 California ISO	Operating Procedure Attachment	Procedure No.	4510B
		Version No.	7.0
		Effective Date	3/20/2020
Demand Response and UDC Interruptible Programs		Distribution Restriction: None	

Purpose

This procedure provides instructions on submitting demand response resource forecast and availability information for each operating day to the ISO and the applicable area Grid Control Operations Centers.

These guidelines have been developed and agreed upon through a collaborative effort between the ISO, the CPUC, and the Investor Owned Utilities (IOUs), with the objective to implement a process for effectively and timely communicating the megawatt amount of scheduled and forecast demand response resources under the current programs managed by PG&E, SCE and SDG&E.

Program Descriptions

Day-Ahead Non-Emergency Programs

Day-Ahead utility demand response programs are initiated by the IOUs and are triggered based on various conditions such as the day-ahead forecasted temperature, day-ahead forecasted demand, and high price forecasts. These triggers may also include notification by the IOUs as prompted by ISO declared Alerts (Day-Ahead by 1500). Customers are typically notified the day prior to the event-day that the program will be triggered.


Day-of Non-Emergency and Emergency DR Programs

Day-of price responsive demand response programs are initiated by the IOUs based on ISO system conditions or other specific triggers such as forecasted load, expected heat rate indicator, forecasted high prices, forecasted or actual temperature, ISO declared Warnings or System Emergency (including Stage 1, 2, or 3, or Transmission Emergencies). ISO declared System Emergencies are covered under the Emergency Programs, as described below.

Under day-of price responsive demand response programs, customers are notified the same day the event will occur, and depending on the program, are given as much as 3 hours notice to as little as 15 minutes notice to curtail load.

ISO Operating Procedures [4420 System Emergency](#) and [4420B Alert/Warning/Emergency \(AWE\) Guide](#) describe the roles and responsibilities during emergency operations and details how the ISO calls on Demand Response programs and UDC's interruptible loads, per ISO Operating Procedures [4420 System Emergency](#) and [4420B Alert/Warning/Emergency \(AWE\) Guide](#). This triggers the IOUs emergency demand response programs.

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Daily Reporting Instructions

The IOUs will report daily scheduled and available demand response program megawatt (MW) values to the ISO in the day-ahead and day-of timeframes.

Each day, each IOU will complete and submit **via E-mail** the Excel spreadsheet “Daily DR Reporting Template” by 08:00 hrs (7 days a week) to IOU’s area Grid Control Operations Centers as well as the following:

ISO Shift Managers	shiftmanagers@caiso.com
ISO Market Operations	ISODAM@caiso.com
CPUC - Bruce Kaneshiro	bruce.kaneshiro@cpuc.ca.gov


The spreadsheet includes:

- MW values for Day-Ahead and Day-of non-emergency and emergency programs, which have been committed by the IOU and what remains available and uncommitted.
- Demand response MW committed by hour in the Day-Ahead, if applicable.
- Incremental Demand response MW amount that remains available by hour and by response time (and areas or regions, where applicable) to the ISO, Day-of.

Once the spreadsheet is submitted:

- Additional Demand response commitments scheduled in the Day-Ahead by the IOU can be included in the “Scheduled Day-of” section on the spreadsheet the following day.
- Any additional commitments scheduled on the “Day-of” must be communicated to the area PTO and ISO by phone.

The spreadsheet can be found in ISO Operating Procedure [4510F Demand Response Daily Reporting](#).

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Supporting Information

Operationally Affected Parties

Shared with the Public.

Version History

Version	Change	Date
6.1	Updates made due to RDRR Project no longer applicable and current changes in 4510.	6/16/15
6.2	Annual content update; removed contacts from list under Daily Reporting Instructions.	8/10/2017
7.0	Periodic review: Added Supporting Information Section header, added Operationally Affected Parties Section and deleted Technical Review Section. Minor format and grammar updates.	3/20/2020

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