Table Of Contents

1. Definitions And Interpretation

1.1 General Provisions Of Article I Applicable To CAISO Tariff

- 1.2 Definitions
- 1.3 Rules Of Interpretation
 - 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
 - 4.2.1 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
 - 4.4.3 System Emergency Reports: UDC Obligations
 - 4.4.4 Coordination Of Expansion Or Modifications To UDC Facilities
 - 4.4.5 Information Sharing
 - 4.4.6 Installation Of And Rights Of Access To UDC Facilities
 - 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
 - 4.5.4 Operations Of A Scheduling Coordinator
- 4.6 Relationship Between CAISO And Generators
 - 4.6.1 General Responsibilities
 - 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
- 4.9 Metered Subsystems
 - 4.9.1 General Nature Of Relationship Between CAISO And MSS
 - 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 Modifications 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 Qualification

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 Right

4.13 Demand Response Providers and Proxy Demand Resources

4.13.1 Relationship Between CAISO and DRPs

4.13.2 Applicable Requirements for PDRs and DRPs

4.13.3 Identification of Proxy Demand Resources

4.13.4 Customer Baseline Methodologies for PDRs

4.14 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

5. [Not Used]

6. Communications

- 6.1 Methods Of Communications
 - 6.1.1 Full-Time Communications Facility Requirement
 - 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 Instructions
 - 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 HASP Communications

6.5.5 Real-Time Market Communications

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

6.5.13 Suspension of Publication

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 System Emergencies

- 7.7.1 System Emergency
- 7.7.2 Emergency Procedures

7.7.3 Notifications By CAISO Of System Conditions

7.7.4 Intervention In CAISO Market Operations

7.7.5 Emergency Guidelines

7.7.6 Periodic Tests Of Emergency Procedures

7.7.7 Prioritization Schedule For Shedding And Restoring Load

7.7.8 Under Frequency Load Shedding (UFLS)

7.7.9 [Not Used]

7.7.10 Further Obligations Relating To System Emergencies

7.7.11 Use Of Load Curtailment Programs

7.7.12 Curtailment Under Emergency And Non-Emergency Conditions

7.7.13 System Emergency Reports And Sanctions

7.7.14 CAISO Facilities And Equipment

7.7.15 System Operations In The Event Of A Market Disruption

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 Instruction 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 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
 - 8.3.6 Market-Based Prices
 - 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 Services 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 Services Awards
- 8.8 Black Start
- 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 Compliance Testing For Black Start
 - 8.9.6 Compliance Testing For RUC Capacity
 - 8.9.7 Consequences Of Failure To Pass Compliance Testing
 - 8.9.8 Performance Audits For Standard Compliance
 - 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 Performance Audit For Voltage Support
 - 8.9.13 Performance Audit For Black Start
 - 8.9.14 Performance Audit For RUC Capacity

- 8.9.15 Consequences Of Failure To Pass Performance Audits
- 8.9.16 Sanctions For Poor Performance
- 8.10 Periodic Testing Of Units
 - 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 Black Start
 - 8.10.6 RUC Capacity
 - 8.10.7 Penalties For Failure To Pass Tests
 - 8.10.8 Rescission Of Payments For Ancillary Service Capacity
- 8.11 Temporary Changes To Ancillary Services Penalties
 - 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 Outages
- 9.2 Responsibility For Authorized Work On Facilities
- 9.3 Coordination Of Outages And Maintenance
 - 9.3.1 CAISO Outage Coordination Office
 - 9.3.2 Requirement For Approval
 - 9.3.3 Requests For Generation Outages In Real-Time Operation
 - 9.3.4 Single Point Of Contact
 - 9.3.5 Method Of Communications
 - 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 Owner
- 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 Systems
- 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

10.2.12 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 From Compliance

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 Statement 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 HASP Settlement Of Scheduling Points
 - 11.4.1 HASP Settlement For Exports
 - 11.4.2 HASP Settlement For Imports
- 11.5 Real-Time Market Settlements
 - 11.5.1 Instructed 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 IIE From Exceptional Dispatch

11.5.7 Congestion Credit And Marginal Cost Of Losses Credit

11.5.8 Settlement For Emergency Assistance

11.6 Settlement of Transactions Involving Proxy Demand 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 Factor

11.10.6 Upward Ancillary Services Neutrality Adjustment

11.10.7 Voltage Support

11.10.8 Black Start

11.10.9 Settlements Of Rescission Of Payments For AS Capacity 11.11 HVACs And Transition Charges, And Wheeling Transactions

11.11.1 High Voltage Access Charges And Transition Charges

11.11.2 Wheeling Through And Wheeling Out Transactions

11.12 Participating Intermittent Resources

11.12.1 Uninstructed Energy By Participating Intermittent Resources

11.12.2 Allocation Of Participating Intermittent Resources Costs

11.12.3 Payment Of Participating Intermittent Resource Fees

11.12.4 Price For Uninstructed Deviations

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 Adjustments

11.15 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 Not Used

11.18 Emissions Costs

11.18.1 Obligation To Pay Emissions Cost Charges

11.18.2 CAISO Emissions Cost Trust Account

11.18.3 Rate For The Emissions Cost Charge

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

11.20.1 Responsibility For NERC/WECC Charges

11.20.2 Process For Invoicing NERC/WECC Charges Assessed For 2007

11.20.3 Process For Invoicing NERC/WECC Charges Assessed For 2008

11.20.4 Process For Invoicing NERC/WECC Charges For Years After 2008

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

11.21 Make Whole Payments for Price Corrections

11.21.1 CAISO Demand and Exports

11.21.2 Price Correction for Settlement of Virtual Awards

11.22 Grid Management Charge

11.22.1 CAISO'S Obligations

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

11.22.6 CRR Transaction Fee

11.22.7 Inter-Scheduling Coordinator Trade Transaction Fee

11.22.8 Scheduling Coordinator ID Charge

11.23 Penalties For Uninstructed Imbalance Energy

11.24 Not Used

- 11.24.1 Not Used
- 11.24.2 Not Used
- 11.24.3 Not Used
- 11.24.4 Not Used

11.25 Flexible Ramping Constraint Compensation

11.25.1 Compensation

11.25.2 Rescission of Payment for Non-Performance

11.25.3 Allocation of Costs

11.26 [Not Used]

11.27 Voltage Support And Black Start Charges

11.28 Calculating, Charging And Disbursing Default Interest

11.29 CAISO as Counterparty; Billing and Payment;

11.29.1 Billing And Payment Process Based On Settlement Statements

11.29.2 Time-Frame For Payments Or Charges

11.29.3 Prepayments

11.29.4 System Failure

11.29.5 General Principles For Production Of Settlement Statements

11.29.6 Balancing Of Market Accounts In Absence Of Meter Data

11.29.7 Settlements Cycle

11.29.8 Confirmation And Validation

11.29.9 Payment 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 HASP Intertie Schedules Decline Charges
 - 11.31.1 Decline Monthly Charge Imports
 - 11.31.2 Decline Monthly Charge Exports
 - 11.31.3 Allocation Of Import/Export Decline Monthly Charges
- 11.32 Measures to Address Intertie Scheduling Practices
- 11.33 Settling Revenue from Schedule Sourcing/Sinking in Same BAA

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-Compliant Market Participants
 - 12.5.2 Late Posting Of Financial Security
- 12.6 Credit Obligations Applicable To CRRs
 - 12.6.1 Credit Requirements For CRR Allocations
 - 12.6.2 Credit Requirements For CRR Auctions
 - 12.6.3 Credit Requirements For The Holding Of CRRs
 - 12.6.4 Credit Requirements For Sales Of Allocated CRRs
- 12.7 Credit Obligation 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
- 13.2 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. Force Majeure, 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 Liability For 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 Reliability-Related 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 PTOs' Rights Under Existing Contracts
 - 16.2 [Not Used]
 - 16.3 [Not Used]
 - 16.4 TRTC Instructions
 - 16.4.1 Responsibility To Create TRTC Instructions
 - 16.4.2 Responsible PTO Re Multiple PTO Parties To Existing Contract

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-Schedule Changes

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 Exceptions

17.3 Valid TOR Self-Schedules

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 Operational Obligations

18. [Not Used]

19. [Not Used]

19.1 [Not Used] 19.1.1 [Not Used] 19.1.2 [Not Used]

19.1.3 [Not Used]

19.2 [Not Used]

20. Confidentiality

20.1 CAISO 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 Accounts And Reports
- 22.8 Applicable Law And Forum
- 22.9 Consistency With Federal Laws And Regulations
- 22.10 [Not Used]

22.11 Operating Procedures And BPM Development And Amendment

- 22.11.1 Process For Revisions Of Business Practice Manuals
 - 22.11.2 Changes To BPM For BPM Change Management
- 22.11.3 Requests For And Access To Nonpublic Operating Procedures
- 22.12 [Not Used]

22.13 Scheduling Responsibilities And Obligations

23. Categories Of Transmission Capacity

24. Comprehensive 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 Contents 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 Submission of Reliability Driven Projects
 - 24.4.3 Phase 2 Request Window
 - 24.4.4 Comment Period of Conceptual Statewide Plan
 - 24.4.5 Determination of Needed Transmission Projects and Elements
 - 24.4.6 Categories of Transmission Projects
 - 24.4.7 Description of Transmission Elements
 - 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 Project Submissions
 - 24.5.2 Project Selection
 - 24.5.3 Notice to Project Sponsors
- 24.6 Obligation to Construct Transmission Projects
 - 24.6.1 Not Used
 - 24.6.2 Not Used
 - 24.6.3 Not Used
- 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 Information Provided by Participating Generators
 - 24.8.3 Information Requested from Load Serving Entities
 - 24.8.4 Information from Planning Groups, BAAs and Regulators
 - 24.8.5 Obligation to Provide Updated Information
- 24.9 Participating TO Study Obligation
- 24.10 Operational Review
 - 24.10.1 Not Used
 - 24.10.2 Not Used
 - 24.10.3 Not Used
 - 24.10.4 Not Used
- 24.11 State and Local Approval and Property Rights
 - 24.11.1 PTO Requirement to Seek Necessary Approvals and Rights
 - 24.11.2 Consequences of PTO Inability to Obtain Approvals and Rights
 - 24.11.3 Conferral of Right to Build Facilities on Third Party
- 24.12 WECC and Regional Coordination
- 24.13 Regional and Sub-Regional Planning Process
 - 24.13.1 Scope of Regional or Sub-Regional Planning Participation
 - 24.13.2 Limitation on Regional Activities
- 24.14 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 Treatment of New High Voltage Facilities Costs in HVAC
- 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

25. Interconnection Of Generating Units And Facilities

25.1 Applicability

- 25.1.1 Interconnection Request And Generating Unit Requirements
- 25.1.2 Affidavit Requirement
- 25.2 Interconnections To The Distribution System
- 25.3 Maintenance Of Encumbrances
- 25.4 Asynchronous Generating Facilities

26. Transmission Rates And Charges

- 26.1 Access Charges
 - 26.1.1 Publicly Owned Electric Utilities Access Charge
 - 26.1.2 High Voltage Access Charge And Transition Charge Settlement
 - 26.1.3 Disbursement Of HVAC And Transition Charge Revenues
 - 26.1.4 Wheeling
 - 26.1.5 Unbundled Retail Transmission Rates
 - 26.2 Tracking Account
- 26.3 Addition Of New Facilities After CAISO Implementation
- 26.4 Effect On Tax-Exempt Status
- 26.5 Transition Mechanism
- 26.6 Location Constrained Resource Interconnection Facilities
 - 26.6.1 LCRIFs That Become Network Facilities

27. CAISO Markets And Processes

- 27.1 LMPs And Ancillary Services Marginal Prices
 - 27.1.1 Locational Marginal Prices For Energy
 - 27.1.2 Ancillary Service Prices
 - 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 Markets 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 Full Network Model
 - 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 FNM
 - 27.5.5 Load Distribution Factors
 - 27.5.6 Management and Enforcement of Constraints in the CAISO Markets
- 27.6 State Estimator
- 27.7 Constrained Output Generators
 - 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
- 27.9 [Not Used]
- 27.10 Flexible Ramping Constraint

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. [Not Used]

30. Bid And Self-Schedule Submission For All CAISO Markets

- 30.1 Bids, Including Self-Schedules
 - 30.1.1 Day-Ahead Market
 - 30.1.2 HASP And Real-Time Market
- 30.2 Bid Types
- 30.3 [Not Used]
- 30.4 Election For Start-Up Costs 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
- 30.6 Bidding and Scheduling of Proxy Demand Resources
 - 30.6.1 Bidding and Scheduling Generally
 - 30.6.2 [Not Used]
 - 30.6.3 Net Benefits Test For Scheduling of PDRs
- 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 HASP And 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
 - 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
- - 30.9.1 Virtual Bid Components
- 30.10 Use of AC Solution and Nodal Constraints

31. Day-Ahead 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
- 31.6 Timing Of Day-Ahead Scheduling
 - 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 at Scheduling Points for Interties

32. [Not Used]

33. Hour-Ahead Scheduling Process (HASP)

- 33.1 Submission Of Bids For The HASP And RTM
- 33.2 The HASP Optimization
- 33.3 Treatment Of Self-Schedules In HASP
- 33.4 MPM-RRD For The HASP And The RTM
- 33.5 [Not Used]
- 33.6 HASP Results
- 33.7 Ancillary Services in the HASP
- 33.8 HASP Prices For HASP Intertie Schedules
 - 33.8.1 Eligibility To Set The HASP Intertie LMP
- 33.9 Cessation Of The HASP

34. Real-Time Market

- 34.1 Inputs To The Real-Time Market
- 34.2 Real-Time Unit Commitment
 - 34.2.1 Commitment Of Fast Start And Short Start Units
 - 34.2.2 Real-Time Ancillary Services Procurement
 - 34.2.3 MPM For The Real-Time Market
- 34.3 Real-Time Dispatch
 - 34.3.1 Real-Time Economic Dispatch
 - 34.3.2 Real-Time Contingency Dispatch
 - 34.3.3 Real-Time Manual Dispatch
- 34.4 Short-Term Unit Commitment
- 34.5 General Dispatch Principles
- 34.6 Dispatch of Dispatch to Units, Participating Loads, and PDR
- 34.7 Utilization Of The Energy Bids
- 34.8 Dispatch Of Energy From Ancillary Services
- 34.9 Exceptional Dispatch
 - 34.9.1 System Reliability Exceptional Dispatches
 - 34.9.2 Other Exceptional Dispatch
 - 34.9.3 Transmission-Related Modeling Limitations
 - 34.9.4 Reporting Requirements
- 34.10 CAISO Market Adjustment To Non-Priced Quantities In The RTM
 - 34.10.1 Increasing Supply
 - 34.10.2 Decreasing Supply
- 34.11 Means Of Dispatch Communication
 - 34.11.1 Response Required By Resources To Dispatch Instructions

34.11.2 Failure To Conform To Dispatch Instructions

34.12 Metered Subsystems

34.13 Treatment Of Resource Adequacy Capacity In The RTM

34.14 Real-Time Activities In The Hour Prior To Settlement Period

34.14.1 Confirm Interchange Transaction Schedules (ITSs)

34.15 Rules For Real-Time Dispatch Of Imbalance Energy Resources

34.15.1 Resource Constraints

34.15.2 Calculation Of Dispatch Operating Points After Instructions

34.15.3 [Not Used]

34.15.4 Inter-Hour Dispatch Of Resources With Real-Time Energy Bids

34.15.5 Inter-Hour Resources Dispatch Without Real-Time Energy Bids

34.15.6 Intra-Hour Exceptional Dispatches

34.16 Ancillary Services In The Real-Time Market

34.16.1 [Not Used]

34.16.2 Dispatch Of Self-Provided Ancillary Services

34.16.3 Ancillary Services Requirements For RTM Dispatch

34.17 Dispatch Information And Instructions

34.17.1 Dispatch Information To Be Supplied By The CAISO

34.17.2 Dispatch Information To Be Supplied By SC

34.17.3 Dispatch Information To Be Supplied By UDCs

34.17.4 Dispatch Information To Be Supplied By PTOs

34.17.5 Dispatch Information To Be Supplied By Balancing Authorities

34.18 [Not Used]

34.19 Pricing Imbalance Energy

34.19.1 General Principles

34.19.2 Determining Real-Time LMPs

35. Market Validation And Price Correction

35.1 Market Validation

35.2 Timing Of The Price Correction Process

35.3 Finality Of Prices Subject To The Price Correction Process

35.4 Scope Of Price Corrections

35.5 Price Correction Methodology

35.6 Weekly Price Correction Report

36. Congestion Revenue Rights

36.1 Overview Of CRRs And Procurement Of CRRs

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 Multi Point CRRs

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

36.3.3 On-Peak And Off-Peak Specifications

36.4 FNM For CRR Allocation And CRR Auction

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

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

36.8.3 CRR Allocation Process

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
- 36.8.7 Reconfiguration of CRRs

36.9 CRR Allocation To OBAALSEs

36.9.1 Showing Of Legitimate Need

36.9.2 Prepayment Of Wheeling Access Charges

36.9.3 CRR Eligible Quantities

36.9.4 Eligible CRR Sources And Sinks

36.9.5 Priority Nomination Process

36.10 CRR Allocation To Metered Subsystems

36.11 CRR Allocation To Merchant Transmission Facilities

36.11.1 Eligibility For Merchant Transmission CRRs

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 Auctions

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 Modifications To CRR Settlement To Reflect Ibaa Changes

36.14.3 IBAA Change Impact On Adequacy Of Previously-Released CRRs

36.15 [Not Used]

37. 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 Failure To Curtail Load

37.2.3 Operations & 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 Availability Reporting Requirements
 - 37.4.1 Reporting Availability
 - 37.4.2 Scheduling And Final Approval Of Outages
 - 37.4.3 Explanation Of Forced Outages
 - 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
- 37.8.4 Notice
- 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 Actual SQMD Penalty Without Recal. Sett. Stmt.

38. Market Monitoring

39. Market 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 Not Uncompetitive
 - 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
 - 39.10.2 Resources Not Eligible For Supplemental Revenues
 - 39.10.3 Eligibility For Supplemental Revenues
 - 39.10.4 Limitation On Supplemental Revenues
- 39.10.5 Calculation Of Exceptional Dispatch Supplemental Revenues
- 39.11 Market Power Mitigation Applicable to Virtual Bidding
 - 39.11.1 Affiliate Disclosure Requirements
 - 39.11.2 Monitoring of Virtual Bidding Activity

40. Resource Adequacy Demonstration For All SCs In The CAISO BAA

- 40.1 Applicability
 - 40.1.1 Election Of Load Serving Entity Status
- 40.2 Information Requirements For Resource Adequacy Programs
 - 40.2.1 Reserve Sharing LSEs
 - 40.2.2 Non-CPUC LSEs Electing Reserve Sharing LSE Status
 - 40.2.3 Modified Reserve Sharing LSEs
 - 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 Area Resource Obligations
 - 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 Requirements Applying To Modified Reserve Sharing LSEs Only
 - 40.5.1 Day Ahead Scheduling And Bidding Requirements
 - 40.5.2 Demand Forecast Accuracy
 - 40.5.3 Requirement To Make Resources Available In System Emergency
 - 40.5.4 Consequence Of Failure To Meet Scheduling Obligation
 - 40.5.5 Substitution Of Resources
- 40.6 Requirements For SCs And Resources For Reserve Sharing LSEs
 - 40.6.1 Day-Ahead Availability
 - 40.6.2 Real-Time Availability
 - 40.6.3 Additional Availability Requirements For Short Start Units
 - 40.6.4 Use-Limited Resources Additional Availability Requirements
 - 40.6.5 Additional Availability Requirements For System Resources
 - 40.6.6 Requirements For Partial Resource Adequacy Resources
 - 40.6.7 Release Of Long Start Units
 - 40.6.8 Use Of Generated Bids
 - 40.6.9 Grandfathered 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 Loads and Proxy Demand Resources

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. Availability Standards And Payment; Non-Availability Charges
 - 40.9.1 General
 - 40.9.2 Exemptions
 - 40.9.3 Availability Assessment Hours
 - 40.9.4 Availability Determinations
 - 40.9.5 Outage Reporting
 - 40.9.6 Non-Availability Charges And Availability Incentive Payments
 - 40.9.7 Assessment For NRS-RA Resources
 - 40.9.8 Reporting

41. Procurement Of RMR 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 Unit Status
- 41.4 Reliability Must-Run Contracts
- 41.5 RMR Dispatch
 - 41.5.1 Day-Ahead And HASP 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 SONGS
- 41.9 Exceptional Dispatch Of Condition 2 RMR Units
 - 41.9.1 Notification Required Before Condition 2 RMR Unit Dispatch

42. Adequacy Of Facilities To Meet Operating & Planning Reserve

- 42.1 Generation Planning Reserve Criteria
 - 42.1.1
 - 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 Maximum 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

43. Capacity Procurement Mechanism

- 43.1 Interim Capacity Procurement Mechanism
- 43.2 Capacity Procurement Mechanism Designation
- 43.3 Terms of CPM Designation
- 43.4 Selection of Eligible Capacity Under The CPM
- 43.5 Obligations of a Resource Designated Under The CPM
- 43.6 Reports

43.7 Payments To Resources Designated Under The CPM43.8 Allocation Of CPM Capacity Payment Costs43.9 Crediting Of CPM Capacity

44. [Not Used]

44.1 [Not Used] 44.2 [Not Used] 44.3 [Not Used]

Appendix A Definitions

Appendix B

- Pro Forma Agreements
 - Appendix B.1 Scheduling Coordinator Agreement Appendix B.2 Participating Generator Agreement Appendix B.3 Net Scheduled Participating Generator Agreement Appendix B.4 Participating Load Agreement Appendix B.5 Dynamic Scheduling Agreement For SCs Appendix B.6 MSA For Metered Entities (MSA CAISOME) Appendix B.7 Meter Service Agreement For SCs (MSA SC) Appendix B.8 Utility Distribution Company OA (UDCOA) Appendix B.9 DSHBA Operating Agreement (DSHBAOA) Appendix B.10 Small Utility Distribution Co. OA (SUDCOA) Appendix B.11 Pro Forma CRR Entity Agreement Appendix B.12 MSS Aggregator CRR Entity Agent Agreement Appendix B.13 Resource-Specific System Resource Agreement Appendix B.14 Proxy Demand Resource Agreement Appendix B.15 Convergence Bidding Entity Agreement Appendix B.16 Pseudo-Tie Participating Generator Agreement
- Appendix C Locational Marginal Price
- Appendix D Black Start Generating Units
- Appendix E Submitted Ancillary Services Data Verification
- Appendix F Rate Schedules
- Appendix G Pro Forma Reliability Must-Run Contract
- Appendix H Grandfathered Metering & Settlement Provisions
- Appendix I Station Power Protocol
- Appendix J Grandfathered Metering and Settlement Provisions for Trading Days Prior to October 1, 2011
- Appendix K Ancillary Service Requirements Protocol (ASRP)
- Appendix L Method To Assess Available Transfer Capability
- Appendix M Dynamic Scheduling Protocol (DSP)
- Appendix N Pseudo-Tie Protocol
- Appendix O CAISO Market Surveillance Committee

- Appendix P CAISO Department Of Market Monitoring
- Appendix Q Eligible Intermittent Resources Protocol (EIRP)
- Appendix R UDP Aggregation Protocol
- Appendix S Small Generator Interconnection Procedures
- Appendix T Small Generator Interconnection Agreement
- Appendix U Large Generator Interconnection Procedures
- Appendix V Large Generator Interconnection Agreement
- Appendix W Amendment 39 Interconnection Procedures
- Appendix X [Not Used]
- Appendix Y GIP For Interconnection Requests
- Appendix Z LGIA For Interconnection Requests Process Under the GIP
- Appendix AA Transition Plan for Multi-Stage Generating Resources
- Appendix BB Standard Large Generator Interconnection Agreement for Interconnection Requests in a Serial Study Group
- Appendix CC Large Generator Interconnection Agreement for Interconnection Requests in a Queue Cluster Window
- Appendix DD Generator Interconnection and Deliverability Allocation Procedures (GIDAP)
- Appendix EE Large Generator Interconnection Agreement for Interconnection Requests Processed under the Generator Interconnection and Deliverability Allocation Procedures
- Appendix FF Small Generator Interconnection Agreement for Interconnection Requests Processed Under the Generator Interconnection and Deliverability Allocation Procedures
- Appendix GG One-Time Interconnecting Generator Downsizing Opportunity
- Appendix HH Generation Interconnection Agreement Amendment Re: Generator Downsizing
- Appendix II Market-Based Rate Authority Suspension