

Demand Response Registration User Guide

Version 4.7 November 7, 2019



External Use

Version No. 4.7 Effective 11/7/2019 Date **DEMAND RESPONSE REGISTRATION USER GUIDE**

Final

Table of Contents

1]	INTRODUC	CTION	4
1	11	Purpose		4
1	1.2	Content a	and Organization	4
1	1.3	Applicati	ion Access	
1	1.4	DRRS A	utomated Email Notification	
1	1.5	DRRS U	ser Roles	
2]	DRRS FUN	CTIONALITY OVERVIEW	
2	2.1	Locations	s	
2	2.2	Registrati	ions	
2	2.3	Applicati	ion Layout	
		2.3.1.1	Role-based tab views	
		2.3.1.2	Column Headers	
		2.3.1.3	Search Parameters	
		2.3.1.4	Sorting and Filtering Locations and Registrations	
2	2.4	Actions		
		2.4.1.1	DRP Actions	
		2.4.1.2	UDC and LSE Actions	
2	2.5	Location	and Registration Status Lifecycle	
		2.5.1.1	Location Status Lifecycle Process Flow	
		2.5.1.2	Registration Status Lifecycle Process Flow	
3	(CREATING	G AND REGISTERING LOCATIONS AND RESOURCE:	
	3.1	Create a l	Location	
		3.1.1 Edi	it	
		3.1.2 Cop	ру	
		3.1.3 Del	lete	
		3.1.4 Dup	plication Check	

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRATION USER GUIDE		Fi	nal

	3.1.5	Defend
	3.1.6	Withdraw
	3.1.7	End Date
3.	2 Lo 3.2.1	65 LSE Review
	3.2.2	UDC Review
	3.2.3	Invalid Review Disputed Location
	3.2.4	LSE/UDC Review notification
	3.2.5	Application Programming Interface (API) Location Management76
3.	3 Cr	reating a Registration
4	REGI	ISTRATION MANAGEMENT
4.	1 DI 4.1.1	RRS User Interface (UI) Registration Management
	4.1.2	Copy
	4.1.3	Terminate
	4.1.4	Delete
4.	2 Ap	pplication Programming Interface (API) Registration and Resource Management
5	HELI	PFUL LINKS
6	REVI	ISION HISTORY
APP	ENDIX	A – THREE (3) POSSIBLE CASES OF DEFEND PROCESS
APP	ENDIX	B – EDITABLE FIELD(S) BY LOCATIONS STATUS
APP	ENDIX	C - CUSTOMER MARKET RESULTS INTERFACE (CMRI)
v	iewing T	Fotal Expected Energy (TEE) 116



1 Introduction

1.1 Purpose

The Demand Response Registration System (DRRS) is the application developed to enable wholesale market participation by end-use customers, referred to as locations, under the PDR and RDRR participation models. The DRRS application facilitates the registration process which identifies the end-use customers providing load curtailment in response to a CAISO PDR/RDRR dispatch instruction. The system also performs a series of process controls including data validation, duplication check and review process by LSEs and UDCs, to ensure the uniquely identified end-use customer is being registered appropriately and not participating in overlapping registrations or retail programs.

The DRRS application provides a robust User Interface (UI) and Application Program Interface (API) to facilitate a streamlined registration process for all DRRS user roles. This includes an API for uploading bulk location data to accommodate the input of volumes of locations participating, in aggregate, as PDR/RDRRs. Additional DRRS APIs are provided for the creation, modification, review and termination of locations and their registrations.

Business process will not be covered in this User Guide, please refer to Business Practice Manual (BPM) for Demand Response.

1.2 Content and Organization

The purpose of the guide is to instruct users how to use the features of the Demand Response Registration System (DRRS) User Interface. This guide describes the DRRS application layout, as well as the steps for creating Locations and Registration.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Other applications that may be applicable, and utilized by Scheduling Coordinator who participates in Demand Response will **not** be discussed in this User Guide, please refer to its respective manuals/documentations. All Technical documentations are located on the CAISO website at: http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx

- <u>Market Results Interface</u> Settlements (MRI-S) application access is required to submit performance and load values to MRI-S by the Scheduling Coordinator (SC).
- <u>Master File User Interface</u> This application is used to submit RDT updates, and maybe be used to generate reports such as:
 - o Generator RDT Report
 - o Use Limit Plan (ULPDT) Report
 - Resources with Approved Changes
- The <u>Customer Interface for Resource Adequacy (CIRA)</u> application is used to manage ISO's resource adequacy needs by the Scheduling Coordinator. This application allows the SC to submit their Net Qualifying Capacity (NQC), annual and monthly Supply and Resource Adequacy (RA) Plans. This application also provides the capability for a SC and a LSE to provide generic and flexible RA capacity information to the ISO using their Supply and RA Plans.
- <u>Customer Market Results Interface (CMRI)</u> This Application may be used to generate the following reports. <u>Appendix D</u> provide screenshots of viewing binding schedules and awards for Demand Response.
 - Total Expected Energy (TEE)
 - Real-time Unit Commitment (RTUC)
 - Fifteen Minute Market (FMM).
- <u>Scheduling Infrastructure and Business Rules (SIBR)</u> SIBR provides a SC interface to submit Bids and Inter-SC Trades (IST). For Demand Response, SIBR will utilize the bid dispatchable options registered in the Master File.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRATION USER GUIDE		Fi	nal

• <u>Automated Dispatch System (ADS)</u> - ADS user interface displays commitment instructions, energy instructions, and ancillary services awards from the real-time market application. The energy instructions displays 5 minute dispatch operating target (DOT) for Demand Response.

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Definitions

The following defined terms and acronyms are used throughout this document:

Terms	Definition
AARF	Application Access Request Form - method used to provision access to users of the DRS
Address information	The physical address of the location.
ADS	Automated Dispatch System
AIM	Access Identity Management (AIM) application. The application provides registered UAAs with the ability to view application-level access for all of their organization's users as well as any users from other organizations who have access to their resources (endorsed users).
AIMS	Access and Identity Management System – application used to provision access to users of the DRRS
API	Application User Interface. Allows users to upload bulk location data to accommodate the input of the volume of locations participating in the Demand Response Program.
Custom Resource ID	A unique resource ID requested by the DRP, modeled with their specified nodal locations and associated generation distribution factors (GDF).
Customer	The name of the customer that user assigned during the registration process.
DLA Resource	The DLAP in which the Locations of the Registration resides.
DLAP	Default Load Adjustment Point



4.7

DRP	Demand Response Provider
DRP SC	Demand Response Provider Scheduling Coordinator who are responsible for submitting bids into the market and meter data to the MRI-S.
DRRS	Demand Response Registration System. Allows users to create large volumes of locations and aggregate locations for participation in the ISO's demand response program.
DRRS UI	Demand Response Registration System User Interface
End Date	End date of registration. The end date when the Registration will become inactive.
Endorsed User	Individual(s) outside of the company that is requesting for application access.
Load Reduction	The total Load Reduction capacity per location.
Location name	Identifies the location/site for the user.
Locations	Physical location of the demand response entity. This includes the customer data such as the service account number, physical service location, and curtailable load amounts.
LSE	Load Serving Entity
New Custom PDR	CAISO will develop a new resource ID for this registration (custom).
PDR	Proxy Demand Resource
Pnode	Pricing Node - A single network Node or subset of network Nodes where a physical injection or withdrawal is modeled and for which a Locational Marginal Price is calculated and used for financial settlements.
РОС	Point of Contact now referred to as UAA.



Final

Pre-Defined Resource ID	A pre-established resource ID pre-modeled in each SubLAP based on CAISO specifications and available in the MasterFile for DRP to request assignment to a registration.
RDRR	Reliability Demand Response Resource
RegID	The registration ID number assigned to the registration by the Demand Response System; this ID is assigned by the DRRS in sequential order.
Registration	Comprised of a single location or an aggregation of many locations. Submitted by the DRP to the LSE and UDC for review and CAISO for approval. Meter data is also submitted at the registration level for the baseline calculation prior to the market participation.
Resource ID	A unique ID used for participation in the ISO wholesale markets (scheduling/bidding and settlements). Assigned by the CAISO during the registration process in the Demand Response Registration System. Resource specific information for the ID resides in the ISO Master File.
SAN	Service Account Number. Unique number assigned to a location by the UDC. Dashes or any other special characters are not allowed for the location SAN.
Start Date	Start date of the registration (cannot overlap with existing registration for the same location).
SubLAP	One of the 23 SubLAP locations of CAISO. The SubLAP in which all the locations within the registration reside.
UAA	User Access Administrator formerly known as the POC.
UDC	Utility Distribution Company. The UDC in which the Locations in the Registration reside and is part of the approval process.
UDC Account #	This is the account number a DRP receives from a UDC for billing.

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRATION USER GUIDE		Fi	nal

1.3 Application Access

This user guide will address the Demand Response Registration System (DRRS) application. DRRS access is required for a DRP to submit locations, registration, and resource management processes in order to establish a PDR/RDRR resource ID for market participation.

DRRS access is required for LSEs and UDCs to manage the review process of locations submitted by the DRP.

Access to **DRRS** can be obtained through the organization's **User Access Administrator (UAA)** via the **Access Identity Management (AIM)** application.

The **UAA** is the designated User Access Administrator for the organization that is managing their user's application access. More information on how to become a UAA can be found at http://www.caiso.com/participate/Pages/UserAccessAdministratorGuide/Default.aspx

The **AIM** User Interface (UI) is an application that provides registered UAA with the ability to view application-level access for all of their organization's users as well as any users from other organizations who have access to their resources (Endorsed users). More information can be found at http://www.caiso.com/Documents/AccessandIdentityManagement_AIM_UserGuide.pdf

The **AARF (Application Access Request Form)** is no longer used by the UAAs to submit application access. All access request shall be performed through the AIM UI application.

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

To request **DRRS** application access, the following shall occur:

In AIM, for existing using user within the organization, the UAA shall:

- Go to the Access Request tab
- Click on the pencil icon
- Click on the **New Row** button
- Type in a brief description
- Click Update
- Go to the Select Users tab
- Select the user from the Available Users column and click Add to move them over to the Selected Users column on the right side
- Go to the Select Application and Roles tab
- Select the appropriate roles from the **Available Applications/Roles** column.
 - For the DRP role, select EXTERNAL DRP
 - For the **LSE role**, select *EXTERNAL LSE*
 - For the **UDC role**, select *EXTERNAL UDC*
- o Be sure to update the applicable Action, Application, Role, Environment, and Entity
- Click **Update** to save the roles.
- Next, click the green **Preview** button, which will open a submission window
- Click **Submit** to finalize the request.

In the order to provision user for the "EXTERNAL LSE" or EXTERNAL UDC" role for DRRS in AIM, the UAA must have the following contract types in the AIM profile.

- DR LSE (Demand Response Load Serving Entity)
- DR UDC (Demand Response Utility Distribution Company)

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

If the UAA does not have this contract type, they will need to submit a new UAA Agreement form to add these contract type into their UAA profile.

Below is a screenshot of the contract type from the UAA Agreement form. Please check the Demand response box and list the LSE and or UDC ID in the corresponding field.

	Basic UAA (Market Participant Portal only)
	Scheduling Coordinator Agreement (for SCs in the physical market)
	Convergence Bidding Agreement (for SCs in the financial market only)
	Congestion Revenue Rights Entity Agreement
	CIRA only (for Load Serving Entities to submit RA plans)
	CIRA only (for Local Regulatory Authorities)
	Demand Response
1	EIM Entity Scheduling Coordinator
	EIM Participating Resource Scheduling Coordinator
	Adjacent Reliability Coordinator
	Reliability Coordinator (RC) Customer Transmission Operator
	Reliability Coordinator (RC) Customer Balancing Authority
	Transmission Owner
	RIMS for Interconnection Customers
	(Enter only project codes. Do not enter resource IDs. Please attach project code confirmation email for new project if available. This will help to expedite the validation process.)

Submit a request for both the production and market simulation/map stage environments is recommended.

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

1.4 DRRS Automated Email Notification

The DRP shall send contact information to PDR@caiso.com. A common email distribution list is **required**. The Contact(s) will receive automated email notifications from DRRS of Location and/or Registration status change and when the **defense** process has been initiated for an existing location, in an active or inactive status, that need the incumbent DRP's attention.

First Name	Last Name	Common Email Address (this is a group email distribution list will be used for DRRS email notifications)	USER_IDs (from AIM)	Email Address	Org. Name	DRP ID



1.5 DRRS User Roles

There are three types of user roles for this application.

User Role	Entity	Read Access Only	Read Write Access	Brief Description of the entity (DRP, LSE, UDC, ISO)
APP_DRRS_DRP_EXT	DRP		Х	DRP can create, modify and end-date locations and create, modify and terminate registrations.
APP_DRRS_UDC_EXT	UDC	Х		UDC can review and submit comment(s) on location info and view registrations containing those locations
APP_DRRS_LSE_EXT	LSE	Х		LSE can review and submit comment(s) on location info and view registrations containing those locations.

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2 DRRS Functionality Overview

In DRRS, there are two functionality tabs: (1) Locations, (2) Registrations

- 1. Location tab Allows the DRP to Create, Copy, Delete, Defend, Withdraw, Edit, End Date and Register locations. The UDC and LSE can **review** locations and registrations in which associated locations are assigned.
- 2. **Registration** tab Allows the DRP to Create, Edit, Copy, Terminate, and Delete registrations. The UDC and LSE can view registrations and location(s) associated to the registration.

2.1 Locations

- Require effective dates (Start Date and End Date) which provides flexibility in creating and processing registrations. (see example in figure 1 below)
- Start Date and End Dates cannot be prior dates.
- Can be created individually via UI or in bulk using web service API.
- Cannot be added or removed from a Confirmed registration.
- Once submitted, can be end-dated or edited, but not deleted.
- Provides DRP control in their use in creating registrations
- The green line allows for locations to move in and out of registrations without additional UDC or LSE review. The red arrows for locations indicate that locations requires re-review by the UDC and LSE.

Figure 1





4.7

11/7/2019

2.2 Registrations

- Effective dates are validated against location effective dates.
- Multiple registrations can be created within location effective dates (see example in figure 2 below)
- Can be created using web service API or UI.
- Can be created when reviewed locations are available.
 - Includes location validations that may result in processing errors (i.e. location being used in another registration during effective dates)
- May be affected by edits made to location attributes.
- Once confirmed, can be terminated but not deleted.
- Effective dates determine associated Resource effective dates.
- One Registration to one Resource relationship (1:1) maintained



Figure 2

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2.3 Application Layout

2.3.1.1 Role-based tab views

In DRRS, there are three (3) different role-based tab views. The views that are accessible to the users will be determined by the number of roles provisioned on the digital CMA certificate.

- 1. **DRP View** This tab will be visible to users that log in with the DRP role. Users can have multiple views if the users have multiple roles.
- 2. UDC View This tab will be visible to users that log in with the UDC role.
- 3. **LSE View** This tab will be visible to users that log in with the LSE role.



To access the Location or Registration functionality, users can place their cursor over the applicable tab(s) (DRP VIEW, UDC VIEW or LSE VIEW). The Locations and Registration screens are accessible under the corresponding views.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

DRP VIEW, UDC VIEW or LSE VIEW selection shows all the locations/ assigned to that entities ID or filtered view showing a subset of that entities locations.

Example: LSE VIEW Locations

	🍣 California ISO 🛛 Demand Response Registration System 😱 🖡										++ 8
<		Locations	>								
		LOC Name	SAN	DRP [ALL]	V UDC	[ALL] 🔽 L	SE LTE	EST	SUBLAP [AL	L] V App	ly Reset
	Review										
	📩 🍸 🎽 🚺	1 - 10 of 75 🕨									
	Select Loc Id	Name		SAN		DRP	UDC	LSE	SUBLAP	PNODE	Start Date
	541021	Test		123456		DTEST	UTEST	LTEST	SLAP_TEST	DALYCTY_1_N001	06/01/2016

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Additionally, DRP VIEW, UDC VIEW or LSE VIEW will show all registrations comprised of locations assigned to that entities ID or filtered view showing a subset of locations

Example: LSE VIEW Registrations

	n	alifor	nia IS	50	Dem	and Res	spon	se Re	gist
	V UDC VIE VIEW Re	W LSE V	IEW						
Reg Id [Reg Name		DRP [(ALL) 🔽 UDC	[ALL] 🔽 LSE	LTEST	SUBLAP	[ALL]
Regis	strations								
\$ T.	🎽 🔚 🔳	1 -	10 of 44) I (•	🕘				
Reg Id	Name					DRP	UDC	LSE	SUBLAP
541021	Test					DTEST	UTEST L	TEST SLA	P_TEST

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2.3.1.2 Column Headers

In the *Locations* tab, users can choose what columns they would like visible at any time. These options include; Loc Id, Loc Name, SAN, DRP ID, UDC ID, LSE ID, SUBLAP, PNODE, Start Date, End Date, Status, Updated By and Updated Date.

DRP VIEW	
DRP VIEW	Locations
	LOC Name
Create	Copy Delet
Locations	
🖒 🍸 🛎 🛐	🔰 🖣 1 - 30 of
Select Loc Id	
470042	✓ Select
470041	✓ Loc Id
469822	✓ Name
470144	SAN SAN
469883	
470025	
470082	
470181	
470201	Start Date
470244	End Date
470245	✓ Status
470281	Updated By
470284	Dipolated Date
470285	OK Cancel
470301	

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

In the *Registrations* tab, users can choose what columns they would like visible at any time. These options include; Reg Id, Reg Name, DRP ID, UDC ID, LSE ID, SUBLAP, DLAP, DRP SC, Resource Id, Resource Type, Program, Baseline Method, Start Date, End Date, Status, Updated By and Updated Date.



Note: Starting ESDER 3A go-live, the LSE and DLAP columns will continue to be viewable; the system will store the old records, but new records with a start date of 11/13/2019 and forward will be null.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2.3.1.3 Search Parameters

Locations: Allows users to search using any of the available following criteria: (1) LOC ID, (2) LOC Name (3) SAN, (4) DRP (5) UDC, (6) LSE, (7) SUBLAP.

DRP VIEW	Locations									
LOCID	LOC Name	SAN	DRP [ALL]	VUDC [ALL] V	LSE [ALL]	SUBLAP [ALL] 🗸 App	ly Reset		
Create	Copy Delete	Defend	Withdraw E	dit End Date	Register					
Locations										
🏂 🕇 🦉 🗄	◀ ◀ 1 - 30 of	64	_ 🕘							
Select Loc Id 🔻	Name		SAN	DRP	UDC LS	SE SUBLAP	PNODE	Start Date	End Date	Status
									31	31 [ALL] 🗸

Registrations: Allows users to search using the following criteria: (1) Reg ID, (2) Reg Name (3) DRP ID (4) UDC ID, (5) LSE ID, (6) SUBLAP.



	_	Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2.3.1.4 Sorting and Filtering Locations and Registrations

Sorting from ascending to descending by clicking on any of the column headers.

DRP VIEW												
DRP VIEW	Locations											
LOC ID	LOC Name	SAN	DRP [ALL] V	JDC [ALL]	LSE [AL	.L] 🗸	SUBLAP [ALL]	V	Apply Reset			
Create	Copy Delete	Defend	Withdraw Edit	End Date	Regist	ter						
Locations												
🏂 🍸 🕌 🖾	◀ ◀ 1 - 30 of 64] 🕘									
Select Loc Id	Name		SAN	DRP	A UDC	LSE	SUBLAP	PNODE		Start Date	End Date	Status
541081	Indu Demo location 1		indusan123	Summer of the local division of the local di	-		A DESCRIPTION OF			05/23/2016	05/31/2017	Active

Multiple column headers can be sorted either ascending or descending.

DRP VIEW									
DRP VIEW	Registrations								
Reg Id	Reg Name		RP [ALL]	VDC [ALL]	✓ LSE	(ALL) 🔽 SUI	BLAP [ALL]	~	Apply R
Create	Edit	Сору	Terminate	Delete					
Registrati	ons								
🖒 🚺 🕌 🧮	-	10 of 32 🕨		_ 🕘		\frown			
Select Regild 🚽	Name				DI		LSE S	SUBLAP	DL/IP

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Users can also use the inline filtering option \mathbb{Y} . The inline filter works as a toggle. Click the icon to filter data based on the content of a particular column. Press Enter after inputting the filter criteria. Please note that wildcard symbols can be used in this column, but are not necessary.

DRP VIEW					
DRP VIEW	Registrations				
Reg Id	Reg Name		DRP [ALL]	VDC [ALL]	✓ LSE [A
Create	Edit	Сору	Terminate	Delete	
Registrati	ions				
🔓 🏹 🎒 🖾	€ € 1 -	10 of 32 🕨		_ 🕘	
Select Reg Id	Name				DRF

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2.4 Actions

In DRRS, the action buttons are role-based. Actions provided are determined by the role provisioned for the user. **2.4.1.1** *DRP Actions*

Locations: Create, Copy, Delete, Defend, Withdraw, Edit, End Date, Register

DRP VIEW UDC VIEW LSE VIEW		
DRP VIEW Locations		
LOC ID LOC Name	SAN DRP	[ALL] ▼ UDC [ALL] ▼ LSE [ALL] ▼
Create Copy De	lete Defend Withdraw	Edit End Date Register

Registrations: Create. Edit, Copy, Terminate, Delete

DRP VIEW UDC VIEW LSE VIEW
DRP VIEW Registrations
Reg Id Reg Name DRP [ALL] V UDC [ALL] V LSE [ALL] V SUBLAP [ALL]
Create Edit Copy Terminate Delete

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Under the **DRP** action, the **Create** button is used when a location is being created for the first time. When DRP selects the **Create** button, the "Create New Location" view will appear as shown in the figure below. All required fields will be designated with an asterisk.

eate New Locat	ion				
Name*			Address 1*		
SAN*			Address 2		
tart Date*	31		City*		
End Date*	31		State*	California	~
DRP*		~	Zip*		
UDC*		~	Address Type		
LSE*		~			
SUBLAP*		~			
PNODE		~			

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

DRP Copy provides the user the ability to copy a previously created location. The user must first select the location to be copied then the **Copy** button. The copied location information will be presented and all fields will be editable. This action is provided for cases where the user is creating multiple locations with the same key fields, reducing the effort in having to create each independently.

DRP VIEW	Update fields			
Create New I	Location			
Name*	USATesting		Address 1	First Street
SAN*	2016531		Address 2	
Start Date*	05/12/2016 31		City*	Folsom
End Date*	05/24/2017 31		State*	California
DRP*	(IPV)		Zip*	33545
UDC*	(area)	(V)	Address Type	
LSE*	.Put	v		
SUBLAP*	8.47,752.7	(V		Save location
PNODE	COLUMN, 1, MILL	w		Save location
	C	ancel	Save	Submit

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

DRP DELETE action is usable when a location has been previously created. **DELETE** is only actionable for certain location statuses.

	LSE VIEW			
DRP VIEW Confirm	n Delete Locations			
Locations To B	e Deleted			
	1 of 1 🕨	🕗		
ID Name	SAN DRP	UDC LSE	SUBLAP	
DATE OF				
Are you sure you want to Delete above Locations?				
Cancel Con	tinue			

DRP Defend is actionable by a DRP that has been notified by another DRP, referred to as the prospective DRP, that the defense process has been initiated for an existing location, in an active or inactive status, of theirs.

To defend a location, the DRP for the existing location, referred to as the incumbent DRP, must first select the location then the **Defend** button.





	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

The incumbent DRP will then have an opportunity to respond to the comments submitted by the prospective DRP. In the defend locations screen, the incumbent DRP has the ability to either accept or reject the Defend request. **DRP Withdraw** action is usable when a location has been previously created and submitted for review but not completed the review process. To withdraw a location, the user must first select the location then the **Withdraw** button. The DRP will be required to provide contact information prior to submitting the location to the defend process.

DRP VIEV	DRP VIEW UDC VIEW LSE VIEW ADMINISTRATION									
DRP	VIEW	Confirm Withdraw L	ocations							
Loc	ations	To Be Withd	rawn							
n 🖞	_ I4_ 4	1 - 1 of 1		🕘						
ID	Name		SAN	DRP	UDC	LSE	SUBLAP	PNODE Start Date	End Date	Location Status
(1993)	1918	1918 2.18,752	10001.1.000	Dates	1000	Laure	BAR, PRO	09/01/2016	09/01/2017	Pending
Are yo	u sure y	ou want to With	draw above L	ocations	?					
Ca	ncel	Continue								

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

DRP Edit action is usable when a location has been previously created. To edit a location, the user must first select the location then the **Edit** button. The location information will be presented to the user with available fields that are editable. Editable fields will be dependent on the locations status.

DRP VIEW UDC VIEW LSE VIEW						
DRP VIEW Locations						
LOC ID LOC Name	SAN	DRP [ALL]	VDC [[ALL] 🗸 I	LSE [ALL]	
Create Copy Delete	Defend With	draw Ed	lit E	End Date	Registe	r
Locations						
🚡 🍸 🕌 🔚 📢 🖣 1 - 30 of 63)) I 🛄 🕘					
Select Loc Id 🔍 Name		SAN		DRP	UDC	LSE
✓ 40941 LKTest		111111			1918	100
	DRP VIEW UDC VIEW LSE VI	EW				
	Edit Location					
	LOC ID 540941 SAN* 111111		PNODE Address 1*	test	13	
	NAME* LKTest		Address 2			
	Start Date* 05/12/2016		City*	Folsom		

End Date* 05/24/2017

DRP* DPGE

UDC*

LSE*

10.40 Ptc.P

SUBLAP*

30
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 $\mathbf{\sim}$

Cancel

State* California

Zip* 33545

Status Active

Address Type

Update

 \checkmark

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

DRP End Date action is actionable only under certain location statuses. NOTE: ending a location may impact the effective dates of a registration. To End Date a location, the user must first select the location then the **End Date** button. The DRP will be required to confirm that they want to End Date the location prior to it being processed. Using the **End Date** action does not allow the DRP to select an end date but the end date will correspond with the date that the action was taken. The DRP must use the **Edit** action to End Date a location for a different date.

DRP VIEW	DRP VIEW UDC VIEW LSE VIEW								
DRP VIEW	DRP VIEW Confirm End Date Locations								
Locatio	Locations To Be End Dated								
🗄 🍸 🛛	[4 1 - 1	of 1 🕨 🕅] 🕘 👘					
ID N	lame	SAN	DRP	UDC	LSE	SUBLAP	PNODE Start Date	End Date	Location Status
10000	and the second	1.0	-	-	-		05/04/2016	06/03/2016	Inactive
_									
Are you sure you want to End Date above Locations?									
Cancel	Cancel Continue								

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2.4.1.2 UDC and LSE Actions

Locations: Review

DRP VIEW UDC VIEW LSE VIEW						
UDC VIEW	Locations					
	LOC Name	SAN	DRP [ALL]	VDC [ALL]	✓ LSE [ALL]	🗸 su
Review						
Locations			_			

Registrations: View Location

	DC VIEW LSE VIEW						
UDC VIEW	Registrations						
Reg Id	Reg Name	DRP	[ALL] 🗸 U	DC [ALL]	✓ LSE	[ALL] 🔽 SUB	LAP [ALL]
Registrat	ions						
📩 🍸 🕌 🖪	◀ ◀ 1 - 10 (of 44 🕨 🔰	(
Reg Id	Name					DRP	UDC
541082							
541082	Indu demo registrat	ion		-		-	
Locations							
🏝 🍸 🕌							
Loc Id S	SAN	Resource Id		Start date	End date	Distribution Factor	
5 (P18) (P18) (AR SHARE SHOLLOW			05/23/2016	05/31/2017		View Location

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2.5 Location and Registration Status Lifecycle

DRRS Status				
Location	Registration			
 New Processing Pending Inactive Active Active Withdrawn End-Dated Duplicate Disputed 	 New Pending Confirmed Terminated 			

DRRS	Statuses	Description
	New	Location will be set to this status when it is created and saved but not yet submitted for review.
Location	Processing	Location will be set to this status while being validated when it is submitted for review.



Pending	Location will be set to this status when it is submitted for review and validation has successfully completed. This status indicated that the review process has been initiated for the location.
Inactive	Location will be set to this status when it has successfully completed the review process but is not part of a registration that is in a 'pending" or "confirmed" status.
Active	Location will be set to this status when it is part of a registration that is in a "pending" or "confirmed" status.
Withdrawn	Location will be set to this status when it is Withdrawn while in the pending, duplicate or disputed statuses.
Duplicate	Location will be set to this status when, during the submittal validation, the location SAN for the same UDC is found to be used by another DRP.
Disputed Location will be set to this status when it has NOT succompleted the LSE/UDC review process. Review process resulted in invalidation findings.	
End Dated	Location will be set to this status when the effective end date of the location is prior to the current date. End dated locations are logically equivalent to deleted records.



DEMAND RESPONSE REGISTRATION USER GUIDE

Final

	New	Registration will be set to this status when it has been created but NOT yet submitted.
	Pending	Registration will be set to this status when it has been submitted and validation is in progress.
Registration	Confirmed	Registration will be set to this status when it has been submitted and validation has successfully completed.
	Terminated	Registration will be set to this status when the effective end date of the registration is prior to the current date. End dated registrations are logically equivalent to deleted records.



DEMAND RESPONSE REGISTRATION USER GUIDE

Registration				
Status	Registration Status Description	Fields that can be edited		
New	Created but NOT yet submitted.	All fields		
Pending	Submitted and validation is in progress	Edit option not available, can only Terminate		
Confirmed	Submitted and validation has successfully completed	Name, Start Date, End Date and Resource (if applicable)		
Terminated	Effective end date of the registration is prior to the current date. End dated registrations are logically equivalent to deleted records.	Cannot be Edited, will receive an error message if attempted through UI or rejected if submitted with API		
炎 California ISO		Version No. 4.7 Effective Date	4.7	
--------------------------	------------------	--------------------------------------	-----------	
	External Use		11/7/2019	
DEMAND RESPONSE REGISTRA	ATION USER GUIDE	Fi	nal	

2.5.1.1 Location Status Lifecycle Process Flow¹



¹ Draft as of 8/1/2016, updates in process.

炎 California ISO		Version No. Effective Date	4.7
	External Use		11/7/2019
DEMAND RESPONSE REGISTRATION USER GUIDE		Fi	nal

2.5.1.2 Registration Status Lifecycle Process Flow²



² Draft as of 9/24/2018, updates in process.

🍣 California ISO		Version No. 4.7 Effective Date 11/7/2019	4.7
	External Use		11/7/2019
DEMAND RESPONSE REGISTRATION USER GUIDE		Fi	nal

3 Creating and Registering Locations and Resource:

For the DRP/SC, the DRRS facilitates three registration process components: manage locations, manage registrations, and manage resources. After the DRP receives approvals for Baseline methodologies, the process begins with creating the location(s) information into the DRRS, the LSE/UDC reviews and approves the location(s), DRP/SC creates registrations from one or many reviewed locations, registration is in "Confirmed" status, and the DRP/SC submits Generator Resource Data Template (GRDT) to be added to Master File.

For the UDC and the LSE, the DRRS facilitates a review process as part of the DRP's management of locations. Once the DRP submits a location for review, the DRRS will perform data validation including a duplication check for that location. If the data is valid then the UDC and LSE is notified that there is a location ready for review. The UDC and LSE have ten (10) business days to complete their review and either submit with or without findings. If the ten (10) business days to complete their review notification, the DRRS will auto approve the location.

3.1 Create a Location

The registration process builds from location to registration to resource management.

The DRRS provides Location management which includes the creation of locations by the DRP, a duplication check by the DRRS and an LSE and UDC review of the location to validate its use by the DRP for the established effective dates. The DRRS provides a robust UI and API's for the DRP(s), LSE(s) and UDC(s) use in performing their location management tasks. System generated email notifications are also generated as alerts to activities occurring that may require their attention.

		Version No.	4.7
SO California	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	ATION USER GUIDE	Fi	nal

DRRS User Interface (UI) Location Management

To **Create** a new location, DRP(s) will click on the **Create** button under their Locations View.

DRP VIEW UPC VIEW LSE VIEW ADMINISTRATION			
DRP VIEW Locations			
LOC ID LOC Name SAN	DRP	[ALL] V LSE [ALL] V SUBLAP [ALL]	Apply Reset
Create Copy Delete Defend	Withdraw Edit	End Date Register	
Locations			
â 📲 🖪			
Select Loc ID Name	SAN	DRP UDC LSE SUBLAP PNODE	Start Date End Date Status

炎 California ISO		Version No. Effective Date	4.7
	External Use		11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

Next, enter the location information. The required fields are indicated by the asterisk (*) signs. Fill out all required fields and any optional fields as needed.

DRP VIEW	Create New Locations		
Create New L	ocation		
Name*		Address 1*	
SAN*		Address 2	
Start Date*	31	City*	
End Date*	31	State*	California
DRP*	~	Zip*	
UDC*	×	Address Type	
LSE*			
SUBLAP*			
PNODE			
	Const		Proteom 14

- **Name** DRP chosen name of the designated location.
- **SAN** Service Account Number unique identifier of the location often assigned by the UDC.
- **Start Date** The Start Date cannot be a prior date or overlap with an existing Active location with same SAN and UDC assignment.
- **End Date** The End Date cannot be a prior date or overlap with an existing Active location with same SAN and UDC assignment.
- **DRP** Designated Demand Response Provider.
- **UDC** Designated Utility Distribution Company
- LSE Designated Load Serving Entity

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		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

SubLAP The SubLAP in which all the locations within the registration reside SubLAP are determined by the Start/End Dates.

PNODE The Pnode at which the location load is modeled at. Required field if planning to use the location in a Registration selecting a Custom Resource ID.

Address, City State, Zip, Type

The address of the location and type of location (e.g. commercial, residential) for DRP identification purposes

Options within Create New Location include:

Cancel - cancels the creation of a location.

- Save creates a new location and location ID for it.
- Submit creates a new location and location ID for it and submits it to the UDC/LSE review process. Submits a previously Saved and Edited location to the UDC/LSE review process

Once the new location information has been saved or submitted, a new Location ID (LOC ID) will be generated.

When saved, the locations **Status** will be displayed as *New*.

Start Date	End Date	Status
08/01/2016	12/31/2017	New

炎 California ISO		Version No. Effective Date	4.7
	External Use		11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

When submitted, the locations **Status** will be displayed as *pending*.

Start Date	End Date	Status
	31	31 Pending
07/15/2016	01/15/2017	Pending

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

3.1.1 Edit

New Location

To **Edit** a **New** location, DRP(s) must first select a location with a **Status** of **New** then click on the **Edit** button under their Locations View.

		1						
DRP VIEW	Locations							
	LOC Name SAN	DRP E AL	L] 🔽 LSE [ALL]	SUBLAP [ALL]	✓ Apply Reset			
Create	Copy Delete Defend	Withdraw Edit End	d Date Register]				
Locations								
📩 🍸 🕌 🔚								_
Select Loc ID	Name	SAN	DRP UDC	LSE SUBLAP	PNODE	Start Date	End Date	Status
							31	11 [ALL] 🗸
5425.7	Pending_Test_Reject	PTR12345	Date of the	1708 5.47,70		09/01/2016	09/30/2016	New

		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	ATION USER GUIDE	Fi	nal	

In the **Edit** location view, any changes can be made to the location without it having to be end dated. In this example, the LSEID is changed and the location is updated by selecting the **Update** option.

DRP VIEW	Edit Location		
Edit Location			
LOC ID	542527	PNODE	
SAN*	PTR12345	Address 1*	South Elm
NAME*	Pending_Test_Reject	Address 2	
Start Date*	09/01/2016 31	City*	San Jose
End Date*	09/30/2016 31	State*	California
DRP*	(M)	Zip*	95101
UDC*		Address Type	
LSE*) · · · ·	Status	New
SUBLAP*	(a.ar, Part)		
	Cancel	Update S	submit

A message indicates that the **Update** was successful.



	_	Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

The Update is reflected for that Location without a Loc ID change. This type of modification is not available once a location has been submitted for review.

	Locations									
	📩 🍸 🖺 🖾									
	Select Loc ID Vame	SAN	DRP	UDC	LSE	SUBLAP	PNODE	Start Date	End Date	Status
\subseteq	542527 Bending_Test_Reject	\bigcirc	-					09/01/2016	09/30/2016	New

Refer to <u>Appendix B</u> for Editable fields by Location status.

Pending Location

A **Pending** Location has successfully completed the submittal validation and is in the LSE and UDC review. A location in the **Pending** status cannot be edited and if an attempt is made to Edit a Pending location an error message will be received. The **Pending** locations only allows for end dating of the location. The DRP must select the End Date and confirm that the selected location is to be End Dated.

		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal	

Loca	Locations To Be End Dated											
n T	◀ ◀ 1 - 1 of 1 ▶ ▶	🕘										
ID	Name	SAN	DRP	UDC	LSE	SUBLAP	PNODE Start Date	End Date	Location Status			
541283	USA Test FRQ196 DRPdefendcomment	Dates					08/21/2017	09/16/2017	Pending			
Are you	sure you want to End Date above I	Locations	?									
Can	Cancel Continue											

Inactive Location

An **Inactive** Location has successfully completed the LSE and UDC review process, but is not part of a registration that is in Pending or Confirmed status. Editing to **Inactive** locations is limited to the location name, start date, end date and address fields. All other fields will be unavailable for modification and update.



Edit Location				
LOC ID	542121		PNODE	DE MACINO A MARIE V
SAN*	TestLK		Address 1*	test
NAME*	TestLK		Address 2	
Start Date*	07/28/2016 31		City*	test
End Date*	07/31/2017 31		State*	California 🗸
DRP*		Y	Zip*	95639
UDC ¹		_	Address Type	
LSE ¹			Status	Inactive
SUBLAP'	1.40,94.0			
		Cancel	Update]

< California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

Active Location

An **Active** Location is part of a registration that is in Pending or Confirmed status. Editing of **Active** locations is limited to the location name and address fields. All other fields will be unavailable for modification and update.

Edit Location			
LOC ID	542161	PNODE	NIMERO & NORD
SAN*	TestLK1	Address 1*	test
NAME*	TestLK1	Address 2	
Start Date*	07/27/2017	City*	test
End Date*	07/31/2019	State*	California
DRP*	inesi .	Zip*	95639
UDC*		Address Type	
LSE*		Status	Active
SUBLAP*	8.40 PU.P		
		Cancel Update]

California ISO		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

If editing the Location end date that is currently in an "Active" status, the corresponding Registration, and the rest of the Location(s) that are also part of that Registration may be affected. The Location end date can only be contracted until the end date of the registration. System will allow user to edit Location within the Registration start and end date <u>if</u> the Registration <u>start date</u> is in the <u>future</u>. If the Location that are being ended is part of a Registration that contains more than one (1) Locations, the rest of the Locations will no longer be linked to that Registration once the Registration expired, and the Locations' status will be changed from "Active" to "Inactive".

Example 1.

- User end-date a location with an "Active" status.
- Location End-Date is in the future and within the Registration period.

REG ID#249719, Resource ID = RESA.

1. On 10/28/2019: USER1 created REG ID#249719, Resource ID = RESA for 11/15/2019 through 11/30/2021. REG ID#249719 contains more than 1 locations.

C	reate	Edit Copy	Terminate Delete													
Rec	gistratio	ons														
24	/ 🕌 🖪															Rows 25
Select	t Reg ID	Name		DRP	JDC	LSE S	UBLAP	DLAP	DRP SC	Resource ID	Resource Type	Program	Baseline Method	Start Date	End Date	Status
		REG6-PSOK													31	31
	249719	REG6-PSOK									Pre Defined	Proxy DR	Day Matching 10/10	11/15/2019	11/30/2021	Confirmed
Loc	cations															
Ê	1 🛃 🔚								Row	/S 25 ∨						
Loc IE)	SAN	Resource ID	Start date	End date	Distribution	Factor	Control Treatr Group? Group	ment p?	_						
24971	6	LOC16-test		11/15/2019	12/31/2029				View	Location						
24971	8	LOC18-test		11/01/2019	12/31/2029				View	Location						

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2. On 10/29/2019: USER1 "Edit" the Location ID #249716 End date from 12/31/2029 to 11/28/2019; which caused the Registration End date to change.

The system update the Registration End Date from 11/30/2021 to 11/28/2019 status is still in "Confirmed".

Cre	eate	Edit Co	py Terminate Delete											
Reg	istrat	ions												
Î 🖞	¥ 🗄													OWS 25 🗸
Select I	Reg ID	Name		DRP	UDC	LSE SUBLAP	DLAP DRP SC Re	source ID	Resource Type	Program	Baseline Method	Start Date	End Date	Status
	249719	REG6-PSOK							Pre Defined	Proxy DR	Day Matching 10/10	11/15/2019	11/28/2019	Confirmed
													\sim	
Loca	ations	S												
έρ Y	¥ E								Rows 25	$\overline{}$				
Loc ID		SAN	Resource ID		Start dat	e End date	Distribution Factor	Control Group?	Treatment Group?					
249716		LOC16-test			11/15/20	19 11/28/2019	\supset		View Location	1				
249718		LOC18-test			11/01/20	19 12/31/2029			View Location	1				

3. On 11/29/2019, after the Registration expired. Registration status will change from "Confirmed" to "Terminated", Location ID #249716 status will change from "Active" to "End Dated", and Location ID #249718 status will change from "Active" to "Inactive".

Example 2.

- User end-dating a location with an "Active" status.
- Location End-Date is in the future and earlier than the Registration period.
- 1. REG ID#249719 Resource ID = RESA registration is for 11/15/2019 through 11/30/2021.

	_	Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2. The user end the LOCATION_ID = 123 to 11/14/2019, since the location end date is earlier than the corresponding Registration; this will cause the Registration effective (in the future) to be deleted.

					UPD		Notes-
					ATE		
LOCATION		SUBL			D_B	UPDT_DT_T	
_ID	SAN	AP	START_DATE	END_DATE	Y	Μ	
		SLAP					Original record.
		_PGS				8/23/2019	
123	SAN1	1	11/17/2017	<mark>12/30/2029</mark>		10:29 AM	
							User "User1" made a location record to
							the end-date from 12/30/2029 to
							11/14/2019 ;
		SLAP					which caused the Registration effective (in
		_PGS			User	11/14/2019	the future)
123	SAN1	1	11/17/2017	<mark>11/14/2019</mark>	1	11:19 AM	11/15/2019 to be deleted.

REGISTRATION_ID	SUBLAP	RESOURCE_ID	START_DATE	END_DATE	UPDT_DT_TM	Notes-
						System deleted this
					11/14/2019	Registration per Location end-
249719	SLAP_PGSI	RESA	<mark>11/15/2019</mark>	12/31/2019	11:19 AM	date update above

For Location that is under a defense process, user must not alter the registration record outside of the defense process. If so, undesirable results will occur such as overlapping registration records. Please see sections 3.1.5, and Appendix A for more information on how to handle the different cases.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

End Dated Location

No changes are permitted for an End-Dated Location. Submissions to Edit an End-Date Location will be rejected. Enddated locations are logically equivalent to deleted records

3.1.2 Copy

The **Copy** feature allows the DRP to create a new location by copying an existing location and making changes to the copied field information. Locations in any status may be copied. To **Copy** a location, the location is first selected then the **Copy** button chosen under the Locations View.

DRP VIEW UDC VIEW LSE VIEW ADMINISTRATION											
> DRP VIEW > Locations											
LOCID LOCIame SAN	Der Der Die bergens	(ALL) 🔻 I	LSE [ALI	.] v s	UBLAP [ALL]	Apply	Reset				
Create Copy Delete Defend Withdraw Edit End Date Register											
Locations											
😓 🝸 🕌 🔚											
Select Loc ID Vame	SAN	DRP	UDC	LSE	SUBLAP	PNODE	Start Date	End Date	Status		
542527 Pending_Test_Reject_SANchange	PTR12345	DelPt	104108	1.0108	5LAP_P000		09/01/2016	09/30/2016	New		
✓ 542521 Pending_Test_Reject	PTR12345	Date	and.	LPUE	NAP PROFESSION		09/01/2016	09/30/2016	Disputed		

The Copy option takes the user to the Create New Locations window and provides the same Options:

- **Cancel** Cancels the creation of a new location.
- Save Creates a new location with changes and location ID for it.
- Submit Creates a new location with changes and location ID for it and submits it to the LSE and UDC review process.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

te New	Location				
Name*	Pending_Test_Reject_\$	SANchange	Address 1	South Elm	
SAN*	PTR12345		Address 2		
tart Date*	09/01/2016 31		City*	San Jose	
End Date*	09/30/2016 31		State*	California	•
DRP*	inere .		Zip*	95101	
UDC*			Address Type		
LSE*	100				
SUBLAP*	1.448				
PNODE	ALM PLUS				

	_	Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

3.1.3 Delete

The **Delete** feature allows the DRP to delete a new location. Locations can only be deleted when they are in the New status. To **Delete** a location, the new location is first selected then the **Delete** button chosen under the Locations View.

DRP VIEW UD	DRP VIEW UDC VIEW LSE VIEW ADMINISTRY FION												
> DRP VIEW > Locations													
	LOC Name	SAN	DRP H H H		.L] ▼ L	SE [ALL] 🔻 su	JBLAP [ALL]	▼ A	oply Reset			
Create	Copy Delete	Defend	lithdraw	Edit En	d Date	Regist	er						
Locations													
🏂 🍸 🕌 🖽													
Select Loc ID 🔻	Name		SAN		DRP	UDC	LSE	SUBLAP	PNODE		Start Date	End Date	Status
542527	Pending_Test_Reject_SANchange	e	PTR12345		Owner	UPDE.	UPDE	5.4P_PD01			09/01/2016	09/30/2016	New
✓ 542521	Pending_Test_Reject		PTR12345		Date	and a	LPLE	SLAP PART			09/01/2016	09/30/2016	Disputed

Once **Delete** is selected, the Location to be deleted will be identified and a confirmation to delete is required by selecting the **Continue** button.

DRP VIEW	UDCVIEW LSEVIEW ADM	INISTRATION								
> DRP	VIEW > Confirm Delete Locations									
Loca	ations To Be Deleted									
n 🖞 🕹	◀ ◀ 1 - 1 of 1 ▶	▶ ●								
ID	Name	SAN	DRP	UDC	LSE	SUBLAP	PNOD	E Start Date	End Date	Location Status
542581	Pending_Test_Reject_SANchange	PTR12345_SANchange	Date: N					09/01/2016	09/30/2016	New
Are you	u sure you want to Delete abo	ve Locations?								
Car	ncel Continue									

A deleted Location and its created Location ID will no longer exist in the Locations View.

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🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

3.1.4 Duplication Check

When a location is submitted for review, a duplication check is performed against other locations in the system. If the DRPID is the same as the submitting DRP, the system will reject the location and provide an error message. If the DRPID is different, the location will be created with a Duplicate status.

Note: error message received when location is submitted and there is a duplicate location pending review. Location cannot be submitted and cannot enter the defend process until the duplicate location is in the active or inactive status.

Lo	cation Review Details
	08/03/2016 14:52:26 There is a Duplicate location with the given SAN and UDC that is pending review. Please try to create the location after the review period to initiate the defend process
1	

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

3.1.5 Defend

The **Defend** feature allows the DRP to defend a location that has been found to be a duplicate of another location in the <u>inactive</u> or <u>active</u> status having the same SAN, UDC and overlapping effective dates with another DRP (Incumbent). The location will be identified as a <u>duplicate</u> once it is submitted for approval.

The system may also send a courtesy notification to the Incumbent DRP that their location needs to be defended for use by request of another DRP.

Example of email notification sent to the Incumbent DRP to defend location ownership.



The following location(s) has triggered the location defend process

Updates for Locations							
Location Id	Location Name	DRP	UDC	LSE	Effective Start Dt	Effective End Dt	Status

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Prospective DRP action:

The prospective DRP must include a contact name, number and comment if they chose to enter the defend process by selecting the **Continue** button. Locations submitted into the defense process will set to a duplicate status.

DRP VIEW						
DRP VIEW	Defend Loo	cation				
Location ID n	ull Apply	Reset				
Initiate Defend						
LOC ID			Address	¹ South El	m	
Name*	Test_duplicat	te_SAN	Address	2]
SAN*	PTR12345		c	ty San Jose	9]
Start Date*	08/08/2016]	State	* Californi	ia 🗸 🗸]
End Date*	10/10/2016	1	Ziţ	95101]
DRP	-]	Address Ty	be		
UDC	100					-
LSE	100					
SUBLAP	A. 44 March	1				
PNODE	_					
R	equester Name*	DRP#2				
Phone* (Form	nat: xxx-xxx-xxxx)	916-999-9999				
	Comments*	This SAN is now under co	ntract with DRP2, please end dat			
A Locati	on with give	n SAN and UDC cor	nbination already exists, do yo	u want to	continue and initiate th	e Defend Process?
Canc	el Con	tinue				
				:	58	

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🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Incumbent DRP action:

The incumbent DRP must accept or reject the prospective's location claim request via the Defend process on the UI.

To view the location record under defense, the incumbent DRP can log into the Locations screen. The Location(s) that is under defense will show a status of Defense Active = 'Y', and the Defense Start, and Defense End. See the figure below.

LOC ID LOC Name SAN DRP [ALL] VUDC	[ALL] ✓ LSE [ALL] ✓ SUBLAP [ALL] ✓ Def	ense Active [ALL] V Apply Reset		
Create Copy Delete Defend Withdraw Edit	End Date Register	Status is based on whether th	e Location is part of a	
Locations		Registration see section 2.5 for	"Inactive" and "Active"	
🗞 🍸 💾 🛅				Rows 25 🗸
Select Loc ID Vame SAN	DRP UDC LSE SUBLAP PNODE	Start Date End Date	Status Defense Defense Start	Defense End
LOC2-psok		31		31 31
142682 LOC2-psok LOC2-psok		10/25/2019 10/31/2020	Inactive Y 10/25/2019	11/08/2019

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

The status of Defense Active = 'Y', and the Defense Start, and Defense End will disappear after the incumbent DRP respond to the prospective DRP.

While the defend process in is in progress, the incumbent DRP must accept/reject through the defend process. <u>Do not</u> alter the registration and location outside of the defend process; doing so will result in overlapping record. To defend, incumbent DRP must select the Location, click **Defend**, provide comment on their defense of the location, contact name, and phone number.

- If "Valid Location" is checked, the incumbent DRP is indicating that the location is valid and will not release that location based on comments received from prospective DRP.
- If the "Valid Location" is not checked, the incumbent DRP is stating that the request received is accepted and action will be taken by them to release the location to the prospective DRP.

🍣 California ISO	_	Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Sele	cted Loo	cations						
a Y		1 - 1 of 1						Rows 25 🗸
D	Name	SAN	DRP	UDC I	LSE SUBLAP	PNODE Start Date	End Date	Location Statu
49717	LOC17-ps	sok LOC17-te:	st			11/01/2019	12/31/2029	Active
			_					
				Do not				
				check it				
	Valid Lo	cation		Incumbe	nt			
	Reviewer	Name* pia	-					
		Pres			se l			
one* (Fo	ormat: xxx-xx	x-xxxx) 000-000-0	0000	to releas	e			
	Review Cor	nment Incumben	t DRP acce	the location	on. " _{m.}	~		
						\sim		

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

If the incumbent DRP takes no action within 10 business days, the system will automatically end date the location and its corresponding registration after the 10 business days. In addition, the system will automatically adjust the end date out by 5 business days for the location that is in defense process and its corresponding registration. Note that the status for the location that are under the defend process will remain "Active" until the registration expired, and the rest of the locations will be in "Inactive" status.

A list of the possible Cases of the Defend Process is in <u>Appendix A</u> in this document.

If the incumbent DRP defends the location during the defense period, the prospective DRP must contact them to resolve the duplicate use conflict outside of the ISO registration process.

3.1.6 Withdraw

The **Withdraw** feature allows the DRP to withdraw a location from the validation and UDC or LSE review processes. Locations can only be withdrawn when they are in the processing or pending statuses. To **Withdraw** a location, the location is first selected then the Withdraw button chosen under the Locations View.

and and	100 210,022	1000.0100											
> DRP VIEW >	Locations		/	_									
	LOC Name	SAN		A A A U	C [ALL] V	LSE [ALL] v s	UBLAP [ALL]	۲.	Apply Reset			
Create	Copy Delete	Defend	Withdraw	Edit	End Date	Regist	er						
Locations													
🐁 🍸 🕌 🔲													
Select Loc ID 🔻 N	ame		SAN		DRP	UDC	LSE	SUBLAP	PNODE		Start Date	End Date	Status
542527 P	ending_Test_Reject_SANchange	e	PTR123	45	Date:	UPDE	UPDR.	Burk Moot			09/01/2016	09/30/2016	New
🗹 542521 P	ending_Test_Reject		PTR1234	15	Date	100.00	1000	NAME AND ADDRESS.		1	09/01/2016	09/30/2016	Disputed

Once **Withdraw** is selected, the Location to be withdrawn will be identified and a confirmation to withdraw is required by selecting the **Continue** button.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

DRP VIEW Confirm Withdraw Locations Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be Withdrawn \$\Locations To Be San \$\Locations To Be San	LSE	SUBLAP	PNODE Start Date 8/08/2016	End Date 10/10/2016	Location Status Duplicate
Locations To Be Withdrawn	LSE	SUBLAP	PNODE Start Date 5/08/2016	End Date 10/10/2016	Location Status Duplicate
Image: Same SAN DRP UDC 542714 Test_duplicate_SAN PTR12345	LSE	SUBLAP	PNODE Start Date 5/08/2016	End Date 10/10/2016	Location Status Duplicate
ID Name SAN DRP UDC 542714 Test_duplicate_SAN PTR12345	LSE	SUBLAP	PNODE Start Date B/08/2016	End Date 10/10/2016	Location Status Duplicate
542714 Test_duplicate_SAN PTR12345		1 3.0	8/08/2016	10/10/2016	Duplicate
re you sure you want to Withdraw above Locations?	?				
Cancel Continue					

3.1.7 End Date

The **End Date** feature allows the DRP to end date a location. Locations can only be end dated when they are in the inactive or active statuses. To **End Date** a location, the location is first selected then the **End Date** button chosen under the Locations View.

DRP VIEW UDC VIEW LSE VIEW ADMINISTRATION			
> DRP VIEW > Locations			
LOC ID LOC Name SAN		ALL] V. LSE [ALL] V SUBLAP [ALL] V Apply Reset	
Create Copy Delete Defend	Withdraw Edit E	ind Date Register	
Locations			
😓 🍸 🕌 🛅			
Select Loc ID Vame	SAN	DRP UDC LSE SUBLAP PNODE Start Date End Date	Status
542527 Pending_Test_Reject_SANchange	PTR12345	09/01/2016 09/30/2016	New
✓ 542521 Pending_Test_Reject	PTR12345	09/01/2016 09/30/2016	Disputed

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		Version No. 4.7		
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

Once **End Date** is selected, the Location to be end dated will be identified and a confirmation to end date is required by selecting the **Continue** button.

DRP \	/IEW	Confirm End Da	te Locations							
Loca	tions	To Be End	d Dated							
È Y		1 - 1 of	1 🕨 🕨		ן 🕘 🗌					
ID	Name		SAN	DRP	UDC	LSE	SUBLAP	PNODE Start Date	End Date	Location Status
542527	Test_	duplicate_SAN	PTR12345	100		-	100	1.47	3 1	Inactive
Are you	sure y	ou want to Er	nd Date abo	ve Loca	tions?					

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	ATION USER GUIDE	Fi	nal

3.2 Location Review

3.2.1 LSE Review

After logging into the DRRS, the LSE is provided a view option for Locations and Registrations. Selecting the Location view will provide a list of locations that they have been assigned as the LSE. The Location view includes all the locational information provided by the DRP to create the location.³ In addition the following is provided in this view:

Location ID	A unique ID assigned by the DRRS for all new locations when they are saved or submitted.
Status	The Current status of the location.
Review Start	The date on which the location was submitted for review. This date begins the ten business day (10) review period for the LSE to review and respond before the DRRS auto approves the location.
Review End	The date on which the review period end or date on which the review was completed.
LSE Review	A "Y" indicates that a valid location review has been completed.
Reviewer Name Reviewer Contact	The name of the reviewer provided as part of validation Phone number of the reviewer provided as part of validation.

Locations requiring review will be in the **Pending** status.

³ See Location Management > Create section for all location information provided by the DRP.

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		Version No. 4.7		
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

Locations reviewed without findings will be in the Active or Inactive status.

Locations reviewed with findings from either the LSE or UDC will be in the **Disputed** status The LSE selects the Locations (one or multiple) to be reviewed and chooses the **Review** button to enter the review confirmation process screen.

Note: The system only accepts 25 Locations/rows at a time when approving.

LOC TILT																
LSE VIEW	Locations															
LOC ID	LOC Name	SAN C	ORP [ALL]	V UDC [AL	L] 🗸 L9	SE [ALL	.] 🗸 SUB	BLAP A	LL]	✓ Apply Re:	set					
Review																
Locations																
🏂 🍸 🎽 🔚																
Select Loc ID	Name		SAN		DRP	UDC	LSE	SUBL	AP	PNODE Start Date	End Date	Review Start	Review End	Status	LSE Reviewer Revie Reviewed Name Conta	wer act
			1		1						11	31 08/04/2016	31	11 Pending	$\mathbf{\overline{v}}$	
542641	UDC_LSE_REVIEW			1000		-		-		09/01/2016	09/30/2016	08/04/2016	08/05/2016	Pending		
542527	Test_duplicate_SAN		in the second se	-				-		09/01/2016	09/30/2016	08/04/2016	08/05/2016	Pending		

When selecting more than one location, all locations listed are reviewed by the LSE together. Response by the LSE will affect all locations listed, selection of individual locations is not available in the "locations to be reviewed" view.



io I ID	▼Name	SAN	UDC	LSE	SUBLAP	PNODE Start Date	End Date	Location Sta
542641	UDC_LSE_REVIEW	UDC_LSE_REVIEW_	 server 1	LPICE	BLAP, PRICE	09/01/2016	09/30/2016	Pending
542527	Test_duplicate_SAN	PTR12345	Reviewer phone : req	r name a is alway; uired	nd s	09/01/2016	09/30/2016	Pending
			Re is th	viewer (require le locatio	Comment d when on is not			
	Valid Location	ten era era bannan ten era era bannan		vali	d			
	Reviewer Name*	GE						
hone* (Fo	ormat: xxx-xxx-xxxx) 415	123 4567						
	Review Comment	-123-4307		0				

The location(s) is confirmed as being valid by **selecting** the **Valid Location** box. The location confirmation is disputed by leaving the box un-selected indicating that the location(s) have not passed the review.

		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

The LSE must include a Reviewer Name and Phone # and, if the location is not valid, a Review Comment when choosing to Continue. Comment should include the reason as to why the LSE has determined this to be an invalid location. Examples include, but are not limited to the following:

- Incorrect location information (e.g. incorrect SubLAP)
- Wrong LSE or UDC designation
- No commercial agreement
- Regulatory non-conformance
- Location identified as participating in another program

Note: The Comments box is limited to 255 characters.

The LSE may end their validation of the location(s) by choosing to Cancel.

3.2.2 UDC Review

After logging into the DRRS, the UDC is provided a view option for Locations and Registrations.

Selecting the Location view will provide a list of locations that they have been assigned as the UDC. The Location view includes all the locational information provided by the DRP to create the location. ⁴ In addition the following is provided in this view:

- **Location ID** A unique ID assigned by the DRRS for all new locations when they are saved or submitted.
- Status The Current status of the location.

⁴ See Location Management > Create section for all location information provided by the DRP.

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

- **Review Start** The date on which the location was submitted for review. This date begins the ten business day (10) review period for the UDC to review and respond before the DRRS auto approves the location.
- **Review End** The date on which the review period end or date on which the review was completed.
- **LSE Review** A "Y" indicates that a valid location review has been completed.
- **Reviewer Name** The name of the reviewer provided as part of validation.

Reviewer Contact Phone number of the reviewer provided as part of validation.

Locations requiring review will be in the **Pending** status.

Locations reviewed without findings will be in the Active or Inactive status.

Locations reviewed with findings from either the LSE or UDC will be in the Disputed status

The UDC selects the Locations (one or multiple) to be reviewed and chooses the **Review** button to enter the review confirmation process screen.

Note: The system only accepts 25 Locations/rows at a time when approving.

炎 California ISO	_	Version No.	4.7	
	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

UDC VIEW														
UDC VIEW Locations														
LOC ID LOC Name	SAN D		[ALL] 🗸 L	SE [ALL]	V SUB	BLAP [ALL]	✓ Apply	Reset						
Review														
Locations														
🗞 🍸 🕌 🔚														
Select Loc ID 🔻 Name		SAN	DRP	UDC	LSE	SUBLAP	PNODE	Start Date	End Date	Review Start	Review End	Status	UDC Reviewed Name	wer Reviewer Contact
542641 UDC_LSE_REVIEW								09/01/2016	09/30/2016	08/04/2016	08/05/2016	Pending		
✓ 542527 Test_duplicate_SAN								09/01/2016	09/30/2016	08/04/2016	08/05/2016	Pending		

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

When selecting more than one location, all locations listed are reviewed by the UDC together. Response by the UDC will affect all locations listed, selection of individual locations is not available in the "locations to be reviewed" view.

UDC VIEW									
UDC V	/IEW Confirm Review	w Locations							
Loca	tions To Be Re	viewed							
1 in T	I I - 2 of	2							
ID	Name	SAN	DRP	UDC	LSE	SUBLAP	PNODE Start Date	End Date	Location Status
542641	UDC_LSE_REVIEW	UDC_LSE_REVIEW_1	DAPE	UPGE.	LPGE	BLAP_POCC	09/01/2016	09/30/2016	Pending
542527	Test_duplicate_SAN	PTR12345	DAPH.	UPDE	UPDE.	SLAP_POOD	09/01/2016	09/30/2016	Pending
			Rev	viewer nam hone is alw required	e and ays				
					Revi	iewer Comment is			
					re	quired when the			
					100	auon is not vanu.			
	Valid Location						_		
	Reviewer Name*								
Phone* (Fo	ormat: xxx-xxx-xxxx)		_						
	Peview Comment								
	Noview Comment				\bigcirc				
Are you sure you want to Submit the Review for above Locations?									
Cance	el Conti	nue							

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

The location(s) is confirmed as being valid by **selecting** the **Valid Location** box. The location confirmation is disputed by leaving the box un-selected indicating that the location(s) have not passed the review.

The UDC must include a Reviewer Name and Phone # and, if the location is not valid, a Review Comment when choosing to Continue. Comment should include the reason as to why the UDC has determined this to be an invalid location. Examples include, but are not limited to the following:

- Incorrect location information (e.g. incorrect SubLAP)
- Wrong LSE or UDC designation
- No commercial agreement
- Regulatory non-conformance
- Location identified as participating in another program

Note: The **Comments** box is limited to <u>255</u> characters.

The UDC may end their validation of the location(s) by choosing to Cancel

3.2.3 Invalid Review Disputed Location

A **Disputed** Location was unsuccessful in obtaining a valid review by one of the reviewing entities (LSE/UDC). The DRP must now determine from provided comments why they were unable to pass validation of the location submitted for review. When a location has not passed the LSE/UDC review it will be set to the status of **Disputed** and the reviewer contact information and comments can be viewed by the DRP in their Locations view when the location is highlighted.
		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

DRP VIEW | UDC VIEW | LSE VIEW | ADMINISTRATION

DRP VIEW	Locations	
0.010	LOO Norma	

	LOC Name	SAN		OC [ALL] 🗸 LSE	[ALL] V	SUBLAP [AL	L] 🗸	Apply Reset			
Create	Copy Delete	Defend	Withdraw Edit	End Date R	egister						
Locations											
🕏 🍸 🕌 🔚											
Select Loc ID	Name		SAN	DRP	UDC	LSE	SUBLAP	PNODE	Start Date	End Date	Status
										31	31 Disputed V
542521	Pending_Test_Reject		Date of the local date of the						09/01/2016	09/30/2016	Disputed
★ Y ¥ E Select Loc ID 542521	Name Pending_Test_Reject		SAN	DRP	UDC	LSE	SUBLAP	PNODE	Start Date	End Date	Status 31 Disputed V Disputed

		UDC/LSE Review contact and								
Location Address										
Address 1				ess 2			City	State	Zip	Туре
South Elm							San Jose	CA	95101	
 Location 	Review Details	V								
LSE Approved	LSE Comments	LSE Reviewer	LSE Contact I	nfo	UDC Approved	UDC Comments			UDC Reviewer	UDC Contact Info
N	This location is in another LSE program, not valid.	ISOTester	916-802-9999		Y				ISOTester	916-802-9999

	_	Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

To correct errors identified, the DRP must create a new location. The disputed Location is not editable but may be copied and updated with the corrected information. When saved or submitted, a new location with new Location ID will be created. The new location created must then be submitted for review and will be in **Pending** status until the review is complete.

DRP VIEW	Create New Locations	Copy and correct	
Name*	Pending_Test_Reject	disputed location	100 North Maple
SAN*	PTR12345A	Address 2	
Start Date*	09/01/2016 31	City*	San Jose
End Date*	09/30/2016 31	State*	California 💌
DRP*	(PNA)	Zip*	95101
UDC*		Address Type	
LSE*			
SUBLAP*			
PNODE	and years	×.	
	Cancel	Save	Submit

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

If the DRP believe the location is valid with information provided and does not agree with the LSE or UDC findings, they must work with the entity that provided the comments to resolve the reason it was not found to be a valid location. The process for resolving the disputed location issues is managed outside of the ISO. The DRP is provided information through the review process needed to make direct contact with LSE or UDC to initiate resolution.

3.2.4 LSE/UDC Review notification

Example of email notification to the LSE and UDC when a location has been submitted for review.

From: no-reply@caiso.com [mailto:no-reply@caiso.com] Sent: Friday, August 05, 2016 4:00 PM To: LSE or UDC Primary Contact Cc: LSE or UDC Secondary Contact Subject: Location Submitted									
The following lo	ocation has been submitted for the review process.								
Location Id:	542712000001								
Location Name	: TEST_API_RD_19								
SAN:	Test_API_RD_19								
DRP:	DPUE								
UDC:	UPUE								
LSE:	LPGE								
SUBLAP:	SLAP POLP								
START DATE:	2018-01-01 00:00:00.0								
END DATE:	2018-01-05 00:00:00.0								
STATUS:	Pending								

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

3.2.5 Application Programming Interface (API) Location Management

The DRRS provides APIs for the performance of all location management processing. Market Participants can perform the following using the DRRS web services:

- Retrieve DRRS Locations
- Save request for creating draft/new DRRS Locations
- Delete request for deleting the draft/new DRRS Locations
- Submit request for creating/end-dating DRRS Locations
- Review request for reviewing DRRS Locations (for LSE/UDC/LSE&UDC review)
- Modify request for modifying DRRS Locations
- Initiate Defend request for defending for a DRRS Location
- Review Defend request for reviewing the DRRS Location that is under defend process (for DRP review)
- Retrieve status for the creation or modification requests

Technical ISO Interface Specifications with more detailed information are available on the ISO Developer website at https://developer.caiso.com.

3.3 Creating a Registration

After the LSE and UDC have reviewed and approved the Location(s), the DRP can then create a registration. The **Register** feature allows the DRP to register a location or multiple locations. Locations can only be registered when they are in the inactive, and active statuses. Registration can be in multiple LSEs, but must be within the same SubLAP.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

There are 2 approaches to register a location or multiple locations.

- Approach 1:
 - Under the **DRP View** > Locations
 - Select the required locations

Locations belonging to the same or various LSEs are permitted, but with the same DRP, UDC, and SUBLAP for the registration.

• Click on the **Register** button



External Use

	Version No.	4.7
	Effective Date	11/7/2019
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Final

DEMAND RESPONSE REGISTRATION USER GUIDE

🍣 California ISO

Demand Response Registration System

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DF

DRP VIEW | UDC VIEW | LSE VIEW | ADMINISTRATION

DRP VIEW Locations

LOC ID	LOC Name NAL !	SAN DRP [ALL] V UDC [ALL] V	LSE [ALL] V SUBLAP [ALL]	V Defense Acti	ve [ALL] V Apply	Reset									
Create	Copy Delete	Defend Withdraw Edit End Date	Register												
Locations											Registrati	ons			
									Po		t m	0113			Bowe In
in 1 🐿 🖾	_							Defense	Defense	Defense	in the Base M		Ctart Data	East Date	KUWS 25
Select Loc ID	Name	SAN		PNODE	Start Date	End Date	Status	Active?	Start	End	Reg ID Reg N	ame	Start Date	End Date	Status
553087000150	ST_LOC_NAL1_TEST150	SAN_NC150			07/26/2018	12/30/2018	Inactive								
553087000149	ST_LOC_NAL1_TEST149	SAN_NC149			07/26/2018	12/30/2018	Inactive								
553087000148	ST_LOC_NAL1_TEST148	SAN_NC148			07/26/2018	12/30/2018	Inactive								
553087000147	ST_LOC_NAL1_TEST147	SAN_NC147			07/26/2018	12/30/2018	Inactive								
553087000146	ST_LOC_NAL1_TEST146	SAN_NC146			07/26/2018	12/30/2018	Inactive								
553087000145	ST_LOC_NAL1_TEST145	SAN_NC145			07/26/2018	12/30/2018	Inactive								
553087000144	ST_LOC_NAL1_TEST144	SAN_NC144			07/26/2018	12/30/2018	Inactive								
553087000143	ST_LOC_NAL1_TEST143	SAN_NC143			07/26/2018	12/30/2018	Inactive								
553087000142	ST_LOC_NAL1_TEST142	SAN_NC142			07/26/2018	12/30/2018	Inactive								
553087000141	ST_LOC_NAL1_TEST141	SAN_NC141			07/26/2018	12/30/2018	Inactive								
553087000140	ST_LOC_NAL1_TEST140	SAN_NC140			07/26/2018	12/30/2018	Inactive								
553087000139	ST_LOC_NAL1_TEST139	SAN_NC139			07/26/2018	12/30/2018	Inactive								
553087000138	ST_LOC_NAL1_TEST138	SAN_NC138			07/26/2018	12/30/2018	Inactive								
553087000137	ST_LOC_NAL1_TEST137	SAN_NC137			07/26/2018	12/30/2018	Inactive								
553087000136	ST_LOC_NAL1_TEST136	SAN_NC136			07/26/2018	12/30/2018	Inactive								
553087000135	ST_LOC_NAL1_TEST135	SAN_NC135			07/26/2018	12/30/2018	Inactive								
553087000134	ST_LOC_NAL1_TEST134	SAN_NC134			07/26/2018	12/30/2018	Inactive								
553087000133	ST_LOC_NAL1_TEST133	SAN_NC133			07/26/2018	12/30/2018	Inactive								
553087000132	ST_LOC_NAL1_TEST132	SAN_NC132			07/26/2018	12/30/2018	Inactive								
553087000131	ST_LOC_NAL1_TEST131	SAN_NC131			07/26/2018	12/30/2018	Inactive								
553087000130	ST_LOC_NAL1_TEST130	SAN_NC130			07/26/2018	12/30/2018	Inactive								
553087000129	ST_LOC_NAL1_TEST129	SAN_NC129			07/26/2018	12/30/2018	Inactive								
553087000128	ST_LOC_NAL1_TEST128	SAN_NC128			07/26/2018	12/30/2018	Inactive								
553087000127	ST_LOC_NAL1_TEST127	SAN_NC127			07/26/2018	12/30/2018	Inactive								
553087000126	ST_LOC_NAL1_TEST126	SAN_NC126			07/26/2018	12/30/2018	Inactive								
553087000125	ST_LOC_NAL1_TEST125	SAN_NC125			07/26/2018	12/30/2018	Inactive								
553087000124	ST_LOC_NAL1_TEST124	SAN_NC124			07/26/2018	12/30/2018	Inactive								
553087000123	ST_LOC_NAL1_TEST123	SAN_NC123			07/26/2018	12/30/2018	Inactive								
553087000122	ST_LOC_NAL1_TEST122	SAN_NC122			07/26/2018	12/30/2018	Inactive								
553087000121	ST_LOC_NAL1_TEST121	SAN_NC121			07/26/2018	12/30/2018	Inactive								
553087000120	ST_LOC_NAL1_TEST120	SAN_NC120			07/26/2018	12/30/2018	Inactive								
553087000119	ST_LOC_NAL1_TEST119	SAN_NC119			07/26/2018	12/30/2018	Inactive								

		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

• On the **Registration** screen, input the data and save/submit.

The following is a description of the fields requested for input to **create** a Registration:

- **Name** DRP chosen name of the Registration. May contain alphanumeric and special characters, up to a max of 255
- Start Date⁵ The Start Date cannot be a prior date. Only Locations with start dates before and end dates after will be generated as Available Locations for selection
- End Date The End Date cannot be a prior date or overlap with an existing Active location with same SAN and UDC assignment
- **DRP**⁶ Demand Response Provider ID
- UDC Utility Distribution Company ID
- **Baseline Method** The Baseline Method that will be used to determine the performance of the Resource. This requires approval by the CAISO. Only the approved Performance Evaluation Method (baseline) will be available from the drop down. Please see Business Practice Manual (BPM) for Demand Response for instruction on how to submit a Performance Evaluation Methodology request section 5.
- SubLAP The SubLAP in which all the locations within the registration reside

⁵ The system validates effective dates input for the Registration against Location effective dates to determine available Locations that can be registered.

⁶ The system uses DRP, UDC, LSE and SubLAP information provided to ensure Locations presented as available have the same designations.

	_	Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

- **DRP SCID** The ID of the acting Scheduling Coordinator for the Registrations market Resource.
- **Program** Proxy DR or Reliability DR
- **Resource Type** Predefined or Custom.
 - Available Locations will be filtered based on the Resource Type selection. When selecting Custom, only Locations with PNODE information can be selected for the Registration.
 - Custom Resource ID
 - If the DRP believes that the pre-defined Resource ID is not sufficient for its needs, the DRP selects or requests a custom Resource ID be assigned when the Registration is created. The information provided in the DRRS during the Registrations creation, including PNodes and their applicable Distribution Factors, is to develop the Custom Resource ID.
 - For an example (applicable for a PDR or RDRR): A DRP requests a custom Resource ID for 4 end use Loads that have the same LSE and are located in the same Sub-LAP. Based on historic Load of these 4 end use customers, 80% of the Load is connected to Bus 1 and 20% of the Load is connected to Bus 2.

Customer	LSE	Sub- LAP	Location	Registration	GDF	Custom DR Resource ID
1	Α	PGF1	Bus 1	Reg 01	0.8	PRMNTE_6_PDRC01
2	Α	PGF1	Bus 1	Reg 01		PRMNTE_6_PDRC01
3	Α	PGF1	Bus 2	Reg 01	0.2	PRMNTE_6_PDRC01
4	Α	PGF1	Bus 2	Reg 01		PRMNTE_6_PDRC01

Here is how it will look:

		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

• Requesting a Custom Resource ID with Dynamic GDF

 If approved by the CAISO, a DRP may submit GDFs as part of its Bid for a given PDR or RDRR. In order to be eligible to submit GDFs as part of a Bid, the DRP must request and receive approval from the CAISO to dynamically Bid GDFs. To request a custom GDF, please contact the PDR coordinator at pdr@caiso.com with the following information: Location of bus, and total MW. The custom GDF can be deployed based on the Master File deployment.

• Resource

- When Resource Type = Pre Defined
 - The drop-down list will show available resources that can be selected based on Registration information provided including Resource IDs previously assigned to the DRP and unassigned Pre Defined resource IDs for the identified SubLAP.
- When Resource Type = Custom
 - The drop-down list will be blank. Once the Registration is submitted, notify the PDR Coordinator. The PDR coordinator will the update the resource id in DRRS and provide it to the DRP. The Resource ID will not be visible until it is assigned to that Registration in the DRRS by the PDR coordinator.

Show/Refresh Available Location

The system will generate a list of available Locations, to select from, based on the information provided when creating a Registration. The Locations list is based on the DRP, UDC, SUBLAP, and effective dates.

To select more than 25 location, in the Available Locations, change the number of Rows from 25 to 200.
 This will allow you to move more than 25 rows to the available locations.

		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

• Move available locations to Selected Locations.



		Version No.	4.7		
California ISO	External Use	Effective Date	11/7/2019		
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal		

Distribution Factors for Custom Resource

If the Resource Type selected is Custom, the system generated list of available Locations, to select from, will only include locations that have been assigned a PNode. When creating this Registration, the DRP must assign distribution factors for PNodes identified. PNodes will be populated in the Distribution Factor window based on the Locations selected to be registered. The Edit button in this window provides the DRP with the opportunity to assign a Distribution Factor to each of the PNodes. The Distribution Factor must indicate the percent of load reduction that will be occur at each PNode represented as a two decimal precision level. Distribution Factors used to create the custom Resource ID and the Registration in the DRRS to <u>RDT@caiso.com</u> when submitting the GRDT form.



		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

- o Save and Submit.
- If the Baseline Method is a Control Group, a minimum of 150 Control Group Locations and at least 1 Treatment Group must be selected. See the BPM for Demand Response for more details on the requirements for Baselines.

	W LSE VIEW ADMINISTRA	ATION												
P VIEW Reg	gistration													
DRP	PGE .						Resource	FMPTY						
										-				
UDC	rui	1 m					PMax							
LSE							Status [Now						
							L	NGW						
seline Method	40.002.0													
SUBLAR														
000004		~												
efresh Available L	005													
Show/Refresh	Available Locations													
Available	Leastions					Colorian	Leastinne						Distribution Easter	
Available	Locations			D	>	Selected	Locations						Distribution Factor	N. N.I
10 T 📶 14	◀ 1 - 25 of 278 ▶			Rows 25 V		Update	Cancel						25 411 14 4 0 - 0 of 0	
ID	Name	SAN	Start Date	End Date PNODE		ID	NAME	SAN	Start Date	End Date	PNODE Control 1	reatment		Rows 25 🗸
553087000125	ST_LOC_NAL1_TEST125	SAN_NC125	07/26/2018	12/31/2018		553087000150	ST_LOC_NAL1_TEST150	SAN_NC150	07/26/2018	12/30/2018			PNODE	Distribution Factor (2 decimal places
553087000124	ST_LOC_NAL1_TEST124	SAN_NC124	07/28/2018	12/31/2018		553087000149	ST_LOC_NAL1_TEST149	SAN_NC149	07/26/2018	12/30/2018				allowed)
553087000123	ST_LOC_NAL1_TEST123	SAN_NC123	07/26/2018	12/31/2018		553087000148	ST_LOC_NAL1_TEST148	SAN_NC148	07/26/2018	12/30/2018				
553087000122	ST_LOC_NAL1_TEST122	SAN_NC122	07/26/2018	12/31/2018		553087000147	ST_LOC_NAL1_TEST147	SAN_NC147	07/26/2018	12/30/2018	\checkmark			
553087000120	ST LOC NAL1 TEST120	SAN NC120	07/28/2018	12/31/2018	>>	553087000146	ST_LOC_NAL1_TEST146	SAN_NC146	07/26/2018	12/30/2018		✓		
553087000119	ST LOC NAL1 TEST119	SAN NC119	07/26/2018	12/31/2018		553087000145	ST_LOC_NAL1_TEST145	SAN_NC145	07/26/2018	12/30/2018	~			
553087000118	ST_LOC_NAL1_TEST118	SAN_NC118	07/28/2018	12/31/2018		553087000144	ST_LOC_NAL1_TEST144	SAN_NC144	07/26/2018	12/30/2018	~			
553087000117	ST_LOC_NAL1_TEST117	SAN_NC117	07/28/2018	12/31/2018		553087000143	ST_LOC_NAL1_TEST143	SAN_NC143	07/26/2018	12/30/2018	<u>∠</u>			
553087000116	ST_LOC_NAL1_TEST116	SAN_NC116	07/28/2018	12/31/2018		553087000142	ST_LOC_NAL1_TEST142	SAN_NC142	07/26/2018	12/30/2018	~			
553087000115	ST_LOC_NAL1_TEST115	SAN_NC115	07/26/2018	12/31/2018		553087000141	ST_LOC_NAL1_TEST141	SAN_NC141	07/26/2018	12/30/2018				
553087000114	ST_LOC_NAL1_TEST114	SAN_NC114	07/26/2018	12/31/2018		552027000140	ST_LOC_NAL1_TEST140	SAN_NC140	07/28/2018	12/30/2018				
553087000113	ST_LOC_NAL1_TEST113	SAN_NC113	07/28/2018	12/31/2018		552027000122	ST LOC NALL TESTING	SAN NC138	07/28/2019	12/20/2019				
553087000112	ST_LOC_NAL1_TEST112	SAN_NC112	07/28/2018	12/31/2018	<	553087000137	ST LOC NAL1 TEST137	SAN_NC137	07/26/2018	12/30/2018				
553087000111	ST_LOC_NAL1_TEST111	SAN_NC111	07/28/2018	12/31/2018		553087000136	ST LOC NAL1 TEST136	SAN NC136	07/26/2018	12/30/2018				
553087000110	ST_LOC_NAL1_TEST110	SAN_NC110	07/28/2018	12/31/2018		553087000135	ST_LOC_NAL1_TEST135	SAN_NC135	07/26/2018	12/30/2018				
553087000109	ST_LOC_NAL1_TEST109	SAN_NC109	07/20/2018	12/31/2018		553087000134	ST_LOC_NAL1_TEST134	SAN_NC134	07/26/2018	12/30/2018				
553087000108	ST_LOC_NAL1_TEST107	SAN_NC107	07/28/2018	12/31/2018		553087000133	ST_LOC_NAL1_TEST133	SAN_NC133	07/26/2018	12/30/2018				
553087000106	ST LOC NAL1 TEST108	SAN NC106	07/26/2018	12/31/2018		553087000132	ST_LOC_NAL1_TEST132	SAN_NC132	07/26/2018	12/30/2018				
553087000105	ST_LOC_NAL1_TEST105	SAN_NC105	07/28/2018	12/31/2018		553087000131	ST_LOC_NAL1_TEST131	SAN_NC131	07/26/2018	12/30/2018				
553087000104	ST_LOC_NAL1_TEST104	SAN_NC104	07/28/2018	12/31/2018	<<	553087000130	ST_LOC_NAL1_TEST130	SAN_NC130	07/26/2018	12/30/2018		Ц		
553087000103	ST_LOC_NAL1_TEST103	SAN_NC103	07/28/2018	12/31/2018		553087000129	ST_LOC_NAL1_TEST129	SAN_NC129	07/26/2018	12/30/2018				
553087000102	ST_LOC_NAL1_TEST102	SAN_NC102	07/26/2018	12/31/2018		553087000128	SI_LOC_NAL1_TEST128	SAN_NC128	07/26/2018	12/30/2018				
553087000101	ST_LOC_NAL1_TEST101	SAN_NC101	07/28/2018	12/31/2018		553087000127	ST_LOC_NAL1_TEST127	SAN_NC127	07/26/2018	12/30/2018				
						003087000128	ST_LOU_NALT_TEST128	SAN_NC128	07/20/2018	12/30/2018				

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		Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

Note: DRRS limits 200 locations per registration unless this is loaded using the API.

Once the Registration information is complete, Locations have been selected and Distribution Factors updated (for custom resource id), the options to proceed include:

- **Cancel** cancels the creation of the Registration
- Save creates a new Registration and Registration ID for it.
- **Submit** creates a new Registration and Registration ID for it and submits for registration.

Once the new Registration information has been created and saved or submitted, a new **Registration ID (Reg ID**) will be generated.

When saved, the locations **Status** will be displayed as *New*.

DRP VIEW UD	JRP VIEW LDC VIEW LSE VIEW ADMINISTRATION											
DRP VIEW	Registrations											
Reg Id	Reg Name	DRP	SE [ALL] 🔽 SUBLAP	[ALL]	Apply Reset							
Create	Edit Copy	Terminate Delete										
Registrati	ons											
🐁 🍸 🕌 🖽												
Select Reg ID	Name		DRP UDC LS	E SUBLAP	DLAP	DRP SC Resource I	D Resource Type	Program	Baseline Method	Start Date	End Date	Status
542813	Create_Reg_Predefined	the set out the set					Pre Defined	Proxy DR	10 in 10 with SMA	09/05/2016	09/30/2016	New
542721	DRScouthbay	Per na na rejer	PROPERTY IN				Pre Defined	Proxy DR	10 in 10 with SMA	09/01/2016	09/30/2016	Confirmed
Locations												
🐁 🍸 🕌 🛅												
Loc ID	SAN	Resource ID	Start date	End date	Distribution Factor							
542527	PTR12345		09/01/2016	09/30/2016		View Location						
542641	UDC_LSE_REVIEW_1		09/01/2016	09/30/2016		View Location						

	_	Version No.	4.7	
California ISO	External Use	Effective Date	11/7/2019	
DEMAND RESPONSE REGISTRA	Fi	nal		

When submitted, the locations Status will be displayed as Confirmed.

JRP VIEW UDC VIEW LSE VIEW ADMINISTRATION												
DRP VIEW Registrations												
Reg Id Reg Name DRP [ALL] V UDC [ALL] V LSI	E [ALL]	✓ SUB	LAP [ALI		Apply Reset							
Create Edit Copy Terminate Delete												
Registrations												
🗞 🍸 🖉 📴 📢 🔍 1 - 10 of 109 🕨 🔰 📩 🗾 🕗												
Select Reg ID 💙 Name	DRP	UDC	LSE	SUBLAP	DLAP	DRP SC Resource ID	Resource Type	Program	Baseline Method	Start Date	End Date	Status
542813 Create_Reg_Predefined		1000	100	10.000	3.44,7444,7144		Pre Defined	Proxy DR	M THE RE MAN LAND AND A	09/05/2016	09/30/2016	Confirmed

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

• Approach 2:

 $\circ~$ Under the DRP View, select Registrations then click on the Create button.

2	California ISO	Demand Response Reg	gistration Syste	em 🔶 🖶 👼 🔂 🕫 🖉 🛊 🖷	•]					
PVIEW I U										
	Posistrations									
DRF VIEW	Registrations									
eg Id	Reg Name DRP [ALL]	UDC [ALL] V LSE [ALL] V SUBLAP	(ALL) V Apply Res	et_						
Create	Edit Copy Terminate	Delete								
Registrat	tions									
2. 🏹 🎽 🖪	1 - 25 of 1280	- <u>0</u>							F	Rows 25
elect Reg ID	Name	DRP UDC LS	E SUBLAP DLAP	DRP SC Resource ID	Resource Type	Program	Baseline Method	Start Date	End Date	Status
1081659	Stem SDG1 2				Pre Defined	Proxy DR	10 in 10 with SMA	04/30/2017	12/31/2017	Terminated
553089	TEST NG ISO				Pre Defined	Proxy DR	Meter Generation Output with 10 in 10	07/26/2018	07/29/2018	Confirmed
553085	TEST_NC_ISO1				Pre Defined	Proxy DR	Day Matching 10/10	07/26/2018	07/30/2018	Confirmed
553077	LL REG BM DAYMATCH 1010				Pre Defined	Proxy DR	Day Matching 10/10	07/26/2018	07/24/2019	Confirmed
553075	TEST_REG2				Pre Defined	Reliability DR	Meter Generation Output with 10 in 10	07/25/2018	07/31/2018	Confirmed
553072	TEST_REG				Pre Defined	Reliability DR	Weather Matching	08/01/2018	08/31/2018	Confirmed
553069	NC_NK_ISO				Pre Defined	Proxy DR	Meter Generation Output with 10 in 10	09/01/2018	09/30/2018	Confirmed
553043	ST_REG_DM5-10_TEST				Pre Defined	Proxy DR	Day Matching Combined	07/24/2018	09/29/2018	Confirmed
553040	ST_REG_DM5-10_TEST				Pre Defined	Proxy DR	Day Matching 5/10 (Residential Only)	07/24/2018	09/29/2018	Confirmed
553037	ST_REG_MGO_TEST_1010				Pre Defined	Proxy DR	Meter Generation Output with 10 in 10	07/24/2018	09/29/2018	Confirmed
553030	ST_REG_WM_TEST_1010				Pre Defined	Proxy DR	Meter Generation Output with 10 in 10	07/24/2018	09/29/2018	Confirmed
553019	ST_REG_WM_TEST_NU				Pre Defined	Proxy DR	Weather Matching	07/24/2018	10/31/2018	Confirmed
553015	LL-ESDER-001				Pre Defined	Proxy DR	Day Matching 10/10	07/23/2018	08/31/2018	Confirmed
553006	ST_REG_DMC_TEST7_NEW				Pre Defined	Proxy DR	Day Matching Combined	07/24/2018	11/29/2018	Confirmed
552981	ST_REG_DMC_TEST7				Pre Defined	Proxy DR	Day Matching Combined	07/23/2018	11/30/2018	Confirmed
552975	ST_REG_WM_TEST10 Update				Pre Defined	Proxy DR	Weather Matching	07/20/2018	08/30/2018	Confirmed
552964	ST_REG_MGO_TEST1 Update				Pre Defined	Proxy DR	Meter Generation Output	07/19/2018	07/19/2018	Terminated
552951	ST_REG_WM_TEST1				Pre Defined	Proxy DR	Weather Matching	07/19/2018	08/30/2018	Confirmed
552948	ST_REG_WM_TEST1				Pre Defined	Proxy DR	Weather Matching	07/19/2018	08/30/2018	Confirmed
552925	ST_REG_Day_Matching_Combined				Pre Defined	Reliability DR	Day Matching Combined	10/01/2018	10/31/2018	Confirmed
552922	ST_REG_Day Combined				Pre Defined	Reliability DR	Day Matching Combined	10/01/2018	10/30/2018	Confirmed
552919	ST_REG_Day Matching 5-10				Pre Defined	Proxy DR	Day Matching 5/10 (Residential Only)	10/01/2018	10/31/2018	Confirmed
552915	ST_REG_Day Matching 10-10				Pre Defined	Proxy DR	Day Matching 10/10	10/01/2018	10/31/2018	Confirmed
552863	L_ESDER_REG_TESTING2				Pre Defined	Proxy DR	Weather Matching	12/01/2018	12/30/2018	Confirmed
552823	test_reg				Pre Defined	Proxy DR	Meter Generation Output	09/01/2018	u9/30/2018	New
a a still of the	_									
ocation	s									
6 T 🛍 🗄	3			Rows 25 V						
oc ID	SAN Reso	arce ID Start date	End date Distribution Factor	or Control Treatment Group? Group?						
562926000002	SDG1002349	04/01/2017	12/31/2017	View Location						
582928000003	SDG1002350	04/01/2017	12/31/2017	View Location						
780786000001	SDG1002462	04/01/2017	12/31/2017	View Location						
780786000002	SDG1002463	04/01/2017	12/31/2017	View Location						

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

 \circ Input registration data.

参 California ISO	Demand Response Re	egistration	System	♦ ♦ 📾 ૨ ₽ ₽	\$ →	
DRP VIEW UDC VIEW LSE VIEW ADMINISTRATION						
DRP VIEW Registration						
Registration						
Reg Id		DRI	P SCID*	~		
Name*		P	Program*	~		
Start Date* 31		Resource	ce Type*	~		
End Date* 31		R	Resource	~		
DRP*			PMax			
UDC*			Status New			
Baseline Method*						
SUBLAP						
Refresh Available Locs Show/Refresh Available Locations	Locations list based on DRP, UDC, SUBLAP only & effective dates					
Available Locations		> S	elected Locations	;	Distribution Factor	
Image: Name SAN Start Date	Bod Date Rows 25 PNODE	ă			ਨੂੰ ∰ 4 4 0 - 0 of 0	
ib name SAN Statt Date			4 4 6 - 6 6 6	Rows 25 🗸	DNODE	Distribution Factor
		ID	NAME SAN Start End Date Date PNO	DE Control Treatment Group Group	PNODE	allowed)
		>>				

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

The following is a description of the fields requested to for input to **create** a Registration:

- Name DRP chosen name of the Registration. May contain alphanumeric and special characters, up to a max of 255
- **Start Date**⁷ The Start Date cannot be a prior date. Only Locations with start dates before and end dates after will be generated as Available Locations for selection
- End Date The End Date cannot be a prior date or overlap with an existing Active location with same SAN and UDC assignment
- DRP⁸ Demand Response Provider ID
- UDC Utility Distribution Company ID
- **Baseline Method** The Baseline Method that will be used to determine the performance of the Resource. This require approval by CAISO. Only the approved Performance Evaluation or Baseline Method will be available from the drop down.
- **SubLAP** The SubLAP in which all the locations within the registration reside
- **DRP SCID** The ID of the acting scheduling coordinator for the Registrations market Resource.
- **Program** Proxy DR or Reliability DR

⁷ The system validates effective dates input for the Registration against Location effective dates to determine available Locations that can be registered.

⁸ The system uses DRP, UDC, LSE and SubLAP information provided to ensure Locations presented as available have the same designations.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

• **Resource Type** Predefined or Custom.

 Available Locations will be filtered based on the Resource Type selection. When selecting Custom, only Locations with PNODE information can be selected for the Registration.

• Custom Resource ID

- If the DRP believes that the pre-defined Resource ID is not sufficient for its needs, the DRP selects or requests a custom Resource ID be assigned when the Registration is created. The information provided in the DRRS during the Registrations creation, including PNodes and their applicable Distribution Factors, is to develop the Custom Resource ID. This information is automatically provided from the DRRS to the applicable business unit that will then match this Registration information with the submitted Generator Resource Data Template.
- For an example (applicable for a PDR or RDRR): A DRP requests a custom Resource ID for 4 end use Loads that have the same LSE and are located in the same Sub-LAP. Based on historic Load of these 4 end use customers, 80% of the Load is connected to Bus 1 and 20% of the Load is connected to Bus 2.

Customer	LSE	Sub- LAP	Location	Registration	GDF	Custom DR Resource ID
1	Α	PGF1	Bus 1	Reg 01	0.8	PRMNTE_6_PDRC01
2	Α	PGF1	Bus 1	Reg 01		PRMNTE_6_PDRC01
3	Α	PGF1	Bus 2	Reg 01	0.2	PRMNTE_6_PDRC01
4	Α	PGF1	Bus 2	Reg 01		PRMNTE_6_PDRC01

Here is how it will look:

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

- Requesting a Custom Resource ID with Dynamic GDF
 - If approved by the CAISO, a DRP may submit GDFs as part of its Bid for a given PDR or RDRR. In order to be eligible to submit GDFs as part of a Bid, the DRP must request and receive approval from the CAISO to dynamically Bid GDFs. To request a custom GDF, please contact the PDR coordinator at pdr@caiso.com with the following information: Location of bus, and total MW. The custom GDF can be deployed based on the Master File deployment.

• Resource

- When Resource Type = Pre Defined
 - The drop-down list will show available resources that can be selected based on Registration information provided including Resource IDs previously assigned to the DRP and unassigned Pre Defined resource IDs for the identified SubLAP
- When Resource Type = Custom
 - The drop-down list will be blank. Once the Registration is submitted, DRP/SC shall notify the PDR Coordinator. The PDR coordinator will then update the DRRS and provide the resource id to the DRP. The Resource ID will not be visible until it is assigned to that Registration in the DRRS by the PDR coordinator.

• Show/Refresh Available Location

The system will generate a list of available Locations, to select from, based on the information provided when creating a Registration. The Locations list is based on DRP, UDC, SubLAP, and effective dates.

To select more than 25 location, in the Available Locations, change the number of Rows from 25 to 200.
 This will allow you to move more than 25 rows to the available locations.

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

• Move available locations to **Selected Locations**.

Distribution Factors for Custom Resource

See Approach 1 above.

4 Registration Management

The registration process builds <u>from</u> Performance/Baseline Methodology <u>to</u> location <u>to</u> registration to resource management.

Registration management includes the development of registration(s) by the DRP that identify the locations participating, in aggregate, as a PDR or RDRR for an effective period of time. Location information established, including its effective dates, control availability for their use by the DRP in creating registrations.

The DRRS provides a robust UI and API's for the DRP(s) use in performing their Registration development and management tasks. System generated email notifications are also generated as alerts to activities occurring that may require their attention.

4.1 DRRS User Interface (UI) Registration Management

The DRP may use either the Location view or Registration view to register one or multiple locations. The Registration view provides the DRP a list of all the Registrations created and saved or submitted with their Status. When highlighted, the view will list all Locations included in that Registration. When using the UI, DRRS limits to 200 locations per registration unless this is loaded using the API.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

4.1.1 Edit

To **Edit** a registration from the registration view, the DRP must first select the Registration to be edited then click on the **Edit** button under their Registrations View.

Note: If modifying the End Date, utilize the "**Terminate**" function instead; the system will determine the proper end-date of the registration based on 5 business days. The 5 business days window is to align with the Master File submission process.

DRP VIEW Registrations		
Reg Id Reg Name	DRP [ALL] 🔽 UI	DC [ALL] 🔽 LSE [ALL]
Create Edit Copy	Terminate	Delete
Registrations		
🏂 🍸 🕌 🔚 📢 🌗 1 - 10 of 🖿	A Registrations Status	
Select Reg ID 💙 Name	will affect how it can be edited.	DRP
✓ 542813 Create_Reg_Predefined		PL7 (1989) V

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	inal	

Edit Registra	ation			
Reg Id*	542866	DLAP*		
Name*	Test registration LK	DRP SCID*		
Start Date*	08/09/2016 31	Program*	Proxy DR	\checkmark
End Date*	08/12/2016 31	Resource Type*	Custom	\checkmark
DRP*	(MAR)	Resource	POLP J. PORPHI	
UDC*	SPGE (PMax		
LSE*	1.042	A Registration with a	PGLP_3_PORPS	w
SUBLAP*	8.40,9523	editable fields in white.	Confirmed	
	Cancel	Update		

Once the Registration is edited, the options to proceed include:

Cancel - Cancels Edit of the Registration.

Update - Updates the Registration maintaining its Registration ID.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

4.1.2 Copy

The **Copy** feature allows the DRP to create a new registration by copying an existing registration and making changes to the copied field information. Registrations in any status may be copied. To **Copy** a registration, the registration is first selected then the **Copy** button chosen under the Registrations View.

Note: If using this functionality for extending out a registration on a registration that is approaching end-date, verify the information including the Resource ID is the same and locations are not used in another registration prior to submitting.

DRP VIEW UDG														
DRP VIEW	Registrations													
Reg Id	Reg Name		[ALL] V LSE [ALL]	V SUB	LAP [ALL]	Apply Reset							
Create	Edit Co	py Terminate De	lete											
Registrati	ons													
🏂 🍸 🕌 🖪														
Select Reg ID	Name		DRP	UDC	LSE	SUBLAP	DLAP	DRP SC Resource ID	Resource Type	Program	Baseline Method	Start Date	End Date	Status
542868	Newly_Created_Registr	ation		1000	100				Custom	Proxy DR	10 in 10 with SMA	09/01/2016	09/30/2016	New

The Copy option takes the user to the Registration window and provides the same Options as Create registration:

Cancel - cancels the creation of a new registration.

Save - creates a new registration with changes and registration ID for it.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

4.1.3 Terminate

The **Terminate** feature allows the DRP to end-date a Registration. Registrations can only be end-dated when they are in the Confirmed status. The system will determine the proper end date of the registration based on the 5 business days from the current date. To **Terminate**, the Registration is first selected then the **Terminate** button chosen under the Registration View.

DRP VIEW	Registrations															
Reg Id	Reg Name] DRP	IDC [ALL]	LSE [ALL]	V SUB	LAP [AL	L) V	Apply Reset								
Create	Edit Copy	Terminate	Delete													
Registratio	ons															
🏂 🍸 🎽 🛅																
Select Reg ID	Name			DRP	UDC	LSE	SUBLAP	DLAP	DRP SC	Resource ID	Resource Type	Program	Baseline Method	Start Date	End Date	Status
542868	Newly_Created_Registration										Custom	Proxy DR	10 in 10 with SMA	09/01/2016	09/30/2016	New
542813	Create_Reg_Predefined				-	-					Pre Defined	Proxy DR	10 in 10 with SMA	09/05/2016	09/30/2016	Confirmed
Image: Select Reg ID Image: S	Name Newly_Created_Registration Create_Reg_Predefined			DRP	UDC	LSE	SUBLAP	DLAP	DRP SC	Resource ID	Resource Type Custom Pre Defined	Program Proxy DR Proxy DR	Baseline Method 10 in 10 with SMA 10 in 10 with SMA	Start Date 09/01/2016 09/05/2016	End Date 09/30/2016 09/30/2016	Status New Confirmed

Once **Terminate** is selected, the Registration to be end-dated will be identified and a confirmation to delete is required by selecting the **Continue** button.

DRP \	/IEW	Confirm	Terminate	Registrat	ions										
Regi	strati	ons													
È T	× 1	€ € 1	I - 1 of	1		- 0									
ID		E		DRP	UDC	LSE	SUBLAP	DLAP	DRP SC	RESOURCE	D Resource Type	e Program	Baseline Method	Start Date	End Date
542813	Creat	te_Reg_Pr	edefined		100	100	3.00,702	3.0.700,70			Pre Defined	Proxy DR	10 in 10 with SMA	09/05/2016	09/30/2016
-															
			1												
Are you	sure y	you wan	t to Term	iinate a	bove Re	gistratio	ons?								
Can	cel	Contir	nue												

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		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

A Registration is in a Terminate status when its effective end date is prior to the current date. Terminated Registrations are logically equivalent to deleted records. A Terminated Registration can be Copied but not Edited.

4.1.4 Delete

The **Delete** feature allows the DRP to delete a new Registration that are in draft (NEW) status. To **Delete** a Registration, the new Registration is first selected then the **Delete** button chosen under the Registrations View.

DRP VIEW	Registrations	/					
Reg Id	Reg Name DRP	UDC [ALL]	LSE [ALL]	SUBLAP	[ALL]	Apply Re	set
Create	Edit Copy Te	rminate Delete					
Registratio	ons						
🕆 🍸 🕌 🔚							
Select Reg ID	Name		DRP	UDO	с L	SE SUB	LAP DLAP
542868	Newly_Created_Registration						
Locations							
🕆 🍸 🕌 🖾							
Loc ID	SAN	Resource ID		Start date	End date	Distribution Fac	tor
542807	Create_Reg_Location2			09/01/2016	09/30/2016	0.65	View Location
542805	Create_Reg_Location			09/01/2016	09/30/2016	0.35	View Location

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

Once **Delete** is selected, the Registration to be deleted will be identified and a confirmation to delete is required by selecting the **Continue** button.

DRP	VIEW Confirm Delete Regist	rations									
Regi	strations										
₿ Y	🎽 🔍 🖣 1 - 1 of	1 🕨 🕅		l.							
ID	NAME	DRP	UDC LS	SUBLAP	DLAP	DRP SC RESOURCE	ID Resource Ty	pe Program	Baseline Method	Start Date	End Date
542868	Newly_Created_Registration	DATE.	and in	E RAF, PROD	BLAP, PLAN, PCSH	APRI	Custom	Proxy DR	10 in 10 with SMA	09/01/2016	09/30/2016
tre you	I sure you want to Delete	above Re	gistrations?								
Can	cel Continue										

A deleted Registration and its created Registration ID will no longer exist in the Registrations View.

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	inal

DRRS User Interface (UI) Resource Management

View of confirmed Registration in DRRS with Resource ID selected:

DRP VIEW		ATION		
Edit Registra	tion			
Reg Id*	543067			
Name*	Test for Registration	DRP SCID*		
Start Date*	01/16/2018 31	Program*	Proxy DR	~
End Date*	01/20/2018 31	Resource Type*	Pre Defined	~
DRP*	Resource ID for the Registration selected of	Resource	POLP J. FORMA	
UDC	in DRRS.	PMax	6.37	
		Baseline Method*	10 in 10 with SMA	~
SUBLAP*		Status	Confirmed	
	Cancel	Update		

🍣 California ISO	External Use	Version No.	4.7
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

4.2 Application Programming Interface (API) Registration and Resource Management

The DRRS provides APIs for the performance of all Registration management processing. Market Participants can retrieve or submit the following Registration data via the DRRS web services:

- Retrieve status for the creation or modification requests
- Retrieve DRRS Registrations
- Save request for creating new DRRS Registrations
- Delete request for deleting the /new DRRS Registrations
- Submit request for creating/terminating (end-date) DRRS Registrations
- Modify request for modifying (edit) DRRS Registrations

Technical ISO Interface Specifications with more detailed information are available on the ISO Developer website at https://developer.caiso.com. Login permission is required, and users can sign up on the website provided.



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4.7

5 Helpful Links

Document	Link
Application Access Request Form reference Guide	http://www.caiso.com/Documents/ApplicationAccessRequestFormReferenceGuide.pdf
Access and Identity Management (AIM) User Guide	http://www.caiso.com/Documents/AccessandIdentityManagement_AIM_UserGuide.pdf
Demand Response and Proxy Demand Resources FAQ	http://www.caiso.com/Documents/DemandResponseandProxyDemandResponseFAQversion5.xls
Demand Response Provider Agreement Information Request Sheet	http://www.caiso.com/Documents/DemandResponseProviderAgreementInformationRequestSheet. doc
Direct Telemetry BPM	http://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Direct Telemetry
External User Application Access request Form	http://www.caiso.com/Documents/UserApplicationAccessRequestForm.xls



ISO Connected Entity Service Guide	http://www.caiso.com/Documents/ISOConnectedEntityServiceGuide.pdf
List of certified SC's	http://www.caiso.com/Documents/List- SchedulingCoordinators_CRRHoldersandConvergenceBiddingEntities.pdf
List of Demand Response Participants	http://www.caiso.com/Documents/ListofDemandResponseParticipants.pdf
Load and Demand Response Page	http://www.caiso.com/participate/Pages/Load/Default.aspx
Load Serving Entity Request (LSE ID) Form	http://www.caiso.com/Documents/LoadServingEntityIDRequestForm.doc
Meter Service Agreement ISO Metered Entities Information Request Sheet	http://www.caiso.com/Documents/MeterServiceAgreement_ISOMeteredEntitiesInformationReques tSheet.doc
Meter Service Agreement Scheduling Coordinators Information Request Sheet	http://www.caiso.com/Documents/MeterServiceAgreement_SchedulingCoordinatorsInformationRe questSheet.doc



Metering BPM	http://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Metering	
New Resource Implementation Checklist	http://www.caiso.com/Documents/NewResourceImplementationChecklist.xlsxhttp://www.caiso.com/Document s/NewResourceImplementationChecklist.xls	
Requirements for becoming and Scheduling Coordinator	http://www.caiso.com/participate/Pages/SchedulingCoordinator/Default.aspx	
Reliability Demand Response Resource TrainingRequirements for becoming and Scheduling Coordinator	http://www.caiso.com/Documents/ReliabilityDemandResponseResourceOverview.pdf	
Energy Storage Distributed Energy Resources customer partnership group meeting artifacts including presentation	http://www.caiso.com/Documents/Presentation-EnergyStorage- DistributedEnergyResourcesPhases2-3-ImplementationCustomerPartnershipGroup-May6-2019.pdf	
Energy Storage Distributed Energy Resources – Phase 3 -Business Requirements	http://www.caiso.com/Documents/BusinessRequirementsSpecificationClean- EnergyStorageandDistributedEnergyResourcesPhase3.pdf	
DRRS Enhancement -Demand Response Location Registration Enhancement – Technical Specifications	http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspxhttp://www.caiso.com/Documents/Deman dResponseLocationRegistrationEnhancement-TechnicalSpecificationsv4REDLINED.pdf	



DRRS Enhancement -Summary of Use Case for Demand Response Solutions Registrations	http://www.caiso.com/Documents/SummaryofUseCaseforDemandResponseSolutions- Registrations.pdf
DRRS Enhancement -Location and Registration Life Cycle	http://www.caiso.com/Documents/LocationandRegistrationLifecycle.pdf
DRRS Enhancement -Summary of Use Case for Demand Response Solutions Locations	http://www.caiso.com/Documents/SummaryofUseCaseforDemandResponseSolutions-Locations.pdf
Example – Day Match Workbook	http://www.caiso.com/Documents/Example-DayMatchWorkbook.xlsx
Example – Day Randomization Validation	http://www.caiso.com/Documents/Example-RandomizationValidationTemplate.xlsx
Example – Weather Match Workbook	http://www.caiso.com/Documents/Example-WeatherMatchWorkbook.xlsx
GRDT and IRDT Definitions	http://www.caiso.com/Documents/GRDTandIRDTDefinitions.xls



	Version No.	4.7
External Use	Effective Date	11/7/2019

Final

Generator Resource Data Template (GRDT)	http://www.caiso.com/market/Pages/NetworkandResourceModeling/Default.aspx
Full Network Model Pricing Node	http://www.caiso.com/Documents/FullNetworkModel_PricingNodeMapping_Based_FullNetworkM odel_ReleaseDB2019Q2.xls

6 Revision History

Date	Version	Updated By	Description
03/24/15	3.7	Monica	Added info on BUS Pnode
			Added the following info to the LSE and UDC Commenting on a Registration sections Note: The Comments box is limited to <u>255</u> characters. If the LSE review generates comments larger than 255 characters.
03/25/15	3.7	Monica	When a comment is provided by the LSE indicating that there is a "review with findings" within the registration information, the CAISO will deny the registration. The DRP is required to resolve any issues related to the "findings" with the appropriate party. During that time, additional detail may be exchanged by parties to resolve all issues determined in the review process.



External Use

Version No.	4.7
Effective Date	11/7/2019

DEMAND RESPONSE REGISTRATION USER GUIDE

			CAISO's responsibility is to look for general comments as to why there is an issue with the registration and therefore does not require listing of multiple SANs that may be in conflict with availability to participate. The 255 character limitation should be sufficient to provide the CAISO with enough information to deny the registration and request issue resolution be made between the parties outside of the registration process. If the CAISO determines that there is error in the registration detail that needs to be corrected by the DRP, the registration will be denied as a means to alert
			by the CAISO.
06/04/15	3.8	Monica M.	Updated the sections pertaining to requesting for a DRP/LSE/UDC ID and OMS.
06/05/15	3.9	Monica M.	Added clarifying language for terminating location(s)/ALOC(s).
11/05/15	3.9	Monica M.	Incorporated the Jill's Demand Response Resource Participation Guide into the current Demand Response User Guide document and removed the original document off the external site.
			Added clarifying language for Reliability Demand Response Services Term.
04/12/16	3.10	Monica M.	Summer term runs from June through September – Winter term runs from October through May



External Use

Version No.4.7Effective
Date11/7/2019

DEMAND RESPONSE REGISTRATION USER GUIDE

4/19/16	3.11	Monica M.	Updated link on page 129 regarding the XML test materials. <u>http://www.caiso.com/Pages/documentsbygroup.aspx?Group</u> <u>ID=6A0B3CBD-4EE0-4BCD-B44F-CBB9E711D31F</u>
10/01/16	4.0	Jill Powers	Updated User Guide to include information related to the Enabling Demand Response Phase II for the PDR/RDRR Registration functionality transfer from DRS to DRRS. Updates to include new baseline and statistical sampling methodologies approved as part of Energy Storage and Distributed Energy Resource Initiative.
12/06/16	4.1	Monica M.	Updated the section on "Generation Resource Data Template Submission and Processing". Going forward, all GRDTs shall be submitted to <u>RDT@caiso.com</u> and no longer to <u>pdr@caiso.com</u> .
12/13/16	4.2	Monica M.	Updated the Market Participation chart under Customer Baseline Methodology.
5/5/2017	4.3	Tim B.	Completed unfinished sentence on last bullet of page 170 and changed page 84 to remove RDRR from statement regarding necessity of telemetry.



Version No.	4.7
Effective Date	11/7/2019

10/26/2018	4.4	Pia S.	Updated User Guide to include information related to the Energy Storage and Distributed Energy Phase II for the PDR/RDRR process and application.
10/31/2018	4.5	Pia S.	Updated sections: Purpose, Performance Evaluation/Baseline Methodology, "Generator Data Submission and Processing" for Custom Resource ID, and Telemetry.
8/16/2019	4.6	Pia S.	Updated: Removed sections related to business process to BPM for Demand Response, ESDER3a, DRRS Automated Email Notification, Application Access, helpful links Added: Appendix C, and Notes in Appendix A.
8/22/19	4.6a	Pia S.	Removed notes in section 3.3
11/7/19	4.7	Pia	 Updated sections: Title of the User Guide from Demand Response to Demand Response Registration User Guide. 1.3 Application Access 1.4 DRRS Automated Email Notification 2.1 Locations 2.3.1.2 Column Headers 3.1.1 Edit 3.1.5 Defend Appendix A – Three (3) Cases of Defend Process.
🍣 California ISO	External Use	Version No.	4.7
--------------------------	--------------	-------------------	-----------
		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Appendix A – Three (3) Possible Cases of Defend Process

All three (3) possible cases of defend process below starts with:

1)	Prospective DRP submit Location for approval through the UI.
2)	The Prospective DRP receives a message, "A Location with given SAN and UDC combination already exists, do you want to continue and initiate the Defend Process?" Prospective DRP complete all the required fields name, phone number, and comments. The Location for the SAN will be in " Duplicate " status after initiating the defense process.
3)	The Incumbent DRP Locations screen will show a status of Defense Active = Y, and the Defense Start, and Defense End.
4)	The Incumbent DRP may receive an email notification that "their location(s) has triggered the location defense process".

I. If Incumbent DRP <u>accepts</u> the Prospective DRP claim to the customer.

See steps 1-4 above.

5) The Incumbent DRP accepts the prospective DRP claim by releasing the Location for the SAN.

1. On the Locations screen, select the Location under the defense process, click "**Defend**". A "Selected Locations" screen will appear. <u>Do not</u> check the "Valid Location" box. Enter your name, Phone number, and Comment, and click "Continue"

6) The system will automatically update the "End Date" of the incumbent's DRP location and change the status of the Prospective DRP's Location from "**Duplicate**" to "**Pending**" for LSE and UDC approval.

7) The Prospective DRP's Location status changes to "Inactive" after approved by the LSE and UDC.

8) The Prospective DRP creates Registration for the Location.

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

2	Incumbent DRP rejects the Prospective DRP claim to the customer.										
	See steps 1-4 above.										
	5) The Prospective DRP's Location for the SAN will remain in the "Duplicate" status as the Incumbent DRP still owns the Location in an "Active" or "Inactive" status.										
	6) The Incumbent DRP rejects the Prospective's claim through the UI.										
	a. On the Lo	ocations screen, se	lect the	locati	on in de	efense proces	ss and click "Do	efend".			
	Create Copy Delete De	fend Withdraw Edit	End Date	Register	JUDLAP	[ALL] UCICINE	Status is ba	ased on whether	the Locatior	n is part of a	
	Locations						Registration	see section 2.5	for "Inactive	" and "Active"	Rows
	Select Loc ID Name	SAN	DRP	UDC	LSE SUBL	AP PNODE	Start Date	End Date	Status	Defense Active?	Defense End
		LOC2-psok						31	31 [ALL]	~	31
	142682 LOC2-psok	LOC2-psok					10/25/2019	10/31/2020	Inactive	Y 10/25/2019	11/08/2019
	b. Check the "Valid Location" box, Review Name, Phone number, and Comments.										



Locations de end	Locations	ATION				
Registrations	lions					
						Powe loc Lui
				DNODE Start Data	End Data	Location Status
142682 LOC2-psok	LOC2-psok	UDC L3L	JUDEAF	10/25/2019	10/31/2020	Inactive
LOOL DOOL	LOOL POOR			10/20/2010	10/01/2020	indouvo
Valid Locati	on 🖌					
Reviewer Nam	ne*					
Dhonot (Formati ywy						
Filone" (Format: XXX-XXX-XX	~~)					
Review Comme	Rejecting Prospective DI	RP claim.	0			
			~			
Are you sure you war	nt to Submit Defend F	Request for abo	ove Locations	?		
Conset 1	Oracliana					
Cancel	Continue					

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

7) After the Incumbent DRP rejects the Prospective DRP claim, the Defense Active flag, Defense Start, and End Date will be blank.								
8) The Prospective DRP will see the comments on the Locations screen > Location Defend Details – Incumbent.								
	✓ Location Defend Details - Incumbent							
	incumbent Name	Incumbent Contact Info	Incumbent Comments	Prospective Name	Prospective Contact Info	Prospective Comments		
	Name	916-351-0000	Incumbent Reason for rejecting the claim here	pia	000-000-0000	test		
	9) If the	Prospective DRP ag	rees with the Incumbent, the Prospect	ive DRP can <u>end date</u> o	or <u>delete</u> the Location	n.		
	If the Prospec outside of the	tive DRP disagrees	during the defense process, they mus cess.	t contact the Incumbent	DRP to resolve the	duplicate use conflict		
3.	Incumbent	DRP takes no a	ction within the 10 business day	/ window.				
See steps 1-4 above.								
	5) If the Incumbent DRP takes no action , the system will automatically end-date the Incumbent DRP's Locations, and its corresponding Registration <u>after</u> the 10 business days. The Incumbent DRP loses the Location, and the Prospective DRPs Location status will change from "Duplicate" to "Pending". In addition, the system will update the end date to 5 business days out for the location in the defend process and its corresponding registration.							

* The email notification from DRRS will be sent out the following day, and to only to those that are currently registered in the database. See DRRS Automated Email Notification section 1.4.

Note: As a result of the Defend process, the Location's <u>Review Start Date</u> may have a start date after the <u>Location's Start</u> <u>Date</u>, depending on when the LSE/UDC review process is triggered.

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Appendix B – Editable field(s) by Locations Status

Locations Status

New		
Fields	Validation Rules	Editable (Yes/No)
Start Date		Yes
End Date		Yes
Address (1 and/or 2)		Yes
City		Yes
State		Yes
Zip		Yes
LOC ID		Yes
SAN		Yes
DRP		Yes
UDC		Yes
SUBLAP		Yes
PNODE		Yes

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🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

Pending							
Cannot be edited. The Pending Location(s) only allows for end dating.							
Duplicate	Duplicate						
Cannot be edited. The Duplicate Location(s) only allows for end dating.						
Inactive							
Fields	Validation Rules	Editable (Yes/No)					
Start Date	IF Update > Existing/Recorded	THEN Yes ELSE No					
End Date	IF Update < Existing/Recorded	THEN Yes ELSE No					
Address		Yes					
City		Yes					
State		Yes					
Zip		Yes					
		No					
SAN		No					
		INO					

🍣 California ISO		Version No.	4.7
	External Use	Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	Fi	nal	

	SUBLAP		No						
	PNODE		No						
4									
ĺ									
	Fields	Validation Rules	Editable (Yes/No)						
	Start Date		No						
	End Date	IF Update < Existing/Recorded	THEN Yes						
			ELSE NO						
	Address		Yes						
			Mar						
	City		Yes						
	State		Ves						
	State		163						
	Zip		Yes						
	1								
	LOC ID		No						
	SAN		No						
	DRP		No						
	UDC		No						
	SUBLAP		No						
	PNODE		No						

		Version No.	4.7
California ISO	External Use	Effective Date	11/7/2019
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Appendix C - Customer Market Results Interface (CMRI)

Viewing Total Expected Energy (TEE)

🍣 California	ISO Customer Market Results Interfo	ice 🔶 🗰 🤁 🕫 🔿
Day-Ahead Real-Time	Post-Market Default Bids Convergence Bidding Forecast Referen	nce LSE Energy Imbalance Market F
Trade Date: 02/04/2019	Confirmed Dispatch Notice (CDN) CRN CRN CRN CALL	et
Expected Energ	Expected Energy Image: Second Energy ISO Commitme Image: Second Energy Non-Dispatchable Time Ranges Image: Second Energy	Real-Time Market Expected Energy C Type [MWH] [
× No Data found	Resource Level Movement	
Report Generated: 03/26/201	Regulation Pay for Performance Image: CRR Revenue Adjustments CRR Revenue Adjustments Details Image: CRR Revenue Adjustments	

	External Use	Version No.	4.7
California ISO		Effective Date	11/7/2019
DEMAND RESPONSE REGISTRA	TION USER GUIDE	Fi	nal

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Day-Ahead	Real-Time	Post-Market	Default Bids	Convergen	ce Bidding	Forecast Refer	rence LSE E	Energy Imbalance Market	Phase Shifter	Ga
Trade Date:	05/06/2019	31 Entity: Hour:		Resource: Interval:	0 item(s) [ALL] V	TEE	Apply Reset			
Expecte	d Energ	У					/			
¢ 🖹 🛛	1 -	20 of 820 🕨								
Trade Date 👍	SC ID	A Resource	🚖 Cor	nfiguration H E	our 🔶 In nding	terval 🚖 Energy 🍦 Type	Real-Time Market Type	Expected Energy [MWH]	OeOverlapMss [Yes/No]	
05/06/2019					20	12 RAMPT		-0.000104166	NO	
05/06/2019					20	12 RED	RTD	-0.000312499	NO	
05/06/2019					20	12 SRE		0.000312499	NO	
05/06/2019					20	12 TEE		0.00000000	NO	
05/06/2019					20	12 TTEE		-0.000104166	NO	
05/06/2019					21	1 DABE		0.000833333	NO	
05/06/2019					21	1 DASE		0.000833333	NO	
05/06/2019					21	1 RAMPT		-0.000104167	NO	
05/06/2019					21	1 RED	RTD	0.000104167	NO	
05/06/2019					21	1 SRE		-0.000312500	NO	
05/06/2019					21	1 TEE		0.000625000	NO	
05/06/2019					21	1 TTEE		0.000520833	NO	
05/06/2019					21	2 DABE		0.000833333	NO	
05/06/2019					21	2 DASE		0.000833333	NO	
05/06/2019					21	2 RED	RTD	0.000104167	NO	
05/06/2019					21	2 SRE		-0.000104167	NO	
05/06/2019					21	2 TEE		0.000833333	NO	
05/06/2019					21	2 TTEE		0.000833333	NO	
05/06/2019					21	3 DABE		0.000833333	NO	
05/06/2019					21	3 DASE		0.000833333	NO	

Report Generated: 05/15/2019 13:15:34