

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

Table of Contents

APPENDIX J	2
GRANDFATHERED METERING AND SETTLEMENT PROVISIONS FOR TRADING DAYS PRIOR TO OCTOBER 1, 2011	2
1. Grandfathering of Metering and Settlement Provisions for Trading Days Prior to October 1, 2011	2
10.2.1.3 Provision of and Access to Settlement Quality Meter Data	2
10.3.6 Settlement Quality Meter Data Submission	2
10.3.6.1 Timing of Settlement Quality Meter Data Submission for Calculation of Initial Settlement Statement T+7B	3
10.3.6.2 Timing of Settlement Quality Meter Data Submission for Recalculation Settlement Statement T+38B	3
10.3.6.3 Timing of Settlement Quality Meter Data Submission for Recalculation Settlement Statements after the Recalculation Settlement Statement T+38B	4
11.29 Billing And Payment Process	4
11.29.1 Billing And Payment Process Based On Settlement Statements	4
11.29.2 Time-Frame For Payments Or Charges	5
11.29.5 General Principles For Production Of Settlement Statements	5
11.29.5.1 Basis of Settlement	5
11.29.5.2 Right to Dispute	5
11.29.7 Settlements Cycle	5
11.29.7.1 Timing of the Settlements Process	5
11.29.7.1.1 Initial Settlement Statement T+7B	5
11.29.7.1.2 Recalculation Settlement Statements	6
11.29.7.1.3 Recalculation Settlement Statement – Bridge Period	6
11.29.7.2 Basis for Billing and Payment	7
11.29.7.2.1 Elimination of Invoices under \$10.00	7
11.29.7.3 Additional Recalculation Settlement Statements	7
11.29.8 Confirmation And Validation	7
11.29.8.1 Confirmation	8
11.29.8.2 Validation of Initial Settlement Statement T+7B and Recalculation Settlement Statement T+38B	8
11.29.8.3 Validation of Additional Recalculation Settlement Statements	8
11.29.8.4 Disputes or Exceptions	8
11.29.8.5 CAISO Timeline for Determining Settlement Statement Disputes	8
11.29.10 Billing And Payment	9
11.29.10.1 Billing Periods	9
11.29.10.2 Interest	10
11.29.10.3 Other Invoicing Provisions	10
11.29.10.4 Emergency Procedures	10
11.29.10.5 Use of Estimated Data	10
11.29.21.2 Evidence of Unpaid Amount	10
11.29.23 Communications	11
11.29.24.1 Preparation	11
37.5.2 Inaccurate Meter Data	12
37.5.2.1 Expected Conduct	12
37.5.2.2 Sanctions	12
37.5.2.3 Disposition of Sanction Proceeds	12
37.11 Method For Calculating Penalties	12
37.11.1 Method For Calculating Inaccurate Meter Data Penalty	12
2. Definitions	15
- Incremental Change	15
- Recalculation Settlement Statement	15
- Recalculation Settlement Statement T+76B	15
- Settlement Statement	15

APPENDIX J

GRANDFATHERED METERING AND SETTLEMENT PROVISIONS FOR TRADING DAYS

PRIOR TO OCTOBER 1, 2011

1. Grandfathering of Metering and Settlement Provisions for Trading Days Prior to October 1, 2011.

Notwithstanding any other provisions of the CAISO Tariff the following provisions shall apply to transactions conducted prior to October 1, 2011. In all other respects, the CAISO Tariff, including the provisions of Sections 10, 11, and 37 not covered by this Appendix J, will apply to transactions that occurred prior to October 1, 2011.

10.2.1.3 Provision of and Access to Settlement Quality Meter Data

Scheduling Coordinators may obtain Settlement Quality Meter Data relating to the CAISO Metered Entities they represent by directly accessing the Settlement Quality Meter Data Systems as specified in the applicable Business Practice Manual.

- For CAISO Metered Entities, Revenue Quality Meter Data obtained by successfully polled meters will be validated, estimated and edited by the CAISO to produce Settlement Quality Meter Data (actual), which will be made available to Scheduling Coordinators within five (5) Business Days from the Trading Day (T+5B) and will be used in the Initial Settlement Statement T+7B calculation.
- In the event that Revenue Quality Meter Data remains unavailable at noon on the fifth Business Day after the Trading Day (T+5B) due to unsuccessfully polled meters or facility and/or systems failures, the CAISO will estimate Settlement Quality Meter Data for CAISO Metered Entities for any outstanding metered Demand and/or Generation for the Initial Settlement Statement T+7B calculation as provided in Section 11.1.5.
- If the CAISO is notified in accordance with Section 10.2.13.2 that the revenue quality meter for a CAISO Metered Entity requires repair, the CAISO will produce Settlement Quality Meter Data (actual) for that entity using the estimation procedures referred to in Section 10.2.9, which will be made available to the Scheduling Coordinator for the CAISO Metered Entity within forty-three (43) calendar days from the Trading Day (T+43C) and will be used in the Recalculation Settlement Statement T+38B calculation.

10.3.6 Settlement Quality Meter Data Submission

Scheduling Coordinators shall submit to the CAISO Actual Settlement Quality Meter Data or Scheduling Coordinator Estimated Settlement Quality Meter Data, as provided in Section 10.3.6.1(a), for Scheduling Coordinator Metered Entities they represent for each Settlement Period in an Operating Day according to the timelines established in Section 10.3.6.1 and the CAISO Payments Calendar and as provided in the applicable Business Practice Manual. Scheduling Coordinators must also submit Settlement Quality Meter Data (actual and Scheduling Coordinator estimated) on demand as provided in the applicable Business Practice Manual.

10.3.6.1 Timing of Settlement Quality Meter Data Submission for Calculation of Initial Settlement Statement T+7B.

Scheduling Coordinators must submit Actual Settlement Quality Meter Data or Scheduling Coordinator Estimated Settlement Quality Meter Data for the Scheduling Coordinator Metered Entities they represent to the CAISO no later than noon on the fifth Business Day after the Trading Day (T+5B) for the Initial Settlement Statement T+7B calculation. Scheduling Coordinators cannot submit Estimated Settlement Quality Meter Data for Proxy Demand Resources.

- (a) In the absence of Actual Settlement Quality Meter Data, Scheduling Coordinators may submit Scheduling Coordinator Estimated Settlement Quality Meter Data using interval metering when available, sound estimation practices, and other available information including, but not limited to, bids, schedules, forecasts, temperature data, operating logs, recorders, and historical data. Scheduling Coordinator Estimated Settlement Quality Meter Data must be a good faith estimate that reasonably represents Demand and/or Generation quantities for each Settlement Period.
- (b) When Actual Settlement Quality Meter Data or Scheduling Coordinator Estimated Settlement Quality Meter Data is not received by the CAISO for a Scheduling Coordinator Metered Entity within five (5) Business Days from the Trading Day (T+5B), the CAISO will estimate the entity's Settlement Quality Meter Data for any outstanding metered Demand and/or Generation, excluding a Proxy Demand Resource, for use in the Initial Settlement Statement T+7B calculation, as provided in Section 11.1.5.

10.3.6.2 Timing of Settlement Quality Meter Data Submission for Recalculation

Settlement Statement T+38B

Scheduling Coordinators must submit Actual Settlement Quality Meter Data for the Scheduling Coordinator Metered Entities they represent to the CAISO no later than midnight on the forty-third (43) calendar day after the Trading Day (T+43C) for the Recalculation Settlement Statement T+38B. A Scheduling Coordinator that timely submits Actual Settlement Quality Meter Data for the Initial Settlement Statement T+7B pursuant to Section 10.3.6.1 may submit revised Actual Settlement Quality Meter Data for the Recalculation Settlement Statement T+38B no later than the forty-third (43) calendar day after the Trading Day pursuant to this Section.

- (a) When Actual Settlement Quality Meter Data is not received by the CAISO for a Scheduling Coordinator Metered Entity by forty-three (43) calendar days after the Trading Day (T+43C), the Scheduling Coordinator has failed to submit complete and accurate meter data as required by Section 37.5.2.1 and will be subject to monetary penalty pursuant to Section 37.5.2.2.
- (b) Any Scheduling Coordinator Estimated Settlement Quality Meter Data submitted by a Scheduling Coordinator on behalf of the Scheduling Coordinator Metered Entities it represents that is not replaced with Actual Settlement Quality Meter Data by forty-three (43) calendar days after the Trading Day (T+43C) has failed to submit complete and accurate meter data as required by Section 37.5.2.1 and will be subject to monetary penalty pursuant to Section 37.5.2.2. In the absence of Actual Settlement Quality Meter Data, Scheduling Coordinator Estimated Settlement Quality Meter Data will be used in the Recalculation Settlement Statements.

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

- (c) The CAISO will not estimate a Scheduling Coordinator Metered Entity's Settlement Quality Meter Data for any outstanding metered Demand and/or Generation for use in a Recalculation Settlement Statement calculation. Any previous CAISO Estimated Settlement Quality Meter Data that the Scheduling Coordinator does not replace with Actual Settlement Quality Meter Data by forty-three (43) calendar days after the Trading Day (T+43C) will be set to zero. The CAISO will follow the control process described in the BPM for Metering to monitor and identify the CAISO Estimated Settlement Quality Meter Data that was not timely replaced and will take proactive measures to obtain the Actual Settlement Quality Meter Data. A Scheduling Coordinator that fails to replace CAISO Estimated Settlement Quality Meter Data with Actual Settlement Quality Meter Data by forty-three (43) calendar days after the Trading Day (T+43C) has failed to provide complete and accurate Settlement Quality Meter Data as required by Section 37.5.2.1 and will be subject to monetary penalty pursuant to Section 37.5.2.2.

10.3.6.3 Timing of Settlement Quality Meter Data Submission for Recalculation

Settlement Statements after the Recalculation Settlement Statement T+38B

Scheduling Coordinators may continue to submit Actual Settlement Quality Meter Data for the Scheduling Coordinator Metered Entities they represent to the CAISO for use in Recalculation Settlement Statements subsequent to the Recalculation Settlement Statement T+38B according to timelines established in the CAISO Payments Calendar. Provided, however, that Scheduling Coordinators submitting Actual Settlement Quality Meter Data more than forty-three (43) calendar days after the Trading Day (T+43C) have failed to provide complete and accurate Settlement Quality Meter Data as required by Section 37.5.2.1 and will be subject to monetary penalty pursuant to Section 37.5.2.2.

11.29 Billing And Payment Process

The CAISO will calculate for each charge the amounts payable by the relevant Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO for each Settlement Period of the Trading Day, and the amounts payable to that Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO for each charge for each Settlement Period of that Trading Day and shall arrive at a net amount payable for each charge by or to that Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO for each charge for that Trading Day. Each of these amounts will appear in the Settlement Statements that the CAISO will provide to the relevant Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO.

The components of the Grid Management Charge will be included in an Initial Settlement Statement T+7B, and any Recalculation Settlement Statement with the other types of charges referred to in Section 11.

11.29.1 Billing And Payment Process Based On Settlement Statements

The billing and payment process shall be based on the issuance of Initial Settlement Statement T+7B and the Recalculation Settlement Statements.

11.29.2 Time-Frame For Payments Or Charges

Payments or charges for the items referred to in Section 11.1.2 (except for the charges payable under long-term contracts) for each Trading Day in each calendar month shall be made five (5) Business Days after issuance of the Invoices and Payment Advices issued in accordance with Section 11.29.10. Payments for FERC Annual Charges will be made in accordance with Section 11.19.

11.29.5 General Principles For Production Of Settlement Statements

11.29.5.1 Basis of Settlement

The basis of each Settlement Statement shall be the debiting or crediting of an account in the name of the relevant Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO in the general ledger set up by the CAISO to reflect all transactions, charges or payments settled by the CAISO.

11.29.5.2 Right to Dispute

All Scheduling Coordinators, CRR Holders, Black Start Generators or Participating TOs shall have the right to dispute any item or calculation set forth in any Initial Settlement Statement T+7B, Recalculation Settlement Statement T+38B, or Incremental Changes in Recalculation Settlement Statements T+76B, T+18M, and T+35M in accordance with this CAISO Tariff, but not those set forth in Recalculation Settlement Statement T+36M.

11.29.7 Settlements Cycle

11.29.7.1 Timing of the Settlements Process

The CAISO will publish: (i) Initial Settlement Statements T+7B on the seventh Business Day from the relevant Trading Day (T+7B), (ii) Recalculation Settlement Statements on the thirty-eighth Business Day from the relevant Trading Day (T+38B), (iii) Recalculation Settlement Statements on the seventy-sixth Business Day after the Trading Day (T+76B), (iv) Recalculation Settlement Statements on the Business Day eighteen (18) calendar months from the relevant Trading Day (T+18M) if necessary, (v) Recalculation Settlement Statements on the Business Day thirty-five (35) calendar months from the relevant Trading Day (T+35M) if necessary, (vi) Recalculation Settlement Statements on the Business Day thirty-six (36) calendar months from the relevant Trading Day (T+36M) if necessary, and (v) any other Recalculation Settlement Statement authorized under Section 11.29.7.3. The CAISO will issue a notice to the market if a Recalculation Settlement Statement T+18M, Recalculation Settlement Statement T+35M, Recalculation Settlement Statement T+36M, or any additional Recalculation Settlement Statement is required for a Trading Day. The CAISO will notify affected Market Participants regarding failed or late publication of any Settlement Statements specified above and will rectify such failed or late publications pursuant to its procedure posted on the CAISO Website.

11.29.7.1.1 Initial Settlement Statement T+7B

The CAISO shall provide to each Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO for validation an Initial Settlement Statement T+7B for each Trading Day within seven (7) Business Days of the relevant Trading Day, covering all Settlement Periods in that Trading Day. Each Initial Settlement Statement T+7B will be produced using available

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

Settlement Quality Meter Data (either actual or estimated) and CAISO Estimated Settlement Quality Meter Data. The Initial Settlement Statement T+7B will include the following:

- (a) the amount payable or receivable by the Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO for each charge referred to in Section 11 for each Settlement Period in the relevant Trading Day;
- (b) the total amount payable or receivable by that Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO for each charge for all Settlement Periods in that Trading Day after the amounts payable and the amounts receivable under (a) have been netted off pursuant to Section 11.29; and
- (c) the components of each charge in each Settlement Period except for information contained in the Imbalance Energy report referred to in this Section 11.29.7.1.1; and
- (d) a breakdown of the components of the Imbalance Energy charge (the Imbalance Energy report).

11.29.7.1.2 Recalculation Settlement Statements

The CAISO shall provide to each Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO Recalculation Settlement Statements in accordance with the CAISO Tariff and the CAISO Payments Calendar. Recalculation Settlement Statements shall be in a format similar to that of the Initial Settlement Statement T+7B and shall include the same granularity of information provided in the Initial Settlement Statement T+7B as amended following the validation procedure.

11.29.7.1.3 Recalculation Settlement Statement – Bridge Period

For Trading Days April 1, 2009 through October 31, 2009, the settlement timeline shall include: (i) issuance of Recalculation Settlement Statement T+18M if necessary, Recalculation Settlement Statement T+35M if necessary, and Recalculation Settlement Statement T+36M, if necessary to adjust any charge set forth in a previously published Settlement Statement for any Trading Day within this period; and (ii) any other Recalculation Settlement Statement authorized under Section 11.29.7.3.

Any Recalculation Settlement Statement issued pursuant to this Section shall be subject to the same provisions in the CAISO Tariff as are applicable to a Recalculation Settlement Statement T+18M, Recalculation Settlement Statement T+35M, Recalculation Settlement Statement T+36M, or any other Recalculation Settlement Statement authorized under Section 11.29.7.3, including, but not limited to, Section 11.29.7.2 (Basis for Billing and Payment), Section 11.29.8 (Confirmation and Validation), and Section 11.29.9 (Payment Procedures), except that Section 11.29.10.2 (Interest) shall not apply.

The CAISO will include the publication dates and related invoice dates for the Recalculation Settlement Statements for Trading Days within the period April 1, 2009 through October 31, 2009 on the CAISO Payments Calendar prepared in accordance with Section 11.29.24.

The CAISO will issue a notice to the market if a Recalculation Settlement Statement T+18M, Recalculation Settlement Statement T+35M, Recalculation Settlement Statement T+36M, or any additional Recalculation Settlement Statement is required for a Trading Day within the period April 1, 2009 through October 31, 2009.

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

To the extent that any provision in this Section is in conflict or inconsistent with CAISO Tariff Appendix H (Grandfathered Metering and Settlement Provisions for Trading Days Prior to November 1, 2009), the provision in this Section shall prevail.

11.29.7.2 Basis for Billing and Payment

The Initial Settlement Statement T+7B and any Recalculation Settlement Statement shall constitute the basis for billing in accordance with this CAISO Tariff. The Initial Settlement Statement T+7B shall constitute the basis for billing for all charges in the first instance. The Recalculation Settlement Statement T+38B shall constitute the basis for billing for adjustments to charges set forth in the Initial Settlement Statement T+7B. Each Scheduling Coordinator, CRR Holder, Black Start Generator, and Participating TO shall pay any net debit and shall be entitled to receive any net credit shown in an Invoice or Payment Advice on the Payment Date, whether or not there is any dispute regarding the amount of the debit or credit.

11.29.7.2.1 Elimination of Invoices under \$10.00

Invoices and Payment Advices due to or from any Scheduling Coordinator, CRR Holder, Black Start Generator, or Participating TO for amounts less than \$10.00 will be adjusted to \$0.00 and no amount will be due to or from that Scheduling Coordinator, CRR Holder, Black Start Generator, or Participating TO for that Invoice or Payment Advice.

11.29.7.3 Additional Recalculation Settlement Statements

The CAISO shall issue no Recalculation Settlement Statements other than to Recalculation Settlement Statements T+38B, Recalculation Settlement Statements T+76B, Recalculation Settlement Statements T+18M, Recalculation Settlement Statements T+35M, and Recalculation Settlement Statements T+36M, unless directed by the CAISO Governing Board or pursuant to a FERC order.

11.29.7.3.1 If an additional Recalculation Settlement Statement is ordered by the CAISO Governing Board, the CAISO shall arrange to have the Recalculation Settlement Statement carried out as soon as is reasonably practicable following the CAISO Governing Board's order, subject to the availability of staff and computer time, compatible software, appropriate data and other resources.

11.29.7.3.2 The cost of an additional Recalculation Settlement Statement shall be borne by the Scheduling Coordinator, CRR Holder, Black Start Generator, or Participating TO requesting it, unless an additional Recalculation Settlement Statement was needed due to a clerical oversight or error on the part of the CAISO staff.

11.29.7.3.3 Where an additional Recalculation Settlement Statement indicates that the accounts of Scheduling Coordinators, CRR Holders, Black Start Generators, or Participating TOs should be debited or credited to reflect alterations to Settlements previously made under this CAISO Tariff, for those Scheduling Coordinators, CRR Holders, Black Start Generators, or Participating TOs affected by the additional Recalculation Settlement Statement, the CAISO shall reflect the amounts to be debited or credited in the next scheduled semi-monthly Invoice or Payment Advice for the end of the month.

11.29.7.3.4 Recalculation Settlement Statements, post closing adjustments and the financial outcomes of CAISO ADR Procedures and any other dispute resolution may be invoiced separately from monthly market activities in accordance with Section 11.29.10.3.

11.29.8 Confirmation And Validation

11.29.8.1 Confirmation

It is the responsibility of each Scheduling Coordinator, CRR Holder, Black Start Generator, or Participating TO to notify the CAISO if it fails to receive a Settlement Statement on the date specified for the publication of such Settlement Statement in the CAISO Payments Calendar. Each Scheduling Coordinator, CRR Holder, Black Start Generator, or Participating TO shall be deemed to have received its Settlement Statement on the dates specified, unless it notifies the CAISO to the contrary.

11.29.8.2 Validation of Initial Settlement Statement T+7B and Recalculation

Settlement Statement T+38B

11.29.8.3 Validation of Additional Recalculation Settlement Statements

Each Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO shall have the opportunity to review the Incremental Changes, including the CAISO's implementation of a prior accepted dispute, that appear on or are omitted from any Recalculation Settlement Statement T+76B, Recalculation Settlement Statement T+18M or Recalculation Settlement Statement T+35M that it receives. The Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO shall be deemed to have validated the Incremental Changes on each Recalculation Settlement Statement unless it has raised a dispute or reported an exception regarding those Incremental Changes within time periods set forth in Sections 11.29.8.4.1 through 11.29.8.4.6 from the date of issuance. Once validated, the Incremental Changes on a Recalculation Settlement Statement T+76B, Recalculation Settlement Statement T+18M, or Recalculation Settlement Statement T+35M shall be binding on the Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO to which it relates, except to the extent that the CAISO performs an additional Recalculation Settlement Statement pursuant to Section 11.29.7.3.

The notice of dispute shall state clearly the Trading Day, the issue date of the Recalculation Settlement Statement, the item disputed, the reasons for the dispute, and the amount claimed (if appropriate) and shall be accompanied with all available evidence reasonably required to support the claim. The only Recalculation Settlement Statement that cannot be disputed is Recalculation Settlement Statement T+36M.

11.29.8.4 Disputes or Exceptions

11.29.8.5 CAISO Timeline for Determining Settlement Statement Disputes

The timeline for the CAISO to reach a determination on a settlement statement dispute shall be as follows:

- (a) For a settlement statement dispute based on an Initial Settlement Statement T+7B, Recalculation Settlement Statement T+38B, Recalculation Settlement Statement T+76B, or Recalculation Settlement Statement T+18M, the CAISO shall reach a determination to approve or deny the dispute, and provide electronic notice of the outcome to the Scheduling Coordinator that submitted the dispute, no later than twenty (20) Business Days after the end of the dispute period for that settlement statement; with the exception of complex disputes or unless otherwise agreed to by the disputing Scheduling Coordinator. In the event that the CAISO's determination results in an adjustment to payments and/or charges, the CAISO in its notice to the disputing Scheduling Coordinator shall identify the subsequent recalculation settlement statement expected to include the adjustment.

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

- (b) For a settlement statement dispute based on Recalculation Settlement Statement T+35M, the CAISO shall reach a determination to approve or deny the dispute, and provide electronic notice of the outcome to the Scheduling Coordinator that submitted the dispute, no later than fourteen (14) days after the end of the dispute period for that settlement statement. Valid disputes regarding data appearing on Recalculation Settlement Statement T+35M will be reflected on Recalculation Settlement Statement T+36M.
- (c) Complex settlement statement disputes involve policy considerations, entail extensive research, require granular review of previous market runs, include complicated data or calculations, or depend on additional information to be provided by the disputing Scheduling Coordinator or a third party. The CAISO in its sole discretion may designate a settlement statement dispute to be complex dispute. The CAISO will advise the disputing Scheduling Coordinator within twenty (20) Business Days after the end of the dispute period for that settlement statement if a dispute is a complex dispute. The CAISO shall make reasonable efforts to reach a determination to approve or deny a complex dispute resulting from (i) an Initial Settlement Statement T+7B, Recalculation Settlement Statement T+38B, or Recalculation Settlement Statement T+76B, no later than fifteen (15) months after the Trading Day so that any resultant adjustment will be included on the Recalculation Settlement Statement T+18M, and (ii) a Recalculation Settlement Statement T+18M, no later than thirty-three (33) months after the Trading Day so that any resultant adjustment will be included on the Recalculation Settlement Statement T+35M.

11.29.10 Billing And Payment

The CAISO shall prepare and send to each Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO two Invoices or Payment Advices for each billing period in each calendar month. There are two (2) billing periods in each calendar month. The first billing period is from the first to the fifteenth day of the month and second billing period is from the sixteenth to the last of day of the month. The CAISO will publish Invoices and Payment Advices for the first semi-monthly billing period in a month on the seventh Business Day after the Trading Day that is the fifteenth day of the month. The CAISO will publish Invoices and Payment Advices for the second semi-monthly billing period in a month on the seventh Business Day after the Trading Day that is the end of the month. Each Invoice or Payment Advice will show amounts which are to be paid by or to each Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO, the Payment Date, being the date on which such amounts are to be paid or received, and details of the CAISO Clearing Account to which any amounts owed by or to Scheduling Coordinators, CRR Holder, Black Start Generator or Participating TO are to be paid. Revenues owed from a Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO are expressed as a positive amount on an Invoice. Revenues owed to a Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO are expressed as a negative amount on a Payment Advice. Payments or charges for the items referred to in an Invoice or Payment Advice (except for the charges payable under long-term contracts) for each Trading Day in each calendar month shall be made five (5) Business Days after the date on which the semi-monthly Invoice or Payment Advice is issued.

11.29.10.1 Billing Periods

Each Invoice or Payment Advice will include one (1) semi-monthly billing period and up to five (5) other billing periods. The other billing periods correspond to the dates on which the Recalculation Settlement Statements are published. Any Invoice or Payment Advice for a billing period corresponding to a Recalculation Settlement Statement will be reflected on the next scheduled semi-monthly Invoice or Payment Advice for the end of the month. Each billing period will be

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

represented separately on the Invoice or Payment Advice but the net Invoice or Payment Advice for a Scheduling Coordinator, CRR Holder, Black Start Generator or Participating TO will reflect the entity's net financial obligations in all billing periods.

11.29.10.2 Interest

Interest will be applied to any Incremental Changes through Recalculation Settlement Statement T+36M. Interest will be calculated separately for the billing period from the first to the fifteenth day of the month and for the billing period from the sixteenth to the last of day of the month. The rate of interest will be the interest rate calculated in accordance with 18 C.F.R. 35.19a of FERC's regulations.

11.29.10.3 Other Invoicing Provisions

The Invoices or Payment Advices will also include the total charges for each component of the Grid Management Charge, the total charges associated with any Interest for each relevant Trading Month, the FERC Annual Charges due monthly, as well as any disbursements associated with a shortfall receipt distribution.

A separate Invoice for the FERC Annual Charges due annually will be issued by the CAISO to the Scheduling Coordinator in accordance with Section 11.19.1.2. The CAISO will issue separate Invoices for NERC/WECC Charges as described in Section 11.20.

A separate Invoice for a shortfall allocation will be issued by the CAISO to Scheduling Coordinators in the event of a payment default in accordance with Section 11.29.17.1. In the event of an allocation of a payment default in accordance with Section 11.29.17.2, the CAISO may either issue separate Invoices to Default-Invoiced SCIDs pursuant to Section 11.29.17.2.1 or to SCIDs pursuant to Section 11.29.17.2.2, as applicable, or may issue Invoices through its standard invoicing process that include the allocation of the payment default.

Recalculation Settlement Statements, post closing adjustments and the financial outcomes of CAISO ADR Procedures and any other dispute resolution may be invoiced separately from monthly market activities. The CAISO shall provide a Market Notice at least five (5) Business Days prior to such invoicing identifying the components of such Invoice or Payment Advice.

11.29.10.4 Emergency Procedures

11.29.10.5 Use of Estimated Data

In the event of an emergency or a failure of any of the CAISO software or business systems, the CAISO may use estimated Settlement Statements and Invoices and Payment Advices and may implement any temporary variation of the timing requirements relating to the Settlement and billing process contained in the CAISO Tariff. Details of the variation and the method chosen to produce estimated data, Settlement Statements and Invoices and Payment Advices will be published on the CAISO Website.

11.29.21.2 Evidence of Unpaid Amount

The CAISO shall, on request, certify in writing the amounts owed by a CAISO Debtor that remain unpaid and the CAISO Creditors to whom such amounts are owed and shall provide certified copies of the relevant Initial Settlement Statement T+7B and the Recalculation Settlement Statements, Invoices, Payment Advices, and other documentation on which the CAISO's certificate was based to the CAISO Debtor and the relevant CAISO Creditors. A CAISO certificate given under this Section 11.29.21.2 may be used as prima facie evidence of the amount due by a CAISO Debtor to CAISO Creditors in any legal proceedings.

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

11.29.23 Communications

The Initial Settlement Statement T+7B, any Recalculation Settlement Statement, and Invoices, and Payment Advices will be considered issued to CAISO Creditors or CAISO Debtors when released by the CAISO's secure communication system. Communications on a Payment Date relating to payment shall be made by the fastest practical means including by telephone. If there is a failure of a communication system and it is not possible to communicate by electronic means, then the CAISO or CAISO Creditor or CAISO Debtor, as the case may be, shall communicate by facsimile but only if the recipient is first advised by telephone to expect the facsimile. Methods of communication between the CAISO and Market Participants may be varied by the CAISO giving not less than ten (10) days notice to Market Participants on the CAISO's secure communication system.

11.29.24.1 Preparation

In September of each year, the CAISO will prepare a draft CAISO Payments Calendar for the following calendar year showing for each Trading Day:

- (a) The date by which Scheduling Coordinators are required to provide Actual Settlement Quality Meter Data or Scheduling Coordinator Estimated Settlement Quality Meter Data for all their Scheduling Coordinator Metered Entities for each Settlement Period in the Trading Day;
- (b) The date on which the CAISO will issue Initial Settlement Statements T+7B and Invoices and Payment Advices to Scheduling Coordinators or CRR Holders, Black Start Generators and Participating TOs for that Trading Day;
- (c) The date by which Scheduling Coordinators, CRR Holders, Black Start Generators and Participating TOs are required to notify the CAISO of any disputes in relation to their Initial Settlement Statements T+7B pursuant to Section 11.29.8.2;
- (d) The date on which the CAISO will issue the Recalculation Settlement Statements T+38B, T+76B, T+18M, T+35M, and T+36M, and Invoices and Payment Advices to Scheduling Coordinators, CRR Holders, Black Start Generators and Participating TOs for that Trading Day;
- (e) The dates by which Scheduling Coordinators, CRR Holders, Black Start Generators and Participating TOs are required to notify the CAISO of any disputes in relation to their Recalculation Settlement Statements T+38B, T+76B, T+18M and T+35M.
- (f) The date and time by which CAISO Debtors are required to have made payments into the CAISO Clearing Account in payment of Invoices for that Trading Day;
- (g) The dates and times on which CAISO Creditors will receive payments from the CAISO Clearing Account of amounts owing to them for that Trading Day; and
- (h) In relation to Reliability Must-Run Charges and RMR Payments, the details set out in paragraph 3 of Appendix N, Part J.

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

The CAISO will make a draft of the CAISO Payments Calendar available on the CAISO Website to Scheduling Coordinators, CRR Holders, Black Start Generators, Participating TOs and RMR Owners any of which may submit comments and objections to the CAISO within two weeks of the date of posting of the draft on the CAISO Website. No later than October 31st in each year, the CAISO will publish the final CAISO Payments Calendar for the following calendar year, after considering the comments and objections received from Scheduling Coordinators, CRR Holders, Black Start Generators, Participating TOs and RMR Owners. The final CAISO Payments Calendar will be posted on the CAISO Website, and will show for the period from 1 January to 31 December in the next succeeding year (both dates inclusive), the dates on which Settlement Statements shall be published by the CAISO and the Payment Dates on which the CAISO will pay the Participating TOs the Wheeling revenues allocated to them pursuant to Section 26.1.4.3.

37.5.2 Inaccurate Meter Data

37.5.2.1 Expected Conduct

Market Participants shall provide complete and accurate Settlement Quality Meter Data for each Trading Hour and shall correct any errors in such data no later than forty-three (43) calendar days after the Trading Day (T+43C). The failure to provide complete and accurate Settlement Quality Meter Data, as required by Section 10.3.6 that causes an error to exist in such Settlement Quality Meter Data after forty-three (43) calendar days after the Trading Day (T+43C) shall be a violation of this rule. Scheduling Coordinators that fail to submit Scheduling Coordinator Estimated Settlement Quality Meter Data that is complete and based on a good faith estimate that reasonably represents Demand and/or Generation quantities for each Settlement Period as required by Section 10 and that results in an error that is discovered after forty three (43) calendar days after the Trading Day (T+43C) shall be a violation of this rule.

37.5.2.2 Sanctions

Violations under this Section 37.5.2 shall be subject to Sanction described in Section 37.11.

37.5.2.3 Disposition of Sanction Proceeds

For purposes of redistributing collected market adjustments, any amounts collected under this provision shall be applied first to those parties affected by the conduct. Any excess amounts shall be disposed of as set forth in Section 37.9.4.

37.11 Method For Calculating Penalties

37.11.1 Method For Calculating Inaccurate Meter Data Penalty

There is no Sanction for the submission of inaccurate Meter Data used for an Initial Settlement Statement T+ 7B. However, an error in submitted Meter Data that exists after forty three (43) calendar days after the Trading Day (T+43C) constitutes a Rule of Conduct violation. The level of the Sanction depends on whether the Scheduling Coordinator or the CAISO discovered the error. An increased penalty will apply for errors that are discovered by the CAISO.

Table A1 below shows how the level of the Sanction depends on the following factors: whether or not the Scheduling Coordinator finds the error; whether or not the Scheduling Coordinator owes the market, and whether or not the CAISO performs a re-run of the market or produces a Recalculation Settlement Statement. If the CAISO issues a Recalculation Settlement Statement or performs a re-run, then Settlement to all Scheduling Coordinators is recalculated, and the impact of such re-runs on charges assessed will be considered. A penalty charge equal to thirty (30) percent of the estimated value of the Energy error will apply if the Scheduling Coordinator discovers the error or seventy-five (75) percent of the estimated value of the Energy error if the

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

CAISO discovers the error. Penalty assessment and disposition of penalty proceeds will be administered as described in Section 37.9.1 and Section 37.9.4 respectively. A Sanction will not be imposed unless such Sanction is more than \$1,000 for at least one Trading Day during the period for which there was incomplete or inaccurate Meter Data.

Table A1 – Calculation of Inaccurate Meter Data Penalty When There Is A Recalculation Settlement Statement or re-run Case	Does SC Owe Market?	
Case 1: SC Identifies Inaccurate Meter Data	Yes	Penalty = (MWh x applicable price) x 0.30
Case 1: SC Identifies Inaccurate Meter Data	No	Penalty = (MWh x applicable price) x 0.30
Case 2: CAISO Identifies Inaccurate Meter Data	Yes	Penalty = (MWh x applicable price) x 0.75
Case 2: CAISO Identifies Inaccurate Meter Data	No	Penalty = (MWh x applicable price) x 0.75

Note to Table A1:

The applicable price will be the greater of: (1) the simple average of the relevant twelve (12) five-minute LMPs for each hour in which inaccurate Meter Data occurred; or (2) \$10/MWh. The LMP used will be the values posted on OASIS for each Trading Hour of the applicable Trading Day period.

2. Method for Calculating Inaccurate Meter Data Penalty When there is not a Recalculation Settlement Statement or re-run.

If the CAISO does not perform a Recalculation Settlement Statement or re-run, for cases of inaccurate Meter Data, Table A2 will be used to determine and allocate penalty and any market adjustment amount. The market adjustment approximates the financial impact on the market; however, it does not completely reflect all the Settlement consequences of inaccurately submitted Meter Data. The approximated value of the inaccurate Meter Data in question will be calculated and returned to the market based on the average of the pro rata share of Unaccounted for Energy (UFE) charged in the utility Service Area during the period of the inaccurate Meter Data event. The thirty (30) percent or seventy-five (75) percent penalty will be distributed as discussed in Section 37.9.4. For cases where the CAISO does not perform a Recalculation Settlement Statement or re-run and the Scheduling Coordinator does not owe the market, then no market adjustment will be performed and no penalty will be assessed.

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

TABLE A2- Calculation Of Inaccurate Meter Data Penalty When There Is Not a Recalculation Settlement Statement or re-run Case	Does SC Owe Market?	CAISO does not perform a Recalculation Settlement Statement or re-run
Case 1: SC Identifies Inaccurate Meter Data	Yes	Market Adjustment = (MWh x applicable price) Penalty = (MWh x applicable price)) x 0.30
Case 1: SC Identifies Inaccurate Meter Data	No	No market adjustment will be made
Case 2: CAISO Identifies Inaccurate Meter Data	Yes	Market Adjustment = (MWh x applicable price) Penalty = (MWh x applicable price) x 0.75
Case 2: CAISO Identifies Inaccurate Meter Data	No	No market adjustment will be made

Notes to Table A2:

The applicable price will be the greater of: (1) the simple average of the relevant twelve (12) five-minute LMPs for each hour in which inaccurate Meter Data occurred; or (2) \$10/MWh. The LMP used will be the value posted on OASIS for each Trading Hour of the applicable Trading Day.

A Sanction will be imposed only if the Sanction is more than \$1,000 for at least one Trading Day during the period for which there was incomplete or inaccurate Meter Data.

If the error is to the detriment of the responsible Scheduling Coordinator (e.g., under-reported Generation or over-reported Demand), and the CAISO does not produce a Recalculation Settlement Statement or perform a re-run, then no market adjustment will be made and no penalty will be assessed. If the CAISO produces a Recalculation Settlement Statement or performs a re-run after the error is corrected, then the Scheduling Coordinator will be given credit for the additional Energy through the normal Settlement process. If the Scheduling Coordinator is paid for an error due to a Recalculation Settlement Statement or re-run, then a Sanction will be assessed to assure that Recalculation Settlement Statements or re-runs do not diminish the incentive to correct such errors. This Sanction would be thirty (30) percent of the Energy value of the error if the Scheduling Coordinator discovers the error or seventy-five (75) percent estimated value of the error if the CAISO discovers the error.

If the error is to the detriment of the market, then a charge equal to thirty (30) percent or seventy-five (75) percent of the estimated value of the error, as appropriate, will be added to the charge for the Energy. If there is no Recalculation Settlement Statement or re-run, then the cost of Energy supplied by the CAISO (and inappropriately charged to the market as Unaccounted for Energy) must be recovered as well, and the charge will be equal to one hundred thirty (130) percent or one hundred seventy-five (175) percent of the estimated value of the error, as appropriate.

California Independent System Operator Corporation
Fifth Replacement Electronic Tariff

2. Definitions

As used in this Appendix J, the capitalized terms defined below shall have the definitions specified in this Section 2. All other capitalized terms shall have the meaning specified in the Master Definition Supplement in Attachment A.

- Incremental Change

The change in dollar value of a specific Charge Code from the Initial Settlement Statement T+7B to a subsequent Recalculation Settlement Statement including any new Charge Codes or Trading Day charges appearing for the first time on a Settlement Statement.

- Recalculation Settlement Statement

The recalculation of a Settlement Statement in accordance with the provisions of the CAISO Tariff, which includes the Recalculation Settlement Statement T+38B, the Recalculation Settlement Statement T+76B, the Recalculation Settlement Statement T+18M, the Recalculation Settlement Statement T+35M, the Recalculation Settlement Statement T+36M or any other Recalculation Settlement Statement authorized by the CAISO Governing Board.

- Recalculation Settlement Statement T+76B

The reissue of an Initial Settlement Statement T+7B or a Recalculation Settlement Statement T+38B by the CAISO on the seventy-sixth (76th) Business Day from the relevant Trading Day (T+76B).

- Settlement Statement

Any one of the following: Initial Settlement Statement T+7B, Recalculation Settlement Statement T+38B, Recalculation Settlement Statement T+76B, Recalculation Settlement Statement T+18M, Recalculation Settlement Statement T+35M, Recalculation Settlement Statement T+36M, or any other Recalculation Settlement Statement authorized by the CAISO Governing Board.