(Open Access Transmission Tariff)

Effective as of March 16, 2018

Table of Contents

1.	Defin	itions	and In	terpre	tation
		_			

- General Provisions of Article I Applicable To CAISO Tariff 1.1
- 1.2 Definitions
- Rules of Interpretation 1.3
 - 1.3.1 "Includes" Means "Including Without Limitation"
 - 1.3.2 Specific Rules of Interpretation Subject to Context

2. **Access to the CAISO Controlled Grid**

- 2.1 **Open Access**
- 2.2 Customer Eligibility for Direct Access or Wholesale Sales

3. Local Furnishing, Other Tax Exempt Bond Facility Financing

4. Roles and Responsibilities

- 4.1 [Not Used]
- 4.2 Market Participant Responsibilities
 - Comply with Dispatch Instructions and Operating Orders
 - 4.2.2 Implementation of Instructions
- 4.3 Relationship between CAISO and Participating TOs
 - 4.3.1 Nature of Relationship
- 4.4 Relationship Between CAISO and UDCs
 - 4.4.1 General Nature of Relationship Between CAISO and UDCs
 - 4.4.2 **UDC** Responsibilities
 - System Emergency Reports: UDC Obligations 4.4.3
 - 4.4.4 Coordination of Expansion or Modifications to UDC Facilities
 - 4.4.5 Information Sharing
 - Installation of and Rights of Access to UDC Facilities 4.4.6
 - 4.4.7 Provision of Information for CRRs to Reflect Load Migration
 - 4.4.8 **UDC Facilities Under CAISO Control**
- 4.5 Responsibilities of a Scheduling Coordinator
 - 4.5.1 Scheduling Coordinator Certification 4.5.2 Eligible Customers and Convergence Bidding Entities
 - 4.5.3 Responsibilities of a Scheduling Coordinator
 - Operations of a Scheduling Coordinator 4.5.4
 - Relationship Between CAISO and Generators
- 4.6 General Responsibilities 4.6.1

 - 4.6.2 [Not Used]
 - 4.6.3 Requirements for Certain Participating Generators
 - 4.6.4 Identification of Generating Units
 - 4.6.5 **NERC** and WECC Requirements
 - 4.6.6 **Forced Outages**
 - 4.6.7 Recordkeeping; Information Sharing
 - 4.6.8 Sharing Information on Reliability of CAISO Controlled Grid
 - 4.6.9 Access Right
 - 4.6.10 RMTMax for CHP Resources
- 4.7 Relationship Between CAISO and Participating Loads
- 4.8 Relationships Between CAISO and Intermittent Resources
 - Bidding and Settlement 4.8.1
 - 4.8.2 Forecasting
 - PIRP Protective Measures 4.8.3
- 4.9 Metered Subsystems
 - General Nature of Relationship Between CAISO and MSS 4.9.1
 - 4.9.2 Coordination of Operations
 - 4.9.3 Coordinating Maintenance Outages of MSS Facilities

- 4.9.4 MSS Operator Responsibilities
- 4.9.5 Scheduling by or on Behalf of a MSS Operator
- 4.9.6 System Emergencies
- 4.9.7 Coordination of Expansion or Modification to MSS Facilities
- 4.9.8 Ancillary Services Obligations for MSS
- 4.9.9 [Not Used]
- 4.9.10 Information Sharing
- 4.9.11 Installation of and Rights of Access to MSS Facilities
- 4.9.12 MSS System Unit
- 4.9.13 MSS Elections and Participation in CAISO Markets
- 4.10 Candidate CRR Holder and CRR Holder Registration
 - 4.10.1 Procedure to Become a Candidate CRR Holder
 - 4.10.2 Ongoing Obligations after Registration and Qualifications
 - 4.10.3 Termination of a CRR Entity Agreement
- 4.11 Relationship Between CAISO and SUDCs
 - 4.11.1 General Nature of Relationship Between CAISO and SUDCs
 - 4.11.2 Coordinating Maintenance Outages of SUDC Facilities
 - 4.11.3 SUDC Responsibilities
 - 4.11.4 System Emergencies
 - 4.11.5 Load Reduction
 - 4.11.6 System Emergency Reports: SUDC Obligations
 - 4.11.7 Coordinating Expansion or Modifications to SUDC Facilities
 - 4.11.8 Information Sharing
 - 4.11.9 Equipment Installation and Access Rights to SUDC Facilities
- 4.12 Relationship of CAISO and Resource-Specific System Resources
 - 4.12.1 General Responsibilities
 - 4.12.2 Identification of Resource-Specific System Resources
 - 4.12.3 Telemetry Data to Demonstrate Compliance
 - 4.12.4 Recordkeeping
 - 4.12.5 Access Rights
- 4.13 DRPs, RDRRs, and PDRs
 - 4.13.1 Relationship Between CAISO and DRPs
 - 4.13.2 Applicable Requirements for RDRRs, PDRs and DRPs
 - 4.13.3 Identification of RDRRs and PDRs
 - 4.13.4 Performance Evaluation Methodologies for PDRs and RDRRs
 - 4.13.5 Characteristics of PDRs and PDRRs
- 14.4 Relationship Between the CAISO and CBEs
 - 4.14.1 Procedure to Become a Convergence Bidding Entity
 - 4.14.2 Convergence Bidding Entity's Ongoing Obligations
 - 4.14.3 Termination of a Convergence Bidding Entity Agreement
- 4.15 Relationships Between CAISO and Pseudo-Ties to CAISO
- 4.16 Relationships Between CAISO and Pseudo-Ties Out
- 4.17 Distributed Energy Resource Aggregations
 - 4.17.1 CAISO Relationship with Distributed Energy Resource Providers
 - 4.17.2 Responsibilities of Distributed Energy Resource Providers
 - 4.17.3 Requirements for Distributed Energy Resource Aggregations
 - 4.17.4 Identification of Distributed Energy Resources
 - 4.17.5 Characteristics of Distributed Energy Resource Aggregations
 - 4.17.6 Operating Requirements

5. Black Start and System Restoration

- 5.1 Black Start Capability
- 5.2 Black Start Units
- 5.3 Black Start Services

6. Communications

- 6.1 Methods of Communication
 - 6.1.1 Full-Time Communications Facility Requirements
 - 6.1.2 Information Transfer from Scheduling Coordinator to CAISO
 - 6.1.3 Submitting Information to the Secure Communication System
 - 6.1.4 Information Transfer from CAISO to Scheduling Coordinator
 - 6.1.5 Information to be Provided by Connected Entities to CAISO
- 6.2 CAISO's Secure Communication System
 - 6.2.1 Scheduling Coordinators
 - 6.2.2 Public Market Information
- 6.3 Communication of Dispatch Instruction
 - 6.3.1 SC Responsibility for Communications to Generator or Load
 - 6.3.2 Recording of Dispatch Instructions
 - 6.3.3 Contents of Dispatch Instructions
- 6.4 Communication of Operating Orders
- 6.5 CAISO Communications
 - 6.5.1 Communication with Market and CRR Participants and Public
 - 6.5.2 Communications Prior to the Day-Ahead Market
 - 6.5.3 Day-Ahead Market Communications
 - 6.5.4 RTM Communications Before the Trading Hour
 - 6.5.5 Real-Time Market Communications During the Trading Hour
 - 6.5.6 Market Bid Information
 - 6.5.7 Monthly Report on Conforming Transmission Constraints
 - 6.5.8 Virtual Award Information
 - 6.5.9 Transmission Flowgate Constraint Information
 - 6.5.10 Protected Communications with Market Participants
 - 6.5.11 Aggregate Generation Outage Data
 - 6.5.12 Wind and Solar Forecast and Output

7. System Operations Under Normal and Emergency Conditions

- 7.1 CAISO Control Center Operations
 - 7.1.1 Maintain CAISO Control Center
 - 7.1.2 Maintain Back-Up Control Facility
 - 7.1.3 CAISO Control Center Authorities
- 7.2 Operating Reliability Criteria
- 7.3 Transmission Planning Authority
 - 7.3.1 Criteria for CAISO's Operational Control
 - 7.3.2 Planning Guidelines; Revision of Local Reliability Criteria
 - 7.3.3 NAESB Standards
- 7.4 General Standard of Care
- 7.5 Routine Operation of the CAISO Controlled Grid
 - 7.5.1 CAISO Controlled Facilities
 - 7.5.2 Clearing Equipment for Work
 - 7.5.3 Equipment De-Energized for Work
 - 7.5.4 Hot-Line Work
 - 7.5.5 Intertie Switching
 - 7.5.6 Operating Voltage Control Equipment
- 7.6 Normal System Operations
 - 7.6.1 Actions for Maintaining Reliability of CAISO Controlled Grid
- 7.7 Management of Abnormal System Conditions
 - 7.7.1 CAISO Actions in Imminent or Actual System Emergency
 - 7.7.2 Market Participant Responsibilities in System Emergencies.
 - 7.7.3 Suspension of CAISO Markets and Application of Administrative Price.
 - 7.7.4 Preparatory Actions for a System Emergency
 - 7.7.5 Actions Subsequent to a System Emergency
 - 7.7.6 System Operations in the Event of a Market Disruption

- 7.7.7 Removal of Bids in the Event of a Market Disruption, to Prevent a Market Disruption, or to Minimize the Extent of a Market Disruption
- 7.7.8 Under Frequency Load Shedding (UFLS).
- 7.7.9 Application of Administration Prices and Use of Prior Market Results
- 7.7.10 CAISO Facility and Equipment Outage
- 7.7.11 [Not Used]
- 7.7.12 [Not Used]
- 7.7.13 [Not Used]
- 7.7.14 [Not Used]
- 7.7.15 [Not Used]
- 7.8 Management of Overgeneration Conditions
 - 7.8.1 Dispatch Instructions to Reduce Generation and Imports
 - 7.8.2 Notification of Projected Overgeneration to be Mitigated
 - 7.8.3 Energy Offered for Sale to Adjacent Balancing Authorities
 - 7.8.4 Instructions to SCs to Reduce Generation or Imports
 - 7.8.5 Mandatory Dispatch Instructions for Specific Reductions
 - 7.8.6 CAISO Costs to be Reimbursed Proportionately by SCs
- 7.9 Suspension or Limitation of Virtual Bidding
 - 7.9.1 Suspension or Limitation Generally
 - 7.9.2 Reasons for Suspension or Limitation
 - 7.9.3 Procedures Regarding Suspension or Limitation

8. Ancillary Services

- 8.1 Scope
- 8.2 Ancillary Services Standards
 - 8.2.1 Determination of Ancillary Service Standards
 - 8.2.2 Time-Frame for Revising Ancillary Service Standards
 - 8.2.3 Quantities of Ancillary Services Required; Use of AS Regions
- 8.3 Procurement; Certification and Testing; Contracting Period
 - 8.3.1 Procurement of Ancillary Services
 - 8.3.2 Procurement from Internal and External Resources
 - 8.3.3 Ancillary Service Regions and Regional Limits
 - 8.3.4 Certification and Testing Requirements
 - 8.3.5 Daily and Hourly Procurement
 - 8.3.7 AS Bidding Requirements
 - 8.3.8 Procurement of Voltage Support
- 8.4 Technical Requirements for Providing Ancillary Services
 - 8.4.1 Operating Characteristics Required to Provide AS
 - 8.4.2 Ancillary Service Control Standards
 - 8.4.3 Ancillary Service Capability Standards
 - 8.4.4 Ancillary Service Availability Standards
 - 8.4.5 Communication Equipment
 - 8.4.6 Metering Infrastructure
- 8.5 Time Frame to Submit and Evaluate Ancillary Service Bids
- 8.6 Obligations for and Self-Provision of Ancillary Services
 - 8.6.1 Ancillary Service Obligations
 - 8.6.2 Right to Self-Provide
 - 8.6.3 Services which may be Self-Provided
 - 8.6.4 Time Frame for Informing CAISO of Self-Provision
- 8.7 Ancillary Service Awards
- 8.8 [Not Used]
- 8.9 Verification, Compliance Testing, and Auditing
 - 8.9.1 Compliance Testing for Spinning Reserve
 - 8.9.2 Compliance Testing for Regulation
 - 8.9.3 Compliance Testing for Non-Spinning Reserve
 - 8.9.4 Compliance Testing for Voltage Support

8.9.5 [Not Used] 8.9.6 [Not Used] 8.9.7 Consequences of Failure to Pass Compliance Testing Performance Audits for Standard Compliance 8.9.8 8.9.9 Performance Audit for Regulation 8.9.10 Performance Audit for Spinning Reserve 8.9.11 Performance Audit for Non-Spinning Reserve 8.9.12 [Not Used] 8.9.13 [Not Used] 8.9.14 [Not Used] 8.9.15 Consequences of Failure to Pass Performance Audit 8.9.16 Sanctions for Poor Performance Periodic Testing of Units 8.10 8.10.1 Regulation Up and Regulation Down Reserves 8.10.2 Spinning Reserve 8.10.3 Non-Spinning Reserve 8.10.4 Voltage Support 8.10.5 [Not Used] 8.10.6 [Not Used] 8.10.7 Penalties for Failure to Pass Tests 8.10.8 Rescission of Payments for Ancillary Service Capacity Temporary Changes to Ancillary Service Penalties 8.11 8.11.1 Application and Termination 8.11.2 Exemption for Penalties Due to CAISO Software Limitations

9. Outages

- 9.1 Coordination and Approval for Outage
- 9.2 Responsibility for Authorized Work on Facilities
- 9.3 Coordination of Outages and Maintenance
 - 9.3.1 CAISO Outage Coordination Functions
 - 9.3.2 Requirement for Approval
 - 9.3.3 Request Submission and Information
 - 9.3.4 Single Point of Contact
 - 9.3.5 Method of Communication
 - 9.3.6 Maintenance Outage Planning
 - 9.3.7 Maintenance Outage Requests by the CAISO
 - 9.3.8 CAISO Notice Required Re Maintenance Outages
 - 9.3.9 Final Approval, Delay and Withholding
 - 9.3.10 Forced Outages
- 9.4 Outage Coordination for New Facilities
 - 9.4.1 Coordination by CAISO
 - 9.4.2 Types of Work Requiring Coordination
 - 9.4.3 Uncomplicated Work
 - 9.4.4 Special Procedures for More Complex Work
- 9.5 Information About Outages
 - 9.5.1 Approved Maintenance Outages
 - 9.5.2 Publication to Website
- 9.6 Facility Power
- 9.7 Multi-Stage Generating Resources Outages

10. Metering

- 10.1 General Provisions
 - 10.1.1 Role of the CAISO
 - 10.1.2 Meter Data Retention by the CAISO
 - 10.1.3 Netting
 - 10.1.4 Meter Service Agreements

- 10.1.5 Access to Meter Data
- 10.1.6 Failure of CAISO Facilities or System
- 10.1.7 Provision of Statistically Derived Meter Data
- 10.2 Metering for CAISO Metered Entities
 - 10.2.1 Responsibilities of CAISO Metered Entities
 - 10.2.2 Duty to Install and Maintain Meters
 - 10.2.3 Metering Standards
 - 10.2.4 Certification of Meters
 - 10.2.5 CAISO Authorized Inspectors
 - 10.2.6 Metering Communications
 - 10.2.7 Format of Meter Data
 - 10.2.8 Security and Meter Data Validation Procedures
 - 10.2.9 Validation, Estimation and Editing of Meter Data
 - 10.2.10 Low Voltage Side Metering
 - 10.2.11 Audit, Testing Inspection and Certification Requirements
 - 10.12.2 Exemptions
 - 10.2.13 Maintenance of Metering Facilities
 - 10.2.14 Installation of Additional Metering Facilities
- 10.3 Metering For Scheduling Coordinator Metered Entities
 - 10.3.1 Applicability
 - 10.3.2 Responsibilities of Scheduling Coordinators and the CAISO
 - 10.3.3 Loss Factors
 - 10.3.4 Load Profile Authorization
 - 10.3.5 Communication of Meter Data
 - 10.3.6 Settlement Quality Meter Data Submission
 - 10.3.7 Meter Standards
 - 10.3.8 Access to Meter Data
 - 10.3.9 Certification of Meters
 - 10.3.10 Requirement for Audit and Testing
 - 10.3.11 Scheduling Coordinator to Ensure Certification
 - 10.3.12 [Not Used]
 - 10.3.13 [Not Used]
 - 10.3.14 Approval by LRA of Security and Validation Procedures
 - 10.3.15 [Not Used]
 - 10.3.16 [Not Used]
 - 10.3.17 Meter Identification
- 10.4 Exemptions
 - 10.4.1 Authority to Grant Exemptions
 - 10.4.2 Guidelines for Granting Exemptions
 - 10.4.3 Procedure for Applying for Exemptions
 - 10.4.4 Permitted Exemptions

11. CAISO Settlements and Billing

- 11.1 Settlement Principles
 - 11.1.1 [Not Used]
 - 11.1.2 Settlement Charges and Payments
 - 11.1.3 Financial Transaction Conventions and Currency
 - 11.1.4 CAISO Estimates for Initial Settlement Statement T+3B
 - 11.1.5 SQMD for Recalculation Settlement State T+12B
- 11.2 Settlement of Day-Ahead Market Transactions
 - 11.2.1 IFM Settlements
 - 11.2.2 Calculation of Hourly RUC Compensation
 - 11.2.3 IFM Energy Charges and Payments for Metered Subsystems
 - 11.2.4 CRR Settlements
 - 11.2.5 Payment by OBAALSE for CRRs Through CRR Allocation Process
- 11.3 Settlement of Virtual Awards

- 11.3.1 Virtual Supply Awards
- 11.3.2 Virtual Demand Awards
- 11.4 Black Start Settlements
 - 11.4.1 Black Start Energy
 - 11.4.2 Black Start Capability
- 11.5 Real-Time Market Settlements
 - 11.5.1 Imbalance Energy Settlements
 - 11.5.2 Uninstructed Imbalance Energy
 - 11.5.3 Unaccounted For Energy (UFE)
 - 11.5.4 Imbalance Energy Pricing; Non-Zero Offset Amount Allocation
 - 11.5.5 Settlement Amount for Residual Imbalance Energy
 - 11.5.6 Settlement Amounts for RTD IIE from Exceptional Dispatch
 - 11.5.7 Congestion Credit and Marginal Credit of Losses Credit
 - 11.5.8 Settlement for Emergency Assistance
 - 11.5.9 Flexible Ramping Product
- 11.6 PDRs, RDRRs, Distributed Energy Resource Aggregations, Non-Generator Resources
 - 11.6.1 Settlement of Energy Transactions Involving PDRs or RDRRs Using Customer Load Baseline Methodology
 - 11.6.2 Settlement of Energy Transactions Using Metering Generator Output Methodology
 - 11.6.3 Settlement of Energy Transactions Involving PDRs or RDRRs Using Customer Load Baseline and Metering Generator Output Methodologies
 - 11.6.4 Settlement of Distributed Energy Resource Aggregations
 - 11.6.5 Settlement of Non-Generator Resources
- 11.7 Additional MSS Settlements Requirements
 - 11.7.1 MSS Load Following Deviation Penalty
 - 11.7.2 Neutrality Adjustments and Charges Assessed on MSS SC
 - 11.7.3 Available MSS Operator Exemption for Certain Program Charges
 - 11.7.4 Emission Cost Responsibility of an SC for an MSS
- 11.8 Bid Cost Recovery
 - 11.8.1 CAISO Determination of Self-Commitment Periods
 - 11.8.2 IFM Bid Cost Recovery Amount
 - 11.8.3 RUC Bid Cost Recovery Amount
 - 11.8.4 RTM Bid Cost Recovery Amount
 - 11.8.5 Unrecovered Bid Cost Uplift Payment
 - 11.8.6 System-Wide IFM, RUC and RTM Bid Cost Uplift Allocation
- 11.9 Inter-SC Trades
 - 11.9.1 Physical Trades
 - 11.9.2 Inter-SC Trades at Aggregated Pricing Nodes
- 11.10 Settlements for Ancillary Services
 - 11.10.1 Settlements for Contracted Ancillary Services
 - 11.10.2 Settlement for User Charges for Ancillary Services
 - 11.10.3 Spinning Reserves
 - 11.10.4 Non-Spinning Reserves
 - 11.10.5 Negative Operating Reserve Obligation Adjustment
 - 11.10.6 Upward Ancillary Services Neutrality Adjustment
 - 11.10.7 Voltage Support
 - 11.10.8 [Not Used]
 - 11.10.9 Settlements of Rescission of Payments for AS Capacity
- 11.11 RACs and Wheeling Transactions
 - 11.11.1 Regional Access Charge
 - 11.11.2 Wheeling Through and Wheeling Out Transactions
- 11.12 Participating Intermittent Resources
 - 11.12.1 Settlement of PIRP Protective Measures
 - 11.12.2 Allocation of PIRP Protective Measures Costs/Revenues
 - 11.12.3 Payment of Participating Intermittent Resource Fees

	11.12.4 [Not Used]
11.13	Settlements and Billing of RMR Charges and Payments
	11.13.1 Objectives
	11.13.2 Accounts 11.13.3 RMR Payments Calendar
	11.13.4 Information Provided by RMR Owners to the CAISO
	11.13.5 Validation of RMR Charges and RMR Refunds
	11.13.6 Description of the Billing Process
	11.13.7 Payment Procedures
	11.13.8 Overpayments
	11.13.9 Communications
	11.13.10 Confidentiality
11.14	Neutrality
	Payments Under Section 42.1 Contracts
11.16	Additional AS and RUC Payment Rescission Requirements
	11.16.1 Resources with More Than One Capacity Obligation
	11.16.2 Load-Following MSSs with an AS or RUC Capacity Obligation
11.17	Application of the Persistent Deviation Metric
	11.17.1 Persistent Deviation Threshold and Mitigation
	11.17.2 Shut-Down Adjustment11.17.3 Application of Persistent Deviation Metric to Eligible Intermittent Resource's
	Residual Imbalance Energy
11 18	Emissions Costs
	11.18.1 Obligation to Pay Emissions Costs Charges
	11.18.2 CAISO Emissions Costs Trust Account
	11.18.3 Rate for the Emission Cost Trust Account
	11.18.4 Adjustment of the Rate for the Emissions Cost Charge
	11.18.5 Credits and Debits of Emissions Cost Charges from SCs
	11.18.6 Submission of Emissions Cost Invoices
	11.18.7 Payment of Emissions Cost Invoices
11.19	FERC Annual Charges
	11.19.1 FERC Annual Charge Recovery Rate
	11.19.2 FERC Annual Charge Trust Account
	11.19.3 Determination of the FERC Annual Charge Recovery Rate 11.19.4 Credits and Debits of FERC Annual Charges from SCs
11.20	NERC/WECC Charges
11.20	11.20.1 Responsibility for NERC/WECC Charges
	11.20.2 [Not Used]
	11.20.3 [Not Used]
	11.20.4 Process for Invoicing NERC/WECC Charges
	11.20.5 Timely Payments
	11.20.6 NERC/WECC Charge Trust Account
	11.20.7 Preliminary and Final NERC/WECC Charge Invoices
	11.20.8 Provision of Payments and Information to the WECC
	11.20.9 Reliability Coordinator Charges
11.21	Make Whole Payments for Price Corrections
	11.21.1 CAISO Demand and Exports
11 22	11.21.2 Price Correction for Settlement of Virtual Awards
11.22	Grid Management Charge
	11.22.1 CAISO's Obligation 11.22.2 Costs Recovered Through the Grid Management Charge
	11.22.3 [Not Used]
	11.22.4 TOR Charges
	11.22.5 Bid Segment Fee

11.22.7 Inter-Scheduling Coordinator Trade Transaction Fee

11.22.6 CRR Transaction Fee

44.00		eduling Coordinator ID Charge		
11.23	0 ,			
11.24	24 [Not Used] 11.24.1 [Not Used]			
	11.24.2 [No	-		
	11.24.3 [No			
44.05	11.24.4 [No			
11.25		of Flexible Ramping Product		
		tlement of Forecasted Movement		
	11.25.2 Set	tlement of Uncertainty Requirement		
	11.25.4 [No			
11 26	11.25.5 [No	i Osedj		
11.26	[Not Used]	aport Charges		
		oport Charges		
11.28 11.29		Charging and Disbursing Default Interest		
11.29		Counterparty; Billing and Payment ng and Payment Process Based on Settlement Statement		
		e-Frame for Payments or Charges		
	11.29.2 Till 11.29.3 Pre			
	11.29.4 Sys	•		
		neral Principles for Production of Settlement Statements		
		ancing of Market Accounts in Absence of Meter Data		
		tlements Cycle		
		firmation and Validation		
		ment Procedures		
	11.29.10	Billing and Payment		
	11.29.11	Instructions for Payment		
	11.29.12	CAISO's Responsibilities		
	11.29.13	Non-Payment by a Scheduling Coordinator or CRR Holder		
	11.29.14	Enforcement Actions for Late Payments		
	11.29.15	[Not Used]		
	11.29.16	Prohibition on Transfers		
	11.29.17	Alternative Payment Procedures		
	11.29.18	[Not Used]		
	11.29.19	Payment Errors		
	11.29.20	Defaults		
	11.29.21	[Not Used]		
	11.29.22	Data Gathering and Storage		
	11.29.23	Communications		
	11.29.24	CAISO Payments Calendar		
11.30	Auditing			
11.31	Intertie Scho	edules Decline Charges		
		cline Monthly Charge – Imports		
	11.31.2 Decline Monthly Charge – Imports			
		cation of Import/Export Decline Monthly Charges		
11.32	5			
11.33	Setting Rev			
11.34		nvoice Charges for Transferred Frequency Response		
	11.34.1 Charge Allocation Basis			
	11.34.2 Calculation and Assessment			
	11.34.3 Responsibility to Pay Charges			
	11.34.4 Validation			
	11.34.5 Disputes and Corrections			
	11.34.6 Payment Default			
	11.34.7 Modification to Schedule			

12. Creditworthiness

- 12.1 Credit and Minimum Participation Requirements
 - 12.1.1 Unsecured Credit Limit
 - 12.1.2 Financial Security and Financial Security Amount
 - 12.1.3 Estimated Aggregate Liability
- 12.2 Review of Creditworthiness
- 12.3 Posting and Releases of Financial Security
 - 12.3.1 Self-Supply of UDC Demand
- 12.4 Calculation of Ongoing Financial Security Requirements
 - 12.4.1 Resolution of a CAISO Request for Additional Security Amount
 - 12.4.2 Dispute Process for a Request for Additional Security Amount
- 12.5 CAISO Enforcement Actions
 - 12.5.1 Under-Secured and Non-Compliance Market Participants
 - 12.5.2 Late Posting of Financial Security
- 12.6 Late Posting of Financial Security
 - 12.6.1 Credit Requirements for CRR Allocations
 - 12.6.2 Credit Requirements for CRR Auctions
 - 12.6.3 Credit Requirements for the Holdings of CRRs
 - 12.6.4 Credit Requirements for Sales of Allocated CRRs
- 12.7 Credit Obligations of New Responsible Utilities for RMR Costs
- 12.8 Credit Requirements Applicable to Virtual Bids
 - 12.8.1 Credit Check in the Day-Ahead Market
 - 12.8.2 Virtual Bid Reference Prices
 - 12.8.3 Adjustment of EAL After Close of the DAM
 - 12.8.4 Adjustment of EAL After the Close of the RTM

13. Dispute Resolution

- 13.1 Applicability
 - 13.1.1 General Applicability
 - 13.1.2 Disputes Involving Government Agencies
 - 13.1.3 Injunctive and Declaratory Relief
 - 13.1.4 Disputes Arising Under Section 11
- 13.2 Negotiation and Mediation
 - 13.2.1 Negotiation
 - 13.2.2 Statement of Claim
 - 13.2.3 Selection of Mediator
 - 13.2.4 Mediation
 - 13.2.5 Demand for Arbitration
- 13.3 Arbitration
 - 13.3.1 Selection of Arbitrator
 - 13.3.2 Disclosures Required of Arbitrators
 - 13.3.3 Arbitration Procedures
 - 13.3.4 Modification of Arbitration Procedures
 - 13.3.5 Remedies
 - 13.3.6 Summary Disposition
 - 13.3.7 Discovery Procedures
 - 13.3.8 Evidentiary Hearing
 - 13.3.9 Confidentiality
 - 13.3.10 Timetable
 - 13.3.11 Decision
 - 13.3.12 Compliance
 - 13.3.13 Enforcement
 - 13.3.14 Costs
- 13.4 Appeal of Award
 - 13.4.1 Basis for Appeal
 - 13.4.2 Appellate Record

- 13.4.3 Procedures for Appeals
- 13.4.4 Award Implementation
- 13.4.5 Judicial Review of FERC Orders
- 13.5 Allocation of Awards Payable by or to the CAISO
 - 13.5.1 Allocation of an Award
 - 13.5.2 Timing of Adjustments
 - 13.5.3 Method of Allocation

14. Uncontrollable Force, Indemnity, Liabilities, and Penalties

- 14.1 Uncontrollable Forces
- 14.2 Responsibilities of Affected Entity
- 14.3 Strikes, Lockouts or Labor Disputes
- 14.4 Market Participant's Indemnity
- 14.5 Limitation on Liability
 - 14.5.1 Limitation on Damages
 - 14.5.2 Exclusion of Certain Types of Loss
- 14.6 Potomac Economics, Ltd. Limitation of Liability
- 14.7 Allocation of Reliability-Related Penalty Costs
 - 14.7.1 Overview of Process
 - 14.7.2 Direct Allocation of Reliability Standards Penalties
 - 14.7.3 Indirect Allocation of Penalty Costs

15. Regulatory Filings

16. Existing Contracts

- 16.1 Continuation of Existing Contracts for Non-Participating TOs
 - 16.1.1 Participating TO Obligation
 - 16.1.2 Right to Use and Ownership of Facilities
 - 16.1.3 Existing Contract Dispute Resolution
 - 16.1.4 Conversion of PTO's Rights Under Existing Contracts
- 16.2 [Not Used]
- 16.3 Curtailment Under Emergency and Non-Emergency Conditions
 - 16.3.1 Emergency Conditions
 - 16.3.2 Non-Emergency Conditions
- 16.4 TRTC Instructions
 - 16.4.1 Responsibility to Create TRTC Instructions
 - 16.4.2 Responsible PTO Re Multiple PTO Parties to Existing Contracts
 - 16.4.3 Scheduling Coordinator Responsibilities
 - 16.4.4 Submission of TRTC Instructions
 - 16.4.5 TRTC Instructions Content
 - 16.4.6 Changes and Updates to TRTC Instructions
 - 16.4.7 Treatment of TRTC Instructions
 - 16.4.8 CAISO Role in Existing Contracts
 - 16.4.9 Implementation of TRTC Instructions
- 16.5 Treatment of Existing Contracts for Transmission Service
 - 16.5.1 System Emergency Exceptions
- 16.6 Valid ETC Self-Schedules
 - 16.6.1 Validation of ETC Self-Schedules
 - 16.6.2 Treatment of Invalid ETC Self-Schedules
 - 16.6.3 Treatment of Valid ETC Self-Schedules
 - 16.6.4 Notification to SCs of CAISO Determination
- 16.7 [Not Used]
- 16.8 [Not Used]
- 16.9 The HASP
 - 16.9.1 Scheduling Deadlines
- 16.10 The CAISO's Real-Time Process

16.11 Inter-Balancing Authority Area ETC Self-Schedule Bid Changes
 16.12 Intra-Balancing Authority Area ETC Self-Schedules Changes
 Transmission Ownership Bights (TORs)

17. Transmission Ownership Rights (TORs)

- 17.1 TRTC Instructions
 - 17.1.1 Responsibility to Create TRTC Instructions
 - 17.1.2 TOR Scheduling Coordinator Responsibilities
 - 17.1.3 Submission of TRTC Instructions
 - 17.1.4 TRTC Instructions Content
 - 17.1.5 Changes and Updates to TRTC Instructions
 - 17.1.6 CAISO Role in Accepting TRTC Instructions
 - 17.1.7 Implementation of TRTC Instructions
- 17.2 Treatment of TORs
 - 17.2.1 System Emergency Expectations
- 17.3 Valid TOR Self-Schedule
 - 17.3.1 Validation of TOR Self-Schedules
 - 17.3.2 Treatment of Invalid TOR Self-Schedules
 - 17.3.3 Settlement Treatment of Valid TOR Self-Schedules
 - 17.3.4 Notification to SCs of CAISO Determination
- 17.4 The HASP
 - 17.4.1 Scheduling Deadlines
- 17.5 The CAISO's Real-Time Process
- 17.6 Inter-Balancing Authority Area TOR Self-Schedule Bid Changes
- 17.7 Intra-Balancing Authority Area TOR Self-Schedule Changes
- 17.8 Existing Contracts Re TORs for Non-Participating TOs
 - 17.8.1 Participating TO Obligation
 - 17.8.2 Right to Use and Ownership of TORs
 - 17.8.3 Dispute Resolution for Existing Contracts Applicable to TORs
- 17.9 Conversion of PTOs' Rights Under Existing Contracts Re TORs
- 17.10 TOR Operations Obligations
- 18. [Not Used]
- 19. [Not Used]
- 20. Confidentiality
 - 20.1 CAISO
 - 20.2 Confidential Information
 - 20.3 Other Parties
 - 20.4 Disclosure
 - 20.5 Confidentiality
- 21. [Not Used]
- 22. Miscellaneous
 - 22.1 Audits
 - 22.1.1 Materials Subject to Audit
 - 22.1.2 CAISO Audit Committee
 - 22.1.3 Audit Results
 - 22.1.4 Availability of Records
 - 22.1.5 Confidentiality of Information
 - 22.1.6 Payments
 - 22.2 Assignment
 - 22.3 Term and Termination
 - 22.3.1 Effective Date of CAISO Tariff
 - 22.3.2 Termination of CAISO Tariff with Board and FERC Approval

22.4	Notice
	22.4.1 Effectiveness
	22.4.2 Addresses
	22.4.3 Notice of Changes in Operating Procedures and BPMs
22.5	Waiver
22.6	Staffing and Training to Meet Obligations
22.7	
22.8	
22.9	· · ·
22.10	,
22.10	
22.11	22.11.1 Process for Revisions of Business Practice Manuals
	22.11.2 Changes to BPM for BPM Change Management
22.42	22.11.3 Requests for and Access to Nonpublic Operating Procedures
22.12	L
22.13	Scheduling Responsibilities and Obligations
Categ	ories of Transmission Capacity
Comp	rehensive Transmission Planning Process
24.1	Overview
	24.1.1 [Not Used]
	24.1.2 [Not Used]
	24.1.3 [Not Used]
	24.1.4 [Not Used]
24.2	Nature of the Transmission Planning Process
	24.2.1 [Not Used]
	24.2.2 [Not Used]
	24.2.3 [Not Used]
	24.2.4 [Not Used]
24.3	Transmission Planning Process Phase 1
	24.3.1 Inputs to the Unified Planning Assumptions and Study Plan
	24.3.2 Content of the Unified Planning Assumptions and Study Plan
	24.3.3 Stakeholder Input – Unified Planning Assumptions/Study Plan
	24.3.4 Economic Planning Studies
	24.3.5 [Not Used]
24.4	Transmission Planning Process Phase 2
	24.4.1 Conducting Technical Studies
	24.4.2 Proposed Reliability Driven Transmission Solutions
	24.4.3 Phase 2 Request Window
	24.4.4 [Not Used]
	24.4.5 Determination of Needed Transmission Solutions
	24.4.6 Categories of Transmission Solutions
	24.4.7 Description of Transmission Solutions
	24.4.8 Additional Contents of Comprehensive Transmission Plan
	24.4.9 Phase 2 Stakeholder Process
	24.4.10 Transmission Plan Approval Process
24.5	Transmission Planning Process Phase 3
	24.5.1 Competitive Solicitation Process
	24.5.2 Project Sponsor Application and Information Requirements
	24.5.3 Project Sponsor and Proposal Qualifications
	24.5.4 Project Sponsor Selection Factors and Comparative Analysis
	24.5.5 Notice to Project Sponsors
	24.5.6 Competitive Solicitation Project Proposal Fee
24.6	Obligation to Construct Transmission Solutions
27.0	24.6.1 Approved Project Sponsor Reporting Requirements
	2 1.3.1 Approved Freguet openior Reporting Requirements

23.

24.

24.6.2 Delay in the Transmission Solution In-Service Date 24.6.3 Development and Submittal of Mitigation Plans 24.6.4 Inability to Complete the Transmission Solution 24.7 Documentation of Compliance with NERC Reliability Standards 24.8 Additional Planning Information 24.8.1 Information Provided by Participating TOs 24.8.2 Limitation on Regional Activities 24.8.3 Information Requested from Load Serving Entities 24.8.4 Information from BAAs and Regulators 24.8.5 Obligation to Provide Updated Information Participating TO Study Obligation 24.9 Operational Review and Impact Analysis 24.10 24.10.1 [Not Used] 24.10.2 [Not Used] 24.10.3 [Not Used] 24.10.4 [Not Used] 24.11 [Not Used] 24.11.1 [Not Used] 24.11.2 [Not Used] 24.11.3 [Not Used] 24.12 WECC and Interregional Coordination Interregional Transmission Proposals in the Regional Process 24.13.1 [Not Used] 24.13.2 [Not Used] Cost Responsibility for Transmission Additions or Upgrades 24.14.1 Project Sponsor Commitment to Pay Full Cost 24.14.2 Cost of Needed Addition or Upgrade to be Borne by PTO 24.14.3 CRR Entitlement for Project Sponsors Not Recovering Costs 24.14.4 RAC Treatment of New Regional Transmission Facilities Costs 24.15 Ownership of and Charges for Expansion Facilities 24.15.1 Transmission Additions and Upgrades under TCA 24.15.2 Access and Charges for Transmission Additions and Upgrades 24.16 Expansion by Local Furnishing Participating TOs **Evaluation of Interregional Transmission Projects** 24.17.1 Submission of Interregional Transmission Projects 24.17.2 Interregional Transmission Project Assessment 24.17.3 Selection in the Comprehensive Transmission Plan 24.17.4 Interregional Transmission Project Cost Recovery 24.17.5 Monitoring the Status of Interregional Transmission Projects 24.17.6 Delay in Interregional Transmission Project In-Service Date Order 1000 Common Interregional Tariff 24.18.1 Annual Interregional Information Exchange 24.18.2 Annual Interregional Coordination Meeting 24.18.3 Interregional Transmission Project Joint Evaluation Process 24.18.4 Interregional Cost Allocation Process 24.18.5 Application of Regional Cost Allocation Methodology

25. Interconnection of Generating Units and Facilities

- 25.1 Applicability
 - 25.1.1 Interconnection Request and Generating Unit Requirements
 - 25.1.2 Affidavit Requirements
- 25.2 Interconnection to the Distribution System
- 25.3 Maintenance of Encumbrances
- 25.4 Asynchronous Generating Facilities
 - 25.4.1 Asynchronous Generating Facilities-Reactive Power
- 25.5 Modifications to Generating Facilities

25.5.1 No Header

27.11 Natural Gas Constraint

		25.5.2 No Header 25.5.3 No Header
26.	Transn	nission Rates and Charges
	26.1	Access Charge
		26.1.1 Publicly Owned Electric Utilities Access Charge
		26.1.2 Regional Access Charge Settlement
		26.1.3 Distribution of RAC Revenues
		26.1.4 Wheeling
		26.1.5 Unbundled Retail Transmission Rates
	26.2	[Not Used]
		Addition of New Facilities After CAISO Implementation
	26.4	
	26.5	
	26.6	
		26.6.1 LCRIFs that Become Network Facilities
07	CAICO	Maybete and Ducasses
27.		Markets and Processes
	27.1	LMPs and Ancillary Services Marginal Prices 27.1.1 Locational Marginal Prices for Energy
		27.1.1 Locational Marginal Frices for Energy 27.1.2 Ancillary Service Prices
		27.1.2 Anchiary Service Frices 27.1.3 Regulation Mileage Clearing Price
	27.2	Load Aggregation Points (LAP)
		27.2.1 Metered Subsystems
		27.2.2 Determination of LAP Prices
	27.3	Trading Hubs
	27.4	Optimization in the CAISO Market Processes
		27.4.1 Security Constrained Unit Commitment
		27.4.2 Security Constrained Economic Dispatch
		27.4.3 CAISO Markets Scheduling and Pricing Parameters
	27.5	
		27.5.1 Network Models used in CAISO Markets
		27.5.2 Metered Subsystems
		27.5.3 Integrated Balancing Authority Areas
		27.5.4 Accounting for Changes in Topology in IFM27.5.5 Load Distribution Factor
		27.5.6 Management & Enforcement of Constraints in the CAISO Markets
	27.6	State Estimator
	27.7	Constrained Output Generation
	21.1	27.7.1 Election of Constrained Output Generator Status
		27.7.2 Election to Waive COG Status
		27.7.3 Constrained Output Generators in the IFM
		27.7.4 Constrained Output Generators in RUC
		27.7.5 Constrained Output Generators in the Real-Time Market
	27.8	Multi-Stage Generating Resources
		27.8.1 Registration and Qualification
		27.8.2 Information Requirements
		27.8.3 Changes in Status and Configurations of Resource
	27.9	Non-Generator Resources MWh Constraints
	27.10	Election to Use Non-Generator Resource Generic Modeling Functionality

28. Inter-SC Trades

- 28.1 Inter-SC Trades of Energy
 - 28.1.1 Purpose
 - 28.1.2 Availability of Inter-SC Trades of Energy
 - 28.1.3 Submission of Inter-SC Trades of Energy
 - 28.1.4 Information Requirements
 - 28.1.5 General Validation Rules for Inter-SC Trades
 - 28.1.6 Validation Procedures for Physical Trades
- 28.2 Inter-SC Trades of Ancillary Services
 - 28.2.1 Information Requirements
 - 28.2.2 Validation
 - 28.2.3 Submission of Inter-SC Trades of Ancillary Services
- 28.3 Inter-SC Trades of IFM Load Uplift Obligation
 - 28.3.1 Information Requirements
 - 28.3.2 Validation
 - 28.3.3 Submission of Inter-SC Trades of IFM Load Uplift Obligation

29. Energy Imbalance Market

- 29.1 General Provisions.
- 29.2 EIM Entity Access to the Real-Time Market
- 29.3 [Not Used]
- 29.4 Roles and Responsibilities
- 29.5 [Not Used]
- 29.6 Communications
- 29.7 EIM Operations Under Normal and Emergency Conditions.
- 29.8 [Not Used]
- 29.9 Outages and Critical Contingencies.
- 29.10 Metering and Settlement Data.
- 29.11 Settlements and Billing for EIM Market Participants.
- 29.12 Creditworthiness
- 29.13 Dispute Resolution
- 29.14 Uncontrollable Forces, Indemnity, Liabilities, and Penalties
- 29.15 [Not Used]
- 29.16 [Not Used]
- 29.17 EIM Transmission System
- 29.18 [Not Used]
- 29.19 [Not Used]
- 29.20 Confidentiality
- 29.21 [Not Used]
- 29.22 Miscellaneous Provisions in Addition to Section 22.
- 29.23 [Not Used]
- 29.24 [Not Used]
- 29.25 [Not Used]
- 29.26 Transmission Rates and Charges.
- 29.27 CAISO Markets and Processes.
- 29.28 Inter-SC Trades
- 29.29 [Not Used]
- 29.30 Bid and Self-Schedule Submission for CAISO Markets.
- 29.31 Day-Ahead.
- 29.32 Greenhouse Gas Regulation and EIM Bid Adders.
- 29.33 [Not Used]
- 29.34 EIM Operations
- 29.35 Market Validation and Price Correction
- 29.36 [Not Used]
- 29.37 Rules of Conduct
- 29.38 Market Monitoring

		[Not Used] [Not Used] [Not Used]
		[Not Used] Flexible Ramping Product
30.	Bid and	d Self-Schedule Submission for all CAISO Markets Bids, Including Self-Schedules
		30.1.1 Day-Ahead Market 30.1.2 Real-Time Market
	30.2	Bid Types
	30.3	[Not Used]
	30.4	Proxy Cost and Registered Cost Methodologies
		30.4.1 Start-Up and Minimum Load Costs
	30.5	Bidding Rules
		30.5.1 General Bidding Rules
		30.5.2 Supply Bids
		30.5.3 Demand Bids
		30.5.4 Wheeling Through Transactions
		30.5.5 Scheduling Sourcing/Sinking in Same Balancing Authority Area
		30.5.6 Non-Generator Resource Bids
	30.6	Bidding and Scheduling of PDRs and RDRRs
		30.6.1 Bidding and Scheduling of PDRs
		30.6.2 Bidding and Scheduling of RDRRs
		30.6.2 E-Tag Rules and Treatment of Intertie Schedules
		30.6.3 Net Benefits Test for Scheduling of PDRs or PDRRs
	30.7	Bid Validation
		30.7.1 Scheduling Coordinator Access
		30.7.2 Timing of CAISO Validation
		30.7.3 DAM Validation
		30.7.4 RTM Validation
		30.7.5 Validation of ETC Self-Schedules
		30.7.6 Validation and Treatment of Ancillary Services Bids
		30.7.7 Format and Validation of Operational Ramp Rates
		30.7.8 Format and Validation of Start-Up and Shut-Down Times
		30.7.9 Format and Validation of Start-Up Costs and Shut-Down Costs
	00.0	30.7.10 Format and Validation of Minimum Load Costs
	30.8	Bids on Out-of-Service Paths at Scheduling Points Prohibited
	30.9	Virtual Bids
	30.10	30.9.1 Virtual Bid Components
		Use of AC Solution and Nodal MW Constraints
	30.11	Filings to Recover Commitment-Related Fuel Costs
	30.12	Eligibility to Submit Filings to Recover Marginal Fuel-Related Costs
		30.12.1 Applicability 30.12.2 Notice and Process
		30.12.3 Documentation Required for FERC Filing
		30.12.4 Payment and Allocation Costs Recovered Per FERC Order
		out 2:11 aymont and / modation obtain too value 1 of 1 Ento order
31.	Day-Ah	nead Market
	31.1	Bid Submission and Validation in the Day-Ahead Market
	31.2	Day-Ahead MPM Process
		31.2.1 The Market Power Mitigation Process
		31.2.2 Bid Mitigation for RMR Units
		31.2.3 Bid Mitigation for Non-RMR Units
	31.3	Integrated Forward Market

31.3.1 Market Clearing and Price Determination 31.3.2 Congestion and Transmission Losses Cost Determination 31.3.3 Metered Subsystems 31.4 CAISO Market Adjustments to Non-Priced Quantities in the IFM 31.5 Residual Unit Commitment 31.5.1 RUC Participation 31.5.2 Metered Subsystem RUC Obligation 31.5.3 RUC Procurement Target 31.5.4 RUC Procurement Constraints 31.5.5 Selection and Commitment of RUC Capacity 31.5.6 Eligibility for RUC Compensation 31.5.7 Rescission of Payments for RUC Capacity Timing of Day-Ahead Scheduling 31.6 31.6.1 Criteria for Temporary Waiver of Timing Requirements 31.6.2 Information to be Published on Secure Communication System 31.6.3 Conditions Permitting CAISO to Abort Day-Ahead Market 31.6.4 [Not Used] 31.7 **Extremely Long-Start Commitment Process** 31.8 Constraints Enforced at Interties 31.8.1 Scheduling Constraints

32. [Not Used]

33. [Not Used]

- 33.1 [Not Used]
- 33.2 [Not Used]
- 33.3 [Not Used]
- 33.4 [Not Used]
- 33.5 [Not Used]
- 33.6 [Not Used]
- 33.7 [Not Used]
- 33.8 [Not Used]
 - 33.8.1 [Not Used]
- 33.9 [Not Used]

34. Real-Time Market

- 34.1 Inputs to the Real-Time Market
 - 34.1.1 Day-Ahead Market Results as Inputs to the Real-Tie Market
 - 34.1.2 Market Model and System Information
 - 34.1.3 Bids in the Real-Time Market
 - 34.1.4 Real-Time Validation of Schedules and Bids
 - 34.1.5 Mitigating Bids in the RTM

31.8.2 Physical Flow Constraints

- 34.2 The Hour-Ahead Scheduling Process
 - 34.2.1 The HASP Optimization
 - 34.2.2 Treatment of Self-Schedules in HASP
 - 34.2.3 Ancillary Services in the HASP and FMM
 - 34.2.4 HASP Results
 - 34.2.5 Cessation of the HASP
- 34.3 Real-Time Unit Commitment
 - 34.3.1 RTUC Optimization
 - 34.3.2 Commitment of Fast Start and Short Start Units
 - 34.3.3 [Not Used]
- 34.4 Fifteen Minute Market
 - 34.4.1 Real-Time Ancillary Services Procurement
- 34.5 Real-Time Dispatch

	34.5.1. Real-Time Economic Dispatch
	34.5.2 Real-Time Contingency Dispatch
04.0	34.5.3 Real-Time Manual Dispatch
34.6	Short-Term Unit Commitment
34.7	General Dispatch Principles
34.8	Dispatch Instructions to Units, Participating Loads, PDRs, and RDRRs
34.9	Utilization of the Energy Bids
	34.9.1 [Not Used] 34.9.2 [Not Used]
	34.9.3 [Not Used]
	34.9.4 [Not Used]
34.10	•
54.10	34.10.1 [Not Used]
	34.10.2 [Not Used]
34.11	
0 1. 1 1	34.11.1 System Reliability Exceptional Dispatches
	34.11.2 Other Exceptional Dispatches
	34.11.3 Transmission-Related Modeling Limitations
	34.11.4 Reporting Requirements
34.12	
	34.12.1 Increasing Supply
	34.12.2 Decreasing Supply
34.13	Means of Dispatch Communication
	34.13.1 Response Required by Resources to Dispatch Instructions
	34.13.2 Failure to Conform to Dispatch Instructions
34.14	Metered Subsystems
	34.14.1 [Not Used]
34.15	Treatment of Resource Adequacy Capacity in the RTM
	34.15.1 [Not Used]
	34.15.2 [Not Used]
	34.15.3 [Not Used]
	34.15.4 [Not Used]
	34.15.5 [Not Used]
	34.15.6 [Not Used]
34.16	Real-Time Activities in the Hour Prior to Settlement Period
	34.16.1 Confirm Interchange Transaction Schedules (ITSs)
	34.16.2 [Not Used]
2447	34.16.3 [Not Used]
34.17	•
	34.17.1 Resource Constraints 34.17.2 Calculation of Dispatch Operating Points After Instructions
	34.17.2 Calculation of Dispatch Operating Folins After instructions 34.17.3 [Not Used]
	34.17.4 Inter-Hour Dispatch of Resources with Real-Time Energy Bids
	34.17.5 Inter-Hour Resources Dispatch without Real-Time Energy Bids
	34.17.6 Intra-Hour Exceptional Dispatches
34.18	Real-Time Dispatch of RDRRs
01.10	34.18.1 Testing of RDRRs
34.18	Ancillary Services in the Real-Time Market
	34.18.1 Dispatch of Self-Provided Ancillary Services
34.19	Dispatch Information and Instructions
	34.19.1 Dispatch Information to be Supplied by the CAISO
	34.19.2 Dispatch Information to be Supplied by SC
	34.19.3 Dispatch Information to be Supplied by UDCs
	34.19.4 Dispatch Information to be Supplied by PTOs
	34.19.5 Dispatch Information to be Supplied by Balancing Authorities
34.20	Pricing Imbalance Energy

	34.21	34.20.1 General Principles 34.20.2 Determining Real-Time LMPs Temporary Waiver of Timing Requirements for the RTM 34.21.1 Criteria for Temporary Waiver 34.12.2 Information to be Published on Secure Communication System
35.	Market 35.1 35.2 35.3	Timing of Price Correction Process
	35.4 35.5 35.6	Scope of Price Corrections Price Correction Methodology Weekly Price Correction Report
36.	Conge	stion Revenue Rights
	36.1	
	36.2	Types of CRR Instruments
		36.2.1 CRR Obligations
		36.2.2 CRR Options
		36.2.3 Point-To-Point CRRs
		36.2.4 [Not Used]
		36.2.5 Monthly CRRs
		36.2.6 Seasonal CRRs
		36.2.7 Long Term CRRs
		36.2.8 Full Funding of CRRs
	36.3	CRR Specifications
		36.3.1 Quantity
		36.3.2 Term
	26.4	36.3.3 On-Peak and Off-Peak Specifications FNM for CRR Allocation and CRR Auction
	36.4	36.4.1 Transmission Capacity for CRR Allocation and CRR Auction
		36.4.2 Simultaneous Feasibility
		36.4.3 Outages that may Affect CRR Revenue; Scheduling Requirements
	36.5	Candidate CRR Holder and CRR Holder Requirements
	50.5	36.5.1 Creditworthiness Requirements
		36.5.2 Required Training
	36.6	[Not Used]
	36.7	Bilateral CRR Transactions
		36.7.1 Transfer of CRRs
		36.7.2 Responsibility of the CAISO
		36.7.3 CRR Holder Reporting Requirement
	36.8	CRR Allocation
		36.8.1 Structure of the CRR Allocation Process
		36.8.2 Load Eligible for CRRs and Eligible CRR Sinks
		36.8.4 Eligible Sources for CRR Allocation
		36.8.5 Load Migration Between LSEs
		36.8.6 Load Forecasts Used to Calculate CRR MW Eligibility
	26.0	36.8.7 Reconfiguration of CRRs CRR Allocation to OBAALSEs
	36.9	36.9.1 Showing of Legitimate Need
		36.9.2 Prepayment of Wheeling Access Charge
		36.9.3 CRR Eligible Quantities
		36.9.4 Eligible CRR Sources and Sinks
		36.9.5 Priority Nomination Process
		55.5.55mg 115mmadon 1 155555

36.11.2 Procedure for Allocating Merchant Transmission CRRs 36.11.3 CRRs Allocated to a Transmission Facility Project Sponsor 36.12 [Not Used] 36.13 CRR Auction 36.13.1 Scope of the CRR Auctions 36.13.2 Responsibilities of the CAISO Prior to Each CRR Auction 36.13.3 CRR Holder Creditworthiness 36.13.4 Bids in the CRR 36.13.5 Eligible Sources and Sinks for CRR Auction 36.13.6 Clearing of the CRR Auction 36.13.7 Announcement of CRR Auction Results 36.14 CRR Implications of new IBAAs or Modifying Existing IBAAs 36.14.1 Coordination of IBAA Changes with Release of CRRs 36.14.2 Modification to CRR Settlement to Reflect IBAA Changes 36.14.3 IBAA Change Impact on Adequacy of Previously-Released CRRs 36.15 [Not Used] Rules of Conduct 37.1 Objectives, Definitions, and Scope 37.1.1 Purpose 37.1.2 Objectives 37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 (Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.5.1 [Not Used] 37.6.1 Required by CAISO Tariff 37.6.1 Required Information 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8.4 Notice	36.10 36.11	CRR Allocation to Merchant Transmission Facilities 36.11.1 Eligibility for Merchant Transmission CRRs
36.13.2 Responsibilities of the CAISO Prior to Each CRR Auction 36.13.3 CRR Holder Creditworthiness 36.13.4 Bids in the CRR 36.13.5 Eligible Sources and Sinks for CRR Auction 36.13.6 Clearing of the CRR Auction Results 36.13.7 Announcement of CRR Auction Results 36.14.1 Coordination of IBAA changes with Release of CRRs 36.14.2 Modification to CRR Settlement to Reflect IBAA Changes 36.14.1 Coordination of IBAA Changes with Release of CRRs 36.14.2 Modification to CRR Settlement to Reflect IBAA Changes 36.14.3 IBAA Change Impact on Adequacy of Previously-Released CRRs [Not Used] Rules of Conduct 37.1 Objectives, Definitions, and Scope 37.1.1 Purpose 37.1.1 Purpose 37.1.2 Objectives Definitions, and Scope 37.1.2 Objectives Definitions of Other Remedies 37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2.1 Comply with Operating Orders 37.2.1 Comply with Operating Orders 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.4.1 Reporting Availability 37.5.2 Inaccurate or Late Actual SQMD 37.5.1 [Not Used] 37.5.1 [Not Used] 37.6.1 Required Information 37.5.1 [Not Used] 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC [Not Used] 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 [Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 [Investigation]		36.11.3 CRRs Allocated to a Transmission Facility Project Sponsor [Not Used] CRR Auction
36.13.6 Clearing of the CRR Auction 36.13.7 Announcement of CRR Auction Results 36.14 CRR Implications of new IBAAs or Modifying Existing IBAAs 36.14.1 Coordination of IBAA Changes with Release of CRRs 36.14.2 Modification to CRR Settlement to Reflect IBAA Changes 36.14.3 IBAA Change Impact on Adequacy of Previously-Released CRRs [Not Used] Rules of Conduct 37.1 Objectives, Definitions, and Scope 37.1.1 Purpose 37.1.2 Objectives 37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6.1 Required Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		36.13.2 Responsibilities of the CAISO Prior to Each CRR Auction 36.13.3 CRR Holder Creditworthiness 36.13.4 Bids in the CRR
36.14.2 Modification to CRR Settlement to Reflect IBAA Changes 36.14.3 IBAA Change Impact on Adequacy of Previously-Released CRRs 36.15 [Not Used] Rules of Conduct 37.1 Objectives, Definitions, and Scope 37.1.1 Purpose 37.1.2 Objectives 37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	36.14	36.13.6 Clearing of the CRR Auction 36.13.7 Announcement of CRR Auction Results CRR Implications of new IBAAs or Modifying Existing IBAAs
37.1 Objectives, Definitions, and Scope 37.1.1 Purpose 37.1.2 Objectives 37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	36.15	36.14.2 Modification to CRR Settlement to Reflect IBAA Changes 36.14.3 IBAA Change Impact on Adequacy of Previously-Released CRRs
37.1 Objectives, Definitions, and Scope 37.1.1 Purpose 37.1.2 Objectives 37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	Rulas	of Conduct
37.1.2 Objectives 37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.1.3 Application of Other Remedies 37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3. Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.1.4 [Not Used] 37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Complance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.1.5 Administration 37.2 Comply with Operating Orders 37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.2.1 Compliance with Orders Generally 37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6.1 Required Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.2.2 [Not Used] 37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	37.2	
37.2.3 Operations and Maintenance Practices 37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.2.4 Resource Adequacy Availability 37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6.1 Required Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.2.5 [Not Used] 37.2.6 [Not Used] 37.3.1 Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.2.6 [Not Used] 37.3 Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.3 Submit Feasible Bids and Submissions to Self-Provide 37.3.1 Bidding Generally 37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		•
37.3.2 Exceptions 37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	37.3	Submit Feasible Bids and Submissions to Self-Provide
37.4 Comply with Available Reporting Requirements 37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.4.1 Reporting Availability 37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	07.4	· · · · · · · · · · · · · · · · · · ·
37.4.2 Scheduling and Final Approval of Outages 37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5.1 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	37.4	
37.4.3 [Not Used] 37.4.4 Enhancements and Exceptions 37.5 Provide Factually Accurate Information 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.4.4 Enhancements and Exceptions 37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.5.1 [Not Used] 37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.5.2 Inaccurate or Late Actual SQMD 37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	37.5	
37.6 Provide Information Required by CAISO Tariff 37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.6.1 Required Information Generally 37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	07.0	
37.6.2 Investigation Information 37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation	37.6	·
37.6.3 Audit Materials 37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.6.4 Review by FERC 37.7 [Not Used] 37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.8 Process for Investigation and Enforcement 37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.8.1 Purpose; Scope 37.8.2 Referrals to FERC 37.8.3 Investigation		
37.8.2 Referrals to FERC 37.8.3 Investigation	37.8	
37.8.3 Investigation		

37.

	. III. replacement Electronic ram
	37.8.5 Opportunity to Present Evidence 37.8.6 Results of Investigation
	37.8.7 Statement of Findings and Conclusions
	37.8.8 Officer Representative
	37.8.9 Record of Investigation
	37.8.10 Review of Determination
37.9	Administration of Sanctions
	37.9.1 Assessment, Waivers and Adjustments
	37.9.2 [Not Used]
	37.9.3 Settlement
	37.9.4 Disposition of Proceeds
37.10	Miscellaneous
	37.10.1 Time Limitation
	37.10.2 No Limitation on other Rights
37.11	Method for Calculating Penalties
	37.11.1 Inaccurate or Late Actual SQMD Penalty
	37.11.2 Inaccurate or Actual SQMD Penalty without Recalculation Settlement Statement
Markot	Monitoring

38. Market Monitoring

39.	t Power Mitigation Procedures				
	39.1	Intent of CAISO Mitigation Measures; Additional FERC Filings			
39.2		Conditions for the Imposition of Mitigation Measures			
		39.2.1 Conduct Inconsistent with Competitive Conduct			
	39.3	Categories of Conduct that May Warrant Mitigation			
		39.3.1 Conduct Regarding Bidding, Scheduling or Facility Operation			
		39.3.2 Market Effects of Rules, Standards, Procedures, Other Items			
		39.3.3 Using Different Prices in Other Markets as Appropriate			
		39.3.4 Foregoing Category List Subject to Amendment as Appropriate			
	39.4	Sanctions for Physical Withholding			
	39.5	FERC-Ordered Measures			
	39.6	Rules Limiting Certain Energy, AS, and RUC Bids			
		39.6.1 Maximum Bid Prices			
	39.7	Local Market Power Mitigation for Energy Bids			
		39.7.1 Calculation of Default Energy Bids			
		39.7.2 Competitive Path Designation			
		39.7.3 Default Competitive Path Designations			
	39.8	Eligibility for Bid Adder			
		39.8.1 Bid Adder Eligibility Criteria			
		39.8.2 New Generating Units			
		39.8.3 Bid Adder Values			
	39.9	CRR Monitoring and Affiliate Disclosure Requirements			
	39.10	Mitigation of Exceptional Dispatches of Resources			
		39.10.1 Measures for Resources Eligible for Supplemental Revenues			
		3.10.2 Resources Not Eligible for Supplemental Revenues			
		39.10.3 Eligibility for Supplemental Revenues			
		39.10.4 Limitation on Supplemental Revenues			
	00.44	39.10.5 Calculation of Exceptional Dispatch Supplemental Revenues			
	39.11	Market Power Mitigation Applicable to Virtual Bidding			
		39.11.1 Affiliate Disclosure Requirements			

40. Resource Adequacy Demonstration for all SCs in the CAISO BAA

39.11.2 Monitoring of Virtual Bidding Activity

40.1 Applicability

40.1.1 [Not Used]

40.2 Information Requirements for Resource Adequacy Programs

40.2.1 Load Serving Entities 40.2.2 Non-CPUC Load Serving Entities 40.2.3 [Not Used] 40.2.4 Load-Following MSS 40.3 Local Capacity Area Resource Requirements for SCs for LSEs 40.3.1 Local Capacity Technical Study 40.3.2 Allocation of Local Capacity 40.3.3 Procurement of Local Capacity Area Resources by LSEs 40.3.4 [Not Used] 40.4 General Requirements on Resource Adequacy Resources 40.4.1 Eligible Resources and Determination of Qualifying Capacity 40.4.2 Net Qualifying Capacity Report 40.4.3 General Qualifications for Supplying Net Qualifying Capacity 40.4.4 Reductions for Testing 40.4.5 Reductions for Performance Criteria 40.4.6 Reductions for Deliverability 40.4.7 Submission of Supply Plans 40.5 [Not Used] 40.5.1 [Not Used] 40.5.2 [Not Used] 40.5.3 [Not Used] 40.5.4 [Not Used] 40.5.5 [Not Used] Requirements for SCs and Resources for LSEs 40.6 40.6.1 Day-Ahead Availability 40.6.2 Real-Time Availability 40.6.3 Additional Availability Requirements or Resources that are Not Long Start Units or Extremely Long Start Resources 40.6.4 Use-Limited Resources Additional Availability Requirements 40.6.5 Additional Availability Requirements for System Resources 40.6.6 Requirement for Partial Resource Adequacy Resources 40.6.7 Release of Long Start Units 40.6.8 Use of Generated Bids 40.6.9 Firm Liquidated Damages Contracts Requirements 40.6.10 Exports of Energy from Resource Adequacy Capacity 40.6.11 Curtailment of Exports in Emergency Situations 40.6.12 Participating Load, PDRs, and RDRRs 40.7 Compliance 40.7.1 Other Compliance Issues 40.7.2 Penalties for Non-Compliance 40.8 CAISO Default Qualifying Capacity Criteria 40.8.1 Applicability 40.9 Resource Adequacy Availability Incentive Mechanism 40.9.1 Transition to RAAIM 40.9.2 Exemptions 40.9.3 Availability Assessment 40.9.4 Availability Assessment 40.9.5 Availability Standard 40.9.6 Non-Availability Charges and Availability Incentive Payments 40.9.7 Reporting 40.10 Flexible RA Capacity 40.10.1 Flexible Capacity Needs Assessment 40.10.2 Allocation of Flexible Capacity Needs 40.10.3 Flexible Capacity Categories 40.10.4 Effective Flexible Capacity

40.10.5 Flexible RA Capacity Plans

40.10.6 Flexible RA Capacity Must-Offer Obligation

4.4			•
41.	Procurement	OT KINK	Generation

- 41.1 Procurement of Reliability Must-Run Generation by the CAISO
- 41.2 Designation of Generating Unit as Reliability Must-Run Unit
- 41.3 Reliability Studies and Determination of RMR Units Status
- 41.4 Reliability Must-Run Contracts
- 41.5 RMR Dispatch
 - 41.5.1 Day-Ahead and RTM RMR Dispatch
 - 41.5.2 RMR Payments
 - 41.5.3 RMR Units and Ancillary Services Requirements
- 41.6 Reliability Must-Run Charge
 - 41.6.1 No Offsets to Responsible Utility's CAISO Invoice Payments
 - 41.6.2 Refunds of Disputed Amounts on RMR Invoices
 - 41.6.3 Time-Frame for Responsible Utility to Dispute RMR Invoices
 - 41.6.4 Disputes After Operational Compliance Review
 - 41.6.5 Invoice Disputes Subject to RMR Contract Resolution Process
 - 41.6.6 RMR Owner's Rights as a Third Party Beneficiary
- 41.7 Responsibility for Reliability Must-Run Charge
- 41.8 Responsibility for RMR Charges Associated with SONGS41.9 Exceptional Dispatch of Condition 2 RMR Units
 - 41.9.1 Notification Required Before Condition 2 RMR Unit Dispatch

42. Adequacy of Facilities to Meet Applicable Reliability Criteria

- 42.1 Generation Planning Reserve Criteria
 - 42.1.1 No Header
 - 42.1.2 Applicable Reliability Criteria Met in Peak Demand
 - 42.1.3 Applicable Reliability Criteria Not Met in Peak Demand
 - 42.1.4 Lowest Cost Bids Satisfying Applicable Reliability Criteria
 - 42.1.5 CAISO to Take Necessary Steps to Ensure Criteria Compliance
 - 42.1.6 Long Term Forecast for Information Purposes
 - 42.1.7 Reliance on Market Forces to Maximize Possible Extent
 - 42.1.8 Allocation of Costs Incurred by CAISO in Trading Hour to SCs
 - 42.1.9 Costs for Difference in Schedules and Real-Time Deviations
- 42.2 Transferred Frequency Response
 - 42.2.1 Procurement of Transferred Frequency Response
 - 42.2.2 Allocation of Transferred Frequency Response Costs Incurred

43. Capacity Procurement Mechanism

- 43.1 Applicability
- 43.2 Capacity Procurement Mechanism Designation
 - 43.2.1 SC Failure to Show Sufficient Local Capacity Area Resource
 - 43.2.2 Collective Deficiency in Local Capacity Area Resources
 - 43.2.3 SC Failure to Show Sufficient Resource Adequacy Resources
 - 43.2.4 CPM Significant Events
 - 43.2.5 Exceptional Dispatch CPM
 - 43.2.6 Capacity at Risk of Retirement Needed for Reliability
 - 43.2.7 Cumulative Deficiency in Flexible RA Capacity
- 43.3 Terms of CPM Designation
 - 43.3.1 SC Annual Plan Failure to Show Local Capacity Area Resources
 - 43.3.2 SC Month Plan Failure to Show Local Capacity Area Resources
 - 43.3.3 Annual Plan Collective LCA Resources Insufficient
 - 43.3.4 SC Failure to Show Sufficient Resource Adequacy Resources
 - 43.3.5 Term CPM Significant Event
 - 43.3.6 Term Exceptional Dispatch CPM
 - 43.3.7 Term Capacity at Risk of Retirement Needed for Reliability

43.4	Selection of Eligible (ole Capacity CPM Designation Capacity Under the CPM	
	43.4.1 Limitation of 43.4.2 Designation A 3.4.3 Simultaneous		
43.5	Obligations of a Reso	ource Designated Under the CPM	
	43.5.1 Availability O		
		Provide Capacity and Termination bligations for Simultaneous Designations	
43.6	Reports	bligations for Simultaneous Designations	
10.0	43.6.1 CPM Designa	ation Market Notice	
		of a Resource Under the CPM	
		and Repeated Market Commitment on Non-RA Capacity	
43.7	43.6.4 [Not Used] Payments to Resources Designated Under the CPM		
10.7	43.7.1 Monthly CPM		
	43.7.2 Resource-Sp	ecific CPM Capacity Payment	
40.0	43.7.3 Market Paym		
43.8	Allocation of CPM Pa	yment Costs e of Local Capacity Area Resources in Annual Plan	
		e of Local Capacity Area Resources in Month Plan	
	43.8.3 Collective De	ficiency in Local Capacity Area Resources	
		e of Demand or Reserve Margin Requirement in Plan	
		CPM Significant Event Costs Exceptional Dispatch CPM	
		CPM Costs for Resources at Risk of Retirement	
		CPM Flexible Capacity Costs	
43.9	Crediting of CPM Cap	pacity	
43.10	[Not Used]		
Capaci	ity Procurement Mec	nanism	
	Applicability		
43A.2		nt Mechanism Designation Show Sufficient Local Capacity Area Resources	
		ctive Deficiency in Local Capacity Area Resources	
		ailure to Show Sufficient Resource Adequacy Resources	
		Significant Events	
		ptional Dispatch CPM	
		city at Risk of Retirement Needed for Reliability ulative Deficiency in Flexible RA Capacity	
43A.3	Terms of CPM Design	· · ·	
		nnual Plan Failure to Show Local Capacity Area Resources	
		Month Plan Failure to Show Local Capacity Area Resources all Plan Collective LCA Resources Insufficient	
		ailure to Show Sufficient Resource Adequacy Resources	
		- CPM Significant Event	
		- Exceptional Dispatch CPM	
		- Capacity at Risk of Retirement Needed for Reliability - Flexible Capacity CPM Designation	
43A.4		Capacity Under the CPM through Competitive Solicitation Processes	
107 11 1	(CSP) and General E		
	43A.4.1 Offer	Rules to the CSPs	
		nistering the CSPs	
43A.5		gnation Amount. ource Designated Under the CPM	
.5,0		ability Obligations.	

43A.

	43A.5.2 43A.5.3 43A.5.4	Obligation to Provide Capacity and Termination Availability Obligations for Simultaneous Designations. Individualized Non-Availability Charges and Availability Incentive Payments
43A.6	Reports	
	43A.6.1	CPM Designation Market Notice
	43A.6.2	Designation of a Resource Under the CPM
	43A.6.3	Non-Market and Repeated Market Commitment of Non-RA Capacity
	43A.6.4	Publication of Offers Submitted to the Competitive Solicitation Process
43A.7	Payments to Ca	apacity Designated Under the CPM
	43A.7.1.	Calculation of Monthly CPM Capacity Payment
	43A.7.2	Payments for Overlapping CPM Designations to the Same Resource
	43A.7.3	Market Payments
43A.8	Allocation of CI	PM Capacity Payment Costs
	43A.8.1	LSE Shortage of Local Capacity Area Resources in Annual Plan
	43A.8.2	LSE Shortage of Local Capacity Area Resources in Month Plan
	43A.8.3	Collective Deficiency in Local Capacity Area Resources
	43A.8.4	LSE Shortage of Demand or Reserve Margin Requirement in Plan
	43A.8.5	Allocation of CPM Significant Event Costs
	43A.8.6	Allocation of Exceptional Dispatch CPMs
	43A.8.7	Allocation of CPM Costs for Resources at Risk of Retirement
	43A.8.8	Allocation of Flexible Capacity CPM Costs
43A.9	Crediting of CP	
	[Not Used]	1 7
	[

44. Flexible Ramping Product

- 44.1 In General.
- 44.2 Uncertainty Awards
 - 44.2.1 Optimization.
 - 44.2.2 Variable Energy Resources.
 - 44.2.3 Eligibility for Uncertainty Award.
 - 44.2.4 Determination of Uncertainty Requirement.
- 44.3 Forecasted Movement
 - 44.3.1 Generally.
 - 44.3.2 RTD Forecasted Movement.
 - 44.3.3 FMM Forecasted Movement.

Appendix A Master Definition Supplement

Appendix B Pro Forma Agreements

Appendix B.1	Scheduling Coordinator Agreement
Appendix B.2	Participating Generator Agreement
Appendix B.3	Net Schedule Participating Generator Agreement
Appendix B.4	Participating Load Agreement
Appendix B.5	Dynamic Scheduling Agreement for Scheduling Coordinators
Appendix B.6	MSA for Metered Entities (MSA CAISOME)
Appendix B.7	Meter Service Agreement for Scheduling Coordinators
Appendix B.8	Utility Distribution Company Operating Agreement (UDCOA)
Appendix B.9	Dynamic Scheduling Host Balancing Authority Operating Agreement
	(DSHBAOA)
Appendix B.10	Small Utility Distribution Company Operating Agreement (SUDCOA)
Appendix B.11	Congestion Revenue Rights (CRR) Entity Agreement
Appendix B.12	Metered Subsystem (MSS) Entity Agent Agreement
Appendix B.13	Resource-Specific System Resource Agreement
Appendix B.14	Demand Response Provider Agreement (DRPA)
Appendix B.15	Convergence Bidding Entity Agreement (CEBA)

Appendix B.16 Appendix B.17 Appendix B.18 Appendix B.19 Appendix B. 20 Appendix B.21		Pseudo-Tie Participating Generator Agreement (PPGA) Energy Imbalance Market Entity Agreement (EIMIA) Energy Imbalance Market Scheduling Coordinator Agreement (EIMSCA) Energy Imbalance Market Participating Resource Agreement (EIMPRA) Energy Imbalance Market Participating Resource Scheduling Coordinator Agreement (EIMPRSCA) Distributed Energy Resource Provider Agreement (DERPA)
Appendix C	Locational Mar	ginal Price
Appendix D	Black Start Generating Units	
Appendix E	Submitted Ancillary Services Data Verification	
Appendix F	Rate Schedule	s
Appendix G	Pro Forma Rel	iability Must-Run Contract
Appendix H	Grandfathered	Metering and Settlement Provisions
Appendix I	Station Power	Protocol
Appendix J		Metering and Settlement Provisions for Trading Days Prior to October 1, andfathered Standard Capacity Product Provisions
Appendix K	Ancillary Service	ce Requirements Protocol (ASRP)
Appendix L	Method to Asse	ess Available Transfer Capability
Appendix M	Dynamic Sche	duling Protocol (DSP)
Appendix N	Pseudo-Tie Pro	otocol
Appendix O	CAISO Market	Surveillance Committee
Appendix P	CAISO Departi	ment of Market Monitoring
Appendix Q	Eligible Intermi	ttent Resource Protocol (EIRP)
Appendix R	Uninstructed D	eviation Penalty (UDP) Aggregation Protocol
Appendix S	Small Generate	or Interconnection Procedures (SGIP)
Appendix T	Small Generate	or Interconnection Agreement (SGIA) pro forma
Appendix U	Large Generate	or Interconnection Procedures (LGIP)
Appendix V	Large Generate	or Interconnection Agreement (LGIA) pro forma
Appendix W	Amendment No	o. 39 Interconnection Procedures
Appendix X	Approved Proje	ect Sponsor Agreement (APSA) pro forma
Appendix Y	Generator Inte	rconnection Procedures (GIP) for Interconnection Requests

Appendix Z Large Generator Interconnection Agreement for Interconnection Requests Process Under the Generator Interconnection Procedures Appendix AA [Not Used] Appendix BB Standard Large Generator Interconnection Agreement (LGIA) for Interconnection Requests in a Serial Study Group pro forma Appendix CC Large Generator Interconnection Agreement (LGIA) for Interconnection Requests in a Queue Cluster Window pro forma Appendix DD Generator Interconnection and Deliverability Allocation Procedures (GIDAP) Appendix EE Large Generator Interconnection Agreement (LGIA) for Interconnection Requests Processed Under the Generator Interconnection and Deliverability Allocation Procedures (GIDAP) pro forma Appendix FF Small Generator Interconnection Agreement (SGIA) for Interconnection Requests Processed Under the Generator Interconnection and Deliverability Allocation Procedures (GIDAP) pro forma Appendix GG One-Time Interconnecting Generator Downsizing Opportunity Appendix HH Generator Interconnection Agreement Amendment Regarding Downsizing Appendix II Market-Based Rate Authority Suspension