
 California ISO	Operating Procedure	Procedure No. 5740
		Version No. 1.3
		Effective Date 2/14/2018
Meter Data Acquisition and Processing Procedure		Distribution Restriction: None

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Purpose

This procedure provides an outline to be followed by the Scheduling Coordinators with regards to Settlement Quality Meter Data submission. This procedure also outlines the responsibilities of the ISO in order to collect, process, and post Meter Data.

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1. Responsibilities

ISO Metering	<ul style="list-style-type: none"> Collects and process Meter Data for the ISO Metered Entities (ISOME's). Monitor Scheduling Coordinator Metered Entities (SCME's) Meter Data submissions. Post Settlement Quality Meter Data (SQMD) to the Settlement Quality Meter Data System (SQMDS).
Scheduling Coordinator (SC)	<ul style="list-style-type: none"> Represents and performs functions on behalf of the Generator Owner and/or Load Serving Entity (LSE) including data submission on behalf of their Metered Entity (SCME only).
Scheduling Coordinator Metered Entity (SCME)	<ul style="list-style-type: none"> Submit SQMD to the SQMDS in accordance with the submission standards set forth in accordance with Section 10 of the CAISO Tariff .
ISO Metered Entity (ISOME)	<ul style="list-style-type: none"> Maintain a Certificate of Compliance for their Metering Facilities in accordance with Section 10.2.4.5 of the CAISO Tariff. Ensure communication between the meter(s) and the ISO in order to collect Meter Data. Make available Revenue Quality Meter Data (RQMD).

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2. Scope/Applicability

2.1 Background

Meter Data is either acquired via polling of the **ISO Metered Entity's (ISOME's)** meters or direct submission via **the Settlement Quality Meter Data System (SQMDS)** by Scheduling Coordinators Metered Entities (SCME's). Scheduling Coordinators are responsible for following the rules and regulations that have been set forth **in accordance with Section 10** of the CAISO Tariff and **the** Business Practice Manual for Metering.

2.2 Scope / Applicability

The procedure is intended to be used as an overview of the actions taken in order to process Meter Data from ISO Meter Entities and Scheduling Coordinator Metered Entities.


3. Procedure Detail

3.1 ISOMEs Interrogation

Before interrogation (ISO polling of ISO Metered Entity meters) and processing of Revenue Quality Meter Data (RQMD), the ISOMEs need to ensure the availability of RQMD via an approved ISO meter in accordance with the CAISO Tariff and the Business Practice Manual for Metering.

Description
Interrogation of the meters is necessary to collect the Meter Data from ISOMEs. Once the data is collected, it is necessary to convert it to Settlement Quality Meter Data (SQMD) by taking the following actions:

Step	ISO Metering Actions
1	The ISO polls the meters using the Revenue Meter Data Acquisition and Processing System (RMDAPS), according to the ISO cycle day calendar for Meter Data since the last time polled.
2	Once the meters have been polled, RMDAPS will identify communication issues and validation failures.
3	If communication issues still exist at T+5B and no corrective measures have been expressed by the ISOME, the ISO will issue a non-compliance letter to the ISOME owner and notify the Scheduling Coordinator affiliated with such site/resource.

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4	Once the data has been validated, the RQMD is then deemed to be Settlement Quality Meter Data (SQMD) and uploaded to the Settlement Quality Meter Data System (SQMDS) by the fifth (5 th) business day after the Trading Day (T+5B).
5	If the RQMD remains unavailable as of midnight on the eighth (8 th) business day after the Trading Day (T+8B), the ISO will use T+3B estimated SQMD, within settlements for ISO Metered Entities for the Recalculation Settlement Statement T+12B.
6	<ul style="list-style-type: none"> • If the ISO is notified that the revenue quality meter for an ISO Metered Entity requires repair, the ISO will produce SQMD for that entity using data via an approved metering exemption or through the normal Validation, Estimation, and Editing (VEE) process. • The SQMD will be made available to the Scheduling Coordinator for the ISO Metered Entity within forty-eight (48) business days from the Trading Day (T+48B) for the Recalculation Settlement Statement on T+55B.

Step	ISO Metered Entity Actions
1	<p>In accordance with Section 5.1.4 of the Business Practice Manual for Metering, if a certified meter of a Metered Entity requires repairs (hardware and/or communications), it is necessary to have the repairs completed within:</p> <ul style="list-style-type: none"> • Where there is no ISO Certified Backup Meter installed, repairs need to be completed within 48 hours of the notification by the ISO. Note: A Metering Exemption may be required to continue processing Meter Data. • Where there is an ISO Certified Backup Meter installed, repairs need to be completed within five Business Days of the notification.

3.2 ISOMEs Validation

Description
Validation is performed within RMDAPS and SQMDS to ensure data integrity. Validation is used in the settlement process affiliated with ISO Metered Entities.

Step	ISO Metering Actions
1	RMDAPS is configured to identify validation errors with corrective measures involving VEE procedures performed by a Meter Analyst in accordance with the BPM guidelines.
Note: The criteria used to perform VEE can be found in the ISO BPM for Metering Attachment D.	
2	Before data is posted on the SQMDS it undergoes validation to ensure correct formatting and active contracts.

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3	Once the Meter Data has been posted to SQMDS it is gathered for market settlement processing: <ul style="list-style-type: none"> Payment dates are determined by the ISO Settlements Payment Calendar located at: http://www.caiso.com/market/Pages/Settlements/Default.aspx
Note: Settlements will be conducted under Section 11 (ISO Settlements and Billing) of the CAISO Tariff.	

3.3 Scheduling Coordinators SQMD Access

Scheduling Coordinators, who represent ISOME's and SCME's, may access Meter Data in accordance with the CAISO Tariff and the BPM Metering requirements.

Description
Scheduling Coordinators may directly access the Meter Data for the Metered Entities they represent via the Settlement Quality Meter Data Systems (SQMDS).


Step	Scheduling Coordinator Actions
1	Request a digital certificate to access the SQMDS by submitting an Application Access Request Form.
2	Scheduling Coordinators may view SQMD on or before five (5) business days from the Trading Day (T+5B) for successfully polled meters where RQMD was obtained from ISO Metered Entities.

3.4 Scheduling Coordinators for SCMEs

3.4.1 SC Data Submission for SCMEs

Scheduling Coordinators representing Scheduling Coordinator Metered Entities shall submit data in accordance with the requirements set forth in Section 10.3 *Metering for Scheduling Coordinator Metered Entities* of the CAISO Tariff:

Description
Scheduling Coordinators are responsible for submission of the SQMD for their respective Scheduling Coordinator Metered Entity per CAISO Tariff and the BPM for Metering requirements.


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Step	Scheduling Coordinator Actions
1	Scheduling Coordinators may submit Actual SQMD or SC Estimated SQMD for the entities they represent; however, that data will not be used for the T+3B Settlement Statement. <ul style="list-style-type: none"> The ISO estimates all Meter Data for the T+3B Settlement Statement.
2	Actual SQMD or Estimated SQMD must be submitted no later than midnight on T+8B for the Recalculation Settlement Statement at T+12B calculation. <ul style="list-style-type: none"> In the absence of SQMD, estimated data used at T+3B will remain.
3	SQMD that is estimated by the ISO and not replaced with Actual SQMD by the SC by T+48B will be set to zero for the T+55B Settlement Statement.
4	Scheduling Coordinators must submit Actual SQMD for the Scheduling Coordinator Metered Entities they represent to the ISO no later than midnight on the forty-eighth (48th) business day after the Trading Day (T+48B) for the Recalculation Settlement Statement at T+55B: <ul style="list-style-type: none"> If the Scheduling Coordinator has submitted SC Estimated SQMD for T+12B, they may resubmit Actual SQMD for T+55B no later than T+48B. If Actual SQMD is not received by the ISO for a Scheduling Coordinator Metered Entity by T+48B, the Scheduling Coordinator is subject to monetary penalty under Section 37.5.2.1 of the ISO Rules of Conduct. Any SC Estimated SQMD submitted that is not replaced with Actual SQMD by T+48B is subject to monetary penalty and the SC Estimated SQMD will be used in the Recalculation Settlement Statements.
5	Scheduling Coordinators may submit Actual SQMD for the Scheduling Coordinator Metered Entities they represent to the ISO from up to T+172B for use in the Recalculation Settlement Statement T+9M: <ul style="list-style-type: none"> Any SQMD submitted for use in the Recalculation Settlement Statement T+9M is subject to monetary penalty under Section 37.5.2 of the ISO Rules of Conduct.

3.5 Missing Meter Data Process for Scheduling Coordinator Metered Entities

Description
The missing Meter Data process is performed to determine if there are any exceptions for Scheduling Coordinator Metered Entity Actual SQMD not submitted by T+48B.

Step	ISO Metering Actions
1	Perform the missing Meter Data process on T+49B for any exceptions from T+48B.

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2	For any exceptions that are found, the ISO will send a courtesy notification to Scheduling Coordinators.
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Step	Scheduling Coordinator Actions
1	If exceptions are found it is necessary for the Scheduling Coordinator to submit the missing Meter Data up to T+172B. <i>Subject to Section 37.5.2.1 of the ISO Rules of Conduct.</i>

4. Supporting Information

Operationally Affected Parties

Shared on the Internet.

References

Resources studied in the development of this procedure and that may have an effect upon some steps taken herein include but are not limited to:


<u>CAISO Tariff</u>	Sections 10.2, 10.3, 11, 37, and Appendix A
<u>Business Practice Manual for Metering</u>	Section 5.1.4 and Attachment D

Definitions

Unless the context otherwise indicates, any word or expression defined in the Master Definitions Supplement to the CAISO Tariff shall have that meaning when capitalized in this Operating Procedure.

The following additional terms are capitalized in this Operating Procedure when used as defined below:

SQMD	Settlement Quality Meter Data
RQMD	Revenue Quality Meter Data
VEE	Validation, Estimation, and Editing
RMDAPS	Revenue Meter Data Acquisition & Processing System
SQMDS	Settlement Quality Meter Data Systems
ISO Metered Entity	See CAISO Tariff Appendix A, Master Definitions Supplement
Scheduling Coordinator Metered Entity	A Generator, Eligible Customer or End-User that is not an h

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Version History

Version	Change	Date
1.0	Initial document	11/19/13
1.1	Periodic Review – no content changes. Updated logo in header and formatting.	5/23/16
1.2	Updated to reflect current processes regarding the polling of meters and non-communication with meters.	10/07/16
1.3	Changes relating to the decommissioning of OMAR Online and the implementation of MRI-S. Replaced CAISO with ISO in most instances. Minor format and grammar updates.	2/14/18

5. Periodic Review Procedure

Review Criteria


There are no specific review criteria identified for this procedure, follow instructions in Procedures 5510 and 5520.

Frequency

Review as recommended in Procedures 5510 and 5520.

Incorporation of Changes

There are no specific criteria for changing this document, follow instructions in Procedures 5510 and 5520.

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Manager Approval

Reviewed By Content Expert	Date
Manager, Metering and Market Services Compliance	2/07/18
Operating Procedures	2/07/18

Director Approval

Approved By	Date
Director, Market Services Support	2/08/18

Appendix

No references at this time.