



# **Exceptional Dispatch Report**

## **Table 2: September 2022**

Market Analysis and Forecasting

November 15, 2022

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## Introduction

This report is filed pursuant to FERC’s September 2, 2009, and May 4, 2010, orders in ER08-1178. These orders require two monthly Exceptional Dispatch reports—one issued on the 15<sup>th</sup> of each month and one originally issued on the 30<sup>th</sup> of each month. Both Table 1 and Table 2 reports will be issued on the 15<sup>th</sup> of each month due to the availability of necessary data. This report provides data on the frequency, reasons and costs for Exceptional Dispatches issued in September 2022.

This report contains a price impact analysis as prescribed by FERC in its September 2 order. The price impact analysis for the month of September is presented in Appendix B. This report also includes mitigation analysis for September 2022 required by section 34.11.4 of the CAISO tariff. This analysis compares those Exceptional Dispatches subject to bid mitigation ( i.e. Exceptional Dispatches to address noncompetitive constraints and Delta Dispatch), and determines the cost difference between the Exceptional Dispatch bid mitigation settlement rules and what the settlement amount would have been had the Exceptional Dispatches not been subject to bid mitigation. The Exceptional Dispatch bid mitigation analysis for September is presented in Appendix C.

## The Nature of Exceptional Dispatch

The CAISO can issue exceptional dispatch instructions for a resource as a pre-day-ahead unit commitment, a post day-ahead unit commitment or a real-time exceptional dispatch. A pre-day-ahead unit commitment is an exceptional dispatch instruction committing a resource at or above its physical minimum (Pmin) operating level in the day-ahead market. A post-day-ahead unit commitment is an exceptional dispatch instruction committing a resource at or above its (Pmin) operating level in the real-time market. A real-time exceptional dispatch instructs a resource to operate at or above its physical minimum operating point. A real-time exceptional dispatch above the resource’s day-ahead award is an incremental exceptional dispatch instruction and a real-time exceptional dispatch below the day-ahead award is considered a decremental dispatch instruction. The CAISO issues exceptional dispatch instructions to maintain the reliability of the grid when the market software cannot do so. Whenever the CAISO issues an exceptional dispatch instruction, the operator logs the dispatch and the associated reason. Reliability requirements are calculated for both local area and the system wide needs, and are classified into various requirements including local generation, transmission management, non-modeled transmission outages, ramping and intertie emergency assistance. Whenever the CAISO issues an exceptional dispatch instruction, the operators log these instructions and the associated reason for each instruction.

Most of the generation procedures are internal to the CAISO and not available publicly on the CAISO website; however, all of the transmission procedures are available on the CAISO website.<sup>1</sup>

Additional reasons for exceptional dispatch instructions in 2022 include Software Limitation. Software Limitation is used when an exceptional dispatch instruction was issued to bridge schedules across days for resources with a minimum down time of 24 hours, as the CAISO software does not handle multi-day commitment. For instance, a resource has a day-ahead schedule from 0600 till 2300, and then is shut down in 2400. If this resource had a minimum down time of 24 hours and it is required the following day, then the CAISO issues an exceptional dispatch to commit this resource in 2400 so it can be dispatched economically in the following day. Software Limitation was also used for exceptional dispatches to manually issue shut down instructions to a resource because of a temporary Automatic Dispatch System (“ADS”) failure, or similar issues. Interconnection Reliability Operating Limits (IROL) are system operating limits that are established to prevent instability, uncontrolled separation or cascading as described in operating procedure 3100. System Operating Limit (SOL) are the facility ratings, system voltage limits, transient stability limits, and voltage stability limits that are used in the operating horizon – any of which can be the most restrictive limit at any point in time, pre – or post – contingency. Control Point (CP) are imposed to protect the area transmission network against N – 1 contingencies. There were a few other reasons used to explain exceptional dispatch instructions in September, which are self-explanatory.

The data in Table 1 is based on a template specified in the September 2009 order.<sup>2</sup> This table contains all the information published in Table 1 of the first report for September 2022. In addition, it contains volume (MWh) and cost information. Each entry in Table 1 is a summary of exceptional dispatches classified by (1) the reason for the exceptional dispatch; (2) the location of the resource by Participating Transmission Owner (PTO) service area; (3) the Local Reliability Area (LRA) where applicable; (4) the market in which the exceptional dispatch occurred (day-ahead vs. real-time); and (5) the date of the exceptional dispatch. For each classification the following information is provided: (1) Megawatts (MW); (2) Commitment; (3) Inc or Dec; (4) Hours; (5) Begin Time; (6) End Time; (7) Total Volume (MWh); (8) Min Load Cost; (9) Start Up Cost; (10) CC6470; (11) ED Volume (MWh INC/DEC); (12) CC6470 INC; (13) CC6470 DEC; (14) CC6482; (15) CC6488; and (16) CC6620. Each column is defined:

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<sup>1</sup> A list of all of the CAISO’s Operating Procedures and all the publicly available Operating Procedures are available at the following link:  
<http://www.caiso.com/thegrid/operations/opsdoc/index.html>

<sup>2</sup> The data in Table 1 is principally SLIC information supplemented with data from the Market Quality System (MQS) and Settlements database. The volume and cost information is based on t+51B Recalculation Statements.

- The MW column shows the range of exceptional dispatch instruction in MW for the classification.
- The Commitment column specifies if there was a unit commitment for the classification.
- The INC/DEC/NA column specifies if there was an incremental dispatch (INC), a decremental dispatch (DEC), or only a unit commitment (NA). The Begin Time and End Time columns show the start and end time of exceptional dispatch for the classification respectively.
- The Hours column is the time difference between begin time and end time rounded up to the next hour.
- The total volume column shows the total MWh dispatch quantity dispatched for that classification. This quantity includes the minimum load quantity, the imbalance energy quantity, and the exceptional dispatch quantity.
- The Min-Load Cost column shows eligible minimum load cost for the classification.
- The Start-Up Cost column shows the eligible start up cost for the classification. The CAISO does not explicitly pay resources for its start up and minimum load costs; however, it ensures that resources are compensated adequately through its bid cost recovery.<sup>3</sup>
- The CC6470 column shows the total imbalance energy costs for the classification. This cost contains the portion of exceptional dispatch instruction settled as optimal energy due to its bid price being less than the LMP in the relevant settlement interval.
- The ED Volume MWh (MWh INC/DEC) column shows the incremental or the decremental portion of the real-time exceptional dispatch MWh for the classification. The CC6470-INC shows that portion of incremental exceptional dispatch instruction settled at the resource LMP.
- The CC6470-DEC column shows that portion of decremental exceptional dispatch instruction settled at the resource specific LMP. Both these charge codes are portions of the real-time instructed imbalance energy charge code (6470).<sup>4</sup>
- The CC6482 column shows the real-time excess cost for the classification.<sup>5</sup>
- The CC6488 column shows the real-time exceptional dispatch uplift settlement for the classification.<sup>6</sup> The CC6620 shows the bid cost recovery payment for the classification. This cost is shown for all pre-day-ahead unit commitments only.

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<sup>3</sup> For further details regarding the Bid Cost Recovery process please refer to section 11.8 of the CAISO tariff.

<sup>4</sup> For further details please refer to the BPM configuration Guide: Real-Time Instructed Imbalance Energy Settlement published on the CAISO's website.

<sup>5</sup> For further details please refer to the BPM configuration Guide: Real Time Excess Cost for Instructed Energy Settlement published on the CAISO's website.

<sup>6</sup> For further details please refer to the BPM configuration Guide: Real Time Exceptional Dispatch Uplift Settlement published on the CAISO's website.

Charge codes 6470, 6470 INC, 6470 DEC, 6482 and 6488 are shown in Table 1 because all these charge codes pertain to real-time exceptional dispatch MWH quantities. The classification of data is further explained for example in Attachment A.

Exceptional dispatches with the reason “Reliability Assessment” were due to Real Time Contingency Analysis, Voltage Stability Analysis, and operating procedure number 7110. Reliability Assessment is the reason as explained in the operator procedure 2330C that encompasses Control Point (CP), Interconnection Reliability Operating Limit (IROL), System Operating Limit (SOL) and congestion related EDs. This reason is used to mitigate reliability issues identified through the real – time assessment tools such as Real Time Contingency Analysis (RTCA), Voltage Stability Analysis (VSA), Dynamic Stability Analysis (DSA) and/or Operating Procedure (OP) or offline study.

**Table 1: Exceptional Dispatches in September 2022**

California Independent System Operator Corporation Exceptional Dispatch Report November 15, 2022																					
Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022																					
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
1	RT	Bridging Schedules	SCE	Big Creek-Ventura	9/1/2022	50	No	INC	13	0:00	13:00	500.38	488224.99	0.00	-54446.68	0.00	0.00	0.00	0.00	0.00	0.00
2	RT	Bridging Schedules	SCE	LA Basin	9/20/2022	10	Yes	INC	1	23:00	0:00	0.00	7612.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	RT	Bridging Schedules	SCE	LA Basin	9/30/2022	20	Yes	INC	1	23:00	0:00	0.00	4171.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	9/10/2022	400	No	DEC	7	10:20	17:00	-356.95	0.00	0.00	22711.15	-192.23	0.00	12310.09	0.00	0.00	0.00
5	RT	Fast Start Unit Management	PGAE	Fresno	9/6/2022	100	No	DEC	4	13:05	17:00	1.84	0.00	0.00	-2237.86	0.00	0.00	0.00	0.00	0.00	0.00
6	RT	Fast Start Unit Management	PGAE	Sierra	9/7/2022	20	No	DEC	13	11:00	0:00	14.33	0.00	0.00	-2630.67	0.00	0.00	0.00	0.00	0.00	0.00
7	RT	Fast Start Unit Management	PGAE	Sierra	9/7/2022	20	No	INC	1	10:45	11:00	-2.33	948.27	0.00	264.30	0.00	0.00	0.00	0.00	0.00	0.00
8	RT	Fast Start Unit Management	PGAE	NA	9/1/2022	50	No	DEC	9	11:30	20:30	3464.01	-210233.04	0.00	-800841.53	0.00	0.00	0.00	0.00	0.00	0.00
9	RT	Fast Start Unit Management	PGAE	NA	9/6/2022	307	No	DEC	3	13:10	15:30	-83.77	0.00	2618.52	-8436.59	-37.57	0.00	2785.80	0.00	0.00	0.00
10	RT	Fast Start Unit Management	PGAE	NA	9/7/2022	307	No	DEC	16	6:30	22:00	-27.08	0.00	0.00	-3184.60	0.00	0.00	0.00	0.00	0.00	0.00
11	RT	Fast Start Unit Management	PGAE	NA	9/7/2022	307	No	INC	11	8:00	19:00	77.54	77231.70	0.00	-6952.49	0.00	0.00	0.00	0.00	0.00	0.00
12	RT	Fast Start Unit Management	SCE	LA Basin	9/6/2022	151	No	INC	2	10:40	12:00	64.34	0.00	0.00	-8029.22	0.98	-124.58	0.00	0.00	0.00	0.00
13	RT	Fast Start Unit Management	SCE	LA Basin	9/7/2022	0	No	INC	1	17:35	18:00	-2.08	250.54	0.00	0.00	-2.08	0.00	0.00	0.00	0.00	0.00
14	RT	Fast Start Unit Management	SCE	LA Basin	9/9/2022	20 - 50	No	DEC	7	14:45	21:00	-26.50	0.00	0.00	2423.00	0.00	0.00	0.00	0.00	0.00	0.00
15	RT	Fast Start Unit Management	SCE	LA Basin	9/20/2022	0	No	INC	3	6:00	8:20	-81.98	5730.76	152.51	0.00	-81.98	0.00	0.00	0.00	0.00	0.00
16	RT	Gas Limitations	SDGE	San Diego-IV	9/1/2022	160	No	DEC	1	14:00	14:45	20.50	0.00	0.00	-17732.58	-36.05	0.00	6208.31	0.00	0.00	0.00
17	RT	Gas Limitations	SDGE	San Diego-IV	9/1/2022	160	No	INC	1	13:35	14:00	-91.08	8615.18	0.00	14187.49	-91.08	0.00	14187.49	0.00	0.00	0.00

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Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
18	RT	Incomplete or Inaccurate Transmission	PGAE	Sierra	9/1/2022	20	No	DEC	11	11:45	22:00	30.93	0.00	0.00	-2824.18	0.00	0.00	0.00	0.00	0.00	0.00
19	RT	Incomplete or Inaccurate Transmission	PGAE	Sierra	9/4/2022	20	Yes	DEC	5	18:05	23:00	-9.78	-3934.45	0.00	676.39	0.00	0.00	0.00	0.00	0.00	0.00
20	RT	Incomplete or Inaccurate Transmission	PGAE	Stockton	9/9/2022	30 - 45	No	DEC	6	14:25	20:00	0.99	0.00	0.00	-100.29	0.00	0.00	0.00	0.00	0.00	0.00
21	RT	Incomplete or Inaccurate Transmission	PGAE	Stockton	9/9/2022	30 - 55	No	INC	7	15:00	22:00	42.46	0.00	0.00	-4356.06	45.68	4652.97	0.00	0.00	-36.06	0.00
22	RT	Incomplete or Inaccurate Transmission	SDGE	San Diego-IV	9/2/2022	37	No	DEC	5	15:00	20:00	-12.00	0.00	0.00	1801.49	0.00	0.00	0.00	0.00	0.00	0.00
23	RT	Incomplete or Inaccurate Transmission	SDGE	San Diego-IV	9/2/2022	37	No	INC	3	12:40	15:00	23.78	0.00	0.00	-3309.99	0.07	-8.65	0.00	0.00	-17.09	0.00
24	RT	Incomplete or Inaccurate Transmission	SDGE	San Diego-IV	9/4/2022	37 - 39	No	DEC	7	15:00	22:00	-3.90	0.00	0.00	-1212.65	0.00	0.00	0.00	0.00	0.00	0.00
25	RT	Incomplete or Inaccurate Transmission	SDGE	San Diego-IV	9/4/2022	37 - 39	No	INC	14	10:30	0:00	23.82	39706.94	0.00	-3543.97	0.50	-74.89	0.00	0.00	-307.21	0.00
26	RT	Incomplete or Inaccurate Transmission	SDGE	San Diego-IV	9/9/2022	200	No	DEC	1	12:00	13:00	-61.53	0.00	0.00	12722.82	0.00	0.00	0.00	0.00	0.00	0.00
27	RT	Incomplete or Inaccurate Transmission	SDGE	San Diego-IV	9/9/2022	200	No	INC	1	11:45	12:00	49.26	0.00	0.00	-8486.34	0.00	0.00	0.00	0.00	0.00	0.00
28	RT	Intertie Emergency Assistance	Intertie	NA	9/6/2022	24 - 43	No	DEC	4	17:00	21:00	-37.75	0.00	0.00	17444.01	0.00	0.00	0.00	0.00	0.00	0.00
29	RT	Intertie Emergency Assistance	Intertie	NA	9/7/2022	75	No	INC	5	16:00	21:00	-159.50	0.00	0.00	-13312.66	12.50	-705.63	0.00	0.00	0.00	0.00
30	RT	Intertie Emergency Assistance	Intertie	NA	9/8/2022	0.01	No	DEC	1	14:25	15:00	42.50	0.00	0.00	-7936.94	5.00	1172.24	0.00	0.00	0.00	0.00
31	RT	Intertie Emergency Assistance	Intertie	NA	9/8/2022	185	No	INC	1	14:10	14:45	0.00	0.00	0.00	0.00	-38.75	2221.60	85000.00	0.00	0.00	0.00
32	RT	Load Forecast Uncertainty	Intertie	NA	9/1/2022	25	No	INC	1	18:30	19:00	6.25	0.00	0.00	-5217.53	2.08	-730.74	0.00	0.00	-1329.68	0.00
33	RT	Load Forecast Uncertainty	Intertie	NA	9/6/2022	91 - 317	No	INC	5	16:00	21:00	-60.25	0.00	0.00	30753.78	0.00	0.00	0.00	0.00	8291.55	0.00
34	RT	Load Forecast Uncertainty	Intertie	NA	9/7/2022	14	No	DEC	1	17:00	18:00	15.50	0.00	0.00	-3499.55	-1.50	0.00	0.00	0.00	0.00	0.00



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Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
35	RT	Load Forecast Uncertainty	Intertie	NA	9/7/2022	50 - 363	No	INC	3	18:00	21:00	-30.17	0.00	0.00	-573.10	0.00	0.00	0.00	-67128.58	0.00	0.00
36	RT	Load Forecast Uncertainty	Intertie	NA	9/8/2022	21 - 576	No	INC	5	16:00	21:00	-85.00	0.00	0.00	-104827.54	0.00	0.00	0.00	-15473.71	0.00	0.00
37	RT	Load Forecast Uncertainty	Intertie	NA	9/9/2022	28 - 338	No	INC	4	16:00	20:00	-484.00	0.00	0.00	18886.48	0.00	0.00	0.00	0.00	0.00	0.00
38	RT	Load Forecast Uncertainty	PGAE	Bay Area	9/1/2022	585	No	INC	3	18:00	21:00	14.70	0.00	0.00	-1705.40	0.00	0.00	0.00	0.00	0.00	0.00
39	RT	Load Forecast Uncertainty	PGAE	Bay Area	9/6/2022	816	No	DEC	1	19:00	20:00	411.35	-14597.66	0.00	-805881.69	0.90	1756.40	0.00	0.00	0.00	0.00
40	RT	Load Forecast Uncertainty	PGAE	Bay Area	9/6/2022	816	No	INC	4	18:20	22:00	1551.06	-9731.78	0.00	-2026568.31	66.02	100451.97	0.00	-38.86	0.00	0.00
41	RT	Load Forecast Uncertainty	PGAE	Fresno	9/6/2022	386	No	INC	1	18:30	19:05	106.71	0.00	0.00	-219952.20	0.00	0.00	0.00	0.00	0.00	0.00
42	RT	Load Forecast Uncertainty	PGAE	Fresno	9/8/2022	49 - 50	No	DEC	5	16:05	21:00	-113.42	0.00	0.00	-30724.07	0.00	0.00	0.00	0.00	0.00	0.00
43	RT	Load Forecast Uncertainty	PGAE	NA	9/1/2022	641	No	INC	3	18:00	21:00	-31.26	0.00	0.00	13850.67	0.00	0.00	0.00	0.00	0.00	0.00
44	RT	Load Forecast Uncertainty	PGAE	NA	9/6/2022	388	No	DEC	2	20:00	22:00	6.10	0.00	0.00	-12100.22	0.00	0.00	0.00	0.00	0.00	0.00
45	RT	Load Forecast Uncertainty	PGAE	NA	9/6/2022	388 - 400	No	INC	2	18:40	20:00	83.10	-9102.33	0.00	-158205.21	8.01	15255.42	0.00	0.00	0.00	0.00
46	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/1/2022	100	No	DEC	13	11:00	0:00	-38.85	0.00	0.00	7197.53	0.00	0.00	0.00	0.00	0.00	0.00
47	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/1/2022	74 - 100	No	INC	18	2:30	20:30	2.77	0.00	0.00	-1152.07	4.88	1391.18	0.00	-51.22	0.00	0.00
48	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/3/2022	100	No	INC	3	21:00	0:00	60.27	170829.97	0.00	-8406.04	0.00	0.00	0.00	0.00	0.00	0.00
49	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/5/2022	50	No	DEC	2	22:00	0:00	57.08	-6243.70	0.00	-8983.01	0.00	0.00	0.00	0.00	0.00	0.00
50	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/5/2022	50	No	INC	7	6:00	13:00	4.17	153117.58	0.00	-1554.35	0.00	0.00	0.00	0.00	0.00	0.00
51	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/8/2022	3	No	DEC	10	12:45	22:00	2.70	0.00	0.00	-393.82	0.00	0.00	0.00	0.00	0.00	0.00

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Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
52	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/9/2022	741 - 750	No	INC	6	14:00	19:45	-100.47	31972.47	0.00	8036.01	66.23	5378.66	0.00	-55486.38	0.00	0.00
53	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/11/2022	50	No	INC	13	11:00	0:00	14.58	180679.07	0.00	-991.09	0.00	0.00	0.00	0.00	0.00	0.00
54	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9/26/2022	405	No	DEC	6	16:00	22:00	-99.88	-23504.06	0.00	14023.14	0.00	0.00	0.00	0.00	0.00	0.00
55	RT	Load Forecast Uncertainty	SCE	LA Basin	9/2/2022	10	No	INC	6	0:00	6:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	RT	Load Forecast Uncertainty	SCE	LA Basin	9/3/2022	10	No	INC	1	23:00	0:00	0.00	6054.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	RT	Load Forecast Uncertainty	SCE	LA Basin	9/4/2022	133	No	DEC	12	12:00	0:00	-16.72	56534.50	0.00	2209.89	0.00	0.00	0.00	0.00	0.00	0.00
58	RT	Load Forecast Uncertainty	SCE	LA Basin	9/4/2022	10 - 133	Yes	INC	18	6:35	0:00	448.72	139206.42	0.00	-41369.17	0.00	0.00	0.00	0.00	0.00	0.00
59	RT	Load Forecast Uncertainty	SCE	LA Basin	9/5/2022	242	No	DEC	4	19:05	23:00	341.50	-24309.38	0.00	-196803.60	0.00	0.00	0.00	0.00	0.00	0.00
60	RT	Load Forecast Uncertainty	SCE	LA Basin	9/7/2022	10	Yes	INC	1	23:00	0:00	0.00	6078.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	RT	Load Forecast Uncertainty	SCE	LA Basin	9/8/2022	70	No	INC	8	16:55	0:00	120.78	57781.89	29375.35	-68318.55	0.00	0.00	0.00	0.00	0.00	0.00
62	RT	Load Forecast Uncertainty	SCE	LA Basin	9/9/2022	172 - 480	No	INC	7	14:00	21:00	39.41	62172.60	0.00	-2512.51	24.81	2140.66	0.00	-66335.01	0.00	0.00
63	RT	Load Forecast Uncertainty	SCE	LA Basin	9/25/2022	10	No	INC	21	3:00	0:00	-181.64	40424.80	0.00	14856.89	0.00	0.00	0.00	0.00	0.00	0.00
64	RT	Load Forecast Uncertainty	SCE	LA Basin	9/26/2022	10-20	Yes	INC	1	23:00	0:00	1.05	14114.95	0.00	-55.54	0.00	0.00	0.00	0.00	0.00	0.00
65	RT	Load Forecast Uncertainty	SCE	LA Basin	9/27/2022	70 - 130	No	INC	23	1:00	0:00	-362.64	569739.01	447261.67	85245.65	0.00	0.00	0.00	0.00	0.00	0.00
66	RT	Load Forecast Uncertainty	SCE	LA Basin	9/28/2022	70	No	INC	1	0:00	1:00	5.83	0.00	0.00	-372.16	0.00	0.00	0.00	0.00	0.00	0.00
67	RT	Load Forecast Uncertainty	SCE	NA	9/1/2022	410	No	DEC	2	19:00	21:00	0.00	0.00	0.00	-323.59	0.00	0.00	0.00	0.00	0.00	0.00
68	RT	Load Forecast Uncertainty	SCE	NA	9/1/2022	410	No	INC	1	18:00	19:00	0.00	0.00	0.00	307.61	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
69	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	9/1/2022	20 - 565	No	INC	4	17:30	21:30	47.02	132750.12	0.00	-19313.87	0.02	-12.22	0.00	0.00	0.00	0.00
70	RT	Market Disruption	PGAE	Bay Area	9/1/2022	0	No	INC	1	0:20	1:00	139.38	0.00	0.00	-14805.21	110.62	-11768.91	0.00	0.00	0.00	0.00
71	RT	Market Disruption	PGAE	Fresno	9/1/2022	83 - 400	No	INC	1	0:20	1:15	46.99	0.00	0.00	-4325.05	70.24	7205.43	0.00	0.00	0.00	0.00
72	RT	Market Disruption	PGAE	Fresno	9/29/2022	384	No	INC	1	20:00	20:15	46.51	0.00	0.00	-2760.40	53.32	3164.58	0.00	1496.13	0.00	0.00
73	RT	Market Disruption	SCE	Big Creek-Ventura	9/1/2022	650	No	INC	1	0:25	1:00	153.50	0.00	0.00	-17057.40	153.50	17057.40	0.00	28224.24	0.00	0.00
74	RT	Market Disruption	SCE	NA	9/1/2022	200	No	INC	1	0:25	1:00	100.96	0.00	0.00	-11154.01	100.96	11154.01	0.00	0.00	0.00	0.00
75	RT	Other Reliability Requirement	PGAE	Bay Area	9/5/2022	64 - 296	No	DEC	11	10:20	21:00	56.70	-161054.82	0.00	-143794.70	0.00	0.00	0.00	0.00	0.00	0.00
76	RT	Other Reliability Requirement	PGAE	Bay Area	9/5/2022	296 - 510	No	INC	5	16:20	21:00	13.19	-21732.10	0.00	-6795.38	0.00	0.00	0.00	0.00	0.00	0.00
77	RT	Other Reliability Requirement	PGAE	Bay Area	9/6/2022	-914	No	DEC	13	8:15	21:00	1108.85	-127803.90	0.00	2088159.93	-88.30	39668.34	16139.91	0.00	0.00	0.00
78	RT	Other Reliability Requirement	PGAE	Bay Area	9/6/2022	296 - 814	No	INC	5	15:00	20:00	171.03	-150312.90	0.00	-435260.06	0.00	0.00	0.00	0.00	0.00	0.00
79	RT	Other Reliability Requirement	PGAE	Bay Area	9/7/2022	0 - 64	No	DEC	9	7:15	16:00	231.60	-133904.56	0.00	-26125.30	0.00	0.00	0.00	0.00	0.00	0.00
80	RT	Other Reliability Requirement	PGAE	Bay Area	9/7/2022	0	No	INC	3	13:40	16:30	-28.58	0.00	0.00	1349.30	0.00	0.00	0.00	0.00	0.00	0.00
81	RT	Other Reliability Requirement	PGAE	Fresno	9/7/2022	0 - 44	No	DEC	6	15:00	21:00	-12.43	0.00	0.00	1483.05	0.00	0.00	0.00	0.00	0.00	0.00
82	RT	Other Reliability Requirement	PGAE	Fresno	9/7/2022	44	No	INC	1	14:45	15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	RT	Other Reliability Requirement	PGAE	Fresno	9/20/2022	200	No	INC	1	2:15	2:30	-11.80	2097.24	0.00	893.39	0.00	0.00	0.00	0.00	0.00	0.00
84	RT	Other Reliability Requirement	PGAE	NA	9/5/2022	60	No	INC	4	17:55	21:00	28.31	0.00	0.00	-46535.14	23.90	37458.50	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
85	RT	Other Reliability Requirement	PGAE	NA	9/5/2022	2.6495 - 29.36	No	INC	5	18:30	23:20	-10.11	0.00	0.00	-29069.24	13.98	-25979.39	0.00	0.00	0.00	0.00
86	RT	Other Reliability Requirement	PGAE	NA	9/6/2022	-60	No	DEC	1	16:35	17:00	-15.06	0.00	0.00	1900.50	-14.06	0.00	617.87	0.00	0.00	0.00
87	RT	Other Reliability Requirement	PGAE	NA	9/6/2022	60 - 259	No	INC	8	14:00	22:00	100.74	91584.33	275.00	-197312.17	40.19	-86963.04	0.00	0.00	0.00	0.00
88	RT	Other Reliability Requirement	PGAE	NA	9/6/2022	0.6 - 29.3	No	INC	5	17:00	21:55	-11.33	0.00	0.00	7561.13	27.85	-42353.92	0.00	0.00	0.00	0.00
89	RT	Other Reliability Requirement	PGAE	NA	9/7/2022	-110	No	DEC	9	12:00	21:00	-4.97	-42.06	0.00	-317.59	-17.54	0.00	1223.89	0.00	0.00	0.00
90	RT	Other Reliability Requirement	PGAE	NA	9/7/2022	0 - 50	No	INC	8	13:05	21:00	178.00	5348.58	1246.50	-146795.46	47.68	-40150.15	140.88	-155.72	0.00	0.00
91	RT	Other Reliability Requirement	PGAE	NA	9/7/2022	1.9295 - 29.59	No	INC	5	18:15	23:05	-9.80	0.00	0.00	-28493.10	39.28	-39940.65	0.00	0.00	0.00	0.00
92	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	9/5/2022	741	No	DEC	4	17:00	21:00	0.00	-449385.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	9/5/2022	741 - 750	No	INC	6	15:00	21:00	-71.83	-77978.14	0.00	10629.81	21.34	-2107.74	0.00	-1443.57	0.00	0.00
94	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	9/6/2022	53.9 - 741	No	DEC	6	15:00	21:00	8.47	-641300.97	0.00	3154.31	0.00	0.00	0.00	0.00	0.00	0.00
95	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	9/6/2022	741 - 750	No	INC	7	14:00	21:00	-16.57	-565198.69	0.00	46859.47	0.00	0.00	0.00	0.00	0.00	0.00
96	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	9/7/2022	53.9 - 741	No	DEC	5	16:00	21:00	2.03	-510923.24	0.00	-270.77	0.00	0.00	0.00	0.00	0.00	0.00
97	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	9/7/2022	0 - 750	No	INC	7	14:00	21:00	89.68	-566221.75	0.00	-12117.63	0.00	0.00	0.00	-3589.69	0.00	0.00
98	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	9/8/2022	741 - 750	No	INC	6	15:00	21:00	38.81	0.00	0.00	3206.76	50.36	-6726.86	0.00	-976.51	0.00	0.00
99	RT	Other Reliability Requirement	SCE	LA Basin	9/2/2022	96.6 - 674.7	No	INC	6	15:00	21:00	276.81	61283.34	1052.74	-32243.44	218.21	-25923.22	0.00	-9913.08	0.00	0.00

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Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
100	RT	Other Reliability Requirement	SCE	LA Basin	9/3/2022	96.6 - 674.7	Yes	INC	6	15:00	21:00	304.87	0.00	0.00	-38742.06	122.22	-12619.74	0.00	-4999.42	0.00	0.00
101	RT	Other Reliability Requirement	SCE	LA Basin	9/4/2022	96.6 - 674.7	Yes	INC	6	15:00	21:00	2135.01	524862.89	0.00	-245951.21	151.20	-15799.56	0.00	-18727.43	0.00	0.00
102	RT	Other Reliability Requirement	SCE	LA Basin	9/5/2022	96.6 - 674.7	No	INC	6	15:00	21:00	636.89	590338.14	0.00	-327224.24	414.20	-42598.28	0.00	-4625.02	0.00	0.00
103	RT	Other Reliability Requirement	SCE	LA Basin	9/6/2022	96.65 - 674.7	No	INC	6	15:00	21:00	1857.92	36593.59	20531.80	-3247412.47	37.92	-66314.52	0.00	0.00	0.00	0.00
104	RT	Other Reliability Requirement	SCE	LA Basin	9/7/2022	33	No	DEC	6	15:45	21:00	-25.03	0.00	0.00	3459.56	0.00	0.00	0.00	0.00	0.00	0.00
105	RT	Other Reliability Requirement	SCE	LA Basin	9/7/2022	0 - 674.7	Yes	INC	7	14:10	21:00	3142.58	208239.91	0.00	-1033720.67	51.02	-6405.04	0.00	-18.04	0.00	0.00
106	RT	Other Reliability Requirement	SCE	LA Basin	9/8/2022	-10	No	DEC	1	12:30	13:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	RT	Other Reliability Requirement	SCE	LA Basin	9/8/2022	480	No	INC	6	15:00	21:00	0.00	56725.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	RT	Other Reliability Requirement	SCE	LA Basin	9/9/2022	20	No	DEC	6	15:00	20:45	-5.00	0.00	0.00	516.63	0.00	0.00	0.00	0.00	0.00	0.00
109	RT	Other Reliability Requirement	SCE	LA Basin	9/9/2022	20	No	INC	3	13:35	16:00	-29.27	14416.40	0.00	3555.08	0.00	0.00	0.00	0.00	0.00	0.00
110	RT	Other Reliability Requirement	SCE	NA	9/1/2022	-100	No	DEC	1	17:20	18:00	-129.42	0.00	0.00	-9975.52	-129.42	0.00	-9975.52	0.00	0.00	0.00
111	RT	Other Reliability Requirement	SCE	NA	9/2/2022	250	No	INC	6	15:00	21:00	398.12	0.00	0.00	-52728.18	397.84	-52675.35	0.00	0.00	0.00	0.00
112	RT	Other Reliability Requirement	SCE	NA	9/3/2022	250	No	INC	5	15:00	19:30	329.21	0.00	0.00	-42431.01	311.30	-40012.92	0.00	0.00	0.00	0.00
113	RT	Other Reliability Requirement	SCE	NA	9/4/2022	250	No	INC	5	15:00	19:15	275.42	0.00	0.00	-32593.36	259.60	-30721.09	0.00	0.00	0.00	0.00
114	RT	Other Reliability Requirement	SCE	NA	9/5/2022	250	No	INC	6	15:00	21:00	277.30	0.00	0.00	-339719.64	273.31	-336682.78	0.00	0.00	0.00	0.00

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Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
115	RT	Other Reliability Requirement	SCE	NA	9/5/2022	0.26 - 158.41	No	INC	5	18:30	23:20	120.38	0.00	0.00	-454934.05	347.06	-644666.05	0.00	-12443.18	0.00	0.00
116	RT	Other Reliability Requirement	SCE	NA	9/6/2022	-10	No	DEC	2	16:40	17:45	-107.74	0.00	0.00	-25625.57	-139.70	0.00	32186.03	0.00	0.00	0.00
117	RT	Other Reliability Requirement	SCE	NA	9/6/2022	250	No	INC	6	15:00	21:00	284.97	0.00	0.00	-514476.80	281.37	-507193.82	0.00	0.00	0.00	0.00
118	RT	Other Reliability Requirement	SCE	NA	9/6/2022	0.28 - 158.42	No	INC	5	17:00	21:55	480.15	0.00	0.00	-882384.92	806.47	-1327318.26	0.00	-189265.71	0.00	0.00
119	RT	Other Reliability Requirement	SCE	NA	9/7/2022	-50	No	DEC	5	12:15	16:30	-13.24	0.00	0.00	-2829.78	-31.32	0.00	11.28	0.00	0.00	0.00
120	RT	Other Reliability Requirement	SCE	NA	9/7/2022	0 - 250	No	INC	8	13:45	21:00	330.95	0.00	0.00	-212534.29	310.39	-208913.20	0.00	0.00	0.00	0.00
121	RT	Other Reliability Requirement	SCE	NA	9/7/2022	0.29 - 157.76	No	INC	5	18:15	23:05	334.85	0.00	0.00	-150786.65	521.81	-234505.24	0.00	-714755.81	0.00	0.00
122	RT	Other Reliability Requirement	SCE	NA	9/8/2022	-39.6	No	DEC	1	11:15	11:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	RT	Other Reliability Requirement	SCE	NA	9/9/2022	0	No	INC	1	12:30	13:00	-1.58	0.00	0.00	455.17	0.00	0.00	0.00	0.00	0.00	0.00
124	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/2/2022	37.2	No	INC	6	15:00	21:00	-0.23	83422.44	545.17	39.78	0.00	0.00	0.00	-2214.97	0.00	0.00
125	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/3/2022	37.2	No	INC	6	15:00	21:00	0.19	61540.55	0.00	-1.89	0.00	0.00	0.00	-42.45	0.00	0.00
126	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/4/2022	37.2	No	INC	6	15:00	21:00	0.00	73848.66	0.00	0.00	0.00	0.00	0.00	-391.94	0.00	0.00
127	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/5/2022	37.2	Yes	INC	6	15:00	21:00	8.61	43078.38	0.00	-6886.36	0.00	0.00	0.00	0.00	0.00	0.00
128	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/6/2022	37.2	No	INC	6	15:00	21:00	-0.07	73848.66	545.17	55.85	0.00	0.00	0.00	0.00	0.00	0.00
129	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/7/2022	0 - 37.2	No	INC	8	13:50	21:00	-10.82	55511.37	0.00	1195.05	0.00	0.00	0.00	0.00	0.00	0.00
130	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/8/2022	0	No	INC	1	13:45	14:15	-0.21	0.00	0.00	28.87	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
131	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/9/2022	25	No	DEC	7	14:50	21:00	-39.80	-206612.91	0.00	3997.81	0.00	0.00	0.00	0.00	0.00	0.00
132	RT	Other Reliability Requirement	SDGE	San Diego-IV	9/9/2022	0	No	INC	1	12:15	13:00	-0.85	0.00	0.00	98.32	-0.36	0.00	0.13	0.00	0.00	0.00
133	RT	Planned Transmission Outage	PGAE	Humboldt	9/1/2022	30 - 42	No	DEC	24	0:00	0:00	-11.52	-39262.23	0.00	4377.93	-1.64	0.00	809.19	0.00	-	32917.17
134	RT	Planned Transmission Outage	PGAE	Humboldt	9/1/2022	42	No	INC	1	3:00	4:00	0.00	1583.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	RT	Planned Transmission Outage	PGAE	Humboldt	9/2/2022	30	No	DEC	12	11:00	23:00	-4.07	-70302.32	0.00	470.68	0.00	0.00	0.00	0.00	0.00	-3194.38
136	RT	Planned Transmission Outage	PGAE	Humboldt	9/2/2022	30	No	INC	24	0:00	0:00	-0.10	18144.94	0.00	10.23	0.00	0.00	0.00	0.00	0.00	0.00
137	RT	Planned Transmission Outage	PGAE	Humboldt	9/3/2022	30	No	DEC	13	11:00	0:00	-5.32	-66170.38	0.00	401.76	0.00	0.00	0.00	0.00	0.00	-2360.01
138	RT	Planned Transmission Outage	PGAE	Humboldt	9/3/2022	30	No	INC	11	0:00	11:00	0.68	14314.52	0.00	-16.32	0.00	0.00	0.00	0.00	0.00	0.00
139	RT	Planned Transmission Outage	PGAE	Humboldt	9/4/2022	30	No	DEC	24	0:00	0:00	-1.82	-76333.53	0.00	192.16	0.00	0.00	0.00	0.00	0.00	-4839.52
140	RT	Planned Transmission Outage	PGAE	Humboldt	9/4/2022	30	No	INC	6	6:00	12:00	0.00	19086.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	RT	Planned Transmission Outage	PGAE	Humboldt	9/5/2022	15 - 30	No	DEC	24	0:00	0:00	-5.61	-150951.63	0.00	-268.16	0.00	0.00	0.00	0.00	-	18448.31
142	RT	Planned Transmission Outage	PGAE	Humboldt	9/5/2022	15 - 30	No	INC	23	1:00	0:00	0.18	26375.85	0.00	-3.55	0.00	0.00	0.00	0.00	0.00	-5.86
143	RT	Planned Transmission Outage	PGAE	Humboldt	9/6/2022	15 - 30	No	DEC	24	0:00	0:00	0.49	-318039.57	0.00	82.75	0.00	0.00	0.00	0.00	-	17370.25
144	RT	Planned Transmission Outage	PGAE	Humboldt	9/7/2022	15 - 30	No	DEC	24	0:00	0:00	-8.12	-139135.25	0.00	1299.98	-0.64	0.00	564.35	0.00	-8954.12	0.00
145	RT	Planned Transmission Outage	PGAE	Humboldt	9/7/2022	15 - 30	No	INC	24	0:00	0:00	-19.29	48527.34	0.00	2180.26	0.00	0.00	0.00	0.00	0.00	0.00
146	RT	Planned Transmission Outage	PGAE	Humboldt	9/8/2022	15 - 30	No	DEC	24	0:00	0:00	-12.16	-218364.33	0.00	3703.90	-0.64	0.00	326.69	0.00	-7007.40	0.00
147	RT	Planned Transmission Outage	PGAE	Humboldt	9/9/2022	15 - 30	No	DEC	22	0:00	22:00	-3.05	-93097.27	0.00	377.18	0.00	0.00	0.00	0.00	0.00	-916.72
148	RT	Planned Transmission Outage	PGAE	Humboldt	9/9/2022	15 - 30	No	INC	24	0:00	0:00	-1.45	36416.63	0.00	149.97	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
149	RT	Planned Transmission Outage	PGAE	Humboldt	9/10/2022	15 - 30	No	DEC	8	16:00	0:00	-4.35	-55034.40	0.00	379.97	-1.67	0.00	152.20	0.00	-702.71	0.00
150	RT	Planned Transmission Outage	PGAE	Humboldt	9/10/2022	15 - 30	No	INC	17	0:00	17:00	-0.03	43492.38	0.00	3.27	0.00	0.00	0.00	0.00	0.00	0.00
151	RT	Planned Transmission Outage	PGAE	Humboldt	9/11/2022	15 - 30	No	DEC	24	0:00	0:00	-5.65	-72553.95	0.00	582.78	0.00	0.00	0.00	0.00	-1711.16	0.00
152	RT	Planned Transmission Outage	PGAE	Humboldt	9/11/2022	15 - 30	No	INC	24	0:00	0:00	-1.65	37880.46	0.00	139.87	0.00	0.00	0.00	0.00	0.00	0.00
153	RT	Planned Transmission Outage	PGAE	Humboldt	9/12/2022	15 - 30	No	DEC	24	0:00	0:00	-1.36	-49778.43	0.00	129.44	0.00	0.00	0.00	0.00	-786.48	0.00
154	RT	Planned Transmission Outage	PGAE	Humboldt	9/12/2022	15 - 30	No	INC	15	1:00	16:00	-0.29	40686.42	0.00	21.19	0.00	0.00	0.00	0.00	0.00	0.00
155	RT	Planned Transmission Outage	PGAE	Humboldt	9/13/2022	30	No	DEC	1	0:00	1:00	-1.04	0.00	0.00	77.87	0.00	0.00	0.00	0.00	-45.40	0.00
156	RT	Planned Transmission Outage	PGAE	Humboldt	9/13/2022	15 - 30	No	INC	24	0:00	0:00	-0.23	66682.88	0.00	16.33	0.00	0.00	0.00	0.00	0.00	0.00
157	RT	Planned Transmission Outage	PGAE	Humboldt	9/14/2022	30	No	INC	24	0:00	0:00	0.00	35302.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	RT	Planned Transmission Outage	PGAE	Humboldt	9/15/2022	30 - 45	No	INC	24	0:00	0:00	-0.09	39277.41	0.00	-45.03	-1.47	0.00	92.45	0.00	-43.87	0.00
159	RT	Planned Transmission Outage	PGAE	Humboldt	9/16/2022	30	No	INC	24	0:00	0:00	0.00	35025.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	RT	Planned Transmission Outage	PGAE	Humboldt	9/17/2022	30	No	INC	24	0:00	0:00	0.00	33392.64	0.00	0.00	0.00	0.00	0.00	0.00	-28.28	0.00
161	RT	Planned Transmission Outage	PGAE	Humboldt	9/18/2022	30	No	INC	24	0:00	0:00	0.00	33392.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	RT	Planned Transmission Outage	PGAE	Humboldt	9/19/2022	15	No	DEC	4	20:15	0:00	-3.75	347.84	0.00	383.80	-0.32	0.00	32.49	0.00	-320.26	0.00
163	RT	Planned Transmission Outage	PGAE	Humboldt	9/19/2022	30	No	INC	21	0:00	20:15	-4.06	28175.04	0.00	424.85	-0.60	0.00	58.80	0.00	-41.61	0.00
164	RT	Planned Transmission Outage	PGAE	Humboldt	9/20/2022	15	No	DEC	2	0:00	2:00	-0.16	0.00	0.00	11.49	0.00	0.00	0.00	0.00	-119.00	0.00
165	RT	Planned Transmission Outage	PGAE	Humboldt	9/22/2022	15	No	DEC	17	7:15	0:00	1.84	-7571.17	302.92	-282.69	0.00	0.00	0.00	0.00	0.00	0.00
166	RT	Planned Transmission Outage	PGAE	Humboldt	9/23/2022	15 - 30	No	DEC	24	0:00	0:00	-0.96	-18032.23	0.00	94.83	0.00	0.00	0.00	0.00	0.00	0.00



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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
167	RT	Planned Transmission Outage	PGAE	Humboldt	9/23/2022	30	No	INC	9	7:20	16:00	5.63	10402.96	0.00	-256.90	0.00	0.00	0.00	0.00	0.00	0.00
168	RT	Planned Transmission Outage	PGAE	Humboldt	9/24/2022	15	No	DEC	24	0:00	0:00	-2.86	-27543.23	0.00	200.42	0.00	0.00	0.00	0.00	0.00	0.00
169	RT	Planned Transmission Outage	PGAE	Humboldt	9/25/2022	15	No	DEC	24	0:00	0:00	2.29	-38426.42	0.00	-173.76	0.00	0.00	0.00	0.00	0.00	0.00
170	RT	Planned Transmission Outage	PGAE	Humboldt	9/26/2022	15 - 30	No	DEC	24	0:00	0:00	-4.07	-40199.23	128.63	262.98	0.00	0.00	0.00	0.00	0.00	0.00
171	RT	Planned Transmission Outage	PGAE	Humboldt	9/26/2022	30	No	INC	6	7:15	13:00	5.33	3916.38	0.00	-303.19	0.00	0.00	0.00	0.00	0.00	0.00
172	RT	Planned Transmission Outage	PGAE	Humboldt	9/27/2022	15 - 56	No	DEC	24	0:00	0:00	17.76	-87761.37	997.77	-967.59	0.00	0.00	0.00	0.00	0.00	0.00
173	RT	Planned Transmission Outage	PGAE	Humboldt	9/28/2022	30	No	DEC	10	13:00	23:00	-0.90	-37108.38	0.00	116.82	0.00	0.00	0.00	0.00	-410.81	0.00
174	RT	Planned Transmission Outage	PGAE	Humboldt	9/28/2022	15 - 45	No	INC	24	0:00	0:00	0.41	40929.53	0.00	-119.28	-1.50	0.00	49.95	0.00	-12.17	0.00
175	RT	Planned Transmission Outage	PGAE	Humboldt	9/29/2022	30 - 45	No	INC	24	0:00	0:00	9.89	66698.74	0.00	-508.20	0.00	0.00	0.00	0.00	0.00	0.00
176	RT	Planned Transmission Outage	PGAE	Humboldt	9/30/2022	15 - 45	No	INC	24	0:00	0:00	-9.62	73271.93	0.00	537.10	-1.65	0.00	83.42	0.00	-42.73	0.00
177	RT	Planned Transmission Outage	PGAE	NCNB	9/15/2022	10 - 70	No	DEC	1	12:05	13:00	-5.93	0.00	0.00	449.20	-6.00	0.00	454.60	0.00	-735.14	0.00
178	RT	Planned Transmission Outage	PGAE	NCNB	9/16/2022	70	No	DEC	1	10:35	11:30	4.24	0.00	0.00	-164.20	0.00	0.00	0.00	0.00	-104.79	0.00
179	RT	Planned Transmission Outage	PGAE	NCNB	9/22/2022	64	No	DEC	2	5:00	6:30	-10.31	0.00	0.00	315.82	-10.31	0.00	315.82	0.00	-406.28	0.00
180	RT	Planned Transmission Outage	PGAE	Sierra	9/6/2022	42 - 45	No	DEC	9	13:00	22:00	3.28	0.00	1234.13	-1706.69	0.00	0.00	0.00	0.00	0.00	0.00
181	RT	Planned Transmission Outage	PGAE	Sierra	9/6/2022	20 - 47	No	INC	17	7:20	0:00	46.40	44410.95	1482.40	-13893.80	3.17	-285.60	0.00	0.00	-1256.06	0.00
182	RT	Planned Transmission Outage	PGAE	Sierra	9/7/2022	47	No	DEC	2	0:00	2:00	0.68	0.00	0.00	-1061.43	0.00	0.00	0.00	0.00	0.00	0.00
183	RT	Planned Transmission Outage	PGAE	Sierra	9/8/2022	42	No	DEC	11	12:00	23:00	10.53	0.00	0.00	-3944.19	0.00	0.00	0.00	0.00	0.00	0.00
184	RT	Planned Transmission Outage	PGAE	Sierra	9/8/2022	42	No	INC	1	11:55	12:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620		
185	RT	Planned Transmission Outage	PGAE	Sierra	9/10/2022	42	No	INC	8	15:00	23:00	-2.57	32498.05	0.00	320.64	0.00	0.00	0.00	0.00	0.00	0.00		
186	RT	Planned Transmission Outage	PGAE	Sierra	9/25/2022	20	No	INC	2	21:10	23:00	4.43	6457.55	0.00	-378.62	0.00	0.00	0.00	0.00	0.00	0.00		
187	RT	Planned Transmission Outage	PGAE	Sierra	9/26/2022	20	No	DEC	1	16:30	17:00	-2.26	-891.14	0.00	177.81	0.00	0.00	0.00	0.00	0.00	0.00		
188	RT	Planned Transmission Outage	PGAE	Sierra	9/26/2022	4 - 42	No	INC	6	15:00	21:00	31.16	11521.22	0.00	-3540.50	29.46	-	3395.74	0.00	0.00	-1868.30	0.00	
189	RT	Planned Transmission Outage	PGAE	Sierra	9/28/2022	20	No	DEC	4	18:40	22:00	-8.01	0.00	553.76	623.83	0.00	0.00	0.00	0.00	0.00	0.00		
190	RT	Planned Transmission Outage	PGAE	Sierra	9/28/2022	20	No	INC	4	18:55	22:00	3.37	7751.42	580.52	-255.95	0.00	0.00	0.00	0.00	0.00	0.00		
191	RT	Planned Transmission Outage	PGAE	Stockton	9/10/2022	30	No	DEC	3	15:30	18:30	71.05	0.00	0.00	-17247.00	73.52	-	17466.77	0.00	0.00	-2314.93	0.00	
192	RT	Planned Transmission Outage	PGAE	Stockton	9/15/2022	65 - 89	No	INC	7	17:00	0:00	18.16	36649.28	33249.21	-1450.71	49.48	-	3813.00	0.00	0.00	-	45491.24	0.00
193	RT	Planned Transmission Outage	PGAE	Stockton	9/16/2022	89	No	DEC	4	18:00	22:00	-0.27	0.00	0.00	20.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
194	RT	Planned Transmission Outage	PGAE	Stockton	9/16/2022	65 - 89	No	INC	18	0:00	18:00	17.76	43486.45	0.00	-1001.79	15.00	-913.34	0.00	0.00	0.00	-	10116.84	0.00
195	RT	Planned Transmission Outage	PGAE	Stockton	9/17/2022	88.8	No	DEC	4	18:00	22:00	4.67	0.00	0.00	-294.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
196	RT	Planned Transmission Outage	PGAE	Stockton	9/17/2022	88.8	No	INC	18	0:00	18:00	1.80	49936.87	0.00	96.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
197	RT	Planned Transmission Outage	PGAE	Stockton	9/21/2022	89	No	INC	17	7:00	0:00	27.35	142003.04	7556.92	-1546.49	0.00	0.00	0.00	0.00	0.00	-6.67	0.00	
198	RT	Planned Transmission Outage	PGAE	Stockton	9/22/2022	89	No	INC	24	0:00	0:00	49.41	17243.81	0.00	-3018.18	0.09	-5.50	0.00	0.00	0.00	-0.73	0.00	
199	RT	Planned Transmission Outage	PGAE	Stockton	9/25/2022	240	No	INC	1	23:55	0:00	7.63	0.00	0.00	-439.44	0.22	-12.61	0.00	0.00	0.00	-8.82	0.00	
200	RT	Planned Transmission Outage	PGAE	Stockton	9/26/2022	89	No	DEC	1	7:45	8:00	1.64	0.00	0.00	-73.97	0.05	-2.20	0.00	0.00	0.00	-0.74	0.00	
201	RT	Planned Transmission Outage	PGAE	Stockton	9/26/2022	89 - 240	No	INC	9	0:00	9:00	0.58	7232.84	2310.17	-63.01	1.55	-93.81	0.00	0.00	0.00	-59.20	0.00	
202	RT	Planned Transmission Outage	PGAE	Stockton	9/27/2022	89	No	INC	1	7:15	8:00	29.74	0.00	0.00	-2001.03	0.00	-0.23	0.00	0.00	0.00	-0.03	0.00	

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Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
203	RT	Planned Transmission Outage	PGAE	Stockton	9/28/2022	15	No	DEC	11	9:00	20:00	-3.41	0.00	0.00	149.87	-3.41	0.00	149.87	0.00	-2372.33	0.00
204	RT	Planned Transmission Outage	PGAE	Stockton	9/28/2022	89	No	INC	2	22:45	0:00	46.81	1885.97	0.00	-3282.33	0.00	0.00	0.00	0.00	0.00	0.00
205	RT	Planned Transmission Outage	PGAE	Stockton	9/29/2022	89	No	DEC	1	22:40	23:00	9.88	0.00	0.00	-582.30	0.00	0.00	0.00	0.00	0.00	0.00
206	RT	Planned Transmission Outage	PGAE	Stockton	9/29/2022	89	No	INC	24	0:00	0:00	97.32	16948.48	0.00	-6059.66	0.00	0.00	0.00	0.00	0.00	0.00
207	RT	Planned Transmission Outage	PGAE	Stockton	9/30/2022	50	No	INC	2	22:40	0:00	65.90	0.00	0.00	-3636.39	59.10	3260.24	0.00	0.00	-7389.50	0.00
208	RT	Planned Transmission Outage	PGAE	NA	9/28/2022	15	No	DEC	2	10:00	12:00	-0.20	0.00	0.00	11.01	0.00	0.00	0.00	0.00	-0.06	0.00
209	RT	Planned Transmission Outage	PGAE	NA	9/28/2022	15	No	INC	11	9:00	20:00	-2.49	0.00	0.00	79.60	0.00	0.00	0.00	0.00	0.00	0.00
210	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/13/2022	-18	No	DEC	9	10:20	18:30	-3.93	0.00	0.00	253.24	0.00	0.00	0.00	0.00	-934.21	0.00
211	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/13/2022	-18	No	INC	5	11:00	16:00	-4.64	0.00	0.00	268.70	0.00	0.00	0.00	0.00	-91.38	0.00
212	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/14/2022	-3	No	DEC	4	15:00	18:15	-2.05	0.00	0.00	145.59	0.00	0.00	0.00	0.00	0.00	0.00
213	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/14/2022	-45	No	INC	7	10:20	17:00	106.51	0.00	0.00	-5794.90	-2.47	-382.75	802.69	0.00	-781.51	0.00
214	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/23/2022	6	No	DEC	2	16:55	18:00	-1.37	0.00	0.00	34.95	-0.87	0.00	10.62	0.00	-17.17	0.00
215	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/23/2022	6	No	INC	2	18:00	19:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/24/2022	-2	No	DEC	4	14:00	17:30	-7.08	0.00	0.00	2141.26	-7.03	0.00	2115.60	0.00	-4709.59	0.00
217	RT	Planned Transmission Outage	SDGE	San Diego-IV	9/24/2022	-2	No	INC	3	11:40	14:00	-0.67	0.00	0.00	24.86	0.00	0.00	0.00	0.00	0.00	0.00
218	RT	Pump Management	PGAE	Fresno	9/17/2022	-325	No	DEC	3	13:55	16:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	RT	Ramping Capacity	PGAE	Bay Area	9/9/2022	138	No	DEC	7	14:00	21:00	44.37	0.00	0.00	-6795.70	0.00	0.00	0.00	0.00	0.00	0.00
220	RT	Ramping Capacity	PGAE	Bay Area	9/9/2022	138	No	INC	1	13:45	14:00	6.73	0.00	0.00	-893.58	0.00	0.00	0.00	0.00	0.00	0.00

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Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
221	RT	Ramping Capacity	PGAE	Fresno	9/6/2022	100	No	DEC	1	12:45	13:05	0.28	0.00	0.00	-37.02	0.02	-2.38	0.00	0.00	0.00	0.00
222	RT	Ramping Capacity	PGAE	Sierra	9/22/2022	20	No	INC	3	18:35	21:00	9.01	8529.86	732.54	-614.88	0.00	0.00	0.00	0.00	0.00	0.00
223	RT	Ramping Capacity	PGAE	Sierra	9/23/2022	20	No	DEC	2	18:00	20:00	5.34	0.00	0.00	-660.88	0.00	0.00	0.00	0.00	0.00	0.00
224	RT	Ramping Capacity	PGAE	Sierra	9/23/2022	20	No	INC	6	17:45	23:00	4.64	11251.29	0.00	-552.61	0.00	0.00	0.00	0.00	0.00	0.00
225	RT	Ramping Capacity	PGAE	NA	9/9/2022	49	No	DEC	6	15:30	21:00	13.10	-153500.50	0.00	-1041.77	0.00	0.00	0.00	0.00	0.00	0.00
226	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/1/2022	401	No	DEC	4	17:00	21:00	-29.17	0.00	0.00	7723.58	0.00	0.00	0.00	0.00	0.00	0.00
227	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/1/2022	401	No	INC	2	15:00	17:00	-140.88	11441.37	0.00	44907.03	0.00	0.00	0.00	0.00	0.00	0.00
228	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/2/2022	401	No	DEC	2	18:00	20:00	-430.08	0.00	0.00	68859.14	0.00	0.00	0.00	0.00	0.00	0.00
229	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/2/2022	401	No	INC	3	15:00	18:00	-364.79	0.00	0.00	47256.18	0.00	0.00	0.00	0.00	0.00	0.00
230	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/3/2022	70 - 401	No	DEC	4	17:45	21:00	-392.82	0.00	0.00	57502.68	0.00	0.00	0.00	0.00	0.00	0.00
231	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/3/2022	401	No	INC	6	15:00	21:00	-976.45	380912.99	0.00	125017.41	1.00	-155.32	0.00	0.00	0.00	0.00
232	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/4/2022	401	No	INC	3	18:30	21:00	-142.04	0.00	0.00	15794.71	0.00	0.00	0.00	0.00	0.00	0.00
233	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/5/2022	401	No	DEC	1	21:00	22:00	14.96	-105906.88	0.00	-2143.62	0.00	0.00	0.00	0.00	0.00	0.00
234	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/5/2022	401	No	INC	2	13:00	15:00	4.69	100185.54	0.00	-1488.09	0.58	-89.80	0.00	0.00	0.00	0.00
235	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/6/2022	401	No	DEC	1	21:00	22:00	0.00	-187764.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/6/2022	401	No	INC	2	12:00	14:00	35.46	32720.42	0.00	-3050.77	0.26	-40.67	0.00	0.00	0.00	0.00
237	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/7/2022	401	No	DEC	1	21:00	22:00	11.70	-106112.75	0.00	-1990.61	0.00	0.00	0.00	0.00	0.00	0.00
238	RT	Ramping Capacity	SCE	Big Creek-Ventura	9/7/2022	401	No	INC	2	12:00	14:00	62.94	0.00	0.00	-8000.29	0.66	-101.50	0.00	0.00	0.00	0.00

**California Independent System Operator Corporation  
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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
239	RT	Ramping Capacity	SCE	LA Basin	9/1/2022	190 - 194	No	DEC	6	15:00	21:00	-271.97	0.00	0.00	136120.73	0.00	0.00	0.00	0.00	0.00	0.00
240	RT	Ramping Capacity	SCE	LA Basin	9/2/2022	190 - 194	No	DEC	5	15:00	20:00	-248.49	0.00	0.00	29953.71	0.00	0.00	0.00	0.00	0.00	0.00
241	RT	Ramping Capacity	SCE	LA Basin	9/4/2022	240	No	INC	4	17:00	21:00	-168.52	139278.00	260224.00	18961.95	37.35	5461.14	0.00	0.00	0.00	0.00
242	RT	Ramping Capacity	SCE	LA Basin	9/5/2022	65 - 241	No	DEC	9	13:00	22:00	-95.66	27366.80	0.00	8696.34	76.38	8675.32	0.00	0.00	0.00	0.00
243	RT	Ramping Capacity	SCE	LA Basin	9/6/2022	65 - 241	No	DEC	10	12:00	22:00	339.88	35312.77	0.00	-197647.73	0.00	0.00	0.00	0.00	0.00	0.00
244	RT	Ramping Capacity	SCE	LA Basin	9/6/2022	65 - 190	No	INC	1	12:00	13:00	24.66	0.00	0.00	-3443.84	0.08	-11.97	0.00	0.00	0.00	0.00
245	RT	Ramping Capacity	SCE	LA Basin	9/7/2022	65 - 240	No	DEC	10	12:00	22:00	271.40	39199.50	0.00	-50744.89	0.00	0.00	0.00	0.00	0.00	0.00
246	RT	Ramping Capacity	SCE	LA Basin	9/7/2022	65 - 194	No	INC	2	12:00	14:00	-88.13	0.00	0.00	11560.89	0.00	0.00	0.00	0.00	0.00	0.00
247	RT	Ramping Capacity	SCE	LA Basin	9/9/2022	49	No	DEC	6	15:30	21:00	-11.69	0.00	1076.52	1026.50	0.00	0.00	0.00	0.00	0.00	0.00
248	RT	Ramping Capacity	SCE	LA Basin	9/11/2022	194	No	INC	6	16:00	22:00	-145.36	0.00	0.00	12805.65	1.51	-148.02	0.00	0.00	0.00	0.00
249	RT	Reliability Assessment	Intertie	NA	9/8/2022	17	No	INC	1	18:00	19:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	RT	Reliability Assessment	Intertie	NA	9/9/2022	20 - 40	No	INC	3	17:00	20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	RT	Reliability Assessment	PGAE	Bay Area	9/5/2022	50	No	INC	4	18:00	21:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	RT	Reliability Assessment	PGAE	Bay Area	9/6/2022	150	No	DEC	2	13:00	15:00	9.52	-35648.08	0.00	-18062.41	0.00	0.00	0.00	0.00	0.00	0.00
253	RT	Reliability Assessment	PGAE	Bay Area	9/7/2022	95	No	DEC	3	19:05	22:00	-11.55	0.00	0.00	1181.77	-6.87	0.00	625.45	0.00	0.00	0.00
254	RT	Reliability Assessment	PGAE	Fresno	9/5/2022	20	No	DEC	2	20:30	22:00	-21.90	-7292.80	0.00	14263.07	-18.46	0.00	2480.59	0.00	0.00	0.00
255	RT	Reliability Assessment	PGAE	Fresno	9/6/2022	0 - 83	No	DEC	10	13:00	23:00	-79.06	-8258.99	0.00	51992.17	-31.58	0.00	4341.33	0.00	0.00	0.00
256	RT	Reliability Assessment	PGAE	Fresno	9/6/2022	83	No	INC	2	12:45	14:00	37.18	3491.24	0.00	12378.86	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
257	RT	Reliability Assessment	PGAE	Fresno	9/15/2022	108	No	DEC	1	6:00	7:00	-20.37	0.00	0.00	1615.00	-22.95	0.00	1810.18	0.00	0.00	0.00
258	RT	Reliability Assessment	PGAE	Fresno	9/15/2022	108	No	INC	1	5:40	6:00	-9.22	0.00	0.00	746.78	-7.55	0.00	611.14	0.00	0.00	0.00
259	RT	Reliability Assessment	PGAE	Humboldt	9/1/2022	15	No	DEC	24	0:00	0:00	1.06	-35238.84	0.00	487.23	0.00	0.00	0.00	0.00	0.00	0.00
260	RT	Reliability Assessment	PGAE	Humboldt	9/2/2022	15	No	DEC	10	13:00	23:00	1.49	-13393.05	0.00	-72.40	0.00	0.00	0.00	0.00	0.00	0.00
261	RT	Reliability Assessment	PGAE	Humboldt	9/2/2022	15	No	INC	24	0:00	0:00	-0.74	22268.79	0.00	62.44	0.00	0.00	0.00	0.00	0.00	0.00
262	RT	Reliability Assessment	PGAE	Humboldt	9/3/2022	15	No	DEC	14	9:00	23:00	-2.25	-59335.07	0.00	-254.60	0.00	0.00	0.00	0.00	0.00	0.00
263	RT	Reliability Assessment	PGAE	Humboldt	9/3/2022	15	No	INC	24	0:00	0:00	-1.23	14314.59	0.00	81.80	0.00	0.00	0.00	0.00	0.00	0.00
264	RT	Reliability Assessment	PGAE	Humboldt	9/4/2022	15	No	DEC	24	0:00	0:00	-1.37	-51775.65	0.00	146.80	0.00	0.00	0.00	0.00	0.00	0.00
265	RT	Reliability Assessment	PGAE	Humboldt	9/5/2022	15	No	INC	3	0:00	2:45	-0.07	5169.15	0.00	6.19	0.00	0.00	0.00	0.00	0.00	0.00
266	RT	Reliability Assessment	PGAE	Humboldt	9/20/2022	15	No	DEC	17	5:30	21:45	3.06	-344.07	1001.05	-357.58	0.00	0.00	0.00	0.00	0.00	0.00
267	RT	Reliability Assessment	PGAE	Humboldt	9/20/2022	15	No	INC	15	7:20	21:45	10.75	19267.78	1000.99	-837.37	0.00	0.00	0.00	0.00	0.00	0.00
268	RT	Reliability Assessment	PGAE	Humboldt	9/21/2022	15	No	INC	16	6:45	22:00	3.79	20416.40	999.82	-445.68	0.00	0.00	0.00	0.00	0.00	0.00
269	RT	Reliability Assessment	PGAE	Kern	9/16/2022	32	No	INC	21	3:50	0:00	17.61	84346.13	9894.83	-1041.88	0.00	0.00	0.00	0.00	0.00	0.00
270	RT	Reliability Assessment	PGAE	Kern	9/17/2022	32	Yes	INC	24	0:00	0:00	8.00	74572.15	0.00	-477.46	0.00	0.00	0.00	0.00	0.00	0.00
271	RT	Reliability Assessment	PGAE	Kern	9/18/2022	32	No	INC	24	0:00	0:00	0.42	94196.40	0.00	-43.23	0.00	0.00	0.00	0.00	0.00	0.00
272	RT	Reliability Assessment	PGAE	Kern	9/19/2022	32	No	INC	16	0:00	16:00	0.00	62797.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	RT	Reliability Assessment	PGAE	Kern	9/29/2022	32	No	INC	4	20:05	0:00	-0.20	13313.73	8421.35	-1.73	0.00	0.00	0.00	0.00	0.00	0.00
274	RT	Reliability Assessment	PGAE	Kern	9/30/2022	32	No	INC	1	0:00	0:05	0.00	262.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
275	RT	Reliability Assessment	PGAE	NCNB	9/5/2022	59 - 65	No	DEC	4	19:20	23:00	-34.14	0.00	0.00	-1415.46	-62.12	0.00	-932.04	0.00	0.00	0.00
276	RT	Reliability Assessment	PGAE	NCNB	9/6/2022	10 - 75	No	DEC	13	10:50	23:00	-8.48	0.00	0.00	-3268.48	-10.19	0.00	-152.87	0.00	0.00	0.00
277	RT	Reliability Assessment	PGAE	NCNB	9/16/2022	60 - 65	No	DEC	1	10:05	11:00	-3.17	0.00	0.00	-46.76	-4.50	0.00	-67.46	0.00	0.00	0.00
278	RT	Reliability Assessment	PGAE	NCNB	9/22/2022	50 - 67	No	DEC	9	5:00	13:30	-17.22	0.00	0.00	-686.18	-22.33	0.00	-335.00	0.00	0.00	0.00
279	RT	Reliability Assessment	PGAE	NCNB	9/23/2022	45 - 56	No	DEC	7	13:15	20:00	-15.73	0.00	0.00	-425.64	-0.92	0.00	-13.75	0.00	0.00	0.00
280	RT	Reliability Assessment	PGAE	Sierra	9/1/2022	21 - 43	No	DEC	1	19:10	20:00	-39.95	0.00	0.00	340.28	-50.16	0.00	1953.82	0.00	0.00	0.00
281	RT	Reliability Assessment	PGAE	Sierra	9/3/2022	20 - 100	Yes	DEC	6	16:00	22:00	-2.91	-2425.36	0.00	990.92	-6.62	0.00	478.38	0.00	0.00	0.00
282	RT	Reliability Assessment	PGAE	Sierra	9/3/2022	42	Yes	INC	8	14:50	22:00	23.75	5445.01	0.00	-2015.07	0.00	0.00	0.00	0.00	0.00	0.00
283	RT	Reliability Assessment	PGAE	Sierra	9/5/2022	23 - 26	No	INC	2	16:25	18:00	17.52	0.00	0.00	-5872.28	18.44	6729.01	0.00	0.00	0.00	0.00
284	RT	Reliability Assessment	PGAE	Sierra	9/6/2022	53	No	DEC	2	18:05	20:00	-9.06	0.00	0.00	796.08	-9.05	0.00	781.86	0.00	0.00	0.00
285	RT	Reliability Assessment	PGAE	Sierra	9/6/2022	53	No	INC	2	20:00	22:00	-1.29	0.00	0.00	595.25	0.00	0.00	0.00	0.00	0.00	0.00
286	RT	Reliability Assessment	PGAE	Sierra	9/7/2022	42	Yes	DEC	10	13:00	23:00	2.28	0.00	0.00	-1624.80	0.00	0.00	0.00	0.00	0.00	0.00
287	RT	Reliability Assessment	PGAE	Sierra	9/7/2022	42	Yes	INC	15	9:30	0:00	0.41	31947.12	0.00	-555.68	0.00	0.00	0.00	0.00	0.00	0.00
288	RT	Reliability Assessment	PGAE	Sierra	9/8/2022	45	No	DEC	11	11:45	22:00	-1.29	0.00	0.00	863.62	0.00	0.00	0.00	0.00	0.00	0.00
289	RT	Reliability Assessment	PGAE	Sierra	9/8/2022	33 - 49	No	INC	7	14:40	21:00	3.38	0.00	0.00	-2103.78	3.67	2245.29	0.00	0.00	0.00	0.00
290	RT	Reliability Assessment	PGAE	Sierra	9/9/2022	20 - 40	No	DEC	11	10:00	21:00	-13.83	0.00	0.00	-2599.65	-14.60	0.00	-2183.72	0.00	0.00	0.00
291	RT	Reliability Assessment	PGAE	Sierra	9/9/2022	20 - 40	No	INC	20	2:10	22:00	-7.89	34537.87	696.98	3998.47	0.00	0.00	0.00	0.00	0.00	0.00
292	RT	Reliability Assessment	PGAE	Sierra	9/10/2022	20 - 100	No	DEC	9	15:45	0:00	-2.52	0.00	0.00	-1316.68	-20.23	0.00	92.08	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
293	RT	Reliability Assessment	PGAE	Sierra	9/10/2022	30 - 100	No	INC	4	20:30	0:00	-12.99	0.00	0.00	213.57	-8.66	0.00	-119.78	0.00	0.00	0.00
294	RT	Reliability Assessment	PGAE	Sierra	9/11/2022	20 - 100	No	DEC	23	0:00	23:00	-99.99	0.00	0.00	8600.92	0.00	0.00	0.00	0.00	0.00	0.00
295	RT	Reliability Assessment	PGAE	Sierra	9/11/2022	42 - 100	No	INC	17	1:00	18:00	-3.79	0.00	0.00	329.84	0.00	0.00	0.00	0.00	0.00	0.00
296	RT	Reliability Assessment	PGAE	Sierra	9/12/2022	20 - 35	No	INC	2	16:05	18:00	45.78	-10.16	0.00	-10832.43	48.89	-11997.54	0.00	0.00	0.00	0.00
297	RT	Reliability Assessment	PGAE	Sierra	9/13/2022	20	No	INC	16	8:30	0:00	-14.74	63688.72	709.94	904.14	0.00	0.00	0.00	0.00	0.00	0.00
298	RT	Reliability Assessment	PGAE	Sierra	9/14/2022	25	No	DEC	1	21:45	22:00	1.24	0.00	0.00	-240.15	0.00	0.00	0.00	0.00	0.00	0.00
299	RT	Reliability Assessment	PGAE	Sierra	9/14/2022	20 - 25	No	INC	23	0:00	22:30	10.28	20013.50	0.00	-2279.50	11.46	2396.62	0.00	0.00	0.00	0.00
300	RT	Reliability Assessment	PGAE	Sierra	9/20/2022	42	No	INC	2	20:00	21:45	42.57	0.00	0.00	-4162.28	0.00	0.00	0.00	0.00	0.00	0.00
301	RT	Reliability Assessment	PGAE	Sierra	9/25/2022	10 - 30	No	INC	5	17:35	22:00	33.61	0.00	0.00	-6289.87	33.66	6293.13	0.00	0.00	0.00	0.00
302	RT	Reliability Assessment	PGAE	Sierra	9/27/2022	20	No	DEC	9	14:00	23:00	10.66	0.00	0.00	-2439.90	0.00	0.00	0.00	0.00	0.00	0.00
303	RT	Reliability Assessment	PGAE	Sierra	9/27/2022	20 - 42	No	INC	16	8:00	0:00	8.29	27993.72	6877.62	-1362.56	0.00	0.00	0.00	0.00	0.00	0.00
304	RT	Reliability Assessment	PGAE	Sierra	9/28/2022	42	No	INC	7	15:10	22:00	18.03	39079.95	0.00	-1115.12	0.00	0.00	0.00	0.00	0.00	0.00
305	RT	Reliability Assessment	PGAE	Sierra	9/29/2022	20 - 47	No	DEC	5	17:00	22:00	37.34	-1770.15	0.00	-2742.22	8.89	-718.12	0.00	0.00	0.00	0.00
306	RT	Reliability Assessment	PGAE	Sierra	9/29/2022	20 - 47	Yes	INC	8	14:30	22:00	2.98	56496.67	1919.76	-263.10	0.00	0.00	0.00	0.00	0.00	0.00
307	RT	Reliability Assessment	PGAE	Sierra	9/30/2022	20	No	INC	2	18:10	20:00	22.57	2824.63	0.00	-1681.12	0.00	0.00	0.00	0.00	0.00	0.00
308	RT	Reliability Assessment	PGAE	Stockton	9/2/2022	30 - 40	No	INC	4	18:10	22:00	-4.75	0.00	0.00	-430.27	6.36	1840.30	0.00	0.00	0.00	0.00
309	RT	Reliability Assessment	PGAE	Stockton	9/4/2022	10 - 45	No	DEC	4	16:25	20:00	-22.88	0.00	0.00	-1580.91	8.48	4603.41	0.00	0.00	0.00	0.00
310	RT	Reliability Assessment	PGAE	Stockton	9/4/2022	45	No	INC	3	20:00	23:00	14.84	0.00	0.00	-8455.17	5.32	2274.84	0.00	0.00	0.00	0.00



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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620	
311	RT	Reliability Assessment	PGAE	Stockton	9/5/2022	30	No	DEC	1	17:15	18:00	11.20	0.00	0.00	-1893.26	12.66	-	2728.43	0.00	0.00	0.00	0.00
312	RT	Reliability Assessment	PGAE	Stockton	9/5/2022	20 - 35	No	INC	2	14:35	16:00	20.97	0.00	0.00	-4102.68	20.00	-	3978.20	0.00	0.00	0.00	0.00
313	RT	Reliability Assessment	PGAE	Stockton	9/6/2022	15 - 30	No	DEC	8	12:00	20:00	-39.43	0.00	0.00	75682.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
314	RT	Reliability Assessment	PGAE	Stockton	9/6/2022	30	No	INC	10	12:40	22:00	16.66	0.00	0.00	-9684.92	12.60	-	6733.95	0.00	0.00	0.00	0.00
315	RT	Reliability Assessment	PGAE	Stockton	9/7/2022	20	No	DEC	9	13:20	22:00	14.83	-2105.00	0.00	-3072.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
316	RT	Reliability Assessment	PGAE	Stockton	9/8/2022	20 - 36	No	DEC	7	14:35	21:00	2.51	0.00	0.00	-826.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
317	RT	Reliability Assessment	PGAE	Stockton	9/8/2022	36 - 40	No	INC	4	20:00	23:30	32.77	0.00	0.00	-10638.43	24.84	-	9414.21	0.00	0.00	0.00	0.00
318	RT	Reliability Assessment	PGAE	Stockton	9/9/2022	20	No	INC	2	20:50	22:00	9.68	0.00	0.00	-3169.75	9.83	-	3183.33	0.00	0.00	0.00	0.00
319	RT	Reliability Assessment	PGAE	Stockton	9/10/2022	30	No	DEC	7	15:35	22:00	-6.55	0.00	0.00	-7887.07	-3.46	-	8170.99	0.31	0.00	0.00	0.00
320	RT	Reliability Assessment	PGAE	Stockton	9/16/2022	75	No	DEC	1	7:50	8:00	-0.50	0.00	0.00	-114.54	-2.45	0.00	0.02	0.00	0.00	0.00	0.00
321	RT	Reliability Assessment	PGAE	Stockton	9/16/2022	75 - 85	No	INC	4	8:00	12:00	-1.96	0.00	0.00	97.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
322	RT	Reliability Assessment	PGAE	Stockton	9/20/2022	89	No	INC	2	22:10	0:00	-6.55	16019.38	0.00	616.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
323	RT	Reliability Assessment	PGAE	NA	9/3/2022	41	No	DEC	2	18:15	20:00	-5.13	0.00	0.00	43.51	-3.50	0.00	236.03	0.00	0.00	0.00	0.00
324	RT	Reliability Assessment	PGAE	NA	9/4/2022	33 - 110	No	DEC	3	21:20	0:00	-12.29	0.00	0.00	554.72	-8.54	0.00	405.33	0.00	0.00	0.00	0.00
325	RT	Reliability Assessment	PGAE	NA	9/5/2022	28	No	DEC	11	13:00	0:00	-2.14	0.00	0.00	918.14	-0.80	0.00	0.01	0.00	0.00	0.00	0.00
326	RT	Reliability Assessment	PGAE	NA	9/5/2022	28	No	INC	2	18:00	20:00	-3.88	0.00	0.00	5177.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
327	RT	Reliability Assessment	PGAE	NA	9/6/2022	100 - 195	No	DEC	3	15:30	18:30	-204.96	-45343.51	1122.22	145483.28	-87.76	0.00	3869.30	0.00	0.00	0.00	0.00
328	RT	Reliability Assessment	PGAE	NA	9/6/2022	110	No	INC	1	7:40	7:45	-0.73	0.00	0.00	50.66	-0.73	0.00	50.66	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
329	RT	Reliability Assessment	PGAE	NA	9/8/2022	30	No	DEC	2	22:10	23:30	-6.01	0.00	0.00	0.06	-4.59	0.00	0.05	0.00	0.00	0.00
330	RT	Reliability Assessment	PGAE	NA	9/9/2022	10	No	DEC	5	17:25	22:00	-9.08	0.00	0.00	-11.12	-9.25	0.00	0.09	0.00	0.00	0.00
331	RT	Reliability Assessment	PGAE	NA	9/16/2022	35	No	DEC	4	13:00	17:00	-2.58	0.00	0.00	88.37	0.00	0.00	0.00	0.00	0.00	0.00
332	RT	Reliability Assessment	PGAE	NA	9/16/2022	35	No	INC	1	17:00	17:30	-0.24	0.00	0.00	-1.67	0.00	0.00	0.00	0.00	0.00	0.00
333	RT	Reliability Assessment	SCE	Big Creek-Ventura	9/1/2022	462 - 600	No	DEC	8	14:15	22:00	-229.00	-124657.91	0.00	23654.14	-237.57	0.00	24588.70	0.00	0.00	0.00
334	RT	Reliability Assessment	SCE	Big Creek-Ventura	9/8/2022	401 - 460	No	DEC	11	11:20	22:00	-91.00	0.00	0.00	-9617.69	-201.40	0.00	16544.67	0.00	0.00	0.00
335	RT	Reliability Assessment	SCE	LA Basin	9/7/2022	0	No	INC	1	7:35	8:00	-2.08	250.54	0.00	0.00	-2.08	0.00	0.00	0.00	0.00	0.00
336	RT	Reliability Assessment	SCE	LA Basin	9/8/2022	190 - 240	No	DEC	7	15:00	22:00	5.83	9454.20	0.00	-3158.29	0.00	0.00	0.00	0.00	0.00	0.00
337	RT	Reliability Assessment	SCE	LA Basin	9/8/2022	100 - 240	No	INC	5	17:45	22:25	1025.21	80845.60	156668.54	-291827.11	35.00	4925.15	0.00	0.00	0.00	0.00
338	RT	Reliability Assessment	SCE	NA	9/7/2022	480	No	DEC	6	17:30	23:00	-8.19	0.00	0.00	-537.58	-1.51	0.00	201.22	0.00	0.00	0.00
339	RT	Reliability Assessment	SCE	NA	9/24/2022	470	No	DEC	5	17:55	22:00	-21.10	-16355.85	0.00	1635.39	-1.61	0.00	87.53	0.00	0.00	0.00
340	RT	Reliability Assessment	SCE	NA	9/28/2022	435	No	INC	8	16:00	0:00	-83.87	37834.96	0.00	6886.32	0.00	0.00	0.00	0.00	0.00	0.00
341	RT	Reliability Assessment	SDGE	San Diego-IV	9/1/2022	40	No	DEC	1	21:40	22:00	1.87	0.00	0.00	-289.86	0.00	0.00	0.00	0.00	0.00	0.00
342	RT	Reliability Assessment	SDGE	San Diego-IV	9/1/2022	21 - 40	No	INC	24	0:30	0:00	35.95	11877.39	0.00	-4030.41	0.00	0.00	0.00	0.00	0.00	0.00
343	RT	Reliability Assessment	SDGE	San Diego-IV	9/3/2022	18.2 - 44	No	DEC	6	17:00	23:00	-4.24	-14519.53	1201.75	-214.88	1.05	-186.17	0.00	0.00	0.00	0.00
344	RT	Reliability Assessment	SDGE	San Diego-IV	9/3/2022	18.2 - 44	No	INC	9	15:40	0:00	55.64	8074.72	0.00	-8185.85	0.00	0.00	0.00	0.00	0.00	0.00
345	RT	Reliability Assessment	SDGE	San Diego-IV	9/4/2022	20 - 25	No	DEC	3	18:45	21:00	-28.97	-4342.35	0.00	3619.40	0.00	0.00	0.00	0.00	0.00	0.00
346	RT	Reliability Assessment	SDGE	San Diego-IV	9/4/2022	20 - 25	No	INC	24	0:00	0:00	-21.31	68422.75	0.00	2687.27	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
347	RT	Reliability Assessment	SDGE	San Diego-IV	9/6/2022	24.87	No	DEC	10	12:00	22:00	0.35	0.00	0.00	1197.22	0.00	0.00	0.00	0.00	0.00	0.00
348	RT	Reliability Assessment	SDGE	San Diego-IV	9/7/2022	21	No	INC	1	9:55	10:15	3.85	0.00	0.00	-391.48	0.00	0.00	0.00	0.00	0.00	0.00
349	RT	Reliability Assessment	SDGE	San Diego-IV	9/8/2022	24.87 - 44	No	DEC	11	11:55	22:00	-6.16	-1647.90	67.18	-702.02	1.00	-173.20	0.00	0.00	0.00	0.00
350	RT	Reliability Assessment	SDGE	San Diego-IV	9/8/2022	21 - 51	No	INC	11	11:45	22:00	2.03	7034.79	335.88	75.30	0.96	-165.98	0.00	0.00	0.00	0.00
351	RT	Reliability Assessment	SDGE	San Diego-IV	9/9/2022	20 - 25	No	DEC	11	11:55	22:00	-7.62	-24031.86	1143.29	-850.55	0.75	-114.54	0.00	0.00	0.00	0.00
352	RT	Reliability Assessment	SDGE	San Diego-IV	9/11/2022	24.87	No	DEC	4	15:00	19:00	-34.04	0.00	0.00	5355.45	0.00	0.00	0.00	0.00	0.00	0.00
353	RT	Reliability Assessment	SDGE	San Diego-IV	9/11/2022	24.87	No	INC	8	13:55	21:00	-8.97	0.00	0.00	1295.51	0.00	0.00	0.00	0.00	0.00	0.00
354	RT	Reliability Assessment	SDGE	San Diego-IV	9/13/2022	25	No	INC	2	19:10	21:00	12.54	6192.68	486.27	-1020.26	0.11	-11.48	0.00	0.00	0.00	0.00
355	RT	Reliability Assessment	SDGE	San Diego-IV	9/19/2022	18.2	No	INC	4	16:40	20:00	19.11	14321.79	1270.39	-1431.14	0.00	0.00	0.00	0.00	0.00	0.00
356	RT	Reliability Assessment	SDGE	San Diego-IV	9/27/2022	25	No	INC	1	12:45	13:00	4.57	0.00	0.00	-303.72	0.03	-3.21	0.00	0.00	0.00	0.00
357	RT	Reverse Commitment Instruction	SCE	Big Creek-Ventura	9/7/2022	0	No	INC	1	15:05	15:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
358	RT	Reverse Commitment Instruction	SCE	LA Basin	9/7/2022	0	No	DEC	6	18:45	0:00	-10.02	0.00	0.00	1467.72	0.00	0.00	0.00	0.00	0.00	0.00
359	RT	Reverse Commitment Instruction	SCE	LA Basin	9/8/2022	0	No	INC	11	0:00	10:50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360	RT	Software Limitation	PGAE	Bay Area	9/7/2022	0	No	INC	1	16:00	16:30	23.31	0.00	0.00	-3634.72	0.00	0.00	0.00	0.00	0.00	0.00
361	RT	Software Limitation	PGAE	Bay Area	9/8/2022	0	No	DEC	1	15:00	16:00	-0.93	0.00	0.00	583.46	0.00	0.00	0.00	0.00	0.00	0.00
362	RT	Software Limitation	PGAE	Bay Area	9/8/2022	0	No	INC	3	13:40	16:00	-26.64	0.00	0.00	5093.46	-0.26	0.00	51.93	0.00	0.00	0.00
363	RT	Software Limitation	PGAE	Bay Area	9/9/2022	0	No	DEC	1	15:00	16:00	1.61	0.00	0.00	-530.70	0.00	0.00	0.00	0.00	0.00	0.00
364	RT	Software Limitation	PGAE	Bay Area	9/9/2022	0	No	INC	4	12:10	16:00	-264.04	0.00	0.00	30413.11	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620	
365	RT	Software Limitation	PGAE	Fresno	9/6/2022	14 - 35	No	INC	1	17:25	18:00	28.58	1454.66	0.00	-56247.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
366	RT	Software Limitation	PGAE	Fresno	9/7/2022	-50	No	DEC	5	12:10	16:30	-21.62	0.00	0.00	2728.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
367	RT	Software Limitation	PGAE	Fresno	9/7/2022	14 - 99.92	No	INC	1	18:55	19:25	74.46	2248.18	0.00	-45989.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
368	RT	Software Limitation	PGAE	Fresno	9/8/2022	0	No	INC	3	13:50	16:00	-4.17	0.00	0.00	220.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
369	RT	Software Limitation	PGAE	Fresno	9/9/2022	0	No	DEC	2	14:00	16:00	11.28	0.00	0.00	-1658.87	-5.00	0.00	1.95	0.00	0.00	0.00	0.00
370	RT	Software Limitation	PGAE	Fresno	9/9/2022	0	No	INC	5	11:50	16:00	-29.26	0.00	0.00	3226.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
371	RT	Software Limitation	PGAE	Sierra	9/9/2022	0	No	DEC	1	12:05	13:00	-1.30	0.00	0.00	191.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
372	RT	Software Limitation	PGAE	Sierra	9/9/2022	0	No	INC	3	13:00	16:00	-1.06	0.00	0.00	205.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
373	RT	Software Limitation	PGAE	NA	9/6/2022	-60	No	DEC	1	17:05	17:30	-29.68	0.00	0.00	41750.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
374	RT	Software Limitation	PGAE	NA	9/7/2022	-60	No	DEC	1	12:35	12:40	-1.75	0.00	0.00	112.67	-1.75	0.00	112.67	0.00	0.00	0.00	0.00
375	RT	Software Limitation	PGAE	NA	9/7/2022	0	No	INC	1	16:00	16:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
376	RT	Software Limitation	PGAE	NA	9/9/2022	-60	No	DEC	7	9:25	16:00	-67.69	0.00	0.00	7996.20	-76.66	0.00	9255.91	0.00	0.00	0.00	0.00
377	RT	Software Limitation	PGAE	NA	9/9/2022	0	No	INC	4	12:25	16:00	0.17	0.00	0.00	-47.84	-0.17	0.00	0.06	0.00	0.00	0.00	0.00
378	RT	Software Limitation	SCE	Big Creek-Ventura	9/6/2022	-100	No	DEC	1	16:40	17:30	-112.50	0.00	0.00	30988.51	-114.58	0.00	34530.47	0.00	0.00	0.00	0.00
379	RT	Software Limitation	SCE	Big Creek-Ventura	9/6/2022	38.77	No	INC	1	17:25	18:00	22.90	0.00	0.00	-43883.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
380	RT	Software Limitation	SCE	Big Creek-Ventura	9/7/2022	0 - 38.77	No	INC	4	16:00	19:25	39.44	0.00	0.00	-12649.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
381	RT	Software Limitation	SCE	Big Creek-Ventura	9/8/2022	0	No	INC	3	13:50	16:00	8.91	0.00	0.00	-5420.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
382	RT	Software Limitation	SCE	Big Creek-Ventura	9/9/2022	0	No	DEC	2	14:00	16:00	-2.49	0.00	0.00	274.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
383	RT	Software Limitation	SCE	Big Creek-Ventura	9/9/2022	0	No	INC	4	12:00	16:00	24.58	0.00	0.00	-3678.86	-14.02	0.00	5.47	0.00	0.00	0.00
384	RT	Software Limitation	SCE	LA Basin	9/1/2022	16	No	INC	1	15:20	16:00	6.01	0.00	0.00	-2531.12	0.00	0.00	0.00	0.00	0.00	0.00
385	RT	Software Limitation	SCE	LA Basin	9/6/2022	5 - 48.29	No	INC	1	17:25	18:00	116.32	150.32	0.00	-221749.84	0.00	0.00	0.00	0.00	0.00	0.00
386	RT	Software Limitation	SCE	LA Basin	9/7/2022	0 - 38.85	No	INC	4	16:00	19:25	69.19	0.00	0.00	-25913.14	0.00	0.00	0.00	0.00	0.00	0.00
387	RT	Software Limitation	SCE	LA Basin	9/8/2022	-45	No	DEC	10	12:35	22:00	-2.33	0.00	0.00	-548.11	-3.86	0.00	-335.84	0.00	0.00	0.00
388	RT	Software Limitation	SCE	LA Basin	9/8/2022	20	No	INC	6	16:30	22:00	9.53	0.00	0.00	-2287.89	3.33	-576.38	0.00	0.00	0.00	0.00
389	RT	Software Limitation	SCE	LA Basin	9/9/2022	0	No	DEC	2	14:00	16:00	13.01	0.00	0.00	-1360.79	0.00	0.00	0.00	0.00	0.00	0.00
390	RT	Software Limitation	SCE	LA Basin	9/9/2022	0	No	INC	5	11:55	16:00	-36.50	0.00	0.00	5439.79	-10.79	0.00	886.65	0.00	0.00	0.00
391	RT	Software Limitation	SCE	LA Basin	9/20/2022	5 - 90.58	No	INC	1	2:15	3:10	231.91	29972.37	736.92	-17116.12	46.56	3894.27	0.00	0.00	0.00	0.00
392	RT	Software Limitation	SCE	San Diego-IV	9/8/2022	-5.5	No	DEC	6	10:30	16:00	-13.96	0.00	0.00	1153.70	-2.75	0.00	275.92	0.00	0.00	0.00
393	RT	Software Limitation	SCE	San Diego-IV	9/9/2022	0	No	INC	5	11:55	16:00	-7.25	0.00	0.00	737.51	-2.50	0.00	0.90	0.00	0.00	0.00
394	RT	Software Limitation	SCE	NA	9/1/2022	-140	No	DEC	4	14:25	18:00	-31.40	0.00	0.00	-1843.94	-39.07	0.00	14.07	0.00	0.00	0.00
395	RT	Software Limitation	SCE	NA	9/6/2022	-10	No	DEC	1	17:05	17:30	-13.46	0.00	0.00	-2109.44	-17.38	0.00	4130.45	0.00	0.00	0.00
396	RT	Software Limitation	SCE	NA	9/7/2022	0	No	DEC	1	16:05	16:30	7.24	0.00	0.00	-1263.09	0.00	0.00	0.00	0.00	0.00	0.00
397	RT	Software Limitation	SCE	NA	9/7/2022	0	No	INC	3	14:15	16:30	-2.26	0.00	0.00	257.44	0.00	0.00	0.00	0.00	0.00	0.00
398	RT	Software Limitation	SCE	NA	9/8/2022	-85	No	DEC	5	11:30	16:00	26.95	0.00	0.00	-3070.19	-1.05	0.00	0.39	0.00	0.00	0.00
399	RT	Software Limitation	SCE	NA	9/8/2022	0	No	INC	3	13:35	16:00	-92.17	0.00	0.00	20423.23	0.00	0.00	0.00	0.00	0.00	0.00
400	RT	Software Limitation	SCE	NA	9/9/2022	-230	No	DEC	6	10:40	16:00	-66.61	0.00	0.00	-13591.80	-81.85	0.00	-4096.67	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
401	RT	Software Limitation	SCE	NA	9/9/2022	-50	No	INC	5	11:35	16:00	-43.83	0.00	0.00	3012.10	12.70	5004.21	7.92	0.00	0.00	0.00
402	RT	Software Limitation	SDGE	San Diego-IV	9/1/2022	-250	No	DEC	2	15:10	17:00	-171.75	0.00	0.00	91383.84	-170.27	0.00	89777.64	0.00	0.00	0.00
403	RT	Software Limitation	SDGE	San Diego-IV	9/1/2022	37	No	INC	1	12:00	13:00	28.54	0.00	0.00	-4986.50	0.10	-17.09	0.00	0.00	0.00	0.00
404	RT	Software Limitation	SDGE	San Diego-IV	9/2/2022	-54	No	DEC	4	14:10	17:30	-34.68	0.00	0.00	3359.92	-30.94	0.00	2790.25	0.00	0.00	0.00
405	RT	Software Limitation	SDGE	San Diego-IV	9/4/2022	-95	No	DEC	2	15:00	17:00	-58.31	0.00	0.00	1137.08	-46.82	0.00	29.42	0.00	0.00	0.00
406	RT	Software Limitation	SDGE	San Diego-IV	9/7/2022	-5	No	DEC	4	12:05	16:00	-21.73	0.00	0.00	1407.58	-19.60	0.00	1200.22	0.00	0.00	0.00
407	RT	Software Limitation	SDGE	San Diego-IV	9/7/2022	0	No	INC	1	16:00	16:30	-3.55	0.00	0.00	426.50	0.00	0.00	0.00	0.00	0.00	0.00
408	RT	Software Limitation	SDGE	San Diego-IV	9/8/2022	-49.5	No	DEC	5	11:40	16:00	-4.87	0.00	0.00	176.07	-3.02	0.00	16.87	0.00	0.00	0.00
409	RT	Software Limitation	SDGE	San Diego-IV	9/8/2022	0	No	INC	3	13:45	16:00	36.09	0.00	0.00	-13016.04	0.00	0.00	0.00	0.00	0.00	0.00
410	RT	Software Limitation	SDGE	San Diego-IV	9/9/2022	-54	No	DEC	7	9:15	16:00	-34.43	0.00	0.00	-856.41	-33.71	0.00	-868.50	0.00	0.00	0.00
411	RT	Software Limitation	SDGE	San Diego-IV	9/9/2022	0	No	INC	5	11:55	16:00	-12.27	0.00	0.00	-930.38	-4.69	0.00	1.69	0.00	0.00	0.00
412	RT	Software Limitation	SDGE	San Diego-IV	9/10/2022	410 - 485	No	DEC	5	14:10	18:30	-0.01	0.00	0.00	-195.51	-11.51	2307.27	3021.56	0.00	0.00	0.00
413	RT	Software Limitation	SDGE	San Diego-IV	9/10/2022	485	No	INC	4	10:05	14:00	-4.62	0.00	0.00	261.92	0.00	0.00	0.00	0.00	0.00	0.00
414	RT	Unit Testing	Intertie	NA	9/21/2022	5	No	INC	1	19:30	20:10	2.50	0.00	0.00	-192.25	2.50	-192.25	0.00	0.00	0.00	0.00
415	RT	Unit Testing	PGAE	Stockton	9/9/2022	285	No	INC	3	10:00	13:00	83.77	0.00	0.00	-8713.28	70.36	7219.19	0.00	0.00	0.00	0.00
416	RT	Unit Testing	SCE	NA	9/10/2022	32.13	No	INC	1	8:35	9:15	25.24	0.00	0.00	-1626.97	18.45	-901.56	0.00	0.00	0.00	0.00
417	RT	Unit Testing	SCE	NA	9/14/2022	1	No	INC	1	14:55	15:55	0.32	0.00	0.00	-16.46	0.32	-16.46	0.00	0.00	0.00	0.00
418	RT	Voltage Support	PGAE	Fresno	9/2/2022	49	No	DEC	4	18:10	22:00	-20.68	-792.58	0.00	127.11	3.87	-383.33	0.00	0.00	-377.50	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/September/2022 – 30/September/2022**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
419	RT	Voltage Support	PGAE	Fresno	9/2/2022	49	No	INC	1	22:00	23:00	1.12	0.00	0.00	-138.72	0.00	0.00	0.00	0.00	-408.29	0.00
420	RT	Voltage Support	PGAE	Fresno	9/3/2022	0	No	INC	9	6:55	15:15	25.42	0.00	0.00	-761.88	0.00	0.00	0.00	0.00	0.00	0.00
421	RT	Voltage Support	PGAE	Fresno	9/6/2022	83	No	DEC	5	17:00	22:00	-200.34	0.00	0.00	331121.11	0.00	0.00	0.00	0.00	0.00	0.00
422	RT	Voltage Support	PGAE	Fresno	9/6/2022	83	No	INC	7	14:30	21:00	171.42	31421.14	0.00	-278017.87	0.00	0.00	0.00	0.00	0.00	0.00
423	RT	Voltage Support	PGAE	Fresno	9/25/2022	-340	No	DEC	6	3:30	9:00	-73.32	0.00	0.00	4916.16	0.00	0.00	0.00	0.00	0.00	0.00
424	RT	Voltage Support	PGAE	Fresno	9/25/2022	-340	No	INC	1	9:00	10:00	-14.17	0.00	0.00	333.01	0.00	0.00	0.00	0.00	0.00	0.00
425	RT	Voltage Support	PGAE	Sierra	9/15/2022	20	No	DEC	3	18:00	21:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
426	RT	Voltage Support	PGAE	Sierra	9/15/2022	20	No	INC	23	1:15	0:00	22.00	21733.44	0.00	-1660.38	0.00	0.00	0.00	0.00	0.00	0.00
427	RT	Voltage Support	PGAE	Sierra	9/16/2022	20	No	INC	6	0:00	6:00	0.00	24452.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
428	RT	Voltage Support	PGAE	Sierra	9/17/2022	20	No	INC	14	10:50	0:00	-3.44	50786.84	717.18	605.50	0.00	0.00	0.00	0.00	0.00	0.00
429	RT	Voltage Support	PGAE	Sierra	9/18/2022	20	No	INC	24	0:00	0:00	-32.09	85946.96	0.00	2647.99	0.00	0.00	0.00	0.00	0.00	0.00
430	RT	Voltage Support	PGAE	Sierra	9/19/2022	20	Yes	INC	6	0:00	6:00	0.00	15626.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
431	RT	Voltage Support	PGAE	Sierra	9/20/2022	20	No	INC	7	0:00	7:00	9.81	46737.53	746.04	-649.12	0.00	0.00	0.00	0.00	0.00	0.00
432	RT	Voltage Support	PGAE	Sierra	9/23/2022	100	No	INC	1	13:00	14:00	-28.56	14400.00	2000.00	1473.81	0.00	0.00	0.00	0.00	0.00	0.00
433	RT	Voltage Support	PGAE	Sierra	9/25/2022	20	No	INC	7	3:30	10:00	5.00	22894.95	623.77	-335.28	0.00	0.00	0.00	0.00	0.00	0.00
434	RT	Voltage Support	PGAE	Sierra	9/26/2022	20	No	INC	6	1:10	7:00	8.95	19372.65	661.27	-723.66	0.00	0.00	0.00	0.00	0.00	0.00

## Appendix A: Explanation by Example

All examples listed below are based on fictitious data. Many simplified assumptions are made to explain settlement charge codes, and not all assumptions are explicitly stated in these examples. For instance, settlement charge codes are calculated based on metered quantities, whereas in these examples, the dispatch quantities are assumed to be equal to metered quantities. These assumptions have been made to simplify the understanding of settlements calculations.

### Example 1: Exceptional Dispatch Instructions Prior to DAM

In this fictitious example, the CAISO issued an exceptional dispatch instruction for resource A to be committed at its Pmin of 50 MW from hours ending 5 through 10 for a generation procedure 7630. Similarly, the CAISO issued additional instructions to resources B and C for the same reason in Table 2. Exceptional dispatches prior to the day-ahead market are commitments to minimum load. Here the dispatch levels are all at minimum load. Table 2 below also shows the commitment costs and the total volume (MWh) of exceptional dispatch instruction for each resource. The minimum load costs and start up costs, shown in Table 2 are the eligible minimum load and start up costs different from the bid-in minimum load and start up costs<sup>7</sup>. Only those quantities which relate to pre-day-ahead unit commitments are shown in this table.

**Table 2: Instructions Prior to Day-Ahead Market**

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch level (MW)	Reason	Total Volume (MWh)	Min-Load Cost	Start- Up Cost	CC6620 (BCR)
01-Jul-09	DA	A	SCE	LA BASIN	05:00	10:00	50	7630	300	\$5000	\$0	0
01-Jul-09	DA	B	SCE	LA BASIN	08:00	20:00	30	7630	390	\$6000	\$500	\$4000
01-Jul-09	DA	C	SCE	LA BASIN	09:00	23:00	20	7630	300	\$400	\$1000	\$1000

This data is summarized as shown in Table 3, which is the prescribed format specified in the FERC order on September 02, 2009. This summary classifies the data by reason, resource location, local reliability area, and trade date. The MW column in Table 3 is the range of MW; in this case the minimum instruction MW is 20 MW for resource C which occurs from hours ending 21 through 23. The maximum instruction occurs in hour ending 10. In this hour resource A is committed at 50 MW, resource B is committed at 30 MW and resource C is committed at 20 MW. This adds up to 100 MW. The MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. Commitments are broken out separately from energy dispatches. In the day-ahead however, the exceptional dispatches are nearly always just commitments, as in this example. The Begin Time column shows hour ending 5 as this was the hour ending for first dispatch of the day, and the End Time column shows hour ending 23, as this was the hour with last dispatch. It is also possible there might be hours between the begin time and the end time where there might not be exceptional dispatch instructions for the reason, meaning that the range between the begin time and end time can include null hours with no dispatch. The total volume (MWh) is the MWh quantity for each resource, which adds up to 990 MWh. Similarly, all cost information is sum of individual resource costs. Some resources bid-in zero start-up cost; as seen in this example, resource A bid in zero for its start up cost. Since the CAISO does not explicitly pay a resource for bid-in minimum load costs and start-up costs; these costs are recovered through the charge code CC6620 (Bid Cost Recovery), this table shows the summary of CC6620 for the classification. Here, it is the CC6620 for all three resources which adds up to \$5000. This column shows the impact of exceptional dispatch on bid cost recovery for all pre-day-ahead exceptional dispatch commitments.

**Table 3: FERC Summary of Instructions Prior to DAM**

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total Volume (MWh)	Min-Load Cost	Start-Up Cost	CC6620
1	DA	7630	SCE	LA Basin	1-Jul-09	20-100	Yes	N/A	19	05:00	23:00	990	\$11,400	\$1,500	\$5000

### Example 2: Incremental Exceptional Dispatch Instructions in RTM

In this fictitious example the CAISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 30 MW from hours 6:00 through 11:00 after completion of the day-ahead market for the transmission procedure 7110. This resource had no day-ahead award in those hours. The CAISO issued another exceptional dispatch instruction to resource B, to be dispatched at 40 MW from hours 7:00

<sup>7</sup> Please refer to the BPM configuration Guide: Bid Cost Recovery Settlements published on the CAISO's website for details about eligible minimum load and start up costs.



through 9:00 in real-time for the transmission procedure 7110. This resource had a day-ahead schedule of 20 MW from the day-ahead market, which implies this exceptional dispatch instruction was an incremental instruction and the exceptional dispatch MW was 20 MW. Similarly, the details of exceptional dispatch (ED) instruction for resource C are shown in Table 4. This table also shows volume (MWh) and various real-time charge codes associated with the exceptional dispatch instructions. The total MWh column for each resource shows all types of imbalance energy quantities for this resource between the begin time and end time which includes both the exceptional dispatch energy quantities and optimal energy quantities.

Resource A was committed at its Pmin so its total volume (MWh) is equal to its Pmin times the number of hours, which is calculated as 30 MW times 6 hours and is equal to 180 MWh. The resource Minimum load costs and the start up costs are its eligible commitment costs for that period. LMP at this resource is \$10/MWh, so the charge code CC6470 is calculated at (180 MWh \* \$10/MWh) and is equal to \$1,800. Since this resource is not dispatched above its Pmin, it has a zero volume (MWh) of exceptional dispatch. All charge codes associated with the exceptional dispatch increment or decrement quantities are zero.

Resource B is dispatched 20 MW above its day-ahead schedule, so its total volume (MWh) is calculated as 20 MW times 3 hours which is equal to 60 MWh. Since the resource was committed in the Day-Ahead Market there are no minimum load quantity and start up costs associated with this resource. The resource had a bid price of \$100/MWh and the LMP at that resource was \$10/MWh. All of 60 MWh is considered as exceptional dispatch incremental quantity shown in ED Volume (MWH INC/DEC) column. The charge code CC6470 INC is calculated as 60 MWh \* resource LMP (\$10/MWh) which is equal to \$600. Since the only imbalance energy in this timeframe was the exceptional dispatch volume, the charge code CC6470 is equal to CC6470 INC. The charge code CC6488 is calculated as MWH quantity \*(bid price – LMP), which is equal to \$5400 (60 MWh \* (\$10/MWh-\$100/MWh)). Similarly, volumes and real-time charge codes are calculated for resource C.

**Table 4: Incremental Exceptional Dispatch Instructions in RTM**

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch level (MW)	Day-Ahead Award (MW)	Commitment	INC/DEC	ED (MW)	Reason	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1-Jul-09	RT	A	PG&E	Humboldt	6:00	11:00	30	0	Yes	INC	30	7110	180	1000	50	1800	0	0	0	0	0
1-Jul-09	RT	B	PG&E	Humboldt	7:00	9:00	40	20	No	INC	20	7110	60	0	0	600	60	600	0	0	5400
1-Jul-09	RT	C	PG&E	Humboldt	12:00	15:00	50	50	No	INC	0	7110	0	0	0	0	0	0	0	0	0
1-Jul-09	RT	C	PG&E	Humboldt	16:00	20:00	50	40	No	INC	10	7110	50	0	0	300	20	300	0	0	200

This data is summarized as shown in Table 5 and is classified by reason, resource location, local reliability area, and trade date. The MW column in Table 5 is the range of MW; in this case the minimum instruction MW is 0 MW for resource C which occurs from hours ending 13 through 15. The maximum instruction occurs in hours ending 8 & 9, as during these two hours both resources A and B have an ED MW of 30MW and 20MW, respectively. This adds up to 50 MW. The MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. This column shows a commitment if there was a single commitment in the entire interval of exceptional dispatch. The Begin Time column shows the time of the first dispatch of the day. This is a time not a range. Similarly, the End Time column shows a time and not a range. Exceptional dispatches occurred between these two times. Since there was a commitment between the begin time and end time, the Commitment column displays yes for the summary. Similarly, the INC/DEC column shows an INC, as there was an incremental dispatch between the begin time and end time. As mentioned in the previous example, it is possible there might be hours between the begin time and end time where there were no exceptional dispatch instructions for the reason. Both volume and cost information columns are the summation for all the respective columns for resources A, B and C. For instance, the Total volume (MWh) column is calculated as summation of 180,60,0 and 50, which are the individual volumes (MWh) for resources A, B and C for time periods shown in Table 4.

**Table 5: FERC Summary of ED Instructions in RTM**

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1	RT	7110	PG&E	Humboldt	1-Jul-09	0-50	Yes	INC	15	6:00	20:00	290	1000	50	1700	140	1500	0	0	11000

It is possible that the CAISO would dispatch a particular resource, for instance at 10 MW from hours ending 1 through 4, and all or part of its energy might settle as optimal energy. This situation occurs when the LMP at the resource pricing node is above the resource bid price. This cost will only be captured in charge code 6470. It is also possible that CAISO issues an exceptional dispatch for the resource to operate at a minimum of 10 MW which is its Pmin; however the market application might dispatch this resource above Pmin because the resource is economical. When this occurs, the charge code CC6470 and the total MWh quantity might overstate the actual exceptional dispatch MWh quantities. So, to best estimate the cost and volume (MWh) of exceptional dispatch, it is appropriate to consider only the following columns: ED MWh (INC/DEC), CC6470 INC, CC6470 DEC, CC6482, CC6488.

**Example 3: Decremental Exceptional Dispatch Instructions in RTM**

This example highlights decremental exceptional dispatch instructions in the real-time market. In this fictitious example, the CAISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 20 MW from hours ending 15 through 20 after completion of the day-ahead market for the transmission procedure 7430. The CAISO issued additional exceptional dispatch instructions for resources B and C; details of those instructions are shown in Table 6. This table also includes volume (MWh) and cost information.

Resource A is committed in real-time at its Pmin, its total volume (MWh) is 20MW \*6 hours which is equal to 120 MWh. This resource has a zero MW of incremental dispatch in all hours, so all other relevant cost and volume columns result in zeros. Resource B has a decremental MW of 20 MW in 3 hours, which results in 60 MWh of decremental volume. Since this resource is not committed in real-time, both the minimum load cost and start up costs are zero. This resource had a bid price of \$50/MWh and LMP at the resource pricing node is \$10/ MWh. Based on this information CC6470-Dec is calculated as 60 MWh \*\$10/MWh which is equal to \$600. Since this resource has its ED volume (MWh) equal to its Total volume, CC6470 is equal to CC6470- DEC. The CC6488 is calculated as (60 MWh \* (\$50/MWh - \$10/MWh)), which is equal to \$2400. Resource C had a bid price of \$10/MWh and the LMP at its pricing node is \$50/MWh. Based on this information, volume and cost information is calculated for resource C.

**Table 6: Decremental Exceptional Dispatch Instructions in RTM**

Date	Market Type	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch level (MW)	Day-Ahead Award (MW)	Commitment	INC/DEC	ED (MW)	Reason	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1-Jul-09	RT	A	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	7430	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
1-Jul-09	RT	B	PG&E	Fresno	7:00	9:00	40	60	No	DEC	20	7430	(60)	\$ -	\$ -	\$ 600	-60	\$ -	\$ 600	\$ -	\$2,400
1-Jul-09	RT	C	PG&E	Fresno	10:00	14:00	40	50	No	DEC	10	7430	(50)	\$ -	\$ -	\$ 500	-50	\$ -	\$ 500	\$ -	\$2,000

This data is summarized according to FERC convention in Table 7. This summary classifies the data by reason, resource location, local reliability area, and trade date. Incs and decs are broken out separately. The inc entry is self-explanatory and similar to the previous example. Regarding the dec entry the MW column is the range of MW; in this case the minimum dec instruction is 10 MW (actually -10MW as it is a dec) for resource C which occurs from hours ending 10 through 14. The maximum instruction occurs from hours ending 7 through 9, when resource B was issued a dec instruction of 20 MW. The MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. The volume and cost information are summarized by INC and DEC classification.

**Table 7: FERC Summary of Decremental ED Instructions in RTM**

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1	RT	7430	PG&E	Fresno	1-Jul-09	20	Yes	INC	6	15:00	20:00	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
2	RT	7430	PG&E	Fresno	1-Jul-09	10-20	Yes	DEC	8	7:00	14:00	(110)	\$ -	\$ -	\$ (1,100)	\$ (110)	\$ -	\$ (1,100)	\$ -	\$ (4,400)

## Appendix B: Price Impact Analysis

In the September 2 FERC order, FERC requested the CAISO to perform price impact analysis on two distinct pricing nodes for the entire reporting period. The order also mentioned that the CAISO must pick two pricing nodes for the entire reporting period that are most affected by the exceptional dispatch instructions, and the two pricing nodes must belong to two load aggregation points (LAPs).

Based on this requirement the CAISO implemented a methodology to perform price impact analysis. First, the CAISO identified a heavily affected pricing node from each of the Pacific Gas & Electric (PG&E) LAP and Southern California Edison (SCE) LAP. These two pricing nodes had the maximum amount of exceptional dispatch volume (MWh) in their respective LAP. Point A is in PG&E LAP and point B is in SCE LAP. Please note these two points correspond to an actual pricing node in the CAISO system. Only one resource was connected to each of these pricing nodes. For each resource the following input parameters were obtained to perform the analysis:

Exceptional dispatch information: constrained level, constraint type, start of exceptional dispatch instruction and end of exceptional dispatch instruction.

Real-Time LMPs for each of the five minute intervals for the month.

Real-Time hourly bid set for each trade hour.

Day-Ahead award for the resources.

The exceptional dispatch intervals have a begin time and an end time which can span as small as one minute to as large as 24 hours. Since the market application dispatches resources on five-minute basis, the exceptional dispatch instructions for each of these resources were broken down into five-minute intervals. If the begin time or end time for an instruction was in the middle of the five-minute interval, that instruction was rounded up to the next five-minute interval. These five-minute intervals were then coupled with resource five-minute LMPs calculated by the real-time market application. Also, the hourly bid information and the hourly day-ahead schedule were put together to create a dataset that had all the information to perform price impact analysis.

An exceptional dispatch instruction can be classified as a start up instruction, an instruction to be dispatched at or above the constrained level, an instruction to be dispatched at or below a constrained level, an instruction to be dispatched at a fixed constrained level, or a shut down instruction. The Locational Marginal Price (LMP) is set by a resource which can provide the next incremental MW of energy. Based on this definition of LMP and the classification of exceptional dispatches based on constraint type, a resource may set the LMP in only those intervals in which the resource is eligible to move either up or down from its constrained level. Hence, in those intervals in which the resource was constrained up at its Pmax or the resource was exceptionally dispatched to its Pmax and forced to generate at that level, the resource was ineligible to set the price as it had no room to move up. Similarly, if the resource was constrained down at its Pmin, then the resource was not eligible to set the price. All those intervals in which the resource was ineligible to set the price were dropped from the dataset under consideration. From this dataset of only eligible intervals, for both pricing nodes A and B, LMPs were calculated for all intervals based on the resource dispatch level and the its bid set. The calculated LMP is equal to that bid price corresponding to the constrained MW segment.

Table 8 shows the price impact analysis information for node A, which is in the PG&E area. This table shows all the five minute intervals in which the resource at PNode A was issued an exceptional dispatch instruction and was eligible to set the price. Out of the 8,640 five-minute intervals in August, this resource was issued exceptional dispatch instructions in 359 five-minute intervals. This resource was eligible to set the LMP in 359 intervals. Out of the 359 intervals, resource calculated LMP was larger than the market LMP in 48 intervals. In the 48 intervals, the average increase in five minute LMP was \$48.47/MWh. Out of the 359 intervals, resource calculated LMP was less than the market LMP in 311 intervals. This implies that if the CAISO could model the constraint for this exceptional dispatch, then this resource and all other pricing nodes associated with that constraint would observe an average decrease of \$652.43/MWh.

Table 9 shows the price impact analysis information for node B, which is in the SCE area. This table shows all the five minute intervals in which the resource at PNode B was issued an exceptional dispatch instruction and was eligible to set the price. Out of the 8,640 five-minute intervals in August, this resource was issued exceptional dispatch instructions in 155 five-minute intervals. This resource was eligible to set the LMP in 155 intervals. Out of the 155 intervals, resource calculated LMP was larger than the market LMP in 62 intervals. In the 155 intervals, the average increase in five minute LMP was \$20.21/MWh. Out of the 155 intervals, resource calculated LMP was less than the market LMP in 93 intervals. This implies that if the CAISO could model the constraint for this exceptional dispatch, then this resource and all other pricing nodes associated with that constraint would observe an average decrease of \$130.53/MWh.

**Table 8: Price Impact Analysis Information for Pricing Node A in PG&E LAP**

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	9/4/2022	18	1	549.19	Yes	0.01	-549.18
2	9/4/2022	18	4	553.87	Yes	0.01	-553.86
3	9/4/2022	18	7	544.67	Yes	0.01	-544.66
4	9/4/2022	18	10	549.06	Yes	0.01	-549.05
5	9/4/2022	19	1	96.56	Yes	0.01	-96.55
6	9/4/2022	19	4	0.41	Yes	0.01	-0.40
7	9/4/2022	19	7	0.48	Yes	0.01	-0.47
8	9/4/2022	19	10	113.15	Yes	0.01	-113.14
9	9/4/2022	20	1	115.49	Yes	0.01	-115.48
10	9/4/2022	20	4	117.23	Yes	0.01	-117.22
11	9/4/2022	20	7	111.81	Yes	0.01	-111.80
12	9/4/2022	20	10	101.36	Yes	0.01	-101.35
13	9/4/2022	21	1	114.41	Yes	0.01	-114.40
14	9/4/2022	21	4	555.09	Yes	0.01	-555.08
15	9/4/2022	21	7	559.10	Yes	0.01	-559.09
16	9/4/2022	21	10	550.32	Yes	0.01	-550.31
17	9/4/2022	22	1	567.94	Yes	0.01	-567.93
18	9/6/2022	13	1	248.62	Yes	141.93	-106.69
19	9/6/2022	13	4	248.19	Yes	150	-98.19
20	9/6/2022	13	7	257.05	Yes	401.62	144.57
21	9/6/2022	13	10	280.17	Yes	240.94	-39.23
22	9/6/2022	14	1	213.39	Yes	162.46	-50.93
23	9/6/2022	14	4	231.61	Yes	178.55	-53.06
24	9/6/2022	14	7	293.71	Yes	218.09	-75.62
25	9/6/2022	14	10	893.51	Yes	123.91	-769.60
26	9/6/2022	15	1	830.34	Yes	0.01	-830.33
27	9/6/2022	15	4	967.13	Yes	0.01	-967.12
28	9/6/2022	15	7	1484.56	Yes	0.01	-1484.55
29	9/6/2022	15	10	1739.82	Yes	0.01	-1739.81
30	9/6/2022	16	1	1657.44	Yes	1000	-657.44
31	9/6/2022	16	4	1600.36	Yes	1000	-600.36
32	9/6/2022	16	7	1695.55	Yes	1000	-695.55
33	9/6/2022	16	10	1957.81	Yes	1000	-957.81
34	9/6/2022	17	1	2357.02	Yes	0.01	-2357.01

Department of Market Analysis and Forecasting – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
35	9/6/2022	17	4	1963.21	Yes	0.01	-1963.20
36	9/6/2022	17	7	1885.60	Yes	0.01	-1885.59
37	9/6/2022	17	10	2228.16	Yes	0.01	-2228.15
38	9/6/2022	18	1	1771.36	Yes	0.01	-1771.35
39	9/6/2022	18	4	1540.19	Yes	0.01	-1540.18
40	9/6/2022	18	7	1995.22	Yes	0.01	-1995.21
41	9/6/2022	18	10	2000.59	Yes	0.01	-2000.58
42	9/6/2022	19	1	1896.91	Yes	0.01	-1896.90
43	9/6/2022	19	4	2000.50	Yes	0.01	-2000.49
44	9/6/2022	19	7	1916.90	Yes	0.01	-1916.89
45	9/6/2022	19	10	1903.72	Yes	0.01	-1903.71
46	9/6/2022	20	1	1870.63	Yes	0.01	-1870.62
47	9/6/2022	20	4	1873.13	Yes	0.01	-1873.12
48	9/6/2022	20	7	1982.17	Yes	0.01	-1982.16
49	9/6/2022	20	10	1963.71	Yes	0.01	-1963.70
50	9/6/2022	21	1	1948.42	Yes	0.01	-1948.41
51	9/6/2022	21	4	1962.15	Yes	0.01	-1962.14
52	9/6/2022	21	7	1911.58	Yes	0.01	-1911.57
53	9/6/2022	21	10	1551.88	Yes	0.01	-1551.87
54	9/6/2022	22	1	1322.20	Yes	0.01	-1322.19
55	9/6/2022	22	4	260.43	Yes	0.01	-260.42
56	9/6/2022	22	7	356.53	Yes	0.01	-356.52
57	9/6/2022	22	10	345.56	Yes	0.01	-345.55
58	9/8/2022	18	4	693.00	Yes	0.01	-692.99
59	9/8/2022	18	7	644.73	Yes	0.01	-644.72
60	9/8/2022	18	10	786.57	Yes	0.01	-786.56
61	9/8/2022	19	1	693.91	Yes	0.01	-693.90
62	9/8/2022	19	4	610.12	Yes	0.01	-610.11
63	9/8/2022	19	7	812.67	Yes	0.01	-812.66
64	9/8/2022	19	10	823.26	Yes	0.01	-823.25
65	9/8/2022	20	1	468.09	Yes	0.01	-468.08
66	9/8/2022	20	4	502.39	Yes	0.01	-502.38
67	9/8/2022	20	7	344.72	Yes	0.01	-344.71
68	9/8/2022	20	10	376.70	Yes	0.01	-376.69
69	9/8/2022	21	1	153.41	Yes	0.01	-153.40
70	9/8/2022	21	4	141.98	Yes	0.01	-141.97
71	9/8/2022	21	7	187.71	Yes	0.01	-187.70
72	9/8/2022	21	10	796.05	Yes	0.01	-796.04

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
73	9/8/2022	23	4	268.84	Yes	0.01	-268.83
74	9/8/2022	23	7	1014.73	Yes	0.01	-1014.72
75	9/8/2022	23	10	335.99	Yes	0.01	-335.98
76	9/9/2022	15	7	137.05	Yes	0.01	-137.04
77	9/9/2022	15	10	133.53	Yes	0.01	-133.52
78	9/9/2022	16	1	128.65	Yes	0.01	-128.64
79	9/9/2022	16	4	109.52	Yes	0.01	-109.51
80	9/9/2022	16	7	105.22	Yes	0.01	-105.21
81	9/9/2022	16	10	103.59	Yes	0.01	-103.58
82	9/9/2022	17	1	134.88	Yes	0.01	-134.87
83	9/9/2022	17	4	109.15	Yes	0.01	-109.14
84	9/9/2022	17	7	302.12	Yes	0.01	-302.11
85	9/9/2022	17	10	104.26	Yes	0.01	-104.25
86	9/9/2022	18	1	92.30	Yes	0.01	-92.29
87	9/9/2022	18	4	92.49	Yes	0.01	-92.48
88	9/9/2022	18	7	93.71	Yes	0.01	-93.70
89	9/9/2022	18	10	93.80	Yes	0.01	-93.79
90	9/9/2022	19	1	93.64	Yes	0.01	-93.63
91	9/9/2022	19	4	96.73	Yes	0.01	-96.72
92	9/9/2022	19	7	106.82	Yes	0.01	-106.81
93	9/9/2022	19	10	100.11	Yes	0.01	-100.10
94	9/9/2022	20	1	97.75	Yes	0.01	-97.74
95	9/9/2022	20	4	98.04	Yes	0.01	-98.03
96	9/9/2022	20	7	93.89	Yes	0.01	-93.88
97	9/9/2022	20	10	91.94	Yes	0.01	-91.93
98	9/9/2022	21	1	94.28	Yes	0.01	-94.27
99	9/9/2022	21	4	96.63	Yes	0.01	-96.62
100	9/9/2022	21	7	81.29	Yes	0.01	-81.28
101	9/9/2022	21	10	74.41	Yes	0.01	-74.40
102	9/9/2022	22	1	87.71	Yes	0.01	-87.70
103	9/9/2022	22	4	86.50	Yes	0.01	-86.49
104	9/9/2022	22	7	88.39	Yes	0.01	-88.38
105	9/9/2022	22	10	87.20	Yes	0.01	-87.19
106	9/16/2022	9	1	58.34	Yes	109.59	51.25
107	9/16/2022	9	4	56.06	Yes	109.59	53.53
108	9/16/2022	9	7	62.10	Yes	109.59	47.49
109	9/16/2022	9	10	62.12	Yes	109.59	47.47
110	9/16/2022	10	1	63.66	Yes	109.59	45.93

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
111	9/16/2022	10	4	63.76	Yes	82.47	18.71
112	9/16/2022	10	7	59.08	Yes	82.47	23.39
113	9/16/2022	10	10	58.19	Yes	109.59	51.40
114	9/16/2022	11	1	45.62	Yes	109.59	63.97
115	9/16/2022	11	4	46.38	Yes	109.59	63.21
116	9/16/2022	11	7	50.76	Yes	109.59	58.83
117	9/16/2022	11	10	50.34	Yes	109.59	59.25
118	9/16/2022	12	1	27.30	Yes	109.59	82.29
119	9/16/2022	12	4	30.92	Yes	109.59	78.67
120	9/16/2022	12	7	39.46	Yes	109.59	70.13
121	9/16/2022	12	10	32.30	Yes	109.59	77.29



**Table 9: Price Impact Analysis Information for Pricing Node B in SCE LAP**

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	8/15/2022	16	1	88.77	Yes	126.35	37.58
2	8/15/2022	16	2	90.07	Yes	126.35	36.28
3	8/15/2022	16	5	99.03	Yes	126.35	27.32
4	8/15/2022	16	7	93.03	Yes	126.35	33.32
5	8/15/2022	16	8	93.03	Yes	126.35	33.32
6	8/15/2022	16	9	93.03	Yes	126.35	33.32
7	8/15/2022	16	10	98.59	Yes	126.35	27.76
8	8/15/2022	16	11	92.72	Yes	126.35	33.63
9	8/15/2022	16	12	95.80	Yes	126.35	30.55
10	8/15/2022	17	1	94.95	Yes	126.35	31.40
11	8/15/2022	17	2	94.56	Yes	126.35	31.79
12	8/15/2022	17	3	92.86	Yes	126.35	33.49
13	8/15/2022	17	4	94.85	Yes	126.35	31.50
14	8/15/2022	17	5	94.99	Yes	126.35	31.36
15	8/15/2022	17	6	94.99	Yes	126.35	31.36
16	8/15/2022	17	7	96.58	Yes	126.35	29.77
17	8/15/2022	17	8	98.94	Yes	126.35	27.41
18	8/15/2022	17	9	100.02	Yes	126.35	26.33
19	8/15/2022	17	10	100.02	Yes	126.35	26.33
20	8/15/2022	17	11	100.20	Yes	126.35	26.15
21	8/15/2022	17	12	100.08	Yes	126.35	26.27
22	8/15/2022	18	1	93.06	Yes	126.35	33.29
23	8/15/2022	18	2	96.86	Yes	126.35	29.49
24	8/15/2022	18	3	99.00	Yes	126.35	27.35
25	8/15/2022	18	4	100.11	Yes	126.35	26.24
26	8/15/2022	18	5	104.97	Yes	126.35	21.38
27	8/15/2022	18	6	108.77	Yes	126.35	17.58
28	8/15/2022	18	7	104.37	Yes	126.35	21.98
29	8/15/2022	18	8	113.15	Yes	126.35	13.20
30	8/15/2022	18	9	113.32	Yes	126.35	13.03
31	8/15/2022	18	10	113.20	Yes	126.35	13.15
32	8/15/2022	18	11	121.00	Yes	126.35	5.35
33	8/15/2022	18	12	120.92	Yes	126.35	5.43
34	8/15/2022	19	1	112.79	Yes	126.35	13.56

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
35	8/15/2022	19	2	112.79	Yes	126.35	13.56
36	8/15/2022	19	3	115.41	Yes	126.35	10.94
37	8/15/2022	19	4	115.41	Yes	126.35	10.94
38	8/15/2022	19	5	118.28	Yes	126.35	8.07
39	8/15/2022	19	6	129.72	Yes	126.35	-3.37
40	8/15/2022	19	7	138.58	Yes	126.35	-12.23
41	8/15/2022	19	8	151.65	Yes	126.35	-25.30
42	8/15/2022	19	9	152.19	Yes	126.35	-25.84
43	8/15/2022	19	10	150.96	Yes	126.35	-24.61
44	8/15/2022	19	11	153.00	Yes	126.35	-26.65
45	8/15/2022	19	12	159.67	Yes	126.35	-33.32
46	8/15/2022	20	1	137.67	Yes	126.35	-11.32
47	8/15/2022	20	2	134.56	Yes	126.35	-8.21
48	8/15/2022	20	3	140.51	Yes	126.35	-14.16
49	8/15/2022	20	4	147.05	Yes	126.35	-20.70
50	8/15/2022	20	5	144.65	Yes	126.35	-18.30
51	8/15/2022	20	6	144.88	Yes	126.35	-18.53
52	8/15/2022	20	7	147.05	Yes	126.35	-20.70
53	8/15/2022	20	8	145.76	Yes	126.35	-19.41
54	8/15/2022	20	9	140.76	Yes	126.35	-14.41
55	8/15/2022	20	10	139.19	Yes	126.35	-12.84
56	8/15/2022	20	11	123.37	Yes	126.35	2.98
57	8/15/2022	20	12	117.27	Yes	126.35	9.08
58	8/15/2022	21	1	117.44	Yes	126.35	8.91
59	8/15/2022	21	2	117.39	Yes	126.35	8.96
60	8/15/2022	21	3	117.16	Yes	126.35	9.19
61	8/15/2022	21	4	122.06	Yes	126.35	4.29
62	8/15/2022	21	5	121.64	Yes	126.35	4.71
63	8/15/2022	21	6	123.80	Yes	126.35	2.55
64	8/15/2022	21	7	119.50	Yes	126.35	6.85
65	8/15/2022	21	8	115.58	Yes	126.35	10.77
66	8/15/2022	21	9	112.06	Yes	126.35	14.29
67	8/15/2022	21	10	112.93	Yes	126.35	13.42
68	8/15/2022	21	11	110.89	Yes	126.35	15.46
69	8/15/2022	21	12	110.90	Yes	126.35	15.45
70	8/16/2022	16	1	118.77	Yes	140.80	22.03
71	8/16/2022	16	2	124.82	Yes	140.80	15.98
72	8/16/2022	16	3	121.39	Yes	140.80	19.41

Department of Market Analysis and Forecasting – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
73	8/16/2022	16	4	115.16	Yes	140.80	25.64
74	8/16/2022	16	5	113.35	Yes	140.80	27.45
75	8/16/2022	16	6	119.72	Yes	140.80	21.08
76	8/16/2022	16	7	159.80	Yes	140.80	-19.00
77	8/16/2022	16	8	188.34	Yes	140.80	-47.54
78	8/16/2022	16	9	199.79	Yes	140.80	-58.99
79	8/16/2022	16	10	187.65	Yes	140.80	-46.85
80	8/16/2022	16	11	185.52	Yes	140.80	-44.72
81	8/16/2022	16	12	189.46	Yes	140.80	-48.66
82	8/16/2022	17	1	182.75	Yes	140.80	-41.95
83	8/16/2022	17	2	165.35	Yes	140.80	-24.55
84	8/16/2022	17	3	133.76	Yes	140.80	7.04
85	8/16/2022	17	4	145.70	Yes	140.80	-4.90
86	8/16/2022	17	5	151.34	Yes	140.80	-10.54
87	8/16/2022	17	6	132.54	Yes	140.80	8.26
88	8/16/2022	17	7	128.27	Yes	140.80	12.53
89	8/16/2022	17	8	131.19	Yes	140.80	9.61
90	8/16/2022	17	9	133.24	Yes	140.80	7.56
91	8/16/2022	17	10	122.14	Yes	140.80	18.66
92	8/16/2022	17	11	124.49	Yes	140.80	16.31
93	8/16/2022	17	12	120.63	Yes	140.80	20.17
94	8/16/2022	22	4	137.57	Yes	140.80	3.23
95	8/16/2022	22	5	124.04	Yes	140.80	16.76
96	8/16/2022	22	6	117.44	Yes	140.80	23.36
97	8/16/2022	22	7	118.68	Yes	140.80	22.12
98	8/16/2022	22	8	117.24	Yes	140.80	23.56
99	8/16/2022	22	9	117.41	Yes	140.80	23.39
100	8/16/2022	22	10	117.11	Yes	140.80	23.69
101	8/16/2022	22	11	112.29	Yes	140.80	28.51
102	8/16/2022	22	12	112.38	Yes	140.80	28.42
103	8/16/2022	23	1	161.83	Yes	140.80	-21.03
104	8/16/2022	23	2	158.02	Yes	140.80	-17.22
105	8/16/2022	23	3	147.57	Yes	140.80	-6.77
106	8/16/2022	23	4	143.06	Yes	140.80	-2.26
107	8/16/2022	23	5	126.22	Yes	140.80	14.58
108	8/16/2022	23	6	112.44	Yes	140.80	28.36
109	8/17/2022	15	1	96.24	Yes	137.74	41.50
110	8/17/2022	15	2	92.28	Yes	137.74	45.46

Department of Market Analysis and Forecasting – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
111	8/17/2022	15	3	90.87	Yes	137.74	46.87
112	8/17/2022	15	4	97.82	Yes	137.74	39.92
113	8/17/2022	15	5	99.29	Yes	137.74	38.45
114	8/17/2022	15	6	99.29	Yes	137.74	38.45
115	8/17/2022	15	7	99.29	Yes	137.74	38.45
116	8/17/2022	15	8	99.29	Yes	137.74	38.45
117	8/17/2022	15	9	99.29	Yes	137.74	38.45
118	8/17/2022	15	10	99.29	Yes	137.74	38.45
119	8/17/2022	15	11	99.29	Yes	137.74	38.45
120	8/17/2022	15	12	98.44	Yes	137.74	39.30
121	8/17/2022	16	1	98.44	Yes	137.74	39.30
122	8/17/2022	16	2	102.03	Yes	137.74	35.71
123	8/17/2022	16	3	95.86	Yes	137.74	41.88
124	8/17/2022	16	4	111.27	Yes	137.74	26.47
125	8/17/2022	16	5	115.22	Yes	137.74	22.52
126	8/17/2022	16	6	115.31	Yes	137.74	22.43
127	8/17/2022	16	7	125.35	Yes	137.74	12.39
128	8/17/2022	16	8	129.77	Yes	137.74	7.97
129	8/17/2022	16	9	134.64	Yes	137.74	3.10
130	8/17/2022	16	10	134.62	Yes	137.74	3.12
131	8/17/2022	16	11	134.48	Yes	137.74	3.26
132	8/17/2022	16	12	137.66	Yes	137.74	0.08
133	8/17/2022	22	7	106.91	Yes	137.74	30.83
134	8/17/2022	22	8	106.61	Yes	137.74	31.13
135	8/17/2022	22	9	104.88	Yes	137.74	32.86
136	8/17/2022	22	10	102.01	Yes	137.74	35.73
137	8/17/2022	22	11	99.06	Yes	137.74	38.68
138	8/17/2022	22	12	92.21	Yes	137.74	45.53
139	8/17/2022	23	1	92.21	Yes	137.74	45.53
140	8/17/2022	23	2	94.19	Yes	137.74	43.55
141	8/17/2022	23	3	93.75	Yes	137.74	43.99
142	8/17/2022	23	4	96.35	Yes	137.74	41.39
143	8/17/2022	23	5	93.73	Yes	137.74	44.01
144	8/17/2022	23	6	90.83	Yes	137.74	46.91
145	8/18/2022	16	2	93.00	Yes	137.00	44.00
146	8/18/2022	16	3	92.85	Yes	137.00	44.15
147	8/18/2022	16	4	92.87	Yes	137.00	44.13
148	8/18/2022	16	5	92.87	Yes	137.00	44.13

Department of Market Analysis and Forecasting – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
149	8/18/2022	16	6	93.49	Yes	137.00	43.51
150	8/18/2022	16	7	93.95	Yes	137.00	43.05
151	8/18/2022	16	8	94.79	Yes	137.00	42.21
152	8/18/2022	16	9	93.04	Yes	137.00	43.96
153	8/18/2022	16	10	93.78	Yes	137.00	43.22
154	8/18/2022	16	11	93.79	Yes	137.00	43.21
155	8/18/2022	16	12	94.84	Yes	137.00	42.16
156	8/18/2022	17	1	84.12	Yes	137.00	52.88
157	8/18/2022	17	2	85.09	Yes	137.00	51.91
158	8/18/2022	17	3	82.67	Yes	137.00	54.33
159	8/18/2022	17	4	84.48	Yes	137.00	52.52
160	8/18/2022	17	5	81.93	Yes	137.00	55.07
161	8/18/2022	17	6	84.60	Yes	137.00	52.40
162	8/18/2022	17	7	88.05	Yes	137.00	48.95
163	8/18/2022	17	8	88.90	Yes	137.00	48.10
164	8/18/2022	17	9	88.75	Yes	137.00	48.25
165	8/18/2022	17	10	88.94	Yes	137.00	48.06
166	8/18/2022	17	11	89.79	Yes	137.00	47.21
167	8/18/2022	17	12	92.08	Yes	137.00	44.92
168	8/18/2022	18	1	85.50	Yes	137.00	51.50
169	8/18/2022	18	2	86.56	Yes	137.00	50.44
170	8/18/2022	18	3	88.59	Yes	137.00	48.41
171	8/18/2022	18	4	89.48	Yes	137.00	47.52
172	8/18/2022	18	5	89.48	Yes	137.00	47.52
173	8/18/2022	18	6	90.09	Yes	137.00	46.91
174	8/18/2022	18	7	92.27	Yes	137.00	44.73
175	8/18/2022	18	8	94.16	Yes	137.00	42.84
176	8/18/2022	18	9	98.39	Yes	137.00	38.61
177	8/18/2022	18	10	106.64	Yes	137.00	30.36
178	8/18/2022	18	11	110.91	Yes	137.00	26.09
179	8/18/2022	18	12	110.91	Yes	137.00	26.09
180	8/18/2022	19	1	108.92	Yes	137.00	28.08
181	8/18/2022	19	2	110.39	Yes	137.00	26.61
182	8/18/2022	19	3	113.86	Yes	137.00	23.14
183	8/18/2022	19	4	109.56	Yes	137.00	27.44
184	8/18/2022	19	5	110.87	Yes	137.00	26.13
185	8/18/2022	19	6	114.32	Yes	137.00	22.68
186	8/18/2022	19	7	118.52	Yes	137.00	18.48

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
187	8/18/2022	19	8	120.68	Yes	137.00	16.32
188	8/18/2022	19	9	121.35	Yes	137.00	15.65
189	8/18/2022	19	10	129.48	Yes	137.00	7.52
190	8/18/2022	19	11	125.30	Yes	137.00	11.70
191	8/18/2022	19	12	124.79	Yes	137.00	12.21
192	8/18/2022	20	1	121.82	Yes	137.00	15.18
193	8/18/2022	20	2	119.30	Yes	137.00	17.70
194	8/18/2022	20	3	120.32	Yes	137.00	16.68
195	8/18/2022	20	4	126.24	Yes	137.00	10.76
196	8/18/2022	20	5	122.03	Yes	137.00	14.97
197	8/18/2022	20	6	118.59	Yes	137.00	18.41
198	8/18/2022	20	7	112.28	Yes	137.00	24.72
199	8/18/2022	20	8	108.54	Yes	137.00	28.46
200	8/18/2022	20	9	109.04	Yes	137.00	27.96
201	8/18/2022	20	10	108.21	Yes	137.00	28.79
202	8/18/2022	20	11	107.94	Yes	137.00	29.06
203	8/18/2022	20	12	108.39	Yes	137.00	28.61
204	8/18/2022	21	1	112.35	Yes	137.00	24.65
205	8/18/2022	21	2	110.04	Yes	137.00	26.96
206	8/18/2022	21	3	108.13	Yes	137.00	28.87
207	8/18/2022	21	4	107.95	Yes	137.00	29.05
208	8/18/2022	21	5	107.66	Yes	137.00	29.34
209	8/18/2022	21	6	106.99	Yes	137.00	30.01
210	8/18/2022	21	7	106.99	Yes	137.00	30.01
211	8/18/2022	21	8	104.53	Yes	137.00	32.47
212	8/18/2022	21	9	101.15	Yes	137.00	35.85
213	8/18/2022	21	10	97.83	Yes	137.00	39.17
214	8/18/2022	21	11	96.87	Yes	137.00	40.13
215	8/18/2022	21	12	94.44	Yes	137.00	42.56
216	8/18/2022	22	1	105.53	Yes	137.00	31.47
217	8/18/2022	22	2	98.53	Yes	137.00	38.47
218	8/18/2022	22	3	97.11	Yes	137.00	39.89
219	8/18/2022	22	4	95.15	Yes	137.00	41.85
220	8/18/2022	22	5	94.50	Yes	137.00	42.50
221	8/18/2022	22	6	93.57	Yes	137.00	43.43
222	8/18/2022	22	7	89.14	Yes	137.00	47.86
223	8/18/2022	22	8	89.30	Yes	137.00	47.70
224	8/18/2022	22	9	89.30	Yes	137.00	47.70

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
225	8/18/2022	22	10	91.76	Yes	137.00	45.24
226	8/18/2022	22	11	89.88	Yes	137.00	47.12
227	8/18/2022	22	12	89.91	Yes	137.00	47.09

## Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In September 2022, the ISO applied the exceptional dispatch bid mitigation to the exceptional dispatches. Table 10 shows the costs by instruction type in September. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were \$12,713. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be \$42,222. The cost saving from the exceptional dispatch bid mitigation was \$29,509.

**Table 10: Bid Mitigation Analysis for September 2022**

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Savings
NONTMOD	12	\$30,562	\$18,012	\$ 12,551
TMODEL5	5	\$11,653	\$11,282	\$371
TMODEL7	3	\$7	\$215	\$(209)
Total	20	\$42,222	\$29,509	\$12,713