 California ISO	Operating Procedure	Procedure No.	5750
		Version No.	2.4
		Effective Date	2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None	

Table of Contents

Purpose	1
1. Responsibilities	1
2. Scope/Applicability	2
2.1 Background.....	2
2.2 Scope / Applicability.....	2
3. Procedure Detail	3
3.1 SQMD Plan Imposed by the CAISO Tariff.....	3
3.1.1 Establishing a Project Number (NRI).....	3
3.1.2 Establishing a Project Number (WEIM On-boarding Only).....	4
3.1.3 SQMD Plan Template Submission & Approval Process.....	5
3.1.4 SQMD Plan Template Submission & Approval Process (Modifications Only).....	7
3.1.5 Submission of a Single-Line Diagram (SLD).....	8
4. Supporting Information	9
Operationally Affected Parties.....	9
References.....	9
Definitions.....	10
Version History.....	10
5. Periodic Review Procedure	11
Review Criteria & Incorporation of Changes.....	11
Appendix	11


Purpose

The purpose of this document is to provide Market Participants with the information and steps needed to successfully process a Settlement Quality Meter Data Plan.

1. Responsibilities

Market Participant	Establishes a unique Project Number required for the submission of a Settlement Quality Meter Data (SQMD) Plan Template and supporting documentation (Single-Line Diagram) via the New Resource Implementation (NRI) process.
CAISO New Resource Implementation (NRI) Team	Processes Project Details Form and conducts initial validation associated with the submitted SQMD Plan Template.

*This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No.	5750
		Version No.	2.4
		Effective Date	2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None	

CAISO Energy Data Acquisition Specialists (EDAS)	<ul style="list-style-type: none"> • Performs in-depth review and validation of received SQMD Plan Template and supporting documentation. • Provides timely customer feedback and status updates during the review and validation process. • Sends out a letter of Acceptance/Approval to the Market Participant upon successful completion of the review and validation process for the received SQMD Plan Template information.
---	--

2. Scope/Applicability

2.1 Background


Market Participants are required to submit and obtain California ISO (CAISO) approval for a SQMD Plan in accordance with Section 10.3.7.1 of the CAISO Tariff for:

- Scheduling Coordinator Metered Entities (SCMEs) that were not participating as such before April 10, 2017.
- Repower.
- Modification of their Meter Data intervals (market resource level).
- Add generating capacity.

In addition to the above requirements, SQMD Plans are also required for proposed modifications, which are subject to CAISO review and approval, in accordance with section 10.3.7.3 of the CAISO Tariff.

2.2 Scope / Applicability

This procedure includes all aspects related to the submission and approval of an SQMD Plan, associated with a Scheduling Coordinator Metered Entity's (SCME) market resource(s) used within CAISO Balancing Authority Area (BAA) and **Western** Energy Imbalance Markets (**WEIM**), effective April 10, 2017, in accordance with the CAISO Tariff requirements.

 California ISO	Operating Procedure	Procedure No.	5750
		Version No.	2.4
		Effective Date	2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None	

3. Procedure Detail

3.1 SQMD Plan Imposed by the CAISO Tariff

3.1.1 Establishing a Project Number (NRI)

A unique CAISO NRI Project Number is required to process a SQMD Plan Template. This identifier will assist in the tracking and customer notification process to ensure project related deliverables are met according to the timelines established within the NRI Process.


Below are the related steps and supporting actions to establish a unique NRI Project Number:

Market Participant
<ol style="list-style-type: none"> To establish your unique NRI Project Number, you will need to complete a Project Details Form (PDF) located at: http://www.caiso.com/Documents/ProjectDetailsForm.docx and complete the designated fields identified on the form associated with your project. <i>Note: A new NRI Project Number will need to be established to make <u>any modifications</u> to a previously submitted and approved SQMD Plan.</i> Save the completed PDF as a Word document (.docx) <u>and include</u> “New Project” within the filename. Submit your PDF to NRI@CAISO.COM with “New Project” within the email subject line for processing to obtain your unique CAISO NRI Project Number.

CAISO
<ol style="list-style-type: none"> If complete, <ul style="list-style-type: none"> CAISO NRI assigns a unique Project Number and an automated email goes out to the customer of record (Project Contact Name) identified on the submitted Project Detail Form. If missing Information, <ul style="list-style-type: none"> CAISO NRI notifies customer via email of missing information.

Market Participant
<ol style="list-style-type: none"> If successful, <ul style="list-style-type: none"> Associate the NRI Project Number with the related SQMD Plan Template. If missing information, <ul style="list-style-type: none"> Update missing information, and Resubmit PDF to NRI@CAISO.COM.

*This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No.	5750
		Version No.	2.4
		Effective Date	2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None	

3.1.2 Establishing a Project Number (WEIM On-boarding Only)


During WEIM On-boarding Only, the WEIM entity will be allowed to submit a single spreadsheet (New Resource Implementation Energy Imbalance Market On-boarding Project Loader) capturing all required information affiliated with their market resources’ IDs associated with their WEIM Metering Portfolio.

A WEIM Metering Portfolio is comprised of all market resources Generation (Participating and Non-Participating), Inerties, Inraties and Load representing an entity’s WEIM participation.

For WEIM On-boarding, due to the large volume of market resources, a single spreadsheet is used in lieu of the normal required individual PDF used to assist WEIM entities in establishing their unique Project Numbers.

Market Participants - WEIM Onboarding Only
<ol style="list-style-type: none"> Download the New Resource Implementation Energy Imbalance Market Onboarding Project Loader located at: http://www.caiso.com/Documents/NewResourceImplementationEnergyImbalanceMarketOnboardingProjectLoader.xlsx Complete <u>all</u> designated fields contained within the spreadsheet. <i>Note: Information requested within the spreadsheet may necessitate support by various business units within the WEIM entity.</i> Save the completed spreadsheet (.xlsx) <u>and</u> include “WEIMOnboarding” within the filename. Submit your completed spreadsheet to NRI@CAISO.COM with “New Project” in the subject line for processing to obtain your unique CAISO NRI Project Numbers associated with your WEIM Metering Portfolio market resources.

CAISO – WEIM Onboarding Only
<ol style="list-style-type: none"> If successful, <ul style="list-style-type: none"> CAISO NRI assigns a unique Project Number for each market resource contained within the spreadsheet <u>and</u> notifies the customer of record (Project Contact Name) via email. If missing information, <ul style="list-style-type: none"> CAISO NRI notifies customer via email of missing information.

 California ISO	Operating Procedure	Procedure No. 5750
		Version No. 2.4
		Effective Date 2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None

Market Participants – WEIM Onboarding Only
<ol style="list-style-type: none"> 1. If successful, <ul style="list-style-type: none"> • Associate the NRI Project Number with the related SQMD Plan Template. 2. If missing information, <ul style="list-style-type: none"> • Update missing information, and • Resubmit New Resource Implementation Energy Imbalance Market Onboarding Project Loader to NRI@CAISO.COM.


3.1.3 SQMD Plan Template Submission & Approval Process

The CAISO must approve a Scheduling Coordinator Metered Entity’s SQMD Plan that *includes a Single-Line Diagram (SLD)* and other requirements in accordance with Section 10.3.7.1 of the CAISO Tariff before the Scheduling Coordinator may submit Bids on its behalf into the CAISO Markets.

Below are the steps needed to complete a SQMD Plan Template for CAISO review and approval (excluding those SQMD Plans associated with “Modification(s) Only” which is covered in [Section 3.1.4](#)):

Market Participant
<ol style="list-style-type: none"> 1. Access the SQMD Plan Template Tutorial to obtain guidance and understanding related to each field associated with the SQMD Plan Template located at: http://www.caiso.com/Documents/SQMDResourceTemplateTutorial.pdf 2. Download the SQMD Plan Template located at: http://www.caiso.com/Documents/SQMDPlanTemplate.docx 3. Complete all sections of the SQMD Plan Template <i>excluding</i> the “Modification(s)” section. 4. Name your file according to the NRI Checklist deliverables names in Column B “Document Title” of the spreadsheet along with your CAISO project number and version number in the file name. Format: 14SCME1234 SQMD MeterConfig VerX (X = version #) 5. Save the completed SQMD Plan Template file as a Word document (.docx). 6. Submit the SQMD Plan Template via email to the New Resource Implementation (NRI) mailbox at NRI@CAISO.COM for processing. <i>Please include the Project Number (Only) within the Subject Line to ensure proper processing.</i> Subject Line: 14SCME1234 SQMD MeterConfig Ver1 Note: Only <u>one</u> attachment per email.

*This document is controlled when viewed electronically.
 When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No. 5750
		Version No. 2.4
		Effective Date 2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None


Market Participant
<p>7. If the resource has more than one Meter, use Additional Devices form located at: http://www.caiso.com/Documents/SQMDResourceTemplateAdditionalMeteringDevicesForm.docx</p> <p>8. Complete all sections of the Additional Devices form <u>and name</u> the file in the below format. Format: 14SCME1234 SQMD Additional MeterConfig VerX (X=Version #)</p> <p>9. Submit the Additional devices form via email to the New Resource Implementation (NRI) mailbox at NRI@CAISO.COM for processing.</p> <ul style="list-style-type: none"> • Please include the Project Number (Only) within the Subject Line to ensure proper processing. <p style="padding-left: 40px;">Subject Line: 14SCME1234 SQMD MeterConfig Ver1</p> <p>Note: Only <u>one</u> attachment per email.</p>

CAISO
<ol style="list-style-type: none"> 1. CAISO receives the submitted SQMD Plan Template for processing. 2. CAISO NRI personnel performs initial validation to ensure proper naming convention and submitted by authorized contact. 3. If successful, <ul style="list-style-type: none"> • CAISO NRI sends SQMD Plan Template on to CAISO EDAS for review and approval. 4. If incorrect information/formatting, <ul style="list-style-type: none"> • CAISO NRI notifies Market Participant of issues needing resolution for re-submission of the SQMD Plan Template.

Market Participant
<ol style="list-style-type: none"> 1. If incorrect information/formatting, <ul style="list-style-type: none"> • Market Participants makes needed corrections <u>and resubmits</u> the SQMD Plan Template.

CAISO
<ol style="list-style-type: none"> 1. CAISO EDAS begin review process. 2. If missing or additional information needed, <ul style="list-style-type: none"> • CAISO EDAS notifies customer of issues needing additional clarification and/or corrections for resolution. 3. If accepted, <ul style="list-style-type: none"> • CAISO EDAS personnel will notify the Market Participant of the “Accepted” SQMD Plan via email.

*This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No.	5750
		Version No.	2.4
		Effective Date	2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None	

Note: All SQMD Plans affiliated with the EIM On-boarding process must be individually accepted prior to receiving a letter of Acceptance/Approval.


3.1.4 SQMD Plan Template Submission & Approval Process (Modifications Only)

Scheduling Coordinator Metered Entities may propose for CAISO approval modifications to approved SQMD Plans in accordance with Section 10.3.7.3 of the CAISO Tariff.

Below are the steps needed to complete a SQMD Plan Template associated with modifications to an existing “approved” SQMD Plan. For modifications to a plan that has not yet been approved, please resubmit under original Project Number and supporting version number.

Market Participant
<ol style="list-style-type: none"> Access the SQMD Plan Template Tutorial to obtain guidance and understanding related to each required field associated with the SQMD Plan Template located at: http://www.caiso.com/Documents/SQMDResourceTemplateTutorial.pdf Download the SQMD Plan Template located at: http://www.caiso.com/Documents/SQMDPlanTemplate.docx Fill out the “Modification(s)” section by capturing the related changes in addition to the following sections: <ul style="list-style-type: none"> Participation: <u>All</u> relevant fields. Contact Information: <u>All</u> sections. Market Resource Attributes: Market Resource ID. Any other section(s) associated with such “modifications” i.e., meter replacement; specific details should also be captured within the “Metering Device(s)” section of this Template, including updated SLD’s. Name your file according to the NRI Checklist deliverables names in Colum B “Document Title” of the spreadsheet along with your CAISO project number and version number in the file name. Format: 14SCME1234 SQMD MeterConfig VerX (X = version #) Save the completed SQMD Plan Template file as a Word document (.docx). Submit the SQMD Plan Template via email to the New Resource Implementation (NRI) mailbox at NRI@CAISO.COM for processing. <p><i>Please include the Project Number (Only) within the Subject Line to ensure proper processing.</i></p> <p>Subject Line: 14SCME1234 SQMD MeterConfig Ver1</p> <p>Note: Only <u>one</u> attachment per email.</p>

*This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No. 5750
		Version No. 2.4
		Effective Date 2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None

CAISO
<ol style="list-style-type: none"> 1. CAISO receives the submitted SQMD Plan Template for processing. 2. CAISO NRI personnel performs initial validation to ensure proper naming convention and that it was submitted by authorized contact(s). 3. If successful, <ul style="list-style-type: none"> • CAISO NRI sends the SQMD Plan Template onto CAISO EDAS for review and approval. 4. If incorrect information/formatting, <ul style="list-style-type: none"> • CAISO NRI notifies Market Participant of issues needing resolution for re-submission of SQMD Plan Template.

Market Participants
<ol style="list-style-type: none"> 1. If incorrect information/formatting, <ul style="list-style-type: none"> • Market Participant makes the needed corrections <u>and</u> resubmits the SQMD Plan Template.

CAISO
<ol style="list-style-type: none"> 1. CAISO EDAS begin the review process. 2. If missing or additional information needed, <ul style="list-style-type: none"> • CAISO EDAS notifies customer of issues needing additional clarification and/or corrections for resolution. 3. If accepted, <ul style="list-style-type: none"> • CAISO EDAS personnel will notify the Market Participant of the “Accepted” SQMD Plan via email.


3.1.5 Submission of a Single-Line Diagram (SLD)

A SLD with a professional engineering stamps or (equivalent) depicting the physical elements and relationships among the metering device(s) **is required to support a SQMD Plan Template.**

Listed below are the steps needed to submit a SLD:

Market Participant
<ol style="list-style-type: none"> 1. Name your file according to the NRI Checklist deliverables names in Column B “Document Title” of the spreadsheet along with your CAISO project number and version number in the file name. Format: 14SCME1234 SLD VerX (X = version #) Note: Any file submitted with special character in the file name will be rejected.

*This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No.	5750
		Version No.	2.4
		Effective Date	2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None	

Market Participant
<p>2. Save the SLD file as an Adobe Portable Documented Format (PDF).</p> <p>3. Submit the SLD via email to the New Resource Implementation (NRI) mailbox at NRI@CAISO.COM for processing.</p> <p><i>Please include the Project Number (Only) in the Subject Line to ensure proper processing.</i></p> <p>Subject Line: 14SCME1234 SLD</p> <p>Note: Only <u>one</u> attachment per email.</p> <p>4. The CAISO requires Single Line drawings that are either “Issued for construction” or “As- Built”. All the “Issued for Construction” drawings are required to be stamped by a Professional Engineer (PE). In the absence of the Professional Engineer stamp, CAISO accepts an attestation letter. PE Stamp Attestation letter <u>must</u> be from the Electrical Engineer or associated Manager <u>and</u> it should state that the Single Line Drawing is the exact physical and electrical representation of the resource.</p> <p>Subject Line: Attestation</p> <p>File naming example: 18GEN1234 Attestation Ver1</p> <p>Note: Only <u>one</u> attachment per email.</p>

4. Supporting Information

Operationally Affected Parties


Shared **with the Public**.

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:

CAISO Tariff	Section 10
CAISO Operating Procedure	
NERC Requirements	
WECC Criterion	

*This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No. 5750
		Version No. 2.4
		Effective Date 2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None

Other References	Business Practice Manual for Metering New Resource Implementation (NRI) Process Metering Rules Enhancement Initiative
------------------	---

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:

None.

Version History

Version	Change	Date
1.0	New procedure; created “External” process to support Tariff Section 10.3.7.1 SQMD Plan effective 4/10/2017.	6/06/17
1.1	Section 3.1.2: Updated 2 nd paragraph. Removed modeled resources. Minor format and grammar updates.	10/19/17
2.0	Periodic Review: Minor update to Section 1, Responsibilities. Corrected typo in Section 2.1, 1st bullet. Updated various sections for consistency with other like Minor format updates for consistency with other procedures and grammar updates.	7/03/19
2.1	Removed MDAS References and added PE stamp attestation letter information. Minor formatting and grammar updates.	12/20/19
2.2	Added file naming convention for Additional devices form. Updated all ISO instances to CAISO. Minor formatting and grammar updates. Minor updates in Section 5 for consistency.	1/14/21
2.3	Periodic Review: Minor format and grammar edits.	10/20/22
2.4	Section 2.2: Updated reference to “Western” Energy Imbalance Market (WEIM). Section 3.1.2: Updated all applicable instances of EIM to WEIM.	2/16/23

*This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.*

 California ISO	Operating Procedure	Procedure No.	5750
		Version No.	2.4
		Effective Date	2/16/2023
Settlement Quality Meter Data (SQMD) Plan – Submission & Approval Process (External)		Distribution Restriction: None	

Version	Change	Date
	Minor edit under Operationally Affected Parties for procedures consistency.	

5. Periodic Review Procedure

Review Criteria & Incorporation of Changes

There are no specific review criteria for reviewing or changing this document, follow instructions in CAISO Operating Procedure 5510.

Frequency

Every three (3) Years.

Appendix

No references at this time.