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## Purpose

This procedure identifies the RC West data request requirements and designates the responsible entities for fulfilling these requirements.

### 1. Responsibilities

<b>Participating Transmission Owner (PTO)</b>	As designated, is responsible for fulfilling RC West data requests.  Entities who have entered into Transmission Control Agreements (TCA) with the ISO and, for the purposes of this procedure, are also NERC Registered Transmission Operators (TOPs). Under a Coordinated Functional Registration (CFR), these entities and the ISO determine which parties are responsible for which NERC standards and requirements.  <b>Note:</b> In the CFR matrix, the PTO is also known as the Transmission Entity (TE).
<b>California ISO (CAISO or ISO)</b>	As designated, is responsible for fulfilling RC West data requests.  As applicable, the ISO may be responsible for requirements as a NERC Registered Balancing Authority (BA), Transmission Operator (TOP), Planning Authority (PA) or Transmission Service Provider (TSP).

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<b>Distribution Providers (DPs), Generator Owners (GO), Generator Operators (GOPs) and Scheduling Coordinators</b>	As designated, are responsible for fulfilling RC West data requests and adhering to ISO processes under the California ISO Tariff, Business Practice Manuals and Operating Procedures, which fulfill the RC's data requests.
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## 2. Scope/Applicability

### 2.1 Background

Pursuant to NERC Reliability Standard IRO-010-2 R1, California ISO operating as RC West provides a documented specification to applicable functional entities of the data necessary for RC West to perform its Reliability Coordinator (RC) Operational Planning Analyses, Real-time monitoring, and Real-Time Assessments. Specifically, IRO-010-2 R3 requires that each functional entity shall satisfy the obligations of the documented specifications. As applicable to California ISO and the entities within its area, the RC requirements are included in [RC0120 Guidelines for RC West IRO-010 Data Specification and Collection](#) and its attachment [RC0120A RC West IRO-010 Data Specification](#). The implementation details and responsible entities are listed in the Operating Procedure Attachment 3130A Implementation Details for the Reliability Coordinator Data Specification.


### 2.2 Scope / Applicability

The data requested includes real-time facility data, schedule type data, facility outage information, and electrical equipment modeling data. This data is necessary for the RC to carry out its functions, as defined by the NERC Reliability Standards, including:

- Real-Time Situational Awareness
- System Alarms and Visualizations
- Advanced Applications and other Network Analysis Tools
- Future, Next Day and near Real-Time Engineering Study Analysis
- Analysis, Event Analysis, Trends, Forecasts, etc.

Participating Transmission Owners (PTOs), Distribution Providers (DPs), Generator Owners (GOs), Generator Operators (GOPs) and the Scheduling Coordinators (SCs) that represent these entities, are responsible for providing data to the ISO under the California ISO Tariff, Business Practice Manuals and Operating Procedures.

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IRO-010-2 provides that TOPs and BAs may provide the operating data described in Operating Procedure Attachment 3130A Implementation Details for the Reliability Coordinator Data Specification to the RC on behalf of Generation Owners, Generation Operators, Load Serving Entities and Transmission Owners to the extent they are authorized by those entities to do so. Accordingly, by providing any such data to the ISO, under the California ISO Tariff, Business Practice Manuals and Operating Procedures, these entities give their consent that the ISO may provide this data directly to the RC. If any such entity objects in writing to the ISO supplying this data to the RC, or if any such entity does not provide any of the data listed in this document below to the ISO, it is the responsibility of that entity to provide the data directly to the RC. The applicable TOP or BA will also notify the RC that such entity is responsible for supplying this data directly to the RC.

TOPs, who are not a party to the Coordinated Functional Registration Agreement with the ISO, are responsible for providing their own operating data, described in Operating Procedure Attachment 3130A Implementation Details for RC West's IRO-010 Data Request, directly to the RC.

### 3. Procedure Detail

#### 3.1 Data Transfer Types

The specified formats and security protocols have been previously recognized as mutually agreeable. [Entities](#) within the ISO BA and TOP area shall email [operationscompliance@caiso.com](mailto:operationscompliance@caiso.com) of any instances where the specified formats or security protocols are not agreeable to the entity. The ISO shall collaborate with the entities to resolve data conflicts in a mutually agreed upon manner that ensures System reliability.


The formats for the data to be delivered to the ISO and RC are as follows:

#### **Inter Control Center Protocol Data (ICCP):**

- Real-time Analog and Status point data as detailed in Operating Procedure Attachment 3130A Implementation Details for RC West's IRO-010 Data Request.
- The data provider must include data quality along with the data. This data quality shall follow the ICCP Data Quality Standards as described in the IEC ICCP User's Guide (870-6-505).
- If real-time ICCP data transfer is unavailable for any reason, the responsible entity will provide critical real-time system data via phone to the RC real-time desk. Data or data points that are considered critical may change based on current system conditions. It is expected that the RC and Responsible Parties will communicate and coordinate on which data is needed at a particular time as well as a periodicity for providing updates until the normal data communication methods are back in place.

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- Implementation notes for submitting data to the ISO and PTOs are included in Operating Procedure [3140A, TOP-003-3 TOP - BA Data Request and Specifications for Data Provision](#)


#### **Outage Management System (webOMS):**

- The ISO's webOMS is the primary mechanism for required outage submittals. This central outage system has a Web front-end for easy data entry. Submissions can be automated via a Web Services API by working directly with the system vendor. webOMS supporting documentation and training are posted publicly and/or available on secure sites for registered customers.
- Implementation notes for submitting data to the ISO and PTOs are included in Operating Procedure [3140A, TOP-003-3 TOP - BA Data Request and Specifications for Data Provision](#)

#### **Topology Update Process for the EMS Network Model:**

- The EMS Network Model updates will be provided through the Model Update Process. Model update details are in the RC0120A and RC0120B attachments and are required per the Full Network Model schedule (additions, deletions or changes in energized equipment). If there are no network changes, then there is no need to submit updates.
- At a minimum, RC West requires modeling data associated with Facilities or equipment, which are included in the Bulk Electric System (BES) definition, as well as data for non-BES Facilities/equipment that impact the BES. This includes, but is not limited to; parallel sub-100 kV systems as determined by the TOP or by CAISO as being necessary to support the accuracy of Real-Time Assessments or to determine SOL exceedance on BES Facilities. Lack of this information in the CAISO EMS Network Model leads to potential inaccuracies in advanced Real-time applications such as state estimation, Contingency analysis, and voltage stability. Implementation notes for submitting data to the ISO and PTOs are included in Operating Procedure [3140A, TOP-003-3 TOP - BA Data Request and Specifications for Data Provision](#):
- See the current Full Network Model Schedule posted on the public website at: <http://www.caiso.com/market/Pages/NetworkandResourceModeling/Default.aspx>
- ISO's Transmission Registry Business user documentation is located at the following link: <http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=6CB3BA36-B21A-47E6-BAA9-BF76090A087E>.

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**Other data formats:**

- Other data formats and submittal processes include the use of email, upload to the RC Portal <https://rc.caiso.com>, Grid Messaging System (GMS) messages and phone calls.

**Request details:**

Operating Procedure Attachment 3130A Implementation Details for RC West's IRO-010 Data Request contains the specific data RC West requires from each Responsible Party and contains columns which denote the:

- Request Number (Req #) – Used for document coordination and communication purposes.
- Responsible Party – Applicable entity responsible for ensuring its data is being provided to RC West.
- Data Request Effective Date – Effective date per RC West's document
- Data Item - Specific data being requested.
- Data Transfer Method – Method by which data is provided to RC West.
- Data Update Frequency – Periodicity for providing the specified data.
- Responsible for Submission to RC – in accordance with the functional registration for the applicable entity or the CFR. If related to the CFR will designate either Single ISO, Single PTO, Each or Split.
- Supporting Entity & Tasks – as applicable PTO, DP, GO, GOP and/or Scheduling Coordinators adhere to ISO processes, which in turn will fulfill the RC's data request.

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## 4. Supporting Information

### Operationally Affected Parties

Shared with the Public and RC West.

### 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	
NERC Standards	BAL-001-2 BAL-002-2 BAL-002-WECC-2a EOP-005-2 EOP-010-1 EOP-011-1 IRO-010-2 IRO-017-1 TOP-001-4 TOP-002-4 TOP-003-3
Transmission Control Agreement (TCA)	<a href="http://www.caiso.com/rules/Pages/ContractsAgreements/Default.aspx">http://www.caiso.com/rules/Pages/ContractsAgreements/Default.aspx</a>
Coordinated Functional Registration (CFR) Matrix	<a href="#">CFR Agreements<sup>1</sup></a>


### 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.**


<sup>1</sup> <http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=DA2130B0-ACA2-47BC-8C37-63EBC396D770>

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### Version History

Version	Change	Date
1.0	Initiated new document	1/01/15
1.1	Removed comments & minor formatting.	1/06/15
2.0	Updated and changed organization of Procedure detail	4/15/15
3.0	New section notes added to 2.9.1, 2.19, 3.3.1, 3.4.2, 3.5.1, 3.5.2, 3.5.3, 3.6.1, 3.6.2, 3.7.1, 3.7.2, 3.8.1, 3.8.2, 5.1, 5.2.1, 5.7.1, 5.8.1, 6.6.1. Removed section notes from 4.1, 5.1, 5.2, 5.3, 5.1. Added note in section 2.2. Changed Distribution Restriction to "None" and noted "Public, RC West" under Operationally Affected Parties. Section 3.6: Changed TBC note at the end to reference 5.13, not 5.14.	4/15/16
4.0	Updated for IRO-010-2 effective 1/1/17; no requirements have changed as of 1/1/17; In 2016 implementations the following changes occurred and were implemented in January and April: 2.9.1 replaced 2.9, 3.3.1 replaced 3.3, 3.5.1 replaced 3.5, 5.2.1 replaced 5.2, 5.7.1 replaced 5.7, 6.6.1 replaced 6.6	1/01/17
4.1	Updated per RC West's Data Request Specification version 12.2 effective 4/1/17; Updated numbering throughout the document; Updated language throughout the document to be consistent with the DR; New or completely re-written requirements as of 4/1/17 include: 1.5, 1.14, 2.5, 2.8, 2.21, 3.2, 4.1, 5.1 – 5.14, 6.10, 6.12, 7.1, 7.2 and 7.4	4/01/17
5.0	Split OP 3130 table content into spreadsheet format to create new attachment 3130A; Verified consistency with RC West's DR v13.1 effective 12/8/17. Refer to yellow highlighted changes throughout document.	12/28/17
6.0	Updated for transition from Peak RC to RC West. Clarifications only, no new requirements for submission of data to CAISO or RC West. Refer to yellow highlighted changes throughout document. Minor format and grammar updates throughout.	7/01/19
6.1	Updated Section 6 for modeling items to refer to the Full Network Model schedule. Removed reference to Peak RC.	1/01/20
7.0	Periodic Review: Minor format and grammar edits only.	11/02/20

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## 5. Periodic Review Procedure

### Review Criteria & Incorporation of Changes

Will be reviewed based on current RC West Data Request requirements. Will publicly post drafts and provide to notice to ISO BA and TOP area customers for review and comment in advance of changes, which affect implementation of ISO BA and TOP area customer business processes and systems. Otherwise, there are no additional specific review criteria identified for this procedure, follow instructions in Procedure 5510.

### Frequency

Every **three (3)** years.

## Appendix

3130A Implementation Details for RC West's IRO-010 Data Request