



Resource Adequacy Modeling and Program Design: Business Requirements Specification-RAMPD- Track 3a

10/23/2026 05:04:29 PM UTC
Document Version: 1.0

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Document Purpose

The purpose of this document is to capture and record a description of what the Users and Business Stakeholders of the project wish to obtain, by providing high requirements to capture business needs, important functions, validations, and additional planning relevant information that are key inputs for the subsequent project design phase. This document establishes the basis for the agreement between the initiators and implementers of the project. The information in this document serves as input to determine the scope of projects and all Business Process Modeling efforts. Business requirements are what must be delivered to provide value for the Users and Business Stakeholders. Functions, systems, software, and processes are the ways (how) to deliver, satisfy, or meet the business requirements (what).

Project Information

Scope

Annual and monthly reporting requirements for all RA-eligible capacity in the CAISO BAA that is not shown as Resource Adequacy (RA)

- SCs' submission of RA-eligible capacity in five categories of capacity status annual and monthly
- make available to stakeholders an aggregated version of the information collected through the recommended reporting requirements
- eliminating the monthly Section 43A.6.3 Report of Non-Resource Adequacy Capacity

Project Assumptions and Constraints

- This initiative is for improving visibility into resources available for procurement through the ISO's backstop measures only
- No new must-offer obligations or availability requirements on reported resources

<RAMPD-Track3a: Resource Visibility >

<RAMPD-Track3a> BRQs

RAMPD-BRQ-55 Access Master File RA-Eligible Resources, Capacity, Characteristics, and Constraints based on the annual NQC List for the RA year

Access and obtain the RA-Eligible resources type, capacity, operation characteristics include ramp rate and operation constraints, for all the resource listed in the annual and monthly NQC reports that identify the net qualifying capacity of listed resources for the next RA compliance year and month, across reference in NQC list in CIRA.

Requirement Type	Existing
Application(s)	CIRA

RAMPD-BRQ-72 Build a data template for the RA-eligible Resources no-RA capacity

- CAISO shall provide a RA-eligible but non-RA resource submission template, in a similar format to the Resource Adequacy Supply Plan template, including Capacity MW, and category with 5 valid options,
 - Resource ID
 - Non-RA capacity (MW=NQC-RA)
 - Effective Start date/end date
 - May be multiple start/end dates for a given month
 - New functionality-Non-RA Category (5): 1. Sold outside CAISO 2. Not shown due to being reserved for substitution 3. Not shown due to potential unavailability 4. Contract to a CAISO BAA LSE, but not shown 5. Not contracted
- Post a data template in the same place as RA/Supply plans
- Potentially update the Resource Adequacy Supply Plan template, including a new template

Requirement Type	Core
Application(s)	CIRA

RAMPD-BRQ-111 Resource SC Submit non-RA resource data using Non-RA resource Template in Annual process

Resource SC Submit/upload non-RA resource data to the best of their knowledge:

- Using Non-RA resource Template, defined in BRQ-72
- Following the timeline of the annual RA Plan, prior to the last business day of October for the annual process
- Potentially uploading as RA supply plan
- Every active resource on the NQC list with NQC>0, regardless of RA contracted status, must be included in a template submission

Requirement Type	Core
Application(s)	CIRA

RAMPD-BRQ-107 Resource SC Submit non-RA resource data using Non-RA resource Template in monthly process in CIRA

Resource SC Submit/upload non-RA resource data to the best of their knowledge:

- Using Non-RA resource Template, defined in BRQ-72
- Following timeline of the monthly RA Plan, all plans are due by T-45 for the corresponding compliance month
- Uploading as RA supply plan
- Non-RA categories may be defined the same or differently for each day of the month
- Every active resource on the NQC list with NQC>0, regardless of RA contracted status, must be included in a template submission

Requirement Type	Core
Application(s)	CIRA

RAMPD-BRQ-108 Apply validation rules for non-RA resource capacity in CIRA

Validation rule for non-RA resource:

- Resource ID is a Resource on the MF-defined NQC list
- Submissions must include all of the SC's active Resource IDs on the NQC list with NQC>0
- Valid start-end date
- The category is a valid one of five
- For each resource: RA and non-RA must equal to NQC
- For each resource and each day: Non-RA must equal the sum of all five categories

Requirement Type	Core
Application(s)	CIRA

RAMPD-BRQ-112 Resource SC provide a good-faith submission, allow differences between annual and monthly submission in CIRA

The information provided in the report must represent a good-faith submission of the Scheduling Coordinator's intentions at the time it submits the report.

- Scheduling Coordinators are not required to update the report based on changes in the resource status following submission.
- Allow the month-ahead submission be different from year-ahead submission, reflect the most updated information

Requirement Type	Process
Application(s)	CIRA

RAMPD-BRQ-119 Broadcast the total non-RA capacity by category in CIRA

The system shall broadcast total non-RA capacity by category for each day, aggregated across all resources

- For annual and ad-hoc/as needed: support manual publish
- For monthly: automated broadcast around T-28, after latest Cross Validation (CV)

Requirement Type	Core
Application(s)	CIRA

RAMPD-BRQ-120 Consume total non-RA Capacity by Category

The system shall consume total non-RA capacity by category for each day, aggregated across all resources

Requirement Type	Core
Application(s)	OASIS

RAMPD-BRQ-113 OASIS report the total non-RA capacity by category

OASIS report the total non-RA capacity by category, by day, aggregated for all resources (do not display any Resource or SC specific data)

- Under Resource Adequacy tab
- Display the aggregate daily total non-RA capacity by category
- Display annual and monthly data separately (provide a filter to switch between annual and monthly data)
- Provide download Excel file capability

Requirement Type	Core
Application(s)	OASIS

RAMPD-BRQ-118 Rules of Conduct (ROC) penalty apply to late non-RA capacity submission by SC

Expand the existing late RA supply plan Rules of Conduct (ROC) penalty to include late and missing non-RA capacity submission by SC

- The RAOE user shall report the late non-RA capacity submission by SC, according to the RA supply plan timeline
- The RAOE user shall report the missing non-RA capacity submission by SC, according to the RA supply plan timeline
- Update late/missing plan report to include missing supply plans (new ROC penalty category)
- The RAOE user shall calculate Rules of Conduct (ROC) penalty for the late non-RA capacity submission by SC as a PTB, per existing process (no change to penalty amount and timing)
- The RAOE user shall send the PTB for ROC penalty to Settlement, per existing process
- The Settlement shall include the PTB for ROC penalty in the settlement invoice for the SC, per existing process

Requirement Type	Core
Application(s)	CIRA

Appendix-A – Acronym Definition

Acronym	Definition
BAA	Balancing Authority Area
BRQ	Business Requirement
CAISO	California Independent System Operator
CIRA	Customer Interface for Resource Adequacy
NQC	Net Qualifying Capacity
OASIS	Open Access Same Time Information System

Acronym	Definition
PTB	Pass Through Bill
QC	QC (Qualifying Capacity)
RA	Resource Adequacy
RAOE	Resource Adequacy Operation Engineer
ROC	Rules of Conduct
SC	Scheduling Coordinator
T	Trading Day