

Pre Market-Simulation Training: Customer Interface for Resource Adequacy (CIRA) Technology Upgrade

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Today's Agenda



- **Understand the Upgrade**
  - Why, what's new, what changes from ISO initiatives appear in CIRA
- **Get Oriented**
  - Navigation, high-level review of changes
- **Explore the Changes**
  - Plans, reports substitutions
- **Wrap Up**
  - Access & roles, resources, preparing for market simulation

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Why CIRA Is Being Upgraded

1

End-of-life technology

CIRA moves off technology that is reaching end of life

2

Modern interface

New screens and navigation

3

Foundation for RA redesign

Sets up the platform for RAMPD Tracks 1 and 3A changes, implemented alongside the upgrade

A technology upgrade delivered along with Resource Adequacy Modeling and Program Design (RAMPD) changes

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Your Guides to the New CIRA

1 Updated user guide

- Updated with new CIRA screens and associated changes
- Your go-to reference after this session

2 CIRA crosswalk

- Compares the existing menu structure with the new one, side by side
- Find where a familiar function now lives

Use the crosswalk for menu changes: we won't walk through each one today

Both documents will be available on the Training Center under Releases, Initiatives, and Readiness Notes

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What's Not Changing vs. What's New

Not changing

- Business rules (other than RAMPD changes)
- Tariff processes
- Historical plans, NQC requests and validation results stay viewable
- Existing APIs work as is

What's new

- New CIRA URL: https://ciraapp.caiso.com
  (this interim URL will be activated at go-live)
- New navigation and screen layout
- Consolidated external roles for access
- Improvements in plans, reports and substitution workflows
- RAMPD Track 1 – Default NQC Report
- RAMPD Track 3a – Non-RA Capacity visibility (updated Supply plan template)

Largest enhancements: New Supply Plan Template, Substitution Functionality Redone

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CIRA APIs

Existing APIs

- Work as they do today
- No changes to existing APIs

API-ready

- The new CIRA is built to support APIs
- The intent is to expand API capability later; timing is to be determined

Specifications

- Technical specifications for the existing APIs are on the ISO's developer page

Your existing API connections continue to work as is

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What's New at a Glance

WHAT CHANGED

Substitutions

Fully redone Substitutions functionality.

NEW: Substitution Report added to the Substitutions menu.

NEW

Supply Plans

New Supply Plan Template (RAMPD Track 3A).
Missing Supply Plans have been added. (Existing CIRA only has Late plans)

NEW

NQC

New Default NQC Report (RAMPD Track 1).

NEW

Dark Mode

Use the crescent moon icon to activate the new dark mode feature.

WHAT CHANGED

Plans by activity

Obligations and Credits include Generic and Flex; RA and Supply Plans include Manage and Late Plan; EFC Data is now labeled EFC.

WHAT CHANGED

RA & Supply Plan Screens

One screen for all RA types (no dropdown). Upload/download now on each Manage screen.

WHAT CHANGED

Labels

Approve/Reject NQC is now Manage NQC Requests; View/Submit CSP Offer Set is now CSP Offers Set.

WHAT CHANGED

EDAM/DAME

LSE Resource Pair True-Up Flag now visible to Suppliers and LSEs

WHAT CHANGED

Access and roles

Legacy role consolidation, new roles introduced, end-user migration

WHERE IT MOVED

Import Allocation

Import Capability RA Report is now under Plans > Import Allocation.

WHERE IT MOVED

Templates

One shared location: Plans > Templates.

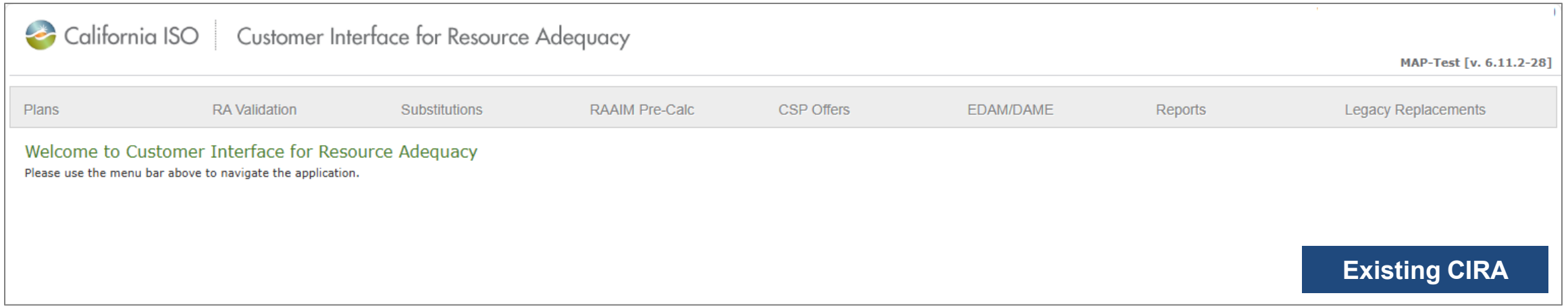
NO LONGER IN CIRA

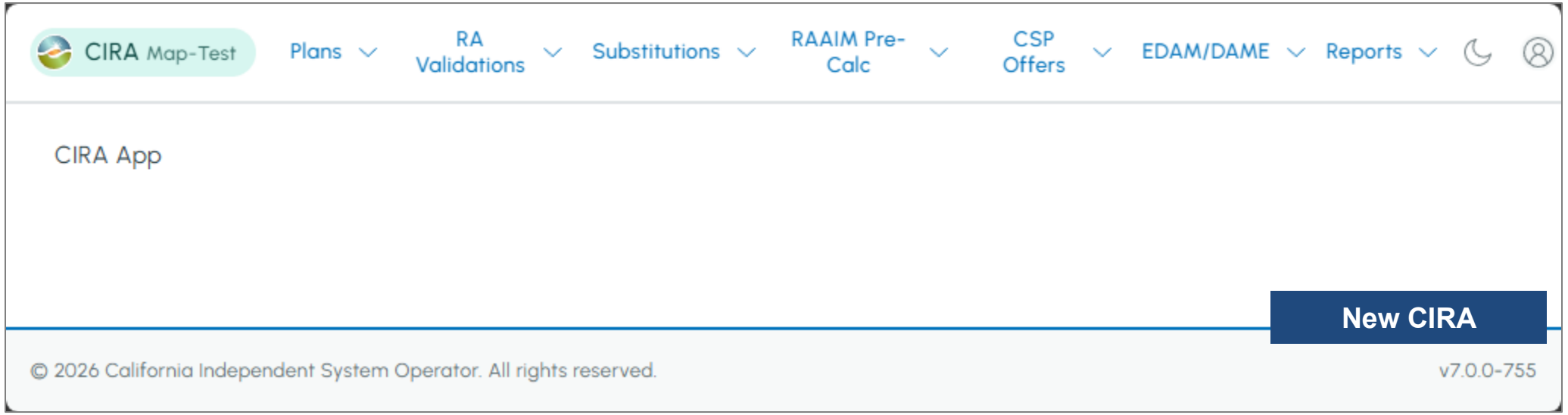
De-scoped items

Legacy Replacements menu removed. Other menus consolidated or re-organized. Refer to Crosswalk.

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Top-level Menu Options (Existing vs. New)





Note: The Substitutions and RAAIM Pre-Calc menus are only visible to Suppliers.

RA Plans (LSE SCs)
(No change to process)

1 Upload

- Choose Submittal Type (Month Ahead or Year Ahead), Target Period and SCID
- Add comments
- Upload only for your own SCID or LSE ID

2 Is exempt?

- RA Plans add an "Is exempt?" flag
- Automatic exemptions apply in certain cases, such as an obligation under 1 MW or an SC change between the showings and cure dates

3 Cure period

- Uploads between the showings due date and the cutoff are accepted with a warning
- Resubmit until the Cure Due Date
- Latest submission becomes the active record

4 Find your plans

- Filter by Version (Latest, Initial, All)
- Filter Submitted vs. Missing/Late
- Status column is removed. Check cross validation (CV) output for generic/flex to determine if further update is needed.

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Supply Plans, NQC and EFC (Supplier SCs)

Supply Plans

- New Supply Plan Template
- Missing plans now shown

NQC

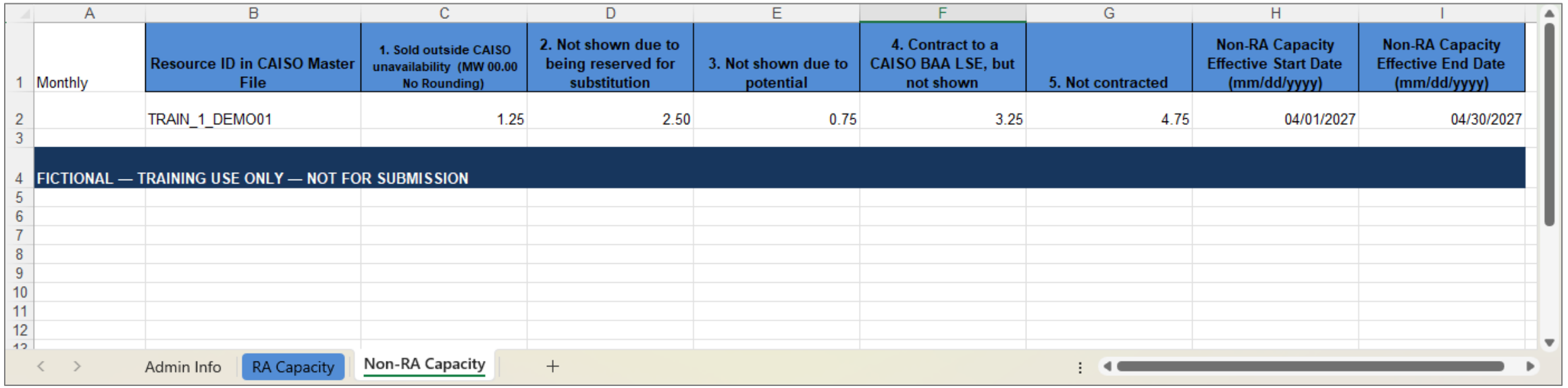
- New Default NQC Report

EFC

- External users can view and download EFC data
- Filter by year only; data is shown monthly

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New worksheet titled Non-RA Capacity added to Supply Plan template as part of RAMPD Track 3A



	A	B	C	D	E	F	G	H	I
1	Monthly	Resource ID in CAISO Master File	1. Sold outside CAISO unavailability (MW 00.00 No Rounding)	2. Not shown due to being reserved for substitution	3. Not shown due to potential	4. Contract to a CAISO BAA LSE, but not shown	5. Not contracted	Non-RA Capacity Effective Start Date (mm/dd/yyyy)	Non-RA Capacity Effective End Date (mm/dd/yyyy)
2		TRAIN_1_DEMO01	1.25	2.50	0.75	3.25	4.75	04/01/2027	04/30/2027
3									
4	FICTIONAL — TRAINING USE ONLY — NOT FOR SUBMISSION								
5									
6									
7									
8									
9									
10									
11									
12									

Admin Info | RA Capacity | Non-RA Capacity

Note: Today's session focuses on the CIRA application changes. We'll share more comprehensive details about RAMPD Track 1 and Track 3A separately, before market simulation begins, as part of the RAMPD effort. A sample of the updated Supply Plan template will also be included with the training presentation and recording for your reference.

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Late and Missing Plans: What's New

Status quo: no change

- **Late and missing RA plans:** no change to how they are tracked
- **Late supply plans:** the only supply plan status tracked today
- **Report:** LSE SC and Supplier SC users view and export the status of their own plans

What's new: missing supply plans

CIRA will now identify missing supply plans, not just late ones.

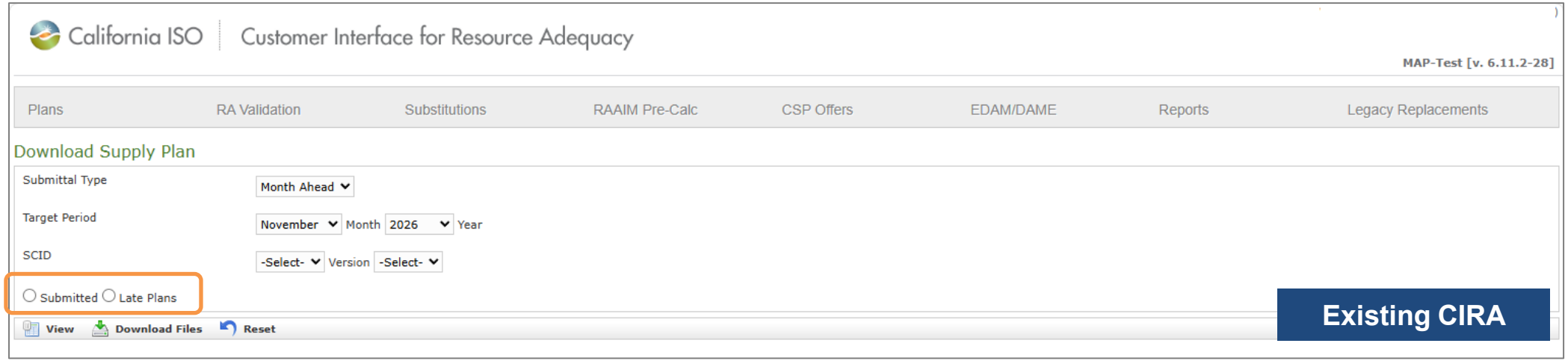
Introduced as part of RAMPD Track 3A.

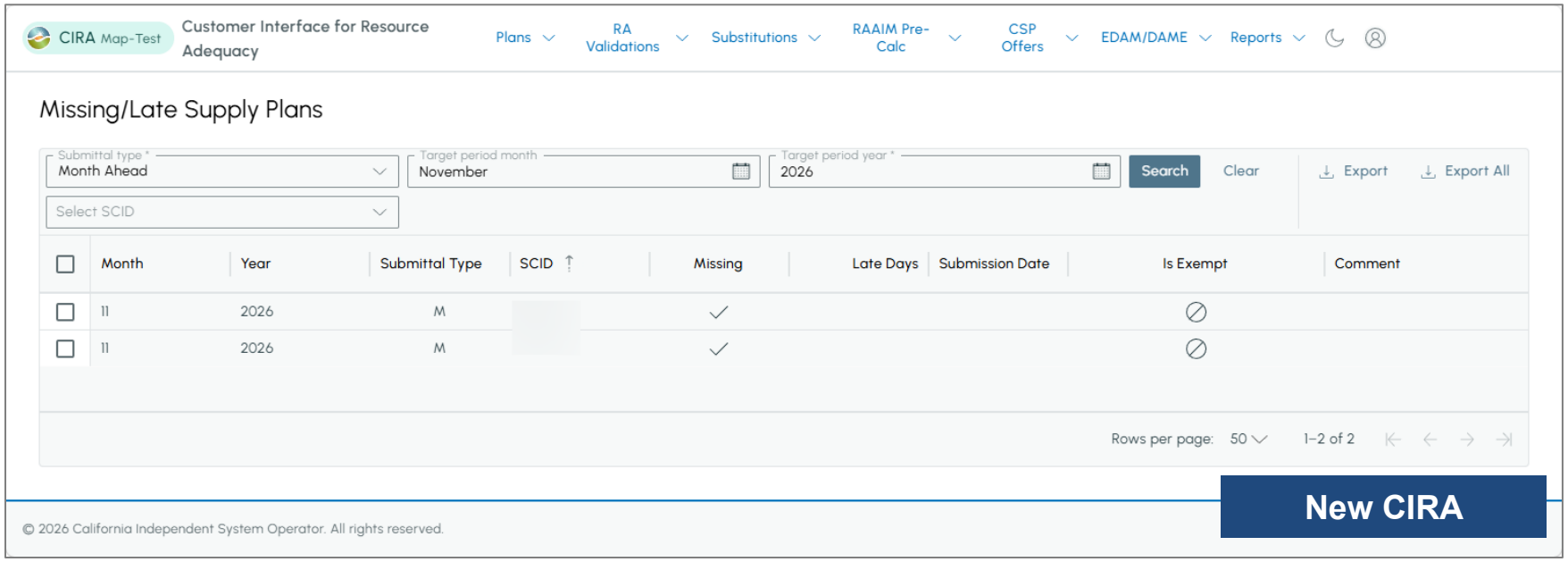
Days Late: calculated from the first (v1) upload only. The calculation is the same as today.

Exemptions for RA plans: apply in certain cases, such as an obligation under 1 MW or an SC change between the showings and cure dates

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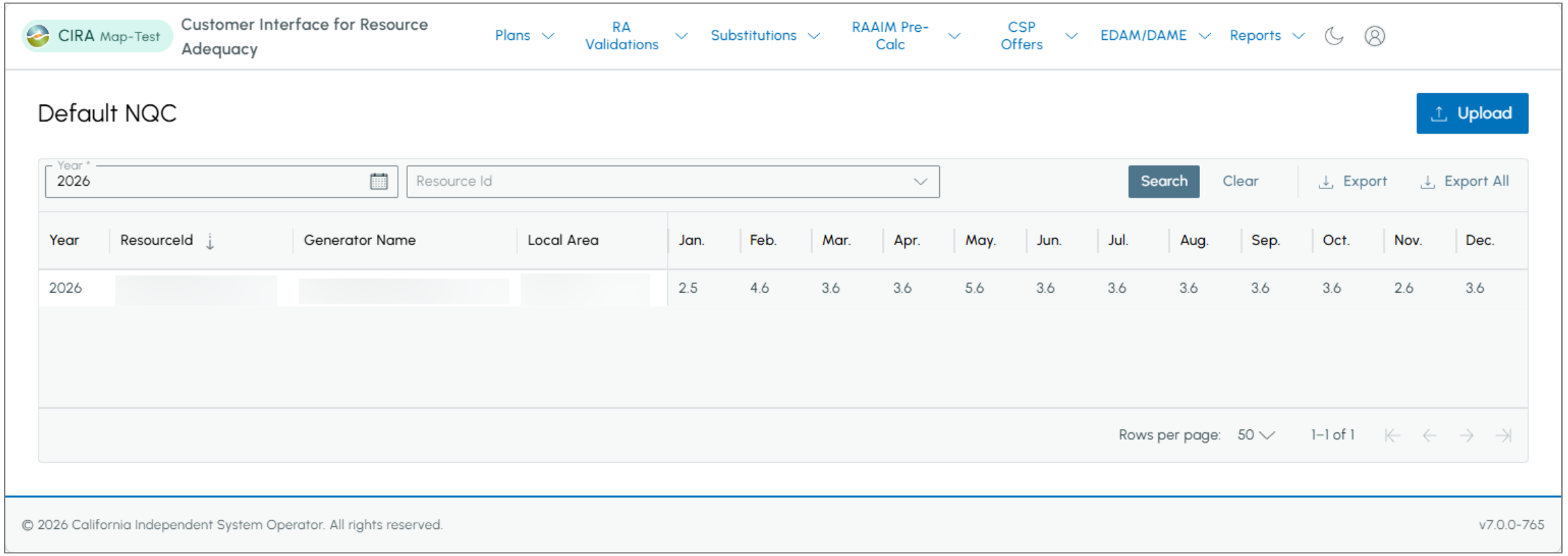
Late and Missing Supply Plans



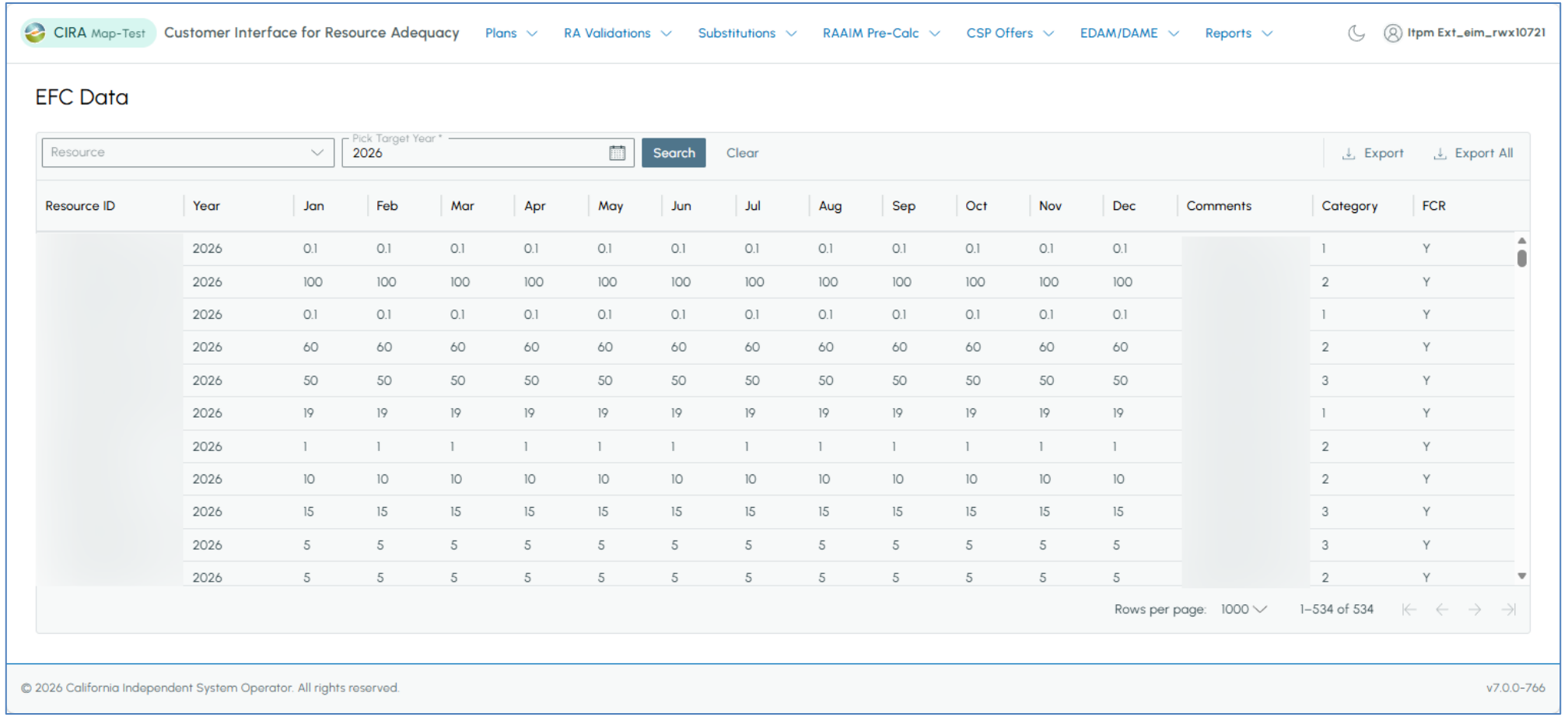


Note: Missing supply plans are now visible in CIRA.

Default NQC Report (New)
Navigation: Plans > NQC > Default NQC

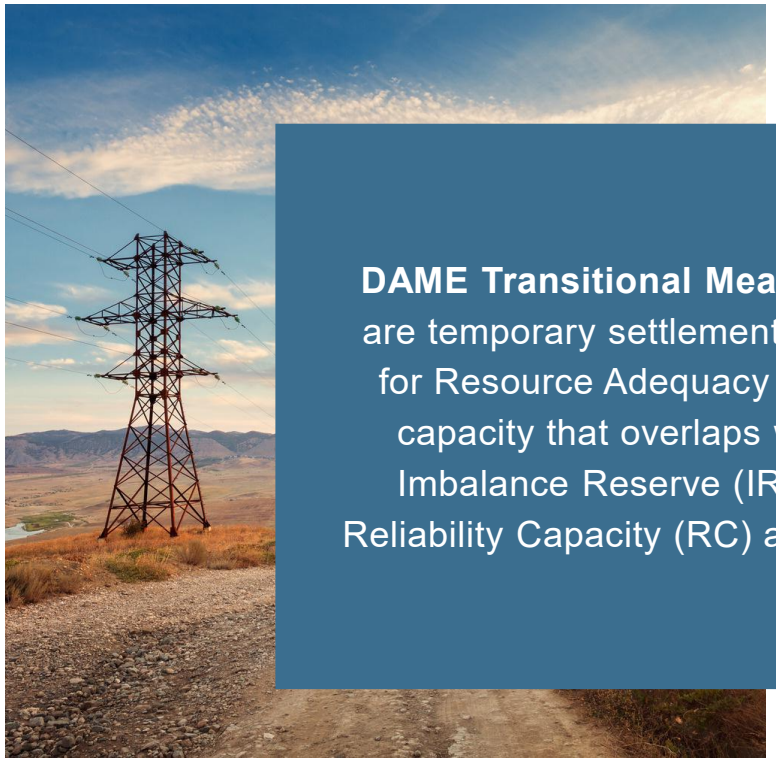


EFC Data available in CIRA
Navigation: Plans > EFC



DAME Transitional Measures Overview

Links to the full training on this topic are included in the Reference Material



DAME Transitional Measures are temporary settlement rules for Resource Adequacy (RA) capacity that overlaps with Imbalance Reserve (IR) or Reliability Capacity (RC) awards.

Identifies

Generic RA and Flexible RA capacity that overlaps with IR/RC awards

Calculates

The overlap for each applicable settlement interval

Applies

Specific settlement treatment when both parties opt in

Provides

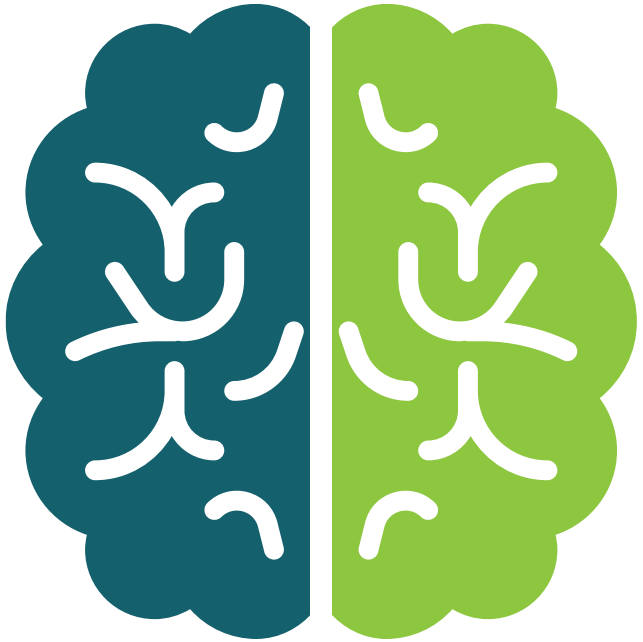
Informational reporting when the parties do not mutually opt in

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Who is Impacted?

Resource Scheduling Coordinator (SC)

The SC representing the resource shown on the monthly Supply Plan



Load Serving Entity (LSE) SC

The SC representing the LSE that claims the same resource on its RA Plan

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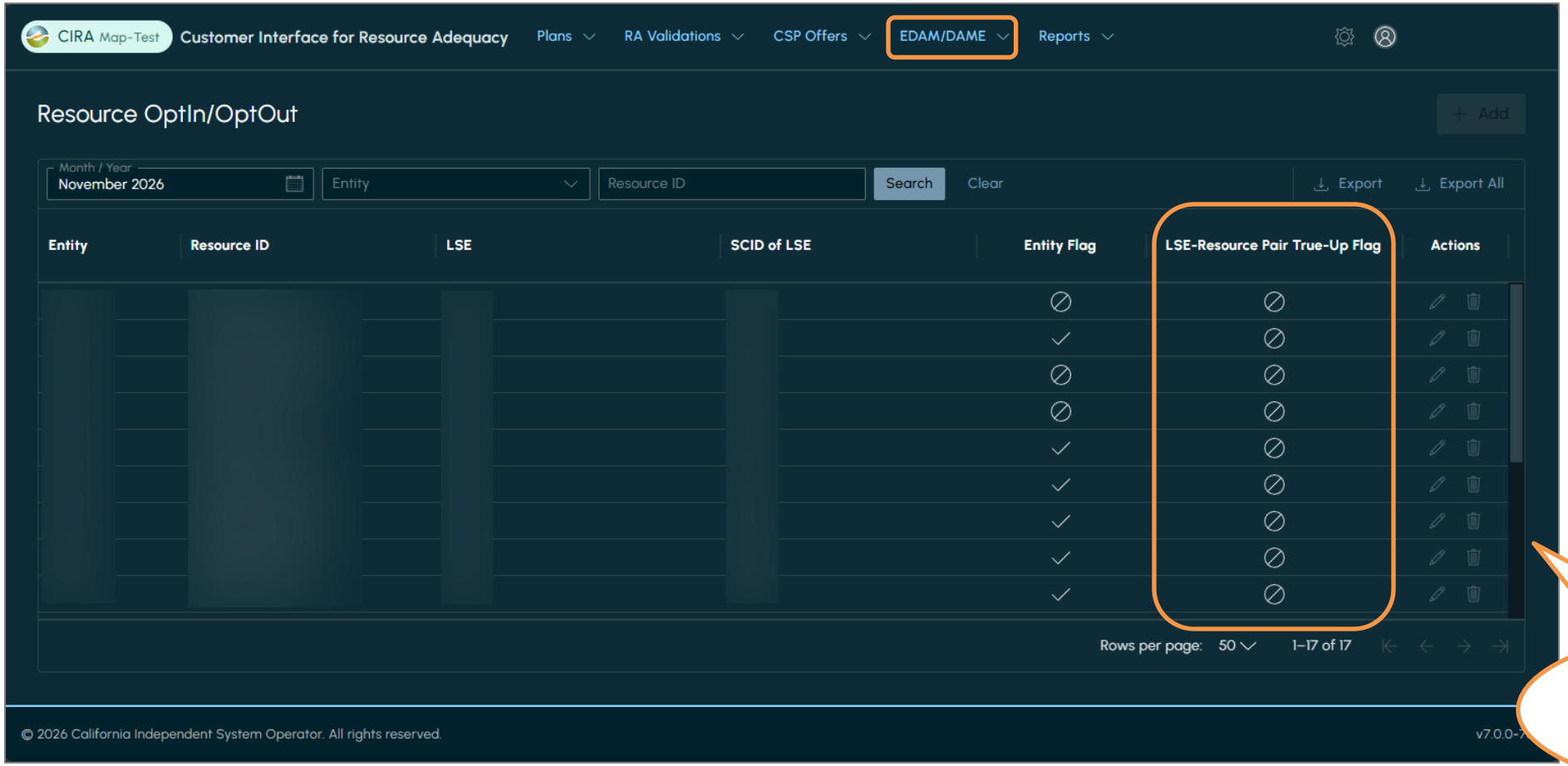
Participation is Voluntary

Resource SC	LSE SC	Result
Opt-in	Opt-in	**Mutual opt-in**
Opt-in	No election/ Opt-out	**Opt-out**
No election/ Opt-out	Opt-in	**Opt-out**
No election/ Opt-out	No election/ Opt-out	**Opt-out**

Please note timing: Elections may be submitted on or before T-30 of the applicable RA month and will take effect for the selected RA month and all subsequent RA months until modified.

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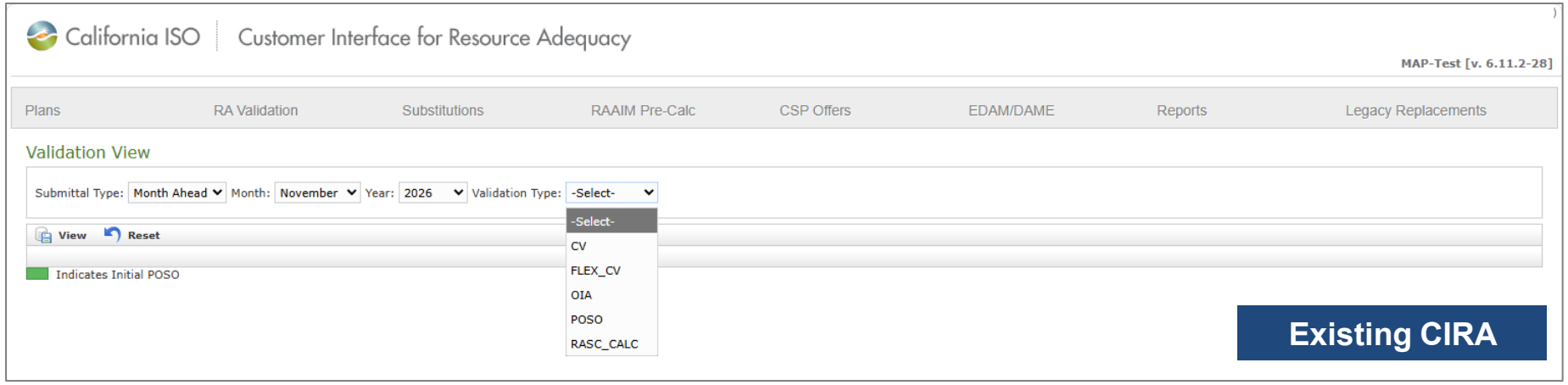
New LSE Resource Pair True-Up Flag column added
Navigation: EDAM/DAME > Resource OptIn/OptOut

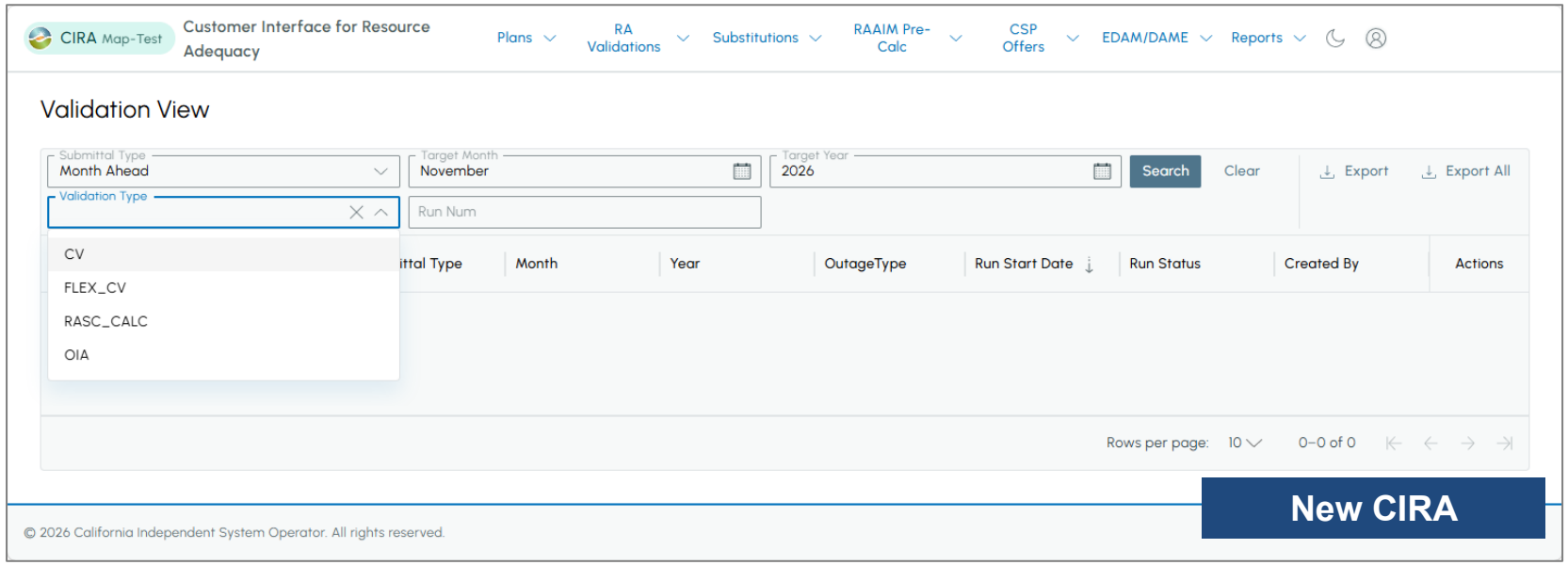


Note: Customers asked for visibility into the OptIn/OptOut status of both parties. This column provide that transparency.

Here's an example of CIRA in Dark Mode!

RA Validations > View Results: Validation Type

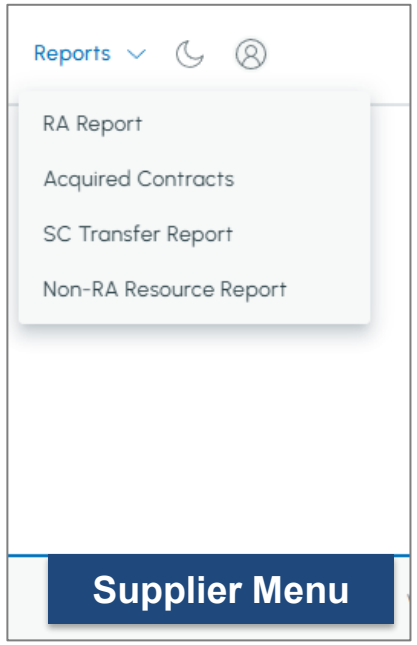


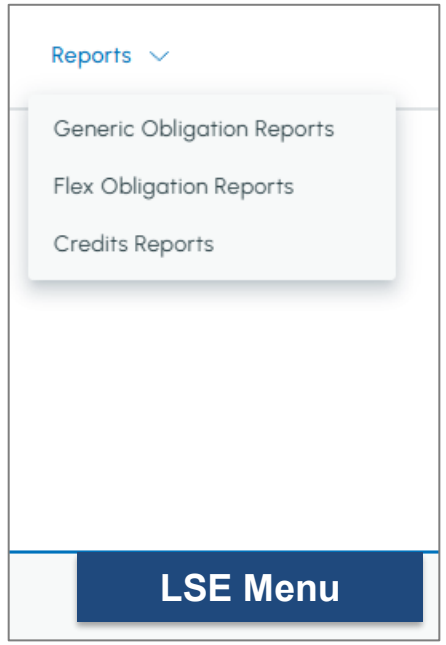


Note: POSO was replaced by the RASC calculation and has been removed from the list of validation types.

Reports Menu: Who Sees What

Reports menu	Audience
Generic Obligation Reports	LSE, LRA
Flex Obligation Reports	LSE, LRA
RA Report	Supplier, CPUC
Credits Reports	LSE, CPUC
Acquired Contracts	Supplier
SC Transfer Report	Supplier
Non-RA Resource Report	Supplier





Also in CIRA: NQC Report under Plans > NQC; Import Capability RA Report under Plans > Import Allocation

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For Context: Import Allocation Process (no changes to process)

Steps 1 to 7: managed by the ISO outside CIRA

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7
Determine Maximum Import Capability (MIC)	Determine Available Import Capability	Existing Contract Import Capability	Pre-RA Import Commitments; New Use Import Commitments	Allocate remaining capability by Load Share Ratio	ISO posts assigned and unassigned capability	ISO notification of LSE assignments

Steps 8 to 13: completed in CIRA

Step 8	Step 9	Step 10	Step 11	Step 12	Step 13
Transfer (trade) import capability among LSEs or market participants	First SC requests to assign remaining import capability by intertie	ISO notifies SCs of assignments and posts unassigned capability	Second SC requests to assign remaining import capability by intertie	ISO notifies SCs of assignments and posts unassigned capability	Remaining requests: two per calendar week

Steps paraphrased for presentation. Refer to ISO Tariff Section 40.4.6.2.1, Available Import Capability Assignment Process for complete details.

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Import Allocation Process in CIRA is Unchanged
Import Capability RA Report Has Been Relocated

Step 8	Steps 9 and 11	Steps 10 and 12	Step 13
Submit and view transfers	First and second requests	View results	Unassigned capability requests (two per calendar week)

Emails

- Results notices after Steps 10 and 12
- Reminders 48 hours before Step 9, 11 and 13 deadlines

Trades and capacity

- Bilateral trades: submit, view, download
- Reserved import capability: enter the amount held back to show your tradeable amount

Contact Information

- Add contacts to the MIC drop-down
- Information is posted publicly to support bilateral trade

Find it in CIRA under Plans > Import Allocation

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Outages, RASC and Supplier Tools (Supplier SCs) (No changes to these processes)

OIA results and RASC

- OIA results: MW Impact by Outage and Operational RA, for your own resources
- Resource Adequacy Substitute Capacity (RASC) runs daily at 8 a.m. starting T-29; substitution is due by 8 a.m. the next trading day or the outage is flagged for denial

Also for Supplier SCs

- View compatible resources for real-time forced substitution
- Enter Price Taker (PT) Export curtailment
- Submit outage exemption requests

RAAIM

- SCs see published results for their own resources only

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Substitutions: Fully Redone

Planned and forced substitutions

- Create, update, approve or reject, cancel and release
- Email at each status change

Automatic handling

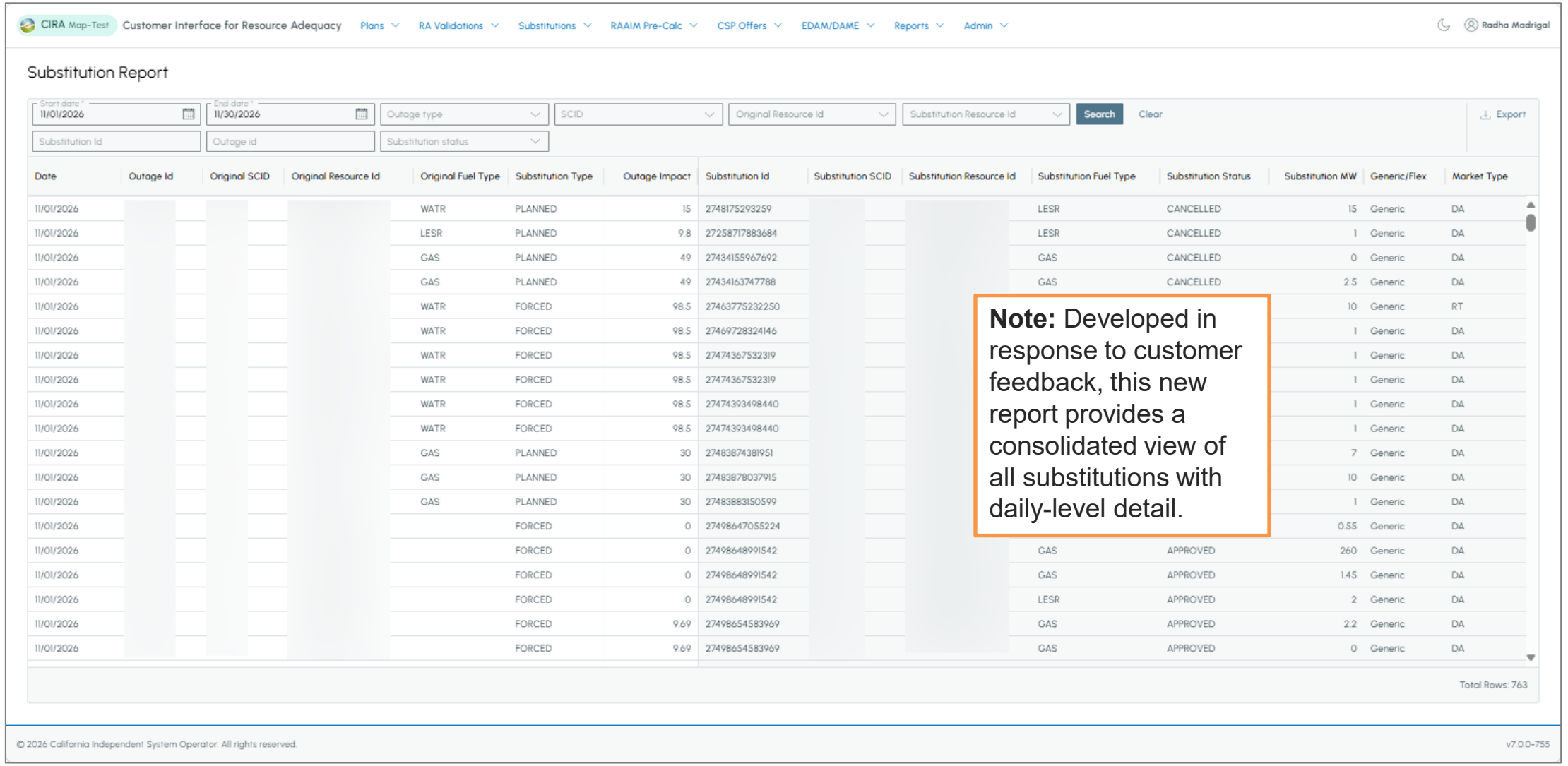
- Auto-approved when the same SC represents both resources
- Auto-rejected if a third-party SC doesn't approve before the cutoff

New Substitution Report

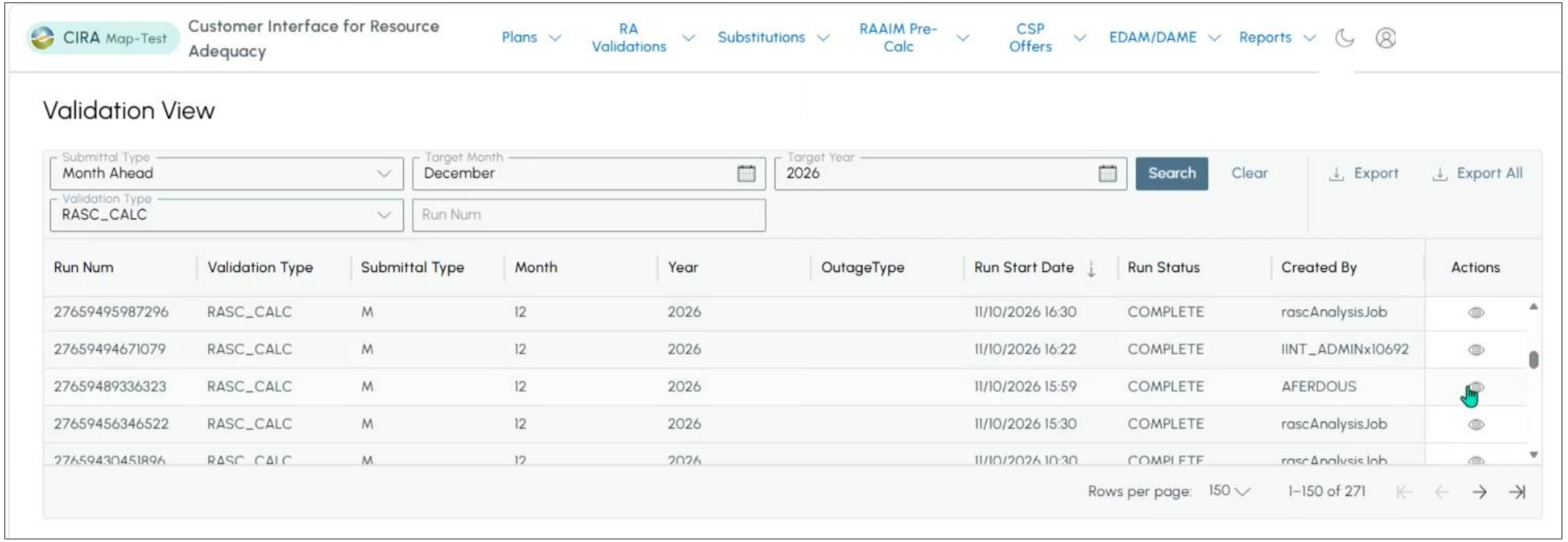
- View substitution data for any month
- Filter the report
- Export substitution data

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New Substitution Report (Navigation: Substitutions > Substitution Report)



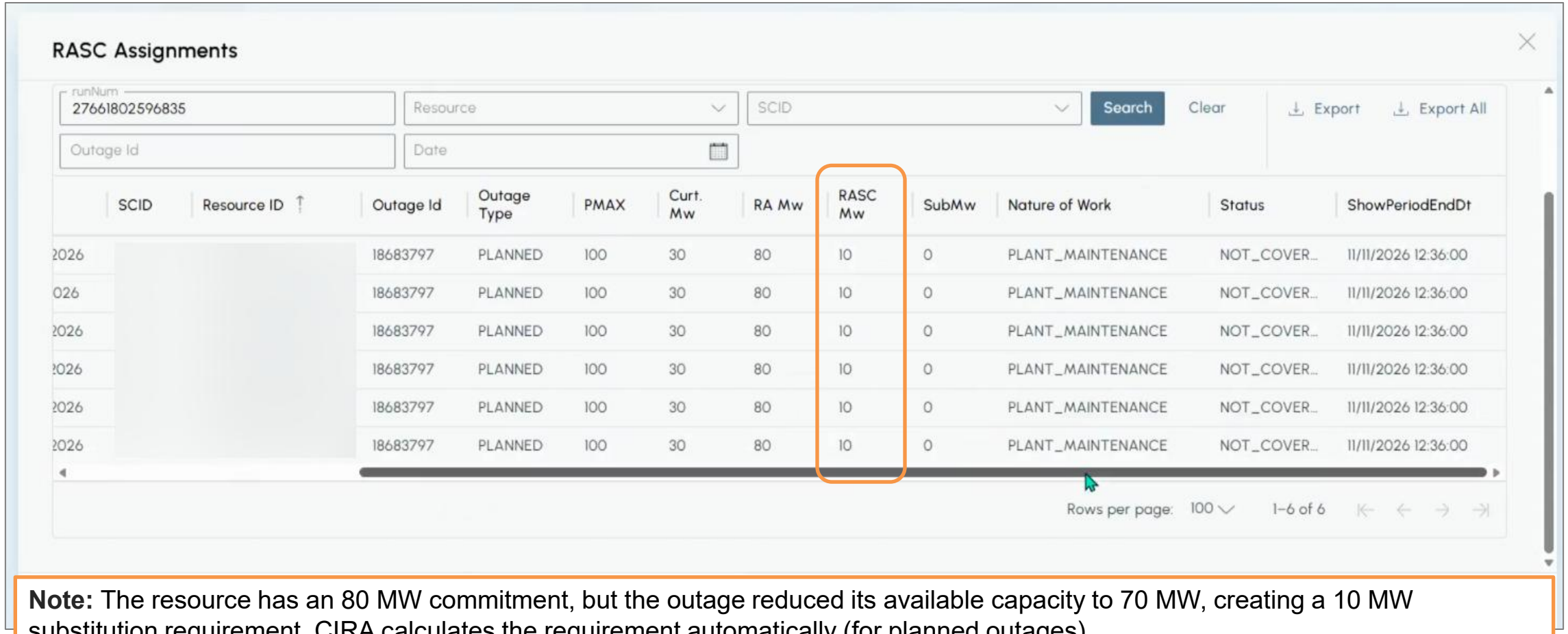
Review RASC results to determine if substitution is needed
Navigation: RA Validation > View Results



Note: Select the applicable month and RASC validation to view substitution requirements resulting from planned outages. Click on the action button (eye) to view the RASC result.

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Determine the amount of Resource Adequacy Substitute Capacity (RASC) needed



Note: The resource has an 80 MW commitment, but the outage reduced its available capacity to 70 MW, creating a 10 MW substitution requirement. CIRA calculates the requirement automatically (for planned outages).

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Workflow to Submit Substitution: Four Steps for Planned and Forced Outages

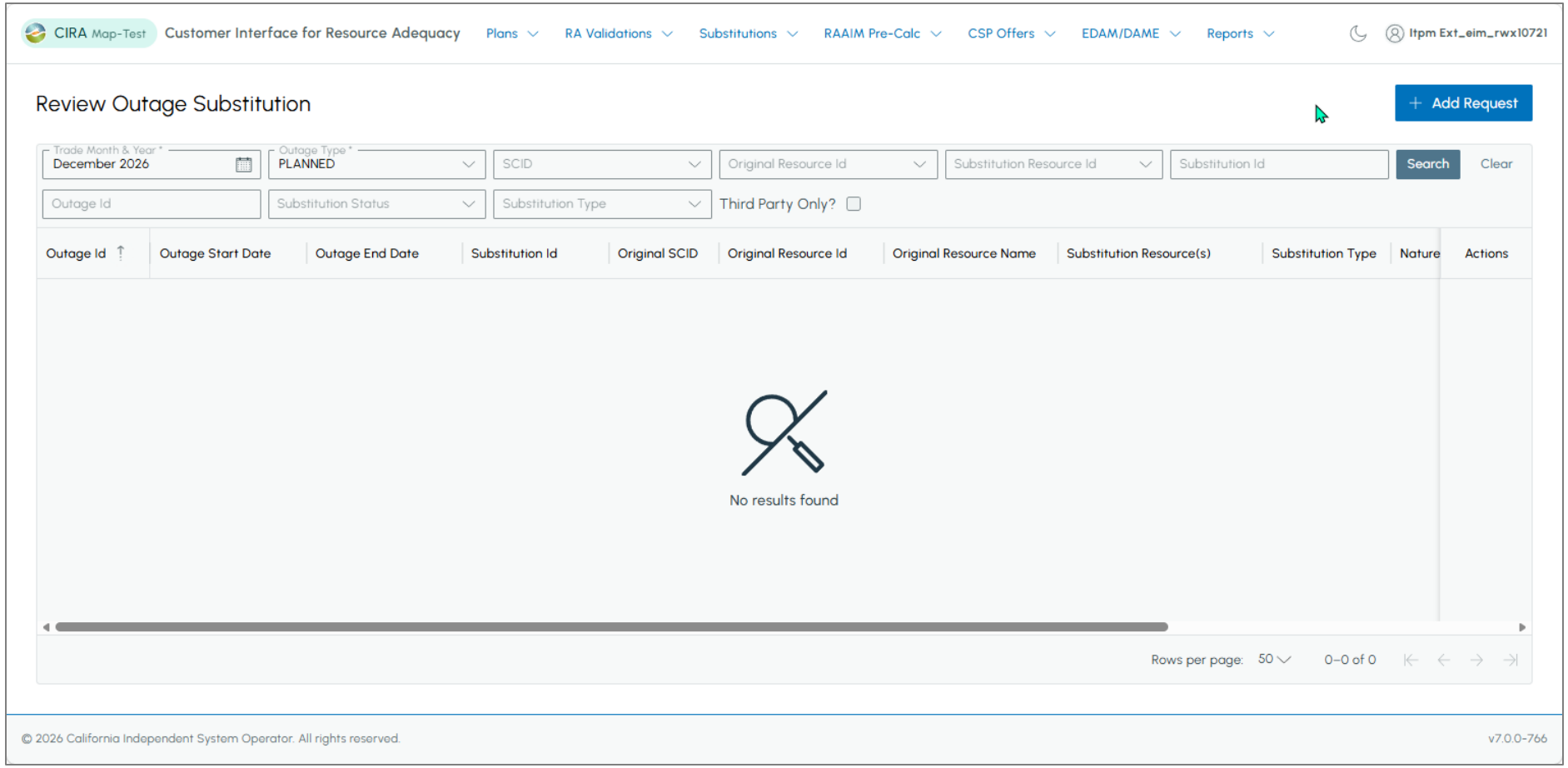
Step 1	Step 2	Step 3	Step 4
Select outage	**Select substitution resources**	**Enter substitution resource details**	**Finalize**

Existing CIRA
Much of the process occurs on one long screen
Planned and forced outages require different navigation

New CIRA
Manage Substitution workflow for both planned and forced outages
Shows your progress through the four steps

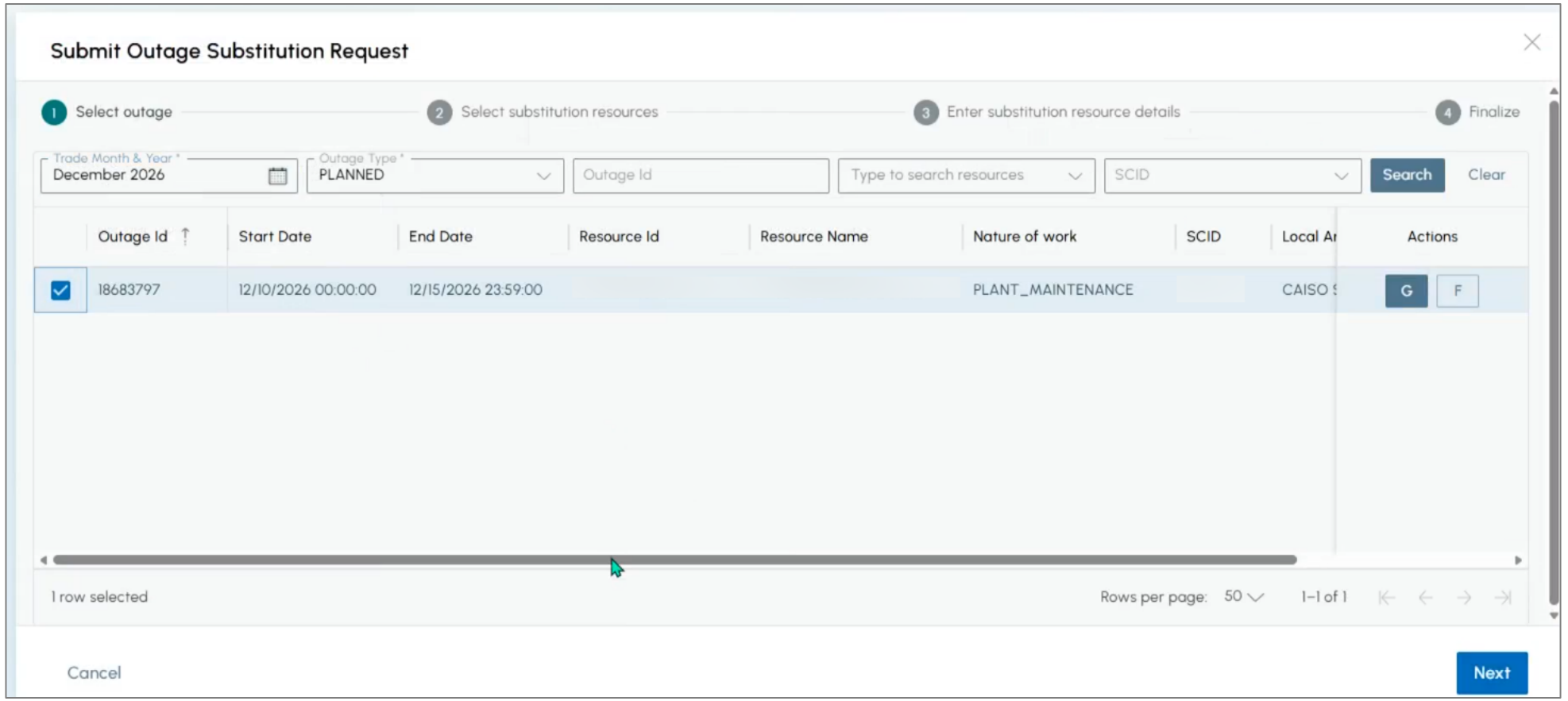
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Click Add Request button to begin process of creating substitution



Note: The substitution process is now streamlined in one location. Submit, approve, reject, release, or cancel substitutions from here.

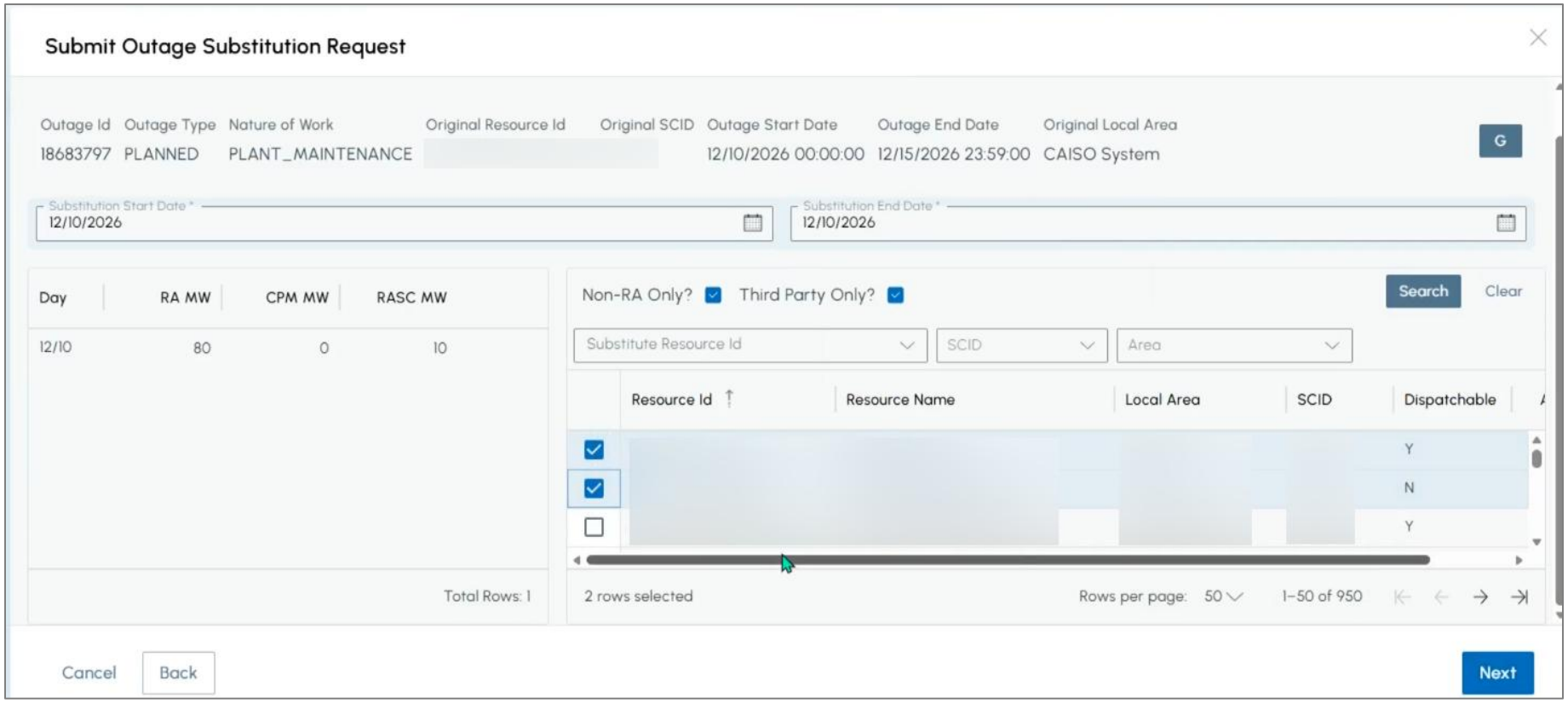
Navigation: Manage Substitution > Add Request



Note: Workflow steps shown at the top of the screen.
Identify the applicable month and outage type, search for the outage, select it, and continue to the next step.

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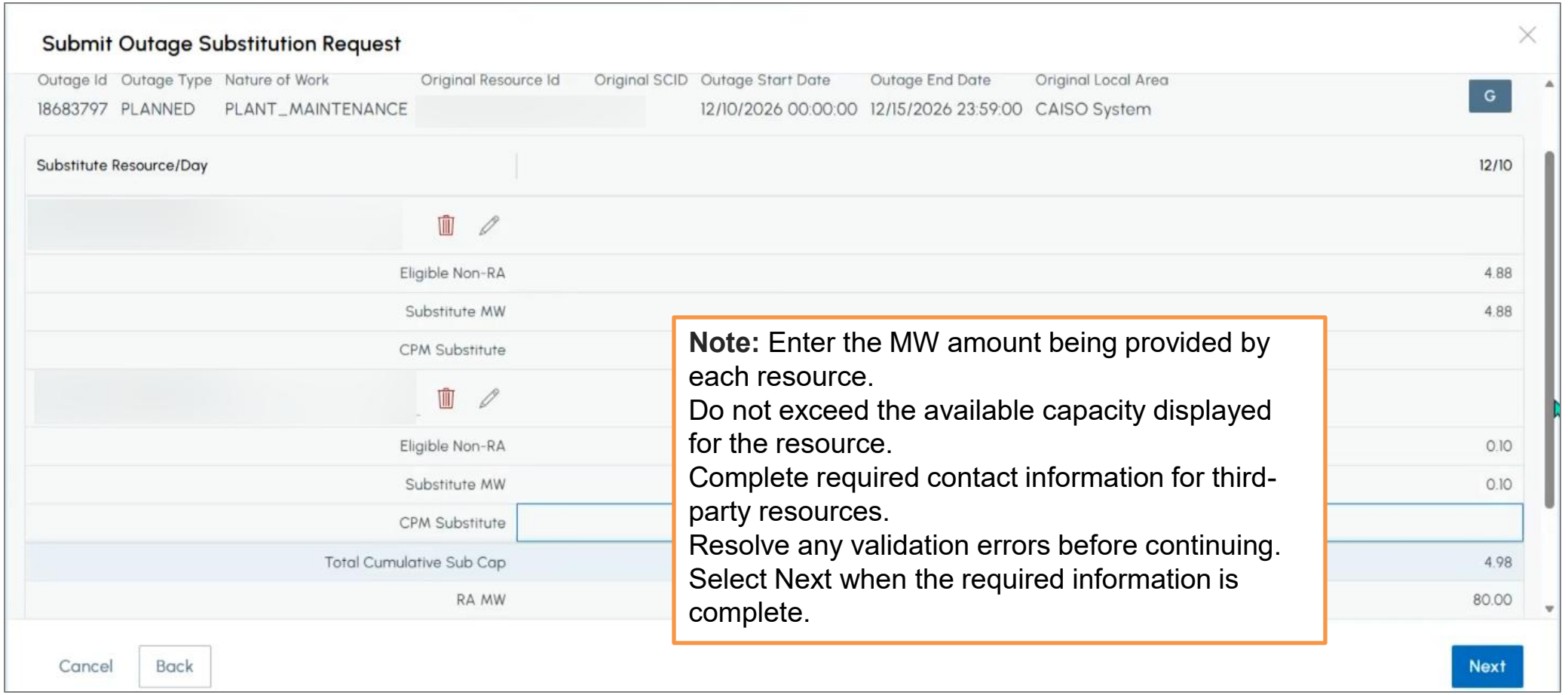
Select the resource(s) that will provide the substitution



Note: Enter the applicable substitution dates.
Search for eligible substitution resources.
Use available filters to narrow the results.
Select one or more resources as needed to meet the substitution requirement.
Select Next to continue.

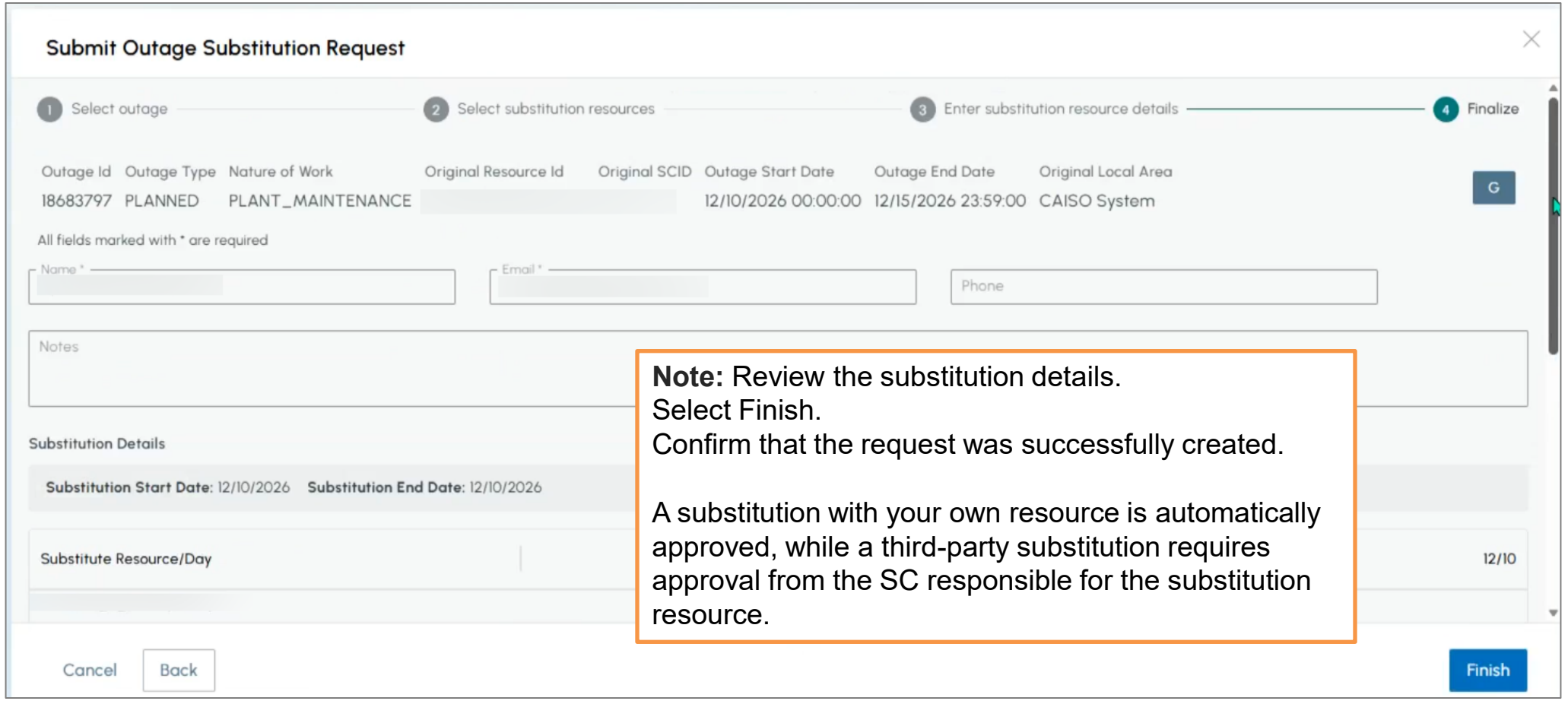
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Enter the substitution details for each selected resource. Use the pencil icon to fill in missing contact information, if you receive an error.



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Review and submit the substitution request

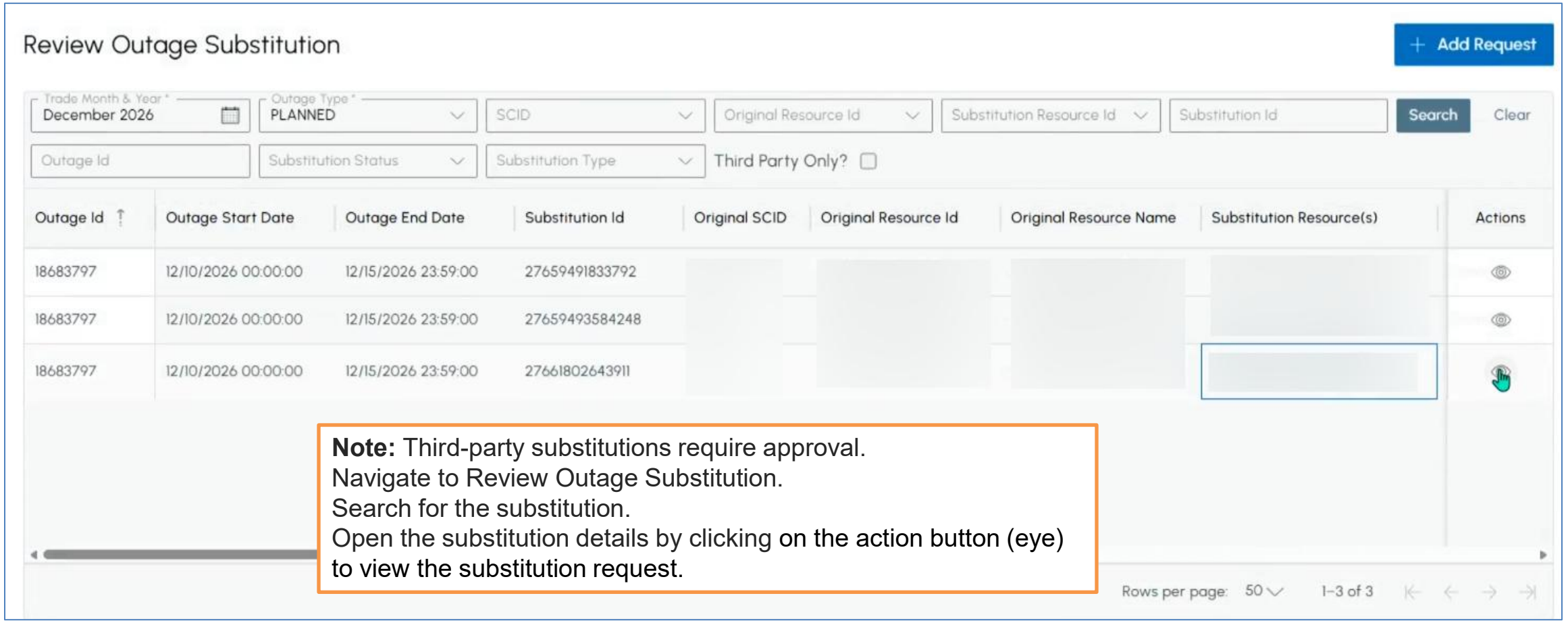


Note: Review the substitution details.
Select Finish.
Confirm that the request was successfully created.

A substitution with your own resource is automatically approved, while a third-party substitution requires approval from the SC responsible for the substitution resource.

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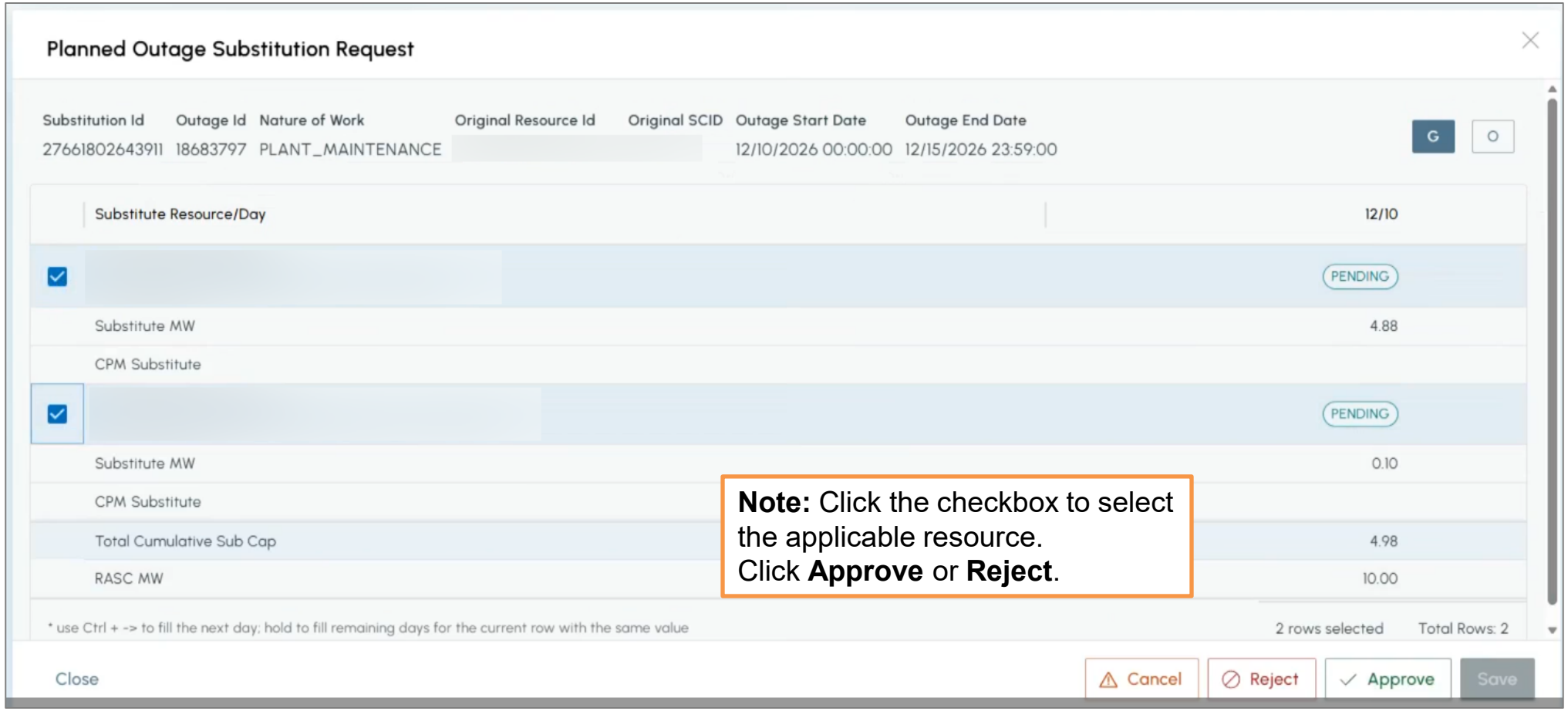
The same Review Outage Submission Screen is used for the remaining actions (Approve, Reject, Release, Cancel)



Note: Third-party substitutions require approval.
Navigate to Review Outage Substitution.
Search for the substitution.
Open the substitution details by clicking on the action button (eye) to view the substitution request.

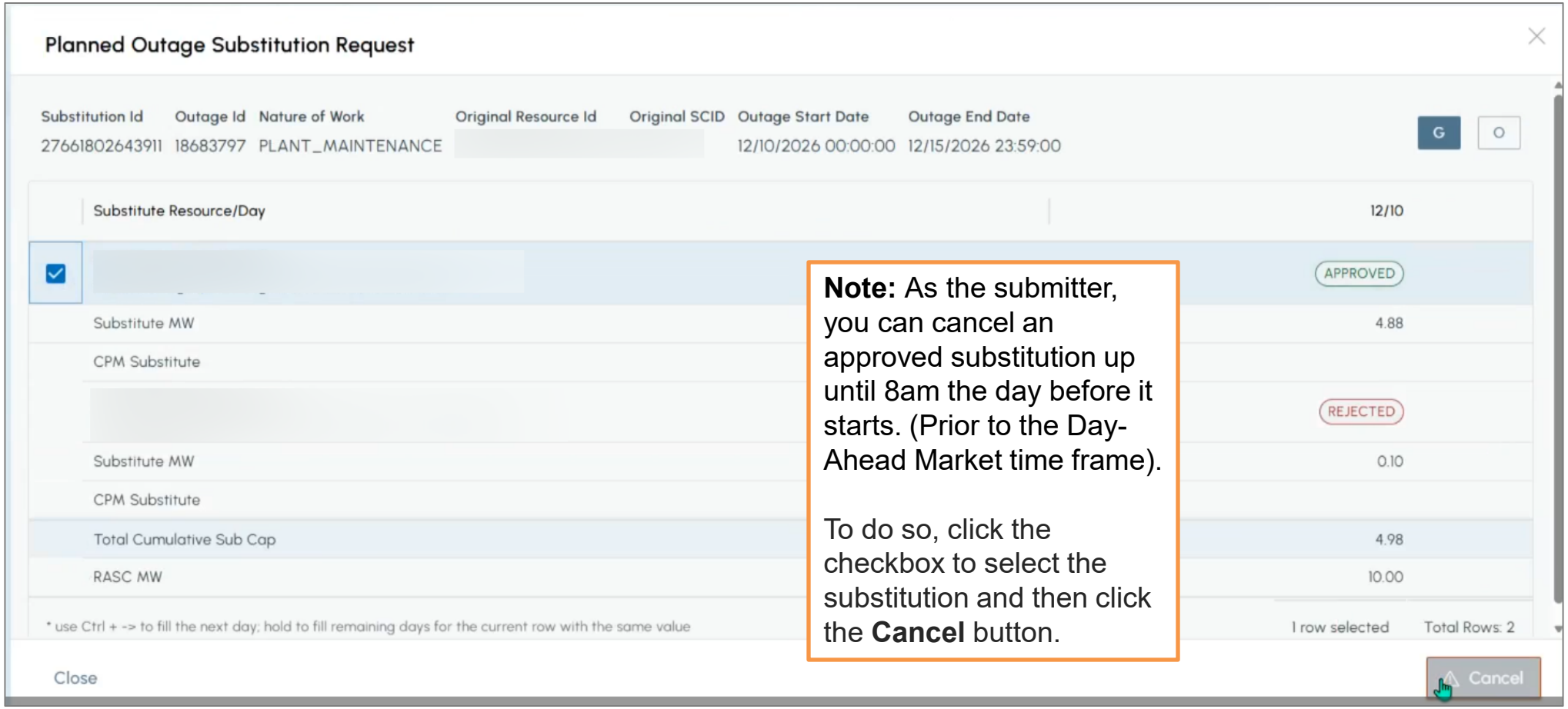
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The SC for the third-party substitute resource will click the corresponding button to complete the desired action.



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Canceling a substitution request takes place on the same screen.



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Notes re: Additional Substitution Scenarios

- **Forced outages:** Review commitment information to determine how much to substitute. For planned outages, CIRA identifies the requirement.
- **Release:** After an approved substitution begins, release some or all eligible future dates. Dates beyond the applicable market cutoff cannot be released.
- **Real-Time:** For qualifying outages in the Real-Time timeframe, set **Market Time Frame** to **Real-Time** and specify the substitution start time.
- **Flexible RA:** Follow the same four-step workflow we showed for Generic RA and select the **Flexible** substitution type.

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CSP and CPM (no process changes)
Changes to CSP provisioning – see access & roles section

CSP offers

- Search eligible resources
- Load previous offers and see offer history
- Save, submit, modify or cancel within the submission windows
- Warning above the soft offer cap
- Offers are capped at NQC or EFC

ED CPM

- SCs can decline within 24 hours if no CSP offer was made

Viewing results

- SCs view CPM designations
- LSE SCs view CPM allocations

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LRA, CPUC and CEC Corner (changes to access provisioning)

LRAs

- LRA Obligations and Flex Deficiency Analysis validation views
- Obligation Reports
- Late/missing plan emails
- Note that the LRA role is for all LRAs, including the CPUC

CPUC

- NQC request details
- RA Report and Credits Report
- Validation results: Supply Plan, RA Plan, LSE Obligations, Flex
- Outage Impact Analysis results and CSP offers
- New CPUC-specific role: External California Public Utilities Commission Read-Only

CEC

- Upload and view Peak Demand obligations
- New Peak Demand Obligation Template
- View the NQC Report
- Role renamed: External California Energy Commission Read-Write

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Emails You'll Receive

Email	When	Who
Late/missing RA plan	When a plan is late or missing	LRAs
Validation notification (RA and Supply plans)	After the first automated validation run	Primary and secondary contacts from plan's Admin Info tab
Import Allocation results	After Steps 10 and 12	LSE SCs
Import Allocation reminders	48 hours before Step 9, 11 and 13 deadlines	LSE SCs
Substitution status	At each status change	Supplier SCs
Deficiency	When a shortfall is identified as part of the monthly and annual processes	LRAs

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Access & Roles: What UAAs need to know

Four roles were retired

EXTERNAL RA READ ONLY

EXTERNAL RA READ-WRITE

EXTERNAL OFFER READ-ONLY

EXTERNAL OFFER READ-WRITE

Their functionality is now included in the new LSE roles and expanded Supplier roles.

What UAAs need to know

- The ISO will handle role migration before cutover
- CSP bid roles were folded into Supplier roles to streamline access

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Role changes in AIM to streamline access provisioning

Status	AIM Role Name	Change
Retired	EXTERNAL RA READ ONLY	RA viewing functionality moved to EXTERNAL LSE READ-ONLY and EXTERNAL SUPPLIER READ.
	EXTERNAL RA READ-WRITE	RA upload and maintenance functionality moved to EXTERNAL LSE WRITE and EXTERNAL SUPPLIER WRITE.
	EXTERNAL OFFER READ-ONLY	CSP offer viewing functionality moved to EXTERNAL SUPPLIER READ.
	EXTERNAL OFFER READ-WRITE	CSP offer submission and maintenance moved to EXTERNAL SUPPLIER WRITE.
New Role	EXTERNAL LSE READ-ONLY	Combines RA viewing functionality with applicable LSE data and reports.
	EXTERNAL LSE WRITE	Combines RA upload and maintenance functionality with applicable LSE functions.
Expanded	EXTERNAL SUPPLIER READ	Now includes CSP offer viewing functionality.
	EXTERNAL SUPPLIER WRITE	Now includes CSP offer submission and maintenance functionality.
Role name changed	EXTERNAL CALIFORNIA ENERGY COMMISSION READ-WRITE	Previously named CALIFORNIA ENERGY COMMISSION.
New Role	EXTERNAL CALIFORNIA PUBLIC UTILITIES COMISSION READ-ONLY	Provides view-only access to applicable data, reports, and credit information.
Retained	EXTERNAL LRA READ-ONLY	Continues to provide applicable view-only access.
Retained with limitation	EXTERNAL LRA WRITE	Upload functionality is currently disabled.

Note: The full description of each role's access level is provided in the updated user guide.

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Resources available in the ISO Training Center

1

User guide

Updated with new CIRA screens and associated changes

2

Crosswalk

Existing menu structure vs. new structure

3

Market simulation

Dates and how to participate will be communicated

Coordination between participants is needed to ensure success

4

Getting help

CIDI ticket

New CIRA URL: https://ciraapp.caiso.com/

Replaces https://cira.caiso.com/

Interim URL will be activated at go-live

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Substitution Testing During Market Simulation

- Partner with another Supplier SC to test the substitution process.
- Use Market Sim resources to practice creating and processing substitutions.
- Practice both sides of the third-party workflow: requesting and approving.
- Have the required supply plans and outages in place before testing begins.
- The project team will provide a focused testing period, live support, and assistance.

Start thinking about who you can partner with during Market Simulation.

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Help Us Kick Off Substitution Testing

- We are looking for one or two volunteers for a live demonstration.
- The project team would use the volunteer's Market Sim SCID and resource data.
- Test data would be prepared in advance for a step-by-step demonstration.
- The demonstration will help participants understand the workflow before partner testing begins.
- Volunteering is optional; working with a testing partner is required.

Interested in volunteering your Market Simulation resources for the live demonstration? Let us know.

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Wrap Up

Summary, Q&A

- What's happening next.

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What Questions Do You Have?



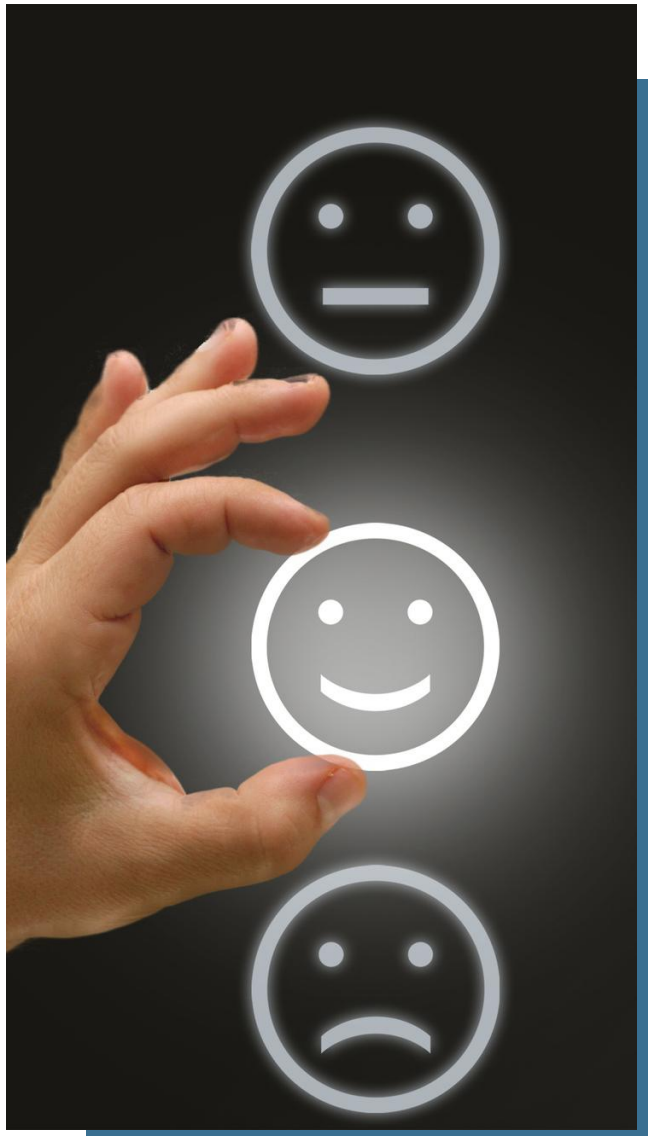
Unmute yourself

or



Raise your hand

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Tell us how we did

Takes 3-5 minutes to complete

Helps us improve future training

Link: https://www.surveymonkey.com/r/caisocoursesurvey

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Thank you for your participation!



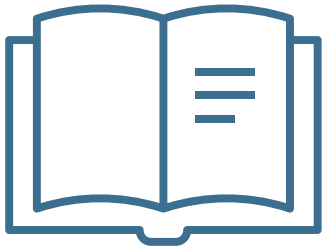
For clarification on anything presented in this training, send an email to: CustomerReadiness@caiso.com

For other questions or stakeholder specific questions or concerns use one of these methods:

- Submit a CIDI ticket
- Contact your Scheduling Coordinator
- Use the "Contact us" page on caiso.com to submit questions

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REFERENCE MATERIAL

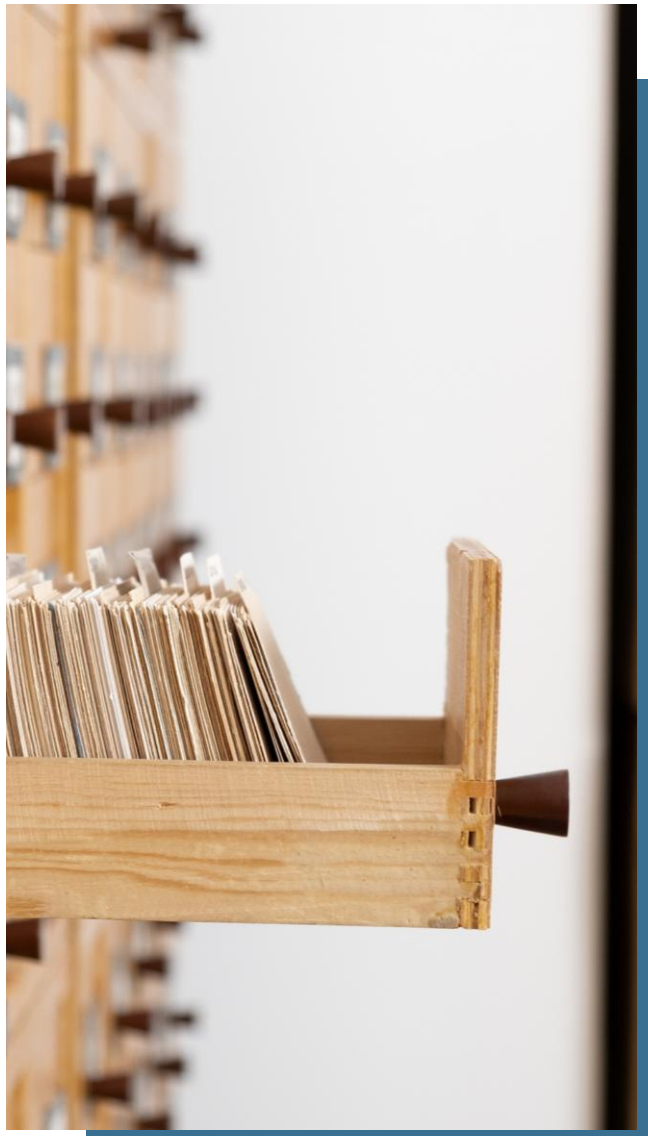


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Acronyms

Acronym	Meaning	Acronym	Meaning
AIM	Access and Identity Management	**LSE**	Load-Serving Entity
CEC	California Energy Commission	**MIC**	Maximum Import Capability
CIDI	Customer Inquiry, Dispute and Information	**NQC**	Net Qualifying Capacity
CIRA	Customer Interface for Resource Adequacy	**OIA**	Outage Impact Analysis
CPM	Capacity Procurement Mechanism	**PT**	Price Taker (in the context of an export)
CPUC	California Public Utilities Commission	**RA**	Resource Adequacy
CSP	Competitive Solicitation Process	**RAAIM**	Resource Adequacy Availability Incentive Mechanism
DAME	Day-Ahead Market Enhancements	**RASC**	Resource Adequacy Substitute Capacity
ED	Exceptional Dispatch	**RIC**	Remaining Import Capability
EDAM	Extended Day-Ahead Market	**SC**	Scheduling Coordinator
EFC	Effective Flexible Capacity	**SCID**	Scheduling Coordinator ID
LCR	Local Capacity Requirement	**TAC**	Transmission Access Charge
LRA	Local Regulatory Authority	**UAA**	User Access Administrator

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Reference Links

DAME Transitional Measures – Training Material

- FAQ - Transitional Measures and Overlapping Capacity Training
- Video - Day-Ahead Market Enhancements Transitional Measures and Overlapping Capacity Training
- Presentation - Day-Ahead Market Enhancements Transitional Measures and Overlapping Capacity Training

Resource Adequacy Modeling and Program Design

- Stakeholder Policy Initiative Page
- Business Requirements Specification v1.0 – RAMPD Track 3A

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