

	Reliability Coordinator Procedure	Procedure No.	RC0130B
		Version No.	2.0
		Effective Date	11/01/26
New Equipment/RAS Energization		Distribution Restriction: None	

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Purpose

Provide a checklist for RC **West** and **Transmission Operator (TOP)** to verify readiness prior to approving TOP request to energize new equipment or Remedial Action Scheme (RAS).

1. TOP Responsibilities

1.1. New BES Equipment Energization

The TOP shall ensure the following information is provided to RC West, prior to energizing new **Bulk Electric System (BES)** transmission equipment:

- Submit **Full Network Model (FNM)** modelling information, including contingency definition, for new BES equipment and ICCP changes in accordance with RC West model submission requirements and timelines. Refer to [Modeling Changes User Guide for RC West Customers](#) and [Modelling Submission Checklist](#) located on the RC Portal.
 - In general, RC West requires model submission **approximately three months** before the planned energization date for new equipment. Refer to the detailed FNM schedule located on the RC Portal > Western Interconnection Model Library.
 - For questions or support, reach out to the RC West Modelling team (MPAI@caiso.com).
- Ensure outage cards are submitted to meet RC West requirements. Note that **at a minimum, two outage cards** are required:
 1. **RIMS OMS card:** Outage card with “RIMS” nature of work to update the RC West model to the correct topology. This card is needed prior to the week of the database model promotion per the [RC0630A OATI webSmartOMS User Manual](#).
 2. **Energization Date Tracking OMS Card:** Outage card primarily for the purpose of tracking the planned energization date in accordance with [RC West Outage Coordination Process \(RC0630\)](#).
 - a. Ensure that the “**New Equipment Energized**” flag is checked in the Outage Management System (OMS) card.

Note: RC West requires outage submission **seven to fourteen days** prior to planned energization of new equipment, per the RC short-range outage study window.
- Post-model deployment, validate model and Inter-Control Center Communications Protocol (ICCP) object IDs are correctly deployed via the RC Portal > Western Interconnection Model Library.
 - For questions or support with validation, reach out the RC West Modelling team ([MPAI@caiso.com](#)).
 - Ensure read access is provided to RC West for any new or changed ICCP points.

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- If ICCP will be not fully deployed before energization, coordinate with the appropriate RC West Operations Engineering team **as early as possible** based on the timeframe, to mitigate any potential negative impacts to RC West State Estimation solution quality by development of an Operating Plan which will include a process for managing topology through OMS outage card:
 - For Operating Plan development more than 4 days prior to energization, coordinate with Operations Planning North (Ops-Planning-North@caiso.com) or South team (Ops-Planning-South@caiso.com).
 - For Operating Plan development 4 days or less prior to energization, coordinate with Reliability & Market Operations Engineering (OnShiftEngineer@caiso.com).

Note: RC West may be able to process urgent ICCP submissions via “model change requests” (MCRs) between model deployments, on a case-by-case basis. Coordinate with RC West Modelling team by submitting a CIDI ticket (include “ICCP” in the subject line and/or select “WDSP/ICCP” as the Category); along with the Resource Interconnection management System (RIMS) submission, to request urgent ICCP changes via MCR. A placeholder for the ICCP must be created during the normal DB process for ICCP to be deployed via MCR. This process only works if the ICCP need had been previously identified, but the ICCP point was not yet ready.

- Request Final Approval to Energize: Contact the Real-time RC Desk to request RC Operator approval on the day of first energization.

1.2. New RAS Implementation

The TOP shall ensure that the following information is provided prior to implementing a new RAS:

- Submit RAS documents for RC West review and approval in accordance with RC West [RC0690A PRC-012 Remedial Action Schemes - RAS Review Checklist](#) located on the RC Portal.
 1. In general, **at least four weeks** is required by RC West and the WECC RASRS for review and approval.

Note: This approval is needed before Real-Time Contingency Analysis (RTCA) RAS modelling can commence.
- **FNM ICCP submission and RAS Modelling:**
 1. Submit FNM modelling information for ICCP changes in accordance with RC West model submission requirements and timelines. Refer to [Modeling Changes User Guide for RC West Customers](#) and [Modelling Submission Checklist](#) located on the RC Portal.
 - a. In general, RC West requires **ICCP RAS** submission **approximately three months** before the planned in-service date for the new RAS. Refer to the detailed FNM schedule located on the RC Portal > Western Interconnection Model Library.

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2. In parallel with ICCP model submission, coordinate with RC West Operations Planning North (Ops-Planning-North@caiso.com) or South team (Ops-Planning-South@caiso.com) to ensure:

- a. RC West RTCA RAS modelling and validation are completed.
- b. RC West Situational Awareness RAS displays are updated or developed.

Note: RC West may be able to process urgent ICCP submissions via “model change requests” (MCRs) between model deployments, on a case-by-case basis. Coordinate with RC West Modelling team by submitting a CIDI ticket (include “ICCP” in the subject line and/or select “WDSP/ICCP” as the Category); along with the RIMS submission, to request urgent ICCP changes via MCR. A placeholder for the ICCP must be created during the normal DB process for ICCP to be deployed via MCR. This process only works if the ICCP need had been previously identified, but the ICCP point was not yet ready.

- Although urgent ICCP requests may be processed outside DB builds, depending on the complexity of the RAS, Operations Planning may require **up to 8 weeks** for RTCA RAS modelling and developing RAS displays.

□ **RAS In-Service Date Tracking OMS Card:**

1. Submit **an** OMS Outage Card indicating planned RAS in-service date in accordance with [RC West Outage Coordination Process \(RC0630\)](#).

- a. Ensure that the “**New Equipment Energized**” **flag** is checked in the OMS card.
- b. In general, RC West requires outage submission **seven to fourteen days** prior to planned energization of new RAS, per the RC short-range outage study window.

- **Request Final Approval to Energize:** Contact the Real-time RC Desk to request RC Operator approval on the day of RAS energization.

2. RC **West** Responsibilities

As part of the nightly outage review, the RC Operator will review outages in the Outage Management System (OMS) and will identify planned energization of new transmission equipment or RAS.

When the RC Operator identifies, or is notified of, planned energization of new BES transmission equipment or RAS, the RC Operator will verify the following (as applicable), prior to issuing approval to proceed with energization:

1. OMS Outage Card: Verify there is an **approved** OMS outage card tracking the planned energization, and switch modelling for new equipment.
2. Modelling: Verify new equipment is modelled in **the Emergency Management System (EMS)** and RTCA.
 - a. Validate equipment ratings with TOP and ensure they are populated correctly to RC West applications.

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- EMS Station Diagram: Verify station diagram in EMS is accurate.

Note: If station diagram or overviews need update, but modelling and ICCP is confirmed to be accurate, the RC Operator may allow the equipment to be put in service, however the RC Operator should submit a Service Desk incident ticket.

- ICCP: Verify ICCP data is available and working in EMS for the new equipment (MW, Mvar, switch/breaker status points, etc.).

Note: BES equipment will not be approved by the RC Operator for energization if there is no ICCP, without an Operating Plan approved by RC West.

- RAS ICCP: Verify the status of new RAS can be monitored either in EMS or PI.

Note: "Not Limited Impact RAS" or "Limited Impact RAS" that impact BES >200 kV or >500 MW of Generation will not be approved by the RC Operator for energization if there is no ICCP, without an Operating Plan approved by RC West.

- Contingency Definition: Request RMOE to verify contingency definition in RTCA.
- RAS Definition: Request RMOE to confirm RAS modelling in RTCA, for new RAS.
- RAS Database: For new RAS, confirm the RC Portal RAS database has been updated and related TOP RAS documents are available.
- Request RMOE assessment to determine if there are any reliability issues with energizing the new equipment or RAS.

If new transmission equipment or RAS is put in service without proper RC West coordination and the above requirements are not met, the RC Operator will:

- Determine the reliability impacts of removing the transmission equipment or RAS from service.
- Issue an Operating Instruction to the TOP to remove the transmission equipment or RAS from service, if this will not result in loss of load, potential for System Operating Limit (SOL) exceedance, insecure state, or other reliability impacts.
 - RC Operator will coordinate with TOP to ensure that any SOLs or reliability impacts from removing the RAS or equipment from service are mitigated, in accordance with RC West SOL and Interconnection Reliability Operating Limit (IROL) mitigation procedure (RC0310).
- Notify RC West management so coordination with TOP and can be facilitated in a timely manner to resolve reliability data deficiencies with the addition of the BES equipment or RAS.
 - If RC West management decides to allow the BES equipment or RAS to remain in service with data deficiencies, an RC operating memo will be issued to document the operating plan.

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3. Supporting Information

Operationally Affected Parties

CAISO Public

Version History

Version	Change	Date
1.0	New procedure attachment created and issued.	6/01/25
2.0	Major revision to clarify TOP responsibilities to ensure RC data requirements are met for new BES equipment or RAS. Clarified RC West responsibilities to ensure data requirements are met, or to coordinate with TOP to develop operating plan if RC data requirements are not met. Defined various terms throughout, minor formatting and grammar edits.	11/01/26

4. Periodic Review Procedure

Review Criteria & Incorporation of Changes

There are no specific review criteria identified for this document.

Frequency

Review at least once every three years.

Appendix

Appendix 1: TOP Checklist – New BES Equipment Energization

Appendix 2: TOP Checklist – New RAS Implementation

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Appendix 1: TOP Checklist – New BES Equipment Energization

#	Requirement	Due Date / Timeframe	Complete
1	Submit FNM modeling package for new BES equipment	~3 months prior to planned energization date	☐
2	Submit contingency definitions with model package	~3 months prior to planned energization date	☐
3	Submit ICCP modeling changes	~3 months prior to planned energization date	☐
4	Submit RIMS OMS outage card to support model topology updates	Prior to the week of database model promotion	☐
5	Submit Energization Date Tracking OMS outage card, with "New Equipment Energized" flag selected	7 to 14 days prior to planned energization	☐
6	Validate model deployment in RC Portal after model promotion	Following model deployment and before energization	☐
7	Verify ICCP object IDs are correctly deployed in RC Portal	Following model deployment and before energization	☐
8	Provide RC West read access to all new/modified ICCP points	Prior to energization request	☐
9	If ICCP will not be available, coordinate with appropriate RC West team to develop Operating Plan	As early as possible prior to energization	☐
10	Contact Real-Time RC Desk for final approval	Day of first energization	☐
11	Receive RC Operator approval before energizing equipment	Prior to energization	☐

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Appendix 2: TOP Checklist – New RAS Implementation

#	Requirement	Due Date / Timeframe	Complete
1	Submit RAS documentation package per RC0690A checklist (1 month review period)	Minimum 4 months prior to RAS in-service date	
2	Respond to RC West or WECC RASRS comments/questions	During review period	☐
3	Submit ICCP modeling changes for RAS monitoring per FNM requirements	~3 months prior to RAS in-service date	☐
4	Submit FNM model changes required for RAS implementation	~3 months prior to RAS in-service date	☐
5	Coordinate with RC West Operations Planning (North or South) on RTCA RAS modeling and Situational Awareness displays	~3 months prior to RAS in-service date	☐
6	Submit OMS outage card tracking planned RAS in-service date, with New Equipment Energized" flag selected.	7 to 14 days prior to implementation	☐
7	Verify ICCP object IDs are correctly deployed in RC Portal	Following model deployment and before in-service date	☐
8	Confirm RC West has read access to RAS status telemetry	Prior to implementation	☐
9	Contact Real-Time RC Desk for final approval	Day of RAS implementation	☐
10	Receive RC Operator approval before placing RAS in service	Prior to implementation	☐