bid	For Condition 1 RMR Units, <i>for Energy</i> , 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, <i>for Energy</i> , the Energy Bid defined in Schedule M of the RMR Contract. <i>For Condition 1 and 2 RMR Units, for Start-Up costs, the</i>
	amount set forth in Schedule D of the applicable RMR Contract; and for Minimum Load costs, an amount calculated based on unit specific
	Minimum Load cosis, an amount calculated based on unit specific
	performance parameters as set for the applicable RMR Contract and the
	performance parameters as set for the applicable RMR Contract and the gas price calculated in accordance with Schedule C of the applicable
	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	gas price calculated in accordance with Schedule C of the applicable
RMR Refund RMR Security	gas price calculated in accordance with Schedule C of the applicable RMR Contract. 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
	gas price calculated in accordance with Schedule C of the applicable RMR Contract. 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.
	 gas price calculated in accordance with Schedule C of the applicable RMR Contract. 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. The form of security provided by a Responsible Utility to cover its liability
RMR Security	gas price calculated in accordance with Schedule C of the applicable RMR Contract. 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. The form of security provided by a Responsible Utility to cover its liability under Section 11.13.
RMR Security RMR Unit	 gas price calculated in accordance with Schedule C of the applicable RMR Contract. 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. The form of security provided by a Responsible Utility to cover its liability under Section 11.13. Reliability Must-Run Unit
RMR Security RMR Unit RPTOA	 gas price calculated in accordance with Schedule C of the applicable RMR Contract. 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. The form of security provided by a Responsible Utility to cover its liability under Section 11.13. Reliability Must-Run Unit Responsible Participating Transmission Owner Agreement
RMR Security RMR Unit RPTOA RRD	 gas price calculated in accordance with Schedule C of the applicable RMR Contract. 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. The form of security provided by a Responsible Utility to cover its liability under Section 11.13. Reliability Must-Run Unit Responsible Participating Transmission Owner Agreement Reliability Requirement Determination

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
	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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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 Cost	The 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.

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.

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

Schedule	A Day-Ahead Schedule, a HASP Advisory Schedule, or a HASP Intertie
	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.
(0=:0)	Users can modify the maximum and minimum output of a unit, as well as
	the Ramping capability of the unit.
Scheduling Coordinator	An entity certified by the CAISO for the purposes of undertaking the
(SC)	functions specified in Section 4.5.3.
Scheduling Coordinator	An agreement between a Scheduling Coordinator and the CAISO
Agreement (SCA)	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	The form specified by the CAISO from time to time in which a
Application Form	Scheduling Coordinator Applicant must apply to the CAISO for
	certification as a Scheduling Coordinator.
Scheduling Coordinator	A customer of the Scheduling Coordinator Applicant or a Scheduling
Customer	Coordinator for whom the Scheduling Coordinator provides services
	relevant to the CAISO Controlled Grid.

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	The MW quantity of CRRs a CRR Holder or Candidate CRR Holder is
Quantity	eligible to nominate for a specific season and time of use period in the
	annual CRR Allocation.

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	The computer interface through which CRR Holders and Candidate
System	CRR Holders register any bilateral CRR transactions with the CAISO.
Security Constrained	An algorithm performed by a computer program that simultaneously
Economic Dispatch (SCED)	clears Energy Supply Bids, including Self-Schedules, against Demand
(0020)	Forecast to determine Dispatch Instructions.
Security Constrained Unit	An algorithm performed by a computer program over a multi-hour Time
Commitment (SCUC)	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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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 self- provided 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.

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	Meter Data gathered, edited, validated, and stored in a settlement-ready
Data	format, for Settlement and auditing purposes.
Settlement Quality Meter	A collective name for the set of CAISO systems used to accept, analyze
Data Systems <mark>(SQMDS)</mark>	and report on Settlement Quality Meter Data.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Third Revised Sheet No. 945 FOURTH REPLACEMENT VOLUME NO. II Superseding Second Revised Sheet No. 945

Settlements, Metering, The component of the Grid Management Charge that provides for the and Client Relations recovery of the CAISO's costs, including, but not limited to the costs of Charge 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+38BD, Initial Settlement Statement Reissue, Recalculation Settlement Statement and Recalculation Settlement Statement T+76BD. Settlement Statement The re-calculation of a Settlement Statement in accordance with the Re-run provisions of the CAISO Tariff. 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 The Unit Commitment procedure run at approximately T-52.5 minutes Commitment (STUC) 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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 946 FOURTH REPLACEMENT VOLUME NO. II 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	The process that the CAISO will conduct to ensure that allocated and
Test (SFT)	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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Site Exclusivity Deposit	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
	3. 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.

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	An automatic protection system designed to detect abnormal or
(SPS)	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	The obligation of a Scheduling Coordinator to pay its share of costs
Obligations	incurred by the CAISO in procuring Spinning Reserve.
SPS	Special Protection System
SQMDS	Settlement Quality Meter Data Systems

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 948 FOURTH REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 948

Stand Alone Network Upgrades	Network Upgrades that an Interconnection Customer may construct
opgrades	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	The form of interconnection agreement applicable to an Interconnection
Interconnection Agreement (LGIA)	Request pertaining to a Large Generating Facility, a pro forma version of
	which is set forth in Appendix V.
Standard Large Generator	The interconnection procedures applicable to an Interconnection
Interconnection Procedures (LGIP)	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.

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	A retail End-Use Customer of a Participating TO that also provides retail
Customer	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.

Start-Up Time	The time period required for a resource to go from Off to its Minimum
	Load.
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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 951 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
	Planning Process.
Sub-LAP	A CAISO defined subset of PNodes within a Default LAP.
Submission to Self-	A submission to the CAISO containing all of the bidding requirements for
Provide an Ancillary Service	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.

System Marginal Energy	The component of the LMP that reflects the marginal cost of providing
Cost (SMEC)	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

shall not be less than zero.

Schedule 3 to Appendix F. The TAC Benefit of a New Participating TO

First Revised Sheet No. 953 Superseding Original Sheet No. 953

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	A Participating TO that is the beneficiary of outstanding Tax Exempt
то	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.
ТСА	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.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATIONFERC ELECTRIC TARIFFFirst Revised Sheet No. 954FOURTH REPLACEMENT VOLUME NO. IISuperseding Original Sheet No. 954

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.
то	Transmission Owner

Original Sheet No. 955

The permitted area of variation for performance requirements of **Tolerance Band** 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.

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	The sum of the Net IFM Bid Cost Uplift, the Net RUC Bid Cost Uplift,
Uplift	and the Net RTM Bid Cost Uplift, for all Settlement Intervals in the IFM,
	RUC and RTM.
Total Import Capability	The 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	The sum of the positive IFM Bid Cost Uplift, positive RUC Bid Cost Uplift
Markets 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 Day	The 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.

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 Month	The 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.

Original Sheet No. 958

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	The charge for Transmission Losses based on the Marginal Cost of	
Charge	Losses at the Pricing Node.	
Transmission Owner (TO)	An entity owning transmission facilities or having firm contractual rights	
	to use transmission facilities.	
Transmission Ownership	The ownership or joint ownership right to transmission facilities within	
Right (TOR)	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	A tariff setting out a Participating TO's rates and charges for	
Tariff (TO Tariff)	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	The process by which the CAISO assesses the CAISO Controlled Grid	
Process	as set forth in Section 24.	

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Second Revised Sheet No. 959 FOURTH REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 959

Transmission Reliability Margin (TRM)	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 Transmission Facilities of a Non-Load-Serving Form 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 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.

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
	Existing Rights and Converted Rights.
Transmission Rights and	Operational directives developed (i) between Existing Rights holders
Transmission Curtailment (TRTC) Instructions	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
	test operations and commissioning of a Generating Unit prior to
	Commercial Operation.
TRM	Transmission Reliability Margin
TRR	Transmission Revenue Requirement
TRTC Instructions	Transmission Rights and Transmission Curtailment Instructions
Trustee	The trustee of the California Independent System Operator trust
	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.

Effective: _____

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF First Revised Sheet No. 961 FOURTH REPLACEMENT VOLUME NO. II Superseding Original Sheet No. 961

TTC	Total Transfer Capability
UDC	Utility Distribution Company
UDCOA	Utility Distribution Company Operating Agreement
UDP	Uninstructed Deviation Penalty
UDP Aggregation	Two 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 Amount	The 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	The difference in Energy, for each utility Service Area and Settlement
(UFE)	Period, between the net Energy delivered into the utility Service Area,
	adjusted for utility Service Area Transmission Losses and the total
	Metered 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 <mark>Energy</mark> in Real-Time.

First Revised Sheet No. 962 Superseding Original Sheet No. 962

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	The assumptions to be developed pursuant to Section 24.2.1 and used,	
Assumptions	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.	

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.

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)	An agreement between the CAISO and a Utility Distribution Company, a <i>pro forma</i> version of which is set forth in Appendix B.8.
Validation, Estimation and Editing (VEE)	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.

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	The network of transmission lines embodied within the WECC region.	
Western Systems Coordinating Council (WSCC)	The Western Systems Coordinating Council or its successor, the WECC.	
Western Systems Power Pool	An organization of participants in the electricity markets that have	
	developed and maintain the Western Systems Power Pool Agreement.	
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 non-	
	economy 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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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	The Western Systems Coordinating Council Reliability Criteria	
Agreement	Agreement dated June 18, 1999 among the WSCC and certain of its	
	Member transmission operators, as such may be amended from time to	
	time.	