

Market Simulation -Fall 2022 Release

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Nov 11, 2022

Recordings

Calls and webinars are recorded for stakeholder convenience, allowing those who are unable to attend to listen to the recordings after the meetings. The recordings will be publicly available on the ISO web page for a limited time following the meetings. The recordings, and any related transcriptions, should not be reprinted without the ISO's permission.



Agenda

- Market Simulation call update
- Fall 2022 MAP Stage Availability
- Initiatives
 - Flexible ramping product deliverability
 - Hybrid resources phase 2B
- Known issues
- Next Steps



Market Simulation call update

 Extending Market Simulation for Fall 2022 Release by 1 week till 11/18.



Fall 2022 MAP Stage Availability

- Refer to MAP Stage portal <u>https://portalmap.caiso.com</u> for system availability information
- Current MAP Stage Scheduled Maintenance
 - None
- Upcoming MAP Stage Scheduled Maintenance
 None



Flexible ramping product - deliverability

- Timeline: 10/11 11/18
- Scenarios : 10/18 and 10/20

Scenarios document https://www.caiso.com/Documents/Market-Simulation-Structured-Scenarios-Flexible-Ramping-Product.pdf



Hybrid resources phase 2B

- **Timeline:** 10/11 11/18
- Scenarios: 11/01 and 11/03
- Scenarios document <u>https://www.caiso.com/Documents/MarketSimulationStructuredS</u> <u>cenarios-HybridResourcesP2.pdf</u>



- Flexible Ramp Aggregate Award table in OASIS map stage not populating – Fixed
- 60-min dispatchable for discrete RDRRs Enhancement (fix expected this week)
- Pending CIDI Tickets
 - OASIS reports not getting FRP data Fixed
 - OASIS report missing data- Pending SME review
 - Hybrid resource data tickets- Pending SME review





 The next teleconference is scheduled on November 14 at 1400 PDT



References



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ISO Market Simulation Support

- Hours: Monday thru Friday 0900-1800 PDT
- ISO's 24x7 Service Desk: (916) 351-2309 (Connectivity – UI or API)
- Email: <u>MarketSim@caiso.com</u>



Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have "Functional Environment" = "Market Simulation Fall 2022" to be reviewed by ISO SMEs



Fall 2022 MAP Stage Connectivity Testing

- Available for Connectivity
 - 8/22: ALFS Submit/Retrieve SCVERForecast
 - 9/16: MF UI
 - 9/16: CIRA
 - 9/19: MF API
 - 9/30: ADS (Independent)
 - 10/11: CMRI for FRP
 - 10/13: OASIS for FRP
 - 10/26: CMRI for HR2B
 - 10/27: OASIS for HR2B



Structured Scenario Registration Details

MP's will need to register their request with the ISO to participate in this simulation via the MarketSim@caiso.com mailbox.

Date of registration August 12, 2022.

We will do our best to accommodate for late registration



Hybrid Resources Phase 2B: ALFS API Access Provisions

- User Access Administrators (UAAs) are able to provision access for to these new roles:
 - Submits
 - AIM > Application: ALFSSOA > Role: SC WRITE EXTERNAL
 - Retrieves
 - AIM > Application: FDR > Role: SC READ EXTERNAL
 - References
 - <u>https://developer.caiso.com</u>
 - <u>Technical Specification</u>
 - Artifacts
 - <u>SubmitSCVERForecast ALFSv1 AP</u>
 - SubmitSCVERForecast ALFSv1 DocAttach AP
 - <u>RetrieveSCVERForecast FDRv1 AP</u>
 - <u>RetrieveSCVERForecast FDRv1 DocAttach AP</u>
 - URLs
 - <u>https://wsmap.caiso.com/sst/runtime.asvc/SubmitSCVERForecast_ALFSv1_AP</u>
 - <u>https://wsmap.caiso.com/sst/runtime.asvc/SubmitSCVERForecast_ALFSv1_DocAttach_AP</u>
 - <u>https://wsmap.caiso.com/sst/runtime.asvc/RetrieveSCVERForecast_FDRv1_AP</u>
 - <u>https://wsmap.caiso.com/sst/runtime.asvc/RetrieveSCVERForecast_FDRv1_DocAttach_AP</u>



Central Procurement Entity

- Timeline: 09/19 09/30
- Structured: 9/22
- Submit provisioning requests to Production 10/3

Scenarios Document -

https://www.caiso.com/Documents/Market-Simulation-Structured-Scenarios-Central-Procurement-Entity.pdf



Central Procurement Entity Access Provisions

- Submit provisioning requests to Production 10/3
- CPE must obtain the services of a certified Scheduling Coordinator (SC)
- SC will need to request a new SCID to represent the CPE and indicate the CPE name in the request
- The new SCID is approved to be setup in master file and a CPE ID is created and assigned for the CPE to be associated to the new SCID
- Contact <u>SCRequests@caiso.com</u> for questions



Hybrid Resources Phase 2B: Unstructured Scenario 1

Scenario		Unstructured guided Scenario
Number		
	Description	Verify submitted hybrid resource data and component level data
		ISO to dispatch Hybrid resources
	EIM MP	EIM SCs to submit dynamic limits and real-time (RT) forecasts for hybrid resources
	Actions	
	ISO MP	SCs to submit dynamic limits and real-time (RT) forecasts for hybrid resources
	Actions	Verife University Deserves data in Master File
	Expected	Verify Hybrid Resource data in Master File
	Outcome	Verify submission of upper and lower resource limit in Market (Dynamic Limit Tool)
		Verify the following in CMRI:
1		 Hybrid resource award is within the dynamic limit as submitted by Market Participant When the LMP is higher than the hybrid resource bid and the resource has ramping capability, hybrid resource award is at the upper dynamic limit MW value, including cases when the upper dynamic limit MW value is greater than the original upper bid limit MW value. When the LMP is lower than the hybrid resource bid and the resource has ramping capability, hybrid resource award is at the lower dynamic limit MW value, including cases when the upper dynamic limit MW value is greater than the original upper bid limit MW value. When the LMP is lower than the hybrid resource bid and the resource has ramping capability, hybrid resource award is at the lower dynamic limit MW value, including cases when the lower dynamic limit MW value is lower than the original lower bid limit MW value. Hybrid resource forecast data is published at the VER component level Verify utilization of ISO forecast of Hybrid Resources in MRI-S Settlements Statement
	Anticipated	701
	Settlement	
	Outcome	
	Expected	EIM Participants: Verify Hybrid Resources are assessed a forecast fee.
	Settlement	
	Outcome	ISO Market Participants Only: Verify Hybrid Resources are fully exempted from RAAIM in Settlements and assessed a forecast fee.
	Califor	nia ISO COPYRIGHT © 2016 by California ISO. All Rights Reserved. Page 18

Hybrid Resources Phase 2B: Unstructured Scenario 2

Scenario Number		Unstructured guided Scenario
	Description	Verify that VERs behind any given Sub-ACC have their "Follow DOT" flags set equal to 'Y' whenever one of their co-located resources has an AS award/AS base schedule.
	ISO Actions	ISO to normally enforce ACCs and dispatch their resources as per the regular EIM clearing process.
	EIM Market Participant Actions	EIM SCs to submit AS base schedules for non-VER resources behind Sub-ACCs with VERs.
	ISO Market Participant Actions	SCs to submit economical AS bids in the DAM and RTM for non-VER resources behind Sub-ACCs with VERs.
	Expected Outcome	• Verify non-VER resources behind Sub-ACCs with VERs have AS awards/AS base schedules going into RTD.
		• Verify in Market and ADS that VERs behind a Sub-ACC whose co-located resources have an AS award/AS base schedule have their "Follow DOT" flags set equal to 'Y'.
2		• Verify that the aforementioned logic only applies on a per "Sub-ACC" basis, i.e., if a collocated resource in Sub-ACC1 has an AS award/base schedule, then VERs in Sub-ACC2 do not necessarily have their "Follow DOT" flags set equal to 'Y'.
	Anticipated Settlement Outcome	N/A
	Expected Settlement Outcome	N/A



Fall 2022 Communication Plan

Schedule

Monday	Tuesday	Thursday
Aug 22, 29		Aug 18, 25
Sep 12, 19, 26	Sep 26	Sep 01, 08, 15, 22,
		29

Connection Information

- Web Conference Information
 - Web Address: <u>https://caiso.webex.com/meet/MarketSim</u>
 - Meeting Number: 962 067 710
 - Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and enter the phone number you will use during the call. You will be called by the conference shortly.

- Conference Call Information

- Dial-in Number:
 - 1-844-517-1271 (Toll Free)
 - 1-682-268-6591
- Access Code: 962 067 710



OSI Enhancements – 2022 (ADS)

• 71836: Ability to "Update/Override existing configuration".

Private Display	Profiles						
🖉 🗣 🖗 🖅	◀ ◀	1 - 1	l of 1		GO		
Profile Name 🐣 De	scription	Sharable	Created Dat	te			XML
Generic Profile Al	OS Demo	Yes	04/06/2020	10:37	Override	Load	Delete 🌱



OSI Enhancements – 2022 (ADS)

- 73227: Changes in Instruction:
 - Enable the advance filter in instruction Grid.
 - Additional color scheme for commitment instructions:
 - Startup: Green
 - Shutdown: Orange

Instructions - Rescurce ID:									
Valid Instruction Type Accept DOT Accept	atus Award MW	ED Energy Code	Instr MW	Min Accept	Self Sched MW	Start Time 🛛 🔻	End Time	Prev Goto	
[ALL]									
Startup Startup			0.00			11:00	12:00		
Shutdown			0.00			11:00	11:00		
DOT (17.00						40.57		400.00	

- Transition: Yellow

v	alid Instruction Type	Accept DOT	Accept Status	Award MW	ED Energy Code	Instr MW	Min Accept	Self Sched MW	Start Time	E	End Time	P	Prev Goto	Responder	From Config Id	To Config Id
	Transition 🗸									Ē	f	iii				
	Transition					15.00			11:15	1	11:30					



Central Procurement Entity: Structured Scenario 1

Scenario Number	Scenario Execution Trade Date: 09/22/22							
	Description	CPE entity should be able to view their obligation data, submit RA showing, and view their deficiency data.						
	ISO Actions	 Upload the reference data (peak obligation, LCR by Tac obligation and flex obligation data) for a month Upload credit data (peak credit, LCR by tac credit & flex credit data) for a month Ensure cross validation is running for the generic/flex data for the Month 						
	EIM Market Participant Actions	N/A						
1	ISO Market Participant Actions	Participant (CPE) should submit their RA Plan and ensure supplier also submits the corresponding supply plan.						
	Expected Outcome	 Participant can view and verify their data after subsequent CV plan has been completed in the following screens: CV Output details screen Generic Obligation Report Flex Obligation Report RA Report 						
	Anticipated Settlement Outcome	N/A						
	Expected Settlement Outcome	N/A						



Central Procurement Entity: Structured Scenario 2

Scenario Number		Scenario Execution Trade Date: 09/22/22						
	Description	Allocation of CPM cost to CPE entity.						
	ISO Actions	 Identify the resource and designate CPM and allocate the cost for this resource. Upload Load Share Ratio for the month specified Run CPM allocation for the month specified and broadcast data to settlements 						
	EIM Market Participant Actions	N/A						
2	ISO Market Participant Actions	N/A						
	Expected Outcome	Navigate to CPM allocation screen and verify the allocation data						
	Anticipated Settlement Outcome	CPE's SC gets cost allocation.						
	Expected Settlement Outcome	Please check CC 7896						



Central Procurement Entity: Unstructured Scenario 3

Scenario Number	Scenario Execution Trade Date: 09/22/22 – 09/30/22						
	Description	Updated logic for LSEs to display system obligation and LSE credit (CPE credit type) after the deficiency calculation.					
	ISO Actions	 Upload the reference data (peak obligation, LCR by Tac obligation and flex obligation data) for a month Upload credit data (peak credit, LCR by tac credit & flex credit data) for a month Ensure cross validation is running for the generic/flex data for the month 					
	EIM Market Participant Actions	N/A					
3	ISO Market Participant Actions	Participant (CPE) should submit their RA Plan and ensure supplier also submits the corresponding supply plan.					
	Expected Outcome	 Participant can view and verify their data after subsequent CV plan has been completed in the following screens: CV Output details screen Generic Obligation Report Flex Obligation Report 					
	Anticipated Settlement Outcome	N/A					
	Expected Settlement Outcome	N/A					



Reliability Demand Response Resources Bidding Enhancements Phase 2: Structured Scenario 1

Scenario Number	Scenario Execution Trade Date: 10/11/22						
	Description	Submit Competitive Bids by Discrete RDRRs' SCs					
	ISO Actions	CAISO Operators declare EEA2 stage where discrete RDRRs are dispatched					
	EIM Market Participant Actions	N/A					
1	ISO Market Participant Actions	SCs of the discrete RDRRs submit competitive bids.					
	Expected Outcome	Follow the results in the sink systems to verify commitment, dispatch, and settlements of discrete RDRRs					
	Anticipated Settlement Outcome	N/A					
	Expected Settlement Outcome	N/A					



Flexible Ramping Product – Deliverability: Unstructured Scenario 1

Scenario Number		Unstructured guided scenario						
	Description	Demonstrate the variability of locational pricing for FRU/ FRD.						
	ISO Actions	N/A						
	EIM Market Participant Actions	Market Participants should input economic energy bids to observe results						
1	ISO Market Participant Actions	N/A						
1	Expected Outcome	Verify the results in OASIS						
	Anticipated Settlement Outcome	Flex Ramp Prices used in settlements will reflect the new locational pricing for FRD						
	Expected Settlement Outcome	CC 7070, CC 7071, CC 7076, CC 7077, CC 7078						



Flexible Ramping Product – Deliverability: Structured Scenario 2

Scenario Number	Scenario Execution Trade Date: 10/18/22						
	Description	Demonstrate the Settlements processing for FRP PASS/FAIL.					
	ISO Actions	N/A					
	EIM Market Participant Actions	Market Participants should input less that optimal flexible ramping requirements to fail the sufficiency test.					
	ISO Market Participant Actions	N/A					
2	Expected Outcome	FRP Sufficiency test Failed: FRU/FRD is still procured separately for the respective FRU/FRD requirement, but the latter is only reduced by the FRU/FRD demand elasticity in that BAA, without any FRU/FRD credit.					
	Anticipated Settlement Outcome	Allocation for both Movement and Uncertainty will be driven by the Pass Group, If a BAA Passes their Sufficiency test, the allocation amount will be a prorated between the BAA over EIM Area (All BAAs that belong to Pass Group).					
		If a BAA Fails their Sufficiency test, the allocation amount will be directly allocated/isolated to the individual BAA.					
	Expected Settlement Outcome	CC 7070, CC 7071, CC 7076, CC 7077, CC 7078, PC Flexible Ramp Product					



Fall 2022 Market Simulation Settlements Calendar Fall 2022 Market Sim Calendar (MAP STAGE)

Aug 22, 2022 through Oct 28, 2022; Extended TDs thru Nov 11, 2022

Calendar	CMRI	Submit Meter Data	Publish Initial Statement	Submit Meter Data	Publish Recalc Statement	
Day	T+1B	by T+2B 10:00 for Initial	T+5B	by T+5B 18:00 for Recalc		Publish Market Invoice
		T+9B	T+9B	T+70B	T+70B	
10-Oct-22		6-Oct				
11-Oct-22			4-Oct	4-Oct	29-Sep	
12-Oct-22	1			· · · · · · · · · · · · · · · · · · ·		Daily Recalc 27-Sep; Daily Recalc 29-Sep;
	11-Oct		<u> </u>	<u> </u>	Monthly Recalc 27-Sep - 29-Sep	Monthly Recalc 27-Sep - 29-Sep
13-Oct-22		11-Oct	6-Oct	6-Oct		
14-Oct-22	1			'		Daily Initial 4-Oct; Daily Initial 6-Oct;
	13-Oct		Monthly Initial 4-Oct - 6-Oct	I'	4-Oct	Monthly Initial 4-Oct - 6-Oct
17-Oct-22		13-Oct				
18-Oct-22	1		11-Oct	11-Oct	6-Oct	
19-Oct-22	1		1			Daily Recalc 4-Oct; Daily Recalc 6-Oct;
	18-Oct		!	I'	Monthly Recalc 4-Oct - 6-Oct	Monthly Recalc 4-Oct - 6-Oct
20-Oct-22	í	18-Oct	13-Oct	13-Oct		
21-Oct-22	i					Daily Initial 11-Oct; Daily Initial 13-Oct;
	20-Oct		Monthly Initial 11-Oct - 13-Oct	I'	11-Oct	Monthly Initial 11-Oct - 13-Oct
24-Oct-22	1	20-Oct				
25-Oct-22	í		18-Oct	18-Oct	13-Oct	
26-Oct-22	i		1			Daily Recalc 11-Oct; Daily Recalc 13-Oct;
	25-Oct		!	1'	Monthly Recalc 11-Oct - 13-Oct	Monthly Recalc 11-Oct - 13-Oct
27-Oct-22	í	25-Oct	20-Oct	20-Oct		· ·
28-Oct-22	í		1			Daily Initial 18-Oct; Daily Initial 20-Oct;
	27-Oct		Monthly Initial 18-Oct - 20-Oct	1	18-Oct	Monthly Initial 18-Oct - 20-Oct
31-Oct-22	í	27-Oct	· · · · · · · · · · · · · · · · · · ·	[,
01-Nov-22	í		25-Oct	25-Oct	20-Oct	
02-Nov-22	1		1	[Daily Recalc 18-Oct; Daily Recalc 20-Oct;
	i.			1	Monthly Recalc 18-Oct - 20-Oct	Monthly Recalc 18-Oct - 20-Oct
03-Nov-22	í		27-Oct	27-Oct		
04-Nov-22	í		1			Daily Initial 25-Oct; Daily Initial 27-Oct;
	i.		Monthly Initial 25-Oct - 27-Oct	1	25-Oct	Monthly Initial 25-Oct - 27-Oct
05-Nov-22						
06-Nov-22						
07-Nov-22	1		1			
08-Nov-22	í		1 1	[27-Oct	
09-Nov-22	í		1 1			Daily Recalc 25-Oct; Daily Recalc 27-Oct;
	1			1	Monthly Recalc 25-Oct - 27-Oct	Monthly Recalc 25-Oct - 27-Oct

https://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-Fall2022Release.pdf



Reliability demand resource response phase 2

- **Timeline:** 10/11 10/28
- Scenarios : 10/11- Complete
- EEA2 Stage emergency 1300-1600 PPT

Scenarios document -

https://www.caiso.com/Documents/MarketSimulationStructure dScenarios-ReliabilityDemandResponseResourcesPhase2.pdf



2022 - System Interface Changes

Syste m	Release	Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
SIBR	2022 Independent		New: SC of PT Export New: SC of supporting resource	 ✓ 5/5/22 - UI API TBD 	✓ 6/1/22 - UI API TBD	TBD
MF	Fall 2022	Hybrid Resources 2B	SubmitGeneratorRDT_MFRDv5_20211001 RetrieveGeneratorRDT_MFRDv5_20211001	~	Deployed	✓
MF	Fall 2022	Hybrid Resources 2B	 <u>RDT Definitions v17 DRAFT</u>: <u>GRDT v17</u> Changes: RESOURCE tab: HYBRID_COMPONENTS tab: (Hybrid Resource Phase 2-B, activation date moved to Fall 2022) Add fields: MIN_CONT_ENERGY_LIMIT, MAX_CONT_ENERGY_LIMIT, ENERGY_EFFIC 	✓ 9/19/22	12/1/22	✓ <u>Drafts</u> 5/24/22
SIBR	Fall 2022	Hybrid Resources 2B	SubmitDynamicResourceLimitsData_SIBRv1 RetrieveDynamicResourceLimitsData_SIBRv1	✓ 11/02/22	12/1/22	 Artifacts 2/2/22 Tech Spec 2/8/22
ALFS	Fall 2022	Hybrid Resources 2B	SubmitSCVERForecast_ALFSv1 RetrieveSCVERForecast_FDRv1	✓ 8/22/22	12/1/22	✓ 5/25/22

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2022 - System Interface Changes

Syste m	Release	Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
CMRI	Fall 2022	Hybrid Resources 2B	Modify: RetrieveEIRForecast_CMRIv1_AP - 20220401 Modify: RetrieveEIRForecast_CMRIv1_DocAttach_AP - 20220401	✓ 10/26/22	12/1/22	✓ 7/15/22
CMRI	Fall 2022	Hybrid Resources 2B	New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_AP New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_DocAttach_AP	✓ 10/26/22	12/1/22	✓ 7/15/22
CMRI	Fall 2022	Heilveraniiiv	Resource Nodal prices for the FRP awards Will leverage existing API & UI functionality for FRP products (FRU/FRD) – No changes need for UI & API functionality; Users can continue to use existing UI/API functionality as is.	✓ 10/11/22	12/1/22	N/A
OASIS	Fall 2022	Hybrid Resources 2B	Include constraint in the Scheduling Constraint Shadow Prices report New: Aggregate Capability Constraint Shadow Prices; ACC_SHDW_PRC 	✓ 10/27/22	12/1/22	✓ 7/15/22
OASIS	Fall 2022	FRP Improvements – Deliverability	 Demonstrate the variability of locational pricing for FRU/FRD. New: Flex Ramp Requirements Input Uncertain Histogram; FLEX_RAMP_REQ_INP_HSG New: Flex Ramp Requirement Input - Polynomials; FLEX_RAMP_REQ_INP_POLYNOMIALS New: Flex Ramp Requirement Threshold; FLEX_RAMP_REQ_THRESH New: Flexible Ramp Test Result Groups; FLEX_RAMP_TEST_RESULT_GROUP New: Flexible Ramping Nodal Prices; FLEX_RAMP_NODAL_PRC New: Flexible Ramping Scheduling Constraint Shadow Prices; FLEX_RAMP_SCH_CNSTR_SHDW_PRC New: Flexible Ramping Forecasts; FLEX_RAMP_FCST Flexible Ramp Surplus Demand Curve; ENE_FLEX_RAMP_DC 	✓ 10/13/22	12/1/22	✓ 7/15/22

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2022 - System Interface Changes

System	Release	Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
ADS	2022	Operations Systems Improvements	Ability to "Update/Override existing configuration"	✓ 9/30/22	✓ 10/27/22	N/A
ADS	2022	Operations Systems Improvements	Add advance filter & additional color scheme for Commitment Instructions in ADS Instructions Table/Grid Changes to Instruction Grid: - Enable the advance filter in instruction Grid - Additional color scheme for commitment instructions: - Startup: Green - Shutdown: Orange - Transition: Yellow	✓ 9/30/22	 ✓ 10/27/22 	N/A

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- DRRS deployed DRRS UI 2.2.1, DRRS API 2.2.4 to the MAP-Stage environment to allow for a market participant testing period opportunity.
- Release contents:
 - Preventing the incumbent DRP user to end-date or update its respective location record which is currently in active defense mode. This is to preserve/honor completion of the defense process to prevent further issues (overlapping location recs, no action done on a defense by the system).
 - API output location review start/end and location defense start/end datetime values will be corrected to be published in the correct GMT value & format.
 - Email generation resolved rare/intermittent issue of system not sending out emails
- For those with ISO Developer Site access please refer to this Release Notes document posted at:
 - <u>https://developer.oa.caiso.com/Artifacts/DRRS/ReleaseNotes/DRRS%20UI%202.2.1%20API%202.2.4%</u>
 <u>20Release%20Notes%20v1.0%20(Nov%202022%20Release).pdf</u>
- For those without access to the ISO Developer Site please access the release notes at the following link -
 - <u>http://www.caiso.com/Documents/Release-Notes-v1-0-DRRS-UI-2-2-1-API-2-2-4-Clean-Nov2022Release.pdf</u>
- Environment Schedule :
 - MAP-Stage 10/28/2022 to 11/4/2022
 - Production 11/9/2022 (tentative)
- Please submit any questions or issues observed while performing MAP-Stage testing via the CIDI application, and be sure to select the Functional Environment field as "Market Simulation".



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> DRP VIEW > Locations						
LOC ID LOC Name Test Defend I SAN	DRP [ALL] 🗸 U	IDC [ALL] V LSE [ALL	SUBLAP [ALL]	✓ Defense Active [ALL] ✓	Updated Since DateTime	m Apply
Create Copy Delete Defend	Withdraw	dit End Date	Register			
Locations						
> ∀ t 3 ≇						Rows 25 V
Select Loc ID Vame	SAN	DRP UDC LSE	SUBLAP Device Type	PNODE Start Date	e End Date Status D	efense Active? Defense Start Defense End
					22 11/01/2022 Duplicate	
					22 10/14/2022 Active	10/05/2022 10/26/2022
					22 10/14/2022 Active 22 09/15/2022 End Dated	10/05/2022 10/26/2022
				00,10,20		
Location Address						
Address 1	Ad	dress 2	City	State Zip	Туре	
fghfh			Folson	n CA 95630		
✓ Location Review Details						
LSE Approved LSE Comments	LSE Reviewer LSE Contac	t Info UDC Approved	UDC Comments	UDC Reviewer	UDC Contact Info	
LSE Approved LSE Comments	L'SE Reviewer ESE Contac	t mio ODC Approved	ODC Comments	ODC Reviewei	ODC Contact Into	
 Location Defend Details - Incumbent 						
多 27 注						
Incumbent Name Incumbent Contact Info Incumbent Comme	ents	Prospective Nam	e Prospective Contact Info	Prospective Comments		
		La		Test Defend process		
]
✓ Location Defend Details - Prospective						
	The second se					
10/05/2022 15:14:00 Locations in active defense ; CONNECTED	process cannot be End Dated.		IINT_ADMINX10692 · 0	DEV		



• DRRS Tech Spec 3.3.4

34	Internal application error occurred unable to end-date location	When an exception is thrown while end-dating a location.
		Possible scenario is when a location is in active defense process.
35	Internal application error occurred unable to modify location	When an exception is thrown while modifying a location.
		Possible scenario is when a location is in active defense process.



Before

Defense Active?	Defense Sta	rt Defense End	Review Start	Review End	Status	UDC Reviewed I
Ŷ	05/21/2019	05/23/2019	01/09/2019	01/24/2019	Active	Y
<>defensel	nd	2019-05-22T	17:00:00.000	-07:00		
<>> defenses	start	2019-05-20T	17:00:00.000	-07:00		
	4	2019-01-24T0	0.00.00 0007			
	a	2019-01-2410	0:00:00.0002			
<>reviewEn		2019-01-09T0				



	> Locations					_												
		-		rates and un			FALLS									-	lt lt	5
	LOC Name Test D	efend I SAN	DRP			✓ LSE	[ALL]	✓ SUBLA	P [[ALL]	~	Defense Ac	tive [[ALL	.] ~ Up	dated Since	DateTime			
Create	Copy Dele	ete Defen	nd Withdr	aw Edit		End Date	Re	gister										
Location																		
> ∀ to \$																	Rov	VS 25 ·
Select Loc ID)	evice Type	PNODE		Sta	rt Date	End Date	Status	Defense Active?	Pefense Star	Defense E
11546133	Test Defend LNI11		Test-87	58568	DPGE	USDGE L	SDGE SI	LAP_SDG1				10	/06/2022	11/01/2022	Duplicate	·		
11546094	Test Defend LNI1		Test-87	58568	DSDGE	E USDGE L	SDGE SI	LAP_SDG1				09	/16/2022	10/14/2022	Active	Y	10/05/2022	10/26/202
11546094	Test Defend LNI1		Test-87	58568	DSDGE	USDGE L	SDGE SI	LAP_SDG1				09	/16/2022	10/14/2022	Active	Y	10/05/2022	10/26/202
11546093	Test Defend LNI		Test-87	58568	DGEP	USDGE L	SDGE SI	LAP_SDG1 E	S			09	/13/2022	10/05/2022	End Date	d		
Location A	Address																	
Address 1				Addre	ess 2				City		State	Zip	т	уре				
fghfh									Folsor	n	CA	95630						
 Location 	n Review Details																	
LSE Approved	LSE Comments		LSE Reviewer	LSE Contact In	nfo	UDC Appr	roved	UDC Comme	nts			UDC Review	wer	UDC Contac	t Info			
✓ Locatio	n Defend Details -	Incumbent																
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Incumbent Name	Incumbent Contact Info	Incumbent Com	ments			Prospectiv	ve Name	Prospective (ontact Info	Prospec	tive Comm	ents						
						Laksiiiii		910-551-020-			fend proces							
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	n Defend Details -	Prospective	9															
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✓ Location		- Prospective				Prospectiv		Prospective C 916-531-0284			tive Comm							



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After

Active? Defense Start Defense En	efense Active?
10/19/2022 10/20/2022	

DRRegistration							
	= xmins	http://www.caiso	.com/soa/DRRegistrationDa	ta_v2.xsd#			
	 MessageHead 	ler					
	 MessagePayle 	bad					
		 DistributedEn 	ergyResourceContainer				
			<>mRID				
			<>name				
			DemandResponse	Provider			
			 DistributedActivity Location RegisteredGenerator 				
			 status 				
			<>defenseActiveFlag	true			
			<>defenseEnd	2022-10-21T06:59:59.000Z			
			<>defenseStart	2022-10-19T07:00:00.000Z			
			<>locationID	11546205			
			<>reviewEnd	2022-10-21T06:59:59.000Z			
			<>reviewStart	2022-10-19T07:00:00.000Z			
			DemandUtilityDist	ributionCompany			
			Document (2)				



Fall 2022 Market Simulation Initiatives & Timelines

Fall 2022 Initiatives	Start Date	<u>Start Date</u> (Trade Date)	End Date	Scenario Start (Trade Date)
Fall 2022 Market Simulation				
Flexible ramping product – deliverability	10/11/22	10/11/22	11/11/22	10/18 & 10/20
Hybrid resources phase 2B	10/11/22	10/11/22	11/11/22	11/01 & 11/03

Market Simulation Plan:

https://www.caiso.com/Documents/MarketSimulationPlan-Fall2022Release.pdf



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