



# **Exceptional Dispatch Report**

## **Table 2: August 2020**

Market Quality and Renewable Integration

October 15, 2020

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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 August 2020.

This report contains a price impact analysis as prescribed by FERC in its September 2 order. The price impact analysis for the month of August is presented in Appendix B. This report also includes mitigation analysis for August 2020 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 August 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 inertia 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 2020 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 August, 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 August 2020. 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 7720 (along with 6410, 7120, 7230, 7320, 7430, and 7450). Reliability Assessment is the reason as explained in the operator procedure 2330C<sup>7</sup> 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.

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1) <sup>7</sup> The operator procedure 2330C - <http://www.caiso.com/Documents/2330C.pdf>

**Table 1: Exceptional Dispatches in August 2020**

California Independent System Operator Corporation Exceptional Dispatch Report October 15, 2020																					
Chart 2: Table of Exceptional Dispatches for Period 01/August/2020 - 31/August/2020																					
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	8/22/2020	50	No	INC	1	23:00	0:00	-1.99	11063.15	0.00	72.58	0.00	0.00	0.00	0.00	0.00	0.00
2	RT	Bridging Schedules	SCE	Big Creek-Ventura	8/26/2020	100	No	INC	1	23:00	0:00	-0.63	20065.24	0.00	25.82	0.00	0.00	0.00	0.00	0.00	0.00
3	RT	Bridging Schedules	SCE	Big Creek-Ventura	8/27/2020	100	No	INC	14	0:00	14:00	0.18	190671.04	0.00	-34.22	0.00	0.00	0.00	0.00	0.00	0.00
4	RT	Bridging Schedules	SCE	Big Creek-Ventura	8/28/2020	100	No	INC	14	0:00	14:00	50.09	175781.17	0.00	-1782.41	0.00	0.00	0.00	0.00	0.00	0.00
5	RT	Bridging Schedules	SCE	LA Basin	8/23/2020	10	No	INC	1	23:00	0:00	0.00	2183.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	RT	Bridging Schedules	SCE	LA Basin	8/26/2020	10	No	INC	1	23:00	0:00	0.00	2491.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	RT	Bridging Schedules	SCE	LA Basin	8/27/2020	10 - 20	Yes	INC	24	0:00	0:00	0.00	27289.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	8/12/2020	401	No	INC	4	20:50	0:00	0.23	69220.96	0.00	-8.17	0.45	-8.17	0.00	-22.43	0.00	0.00
9	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	8/13/2020	401	No	INC	17	0:00	17:00	356.84	356548.21	0.00	-29580.58	0.00	0.00	0.00	-185.16	0.00	0.00
10	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	8/18/2020	665	No	INC	1	14:35	15:15	84.48	0.00	0.00	-10959.05	0.00	0.00	0.00	0.00	0.00	0.00
11	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	8/9/2020	190	No	INC	3	17:35	20:00	33.45	0.00	0.00	-3041.41	58.91	-1183.59	0.00	-18750.41	0.00	0.00
12	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	8/12/2020	400 - 475	No	DEC	1	17:15	18:00	74.96	-2214.65	0.00	-4840.82	0.00	0.00	0.00	0.00	0.00	0.00
13	RT	Conditions beyond the control of the CAISO	SDGE	San Diego-IV	8/17/2020	25	No	DEC	1	20:45	21:00	-0.07	0.00	0.00	3.95	0.20	0.00	0.00	0.00	0.00	0.00
14	RT	Fast Start Unit Management	PGAE	Bay Area	8/4/2020	0	No	INC	2	3:30	4:35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	RT	Fast Start Unit Management	PGAE	Bay Area	8/24/2020	20	No	DEC	3	17:00	20:00	-30.02	0.00	0.00	1117.68	0.00	0.00	0.00	0.00	0.00	0.00
16	RT	Fast Start Unit Management	PGAE	Bay Area	8/24/2020	20	No	INC	5	16:55	21:30	-7.53	0.00	0.00	305.94	0.00	0.00	0.00	0.00	0.00	0.00
17	RT	Fast Start Unit Management	PGAE	Bay Area	8/25/2020	0	No	INC	2	7:15	8:20	0.00	0.00	0.00	0.00	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	
18	RT	Fast Start Unit Management	PGAE	Bay Area	8/28/2020	0	No	INC	2	20:30	22:05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	RT	Fast Start Unit Management	PGAE	Fresno	8/15/2020	0	No	INC	3	21:00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	RT	Fast Start Unit Management	PGAE	Fresno	8/18/2020	0	No	INC	1	23:15	0:00	-8.75	0.00	0.00	0.00	-26.25	0.00	0.00	0.00	0.00	0.00	0.00
21	RT	Fast Start Unit Management	PGAE	Fresno	8/19/2020	0	No	INC	3	0:00	2:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	RT	Fast Start Unit Management	PGAE	Fresno	8/24/2020	73	No	DEC	4	16:55	20:30	-18.92	-6607.18	0.00	623.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	RT	Fast Start Unit Management	PGAE	Fresno	8/28/2020	0	No	INC	3	21:00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	RT	Fast Start Unit Management	PGAE	NA	8/18/2020	307	No	DEC	4	4:40	8:00	15.89	-449.64	0.00	-1066.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	RT	Fast Start Unit Management	PGAE	NA	8/18/2020	307	No	INC	14	8:00	22:00	198.12	70400.82	0.00	-128189.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	RT	Fast Start Unit Management	PGAE	NA	8/24/2020	306.1	No	DEC	8	13:45	21:00	-206.15	0.00	0.00	5081.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/15/2020	0	No	INC	1	22:45	23:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/17/2020	0	No	INC	2	22:30	0:00	-4.00	520.54	0.00	0.00	-12.00	0.00	0.00	0.00	0.00	0.00	0.00
29	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/18/2020	0	No	INC	24	0:00	23:30	-15.78	0.00	0.00	0.00	-47.33	0.00	0.00	0.00	0.00	0.00	0.00
30	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/28/2020	0	No	INC	1	20:30	21:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	RT	Fast Start Unit Management	SCE	LA Basin	8/15/2020	0	No	INC	2	21:45	22:55	-26.19	1110.52	0.00	0.00	-78.56	0.00	0.00	0.00	0.00	0.00	0.00
32	RT	Fast Start Unit Management	SCE	LA Basin	8/16/2020	0	No	INC	1	23:30	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	RT	Fast Start Unit Management	SCE	LA Basin	8/17/2020	0	No	INC	24	0:00	23:50	-10.42	999.91	0.00	0.00	-31.25	0.00	0.00	0.00	0.00	0.00	0.00
34	RT	Fast Start Unit Management	SCE	LA Basin	8/18/2020	0	No	INC	1	23:30	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	RT	Fast Start Unit Management	SCE	LA Basin	8/19/2020	0	No	INC	1	0:00	0:35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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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
36	RT	Fast Start Unit Management	SCE	LA Basin	8/22/2020	0	No	INC	1	10:00	10:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	RT	Fast Start Unit Management	SCE	LA Basin	8/25/2020	0	No	INC	2	20:55	22:00	-11.35	0.00	0.00	0.00	-37.82	0.00	0.00	0.00	0.00	0.00
38	RT	Fast Start Unit Management	SCE	LA Basin	8/27/2020	0	No	INC	2	21:30	22:35	-11.35	0.00	0.00	0.00	-34.04	0.00	0.00	0.00	0.00	0.00
39	RT	Fast Start Unit Management	SCE	LA Basin	8/28/2020	0	No	INC	2	20:30	22:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	RT	Fast Start Unit Management	SDGE	San Diego-IV	8/24/2020	21 - 25	No	DEC	4	16:15	20:00	-59.40	0.00	341.15	3325.59	0.00	0.00	0.00	0.00	0.00	0.00
41	RT	Fast Start Unit Management	SDGE	San Diego-IV	8/24/2020	21 - 25	No	INC	5	16:15	21:00	-17.82	2890.16	0.00	995.54	0.00	0.00	0.00	0.00	0.00	0.00
42	RT	Fast Start Unit Management	SDGE	San Diego-IV	8/28/2020	0	No	INC	1	21:00	22:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	RT	Gas Limitations	PGAE	Fresno	8/18/2020	250 - 407	No	INC	2	20:15	21:30	-173.38	0.00	0.00	13175.85	0.00	0.00	0.00	0.00	0.00	0.00
44	RT	Gas Limitations	PGAE	NA	8/15/2020	54	No	INC	2	16:55	18:00	-2.18	0.00	0.00	105.32	15.32	-10.72	0.00	0.00	0.00	0.00
45	RT	Gas Limitations	SCE	Big Creek-Ventura	8/18/2020	65	No	INC	2	11:45	13:00	7.15	0.00	0.00	172.88	0.00	0.00	0.00	0.00	0.00	0.00
46	RT	Gas Limitations	SCE	LA Basin	8/17/2020	140	No	INC	9	13:30	21:45	33.41	0.00	0.00	-2182.95	73.84	-1624.20	0.00	-1794.61	0.00	0.00
47	RT	Gas Limitations	SCE	LA Basin	8/18/2020	473	No	INC	10	11:15	21:00	431.57	-1439.53	0.00	-35570.01	837.43	-25804.52	0.00	19855.49	0.00	0.00
48	RT	Intertie Emergency Assistance	Intertie	NA	8/14/2020	25	No	INC	3	17:00	20:00	-62.50	0.00	0.00	28204.39	0.00	0.00	0.00	-3188.88	0.00	0.00
49	RT	Intertie Emergency Assistance	Intertie	NA	8/16/2020	138	No	INC	2	18:00	20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-64368.18	0.00	0.00
50	RT	Intertie Emergency Assistance	Intertie	NA	8/17/2020	100 - 325	No	INC	3	17:00	20:00	807.75	0.00	0.00	-57191.97	915.50	-29920.77	0.00	-98840.65	0.00	0.00
51	RT	Intertie Emergency Assistance	Intertie	NA	8/18/2020	20 - 300	No	INC	5	13:15	18:00	400.92	0.00	0.00	-172726.00	166.75	-5024.83	0.00	-1999.55	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	Intertie Emergency Assistance	Intertie	NA	8/18/2020	300	No	DEC	1	13:45	14:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	RT	Load Forecast Uncertainty	Intertie	NA	8/13/2020	54	No	INC	1	18:00	19:00	9.25	0.00	0.00	825.23	20.50	788.02	0.00	-13783.79	0.00	0.00
54	RT	Load Forecast Uncertainty	Intertie	NA	8/14/2020	107 - 273	No	INC	4	17:00	21:00	314.50	0.00	0.00	-142264.29	616.83	-21616.00	0.00	-136312.85	0.00	0.00
55	RT	Load Forecast Uncertainty	Intertie	NA	8/15/2020	100 - 225	No	INC	3	17:00	20:00	70.00	0.00	0.00	-4504.88	210.00	-4504.87	0.00	-187079.59	0.00	0.00
56	RT	Load Forecast Uncertainty	Intertie	NA	8/16/2020	52 - 200	No	INC	1	18:00	19:00	37.50	0.00	0.00	-1953.88	112.50	-1953.88	0.00	-6017.45	0.00	0.00
57	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/3/2020	24	No	DEC	6	15:00	21:00	16.57	-4541.07	30.41	-338.30	0.00	0.00	0.00	0.00	0.00	0.00
58	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/3/2020	24	No	INC	11	11:00	22:00	52.25	1396.95	121.63	-1076.19	0.86	-8.74	0.00	-23.01	0.00	0.00
59	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/15/2020	186	No	DEC	2	18:25	20:00	-13.73	-582.09	4361.56	13392.80	0.00	0.00	0.00	0.00	0.00	0.00
60	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/17/2020	20	No	DEC	3	13:00	16:00	18.86	-4294.56	0.00	-1216.64	0.00	0.00	0.00	0.00	0.00	0.00
61	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/17/2020	20 - 90	No	INC	12	10:45	22:00	136.16	1561.65	316.97	-11225.49	44.87	-669.88	0.00	-231.45	0.00	0.00
62	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/18/2020	290 - 552	No	DEC	11	12:30	23:00	135.27	-10111.69	0.00	-10462.92	0.00	0.00	0.00	0.00	0.00	0.00
63	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/18/2020	301 - 552	No	INC	10	12:45	22:00	214.82	-1757.30	0.00	-43294.98	0.00	0.00	0.00	0.00	0.00	0.00
64	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/19/2020	120	No	DEC	11	10:00	20:30	72.04	0.00	13461.08	-7987.75	0.00	0.00	0.00	0.00	0.00	0.00
65	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/19/2020	120	No	INC	4	16:00	20:00	-6.86	0.00	2944.61	98.40	0.00	0.00	0.00	0.00	0.00	0.00
66	RT	Load Forecast Uncertainty	PGAE	Fresno	8/14/2020	45 - 407	No	INC	7	16:20	22:45	693.88	31581.66	0.00	-400034.00	327.58	-6802.13	0.00	-3946.57	0.00	0.00
67	RT	Load Forecast Uncertainty	PGAE	Fresno	8/15/2020	1.51	No	DEC	2	17:00	18:30	-13.26	-3017.00	0.00	11985.53	0.00	0.00	0.00	0.00	0.00	0.00
68	RT	Load Forecast Uncertainty	PGAE	Fresno	8/15/2020	83	No	INC	2	12:25	14:00	35.59	0.00	0.00	-2633.34	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
69	RT	Load Forecast Uncertainty	PGAE	Fresno	8/16/2020	1.51 - 48	No	INC	6	15:15	21:00	-11.05	2025.00	0.00	459.26	159.42	-146.12	0.00	-3138.12	0.00	0.00
70	RT	Load Forecast Uncertainty	PGAE	Fresno	8/17/2020	41 - 91	No	DEC	4	17:00	21:00	-14.50	0.00	0.00	1072.11	152.04	-120.39	0.00	-216.95	0.00	0.00
71	RT	Load Forecast Uncertainty	PGAE	Fresno	8/17/2020	41 - 91	No	INC	10	12:00	22:00	8.30	38419.30	0.00	-569.94	36.72	-811.61	0.00	-1123.52	0.00	0.00
72	RT	Load Forecast Uncertainty	PGAE	Fresno	8/18/2020	44	No	DEC	6	16:00	21:15	-0.01	-10.76	0.00	-949.16	0.00	0.00	0.00	0.00	0.00	0.00
73	RT	Load Forecast Uncertainty	PGAE	Fresno	8/18/2020	22.5 - 407	No	INC	13	10:45	23:00	453.69	83933.92	5381.06	-298891.97	330.96	-10615.07	0.00	-14888.90	0.00	0.00
74	RT	Load Forecast Uncertainty	PGAE	Fresno	8/19/2020	78 - 96	No	INC	5	16:00	21:00	5.97	15738.32	394.40	-197.92	202.47	-188.45	0.00	-1833.99	0.00	0.00
75	RT	Load Forecast Uncertainty	PGAE	NA	8/11/2020	121	No	INC	7	14:00	21:00	-21.49	36406.23	14741.55	421.41	0.00	0.00	0.00	0.00	0.00	0.00
76	RT	Load Forecast Uncertainty	PGAE	NA	8/14/2020	46 - 569	No	INC	5	17:55	22:00	689.82	0.00	0.00	-211824.08	1057.05	-209901.03	0.00	0.00	0.00	0.00
77	RT	Load Forecast Uncertainty	PGAE	NA	8/17/2020	10	No	DEC	1	17:00	17:50	0.59	0.00	0.00	-47.96	0.00	0.00	0.00	0.00	0.00	0.00
78	RT	Load Forecast Uncertainty	PGAE	NA	8/17/2020	10 - 569	No	INC	7	15:25	22:00	251.70	0.00	0.00	-8850.05	760.33	-8983.65	0.00	-4232.20	0.00	0.00
79	RT	Load Forecast Uncertainty	PGAE	NA	8/18/2020	44 - 572	No	DEC	8	14:00	22:00	-21.48	-127.33	0.00	1851.87	0.00	0.00	0.00	0.00	0.00	0.00
80	RT	Load Forecast Uncertainty	PGAE	NA	8/18/2020	11 - 580	No	INC	10	12:55	22:00	213.77	42977.44	0.00	-94833.27	295.35	-31986.39	0.00	-6331.46	0.00	0.00
81	RT	Load Forecast Uncertainty	PGAE	NA	8/19/2020	5.6	No	DEC	5	16:00	21:00	-36.14	0.00	0.00	1573.92	0.00	0.00	0.00	0.00	0.00	0.00
82	RT	Load Forecast Uncertainty	PGAE	NA	8/19/2020	182	No	INC	7	15:30	22:00	10.52	5359.51	0.00	-440.29	8.88	-116.81	0.00	-2118.97	0.00	0.00
83	RT	Load Forecast Uncertainty	PGAE	Sierra	8/14/2020	119	No	INC	3	19:00	22:00	13.34	0.00	0.00	-4271.70	17.38	-440.56	0.00	-13533.27	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
84	RT	Load Forecast Uncertainty	PGAE	Sierra	8/17/2020	20	No	INC	3	10:00	12:45	-28.31	0.00	0.00	1303.61	0.00	0.00	0.00	0.00	0.00	0.00
85	RT	Load Forecast Uncertainty	PGAE	Sierra	8/18/2020	50	No	DEC	2	18:00	20:00	1.53	0.00	0.00	-18.07	0.00	0.00	0.00	0.00	0.00	0.00
86	RT	Load Forecast Uncertainty	PGAE	Sierra	8/18/2020	50 - 119	No	INC	6	16:20	21:30	2.92	0.00	0.00	-558.93	1.01	-386.28	0.00	0.00	0.00	0.00
87	RT	Load Forecast Uncertainty	PGAE	Stockton	8/19/2020	20	No	DEC	2	19:00	21:00	5.44	0.00	0.00	-148.77	0.00	0.00	0.00	0.00	0.00	0.00
88	RT	Load Forecast Uncertainty	PGAE	Stockton	8/19/2020	23.78	No	INC	3	16:00	19:00	5.48	0.00	0.00	-294.51	0.00	0.00	0.00	0.00	0.00	0.00
89	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/1/2020	50	No	INC	2	22:00	0:00	220.40	26782.46	0.00	-5238.36	0.00	0.00	0.00	0.00	0.00	0.00
90	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/2/2020	50	No	INC	24	0:00	0:00	4.43	139428.00	0.00	-90.47	0.00	0.00	0.00	0.00	0.00	0.00
91	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/3/2020	50 - 100	No	INC	24	0:00	0:00	3344.31	445809.16	0.00	-88625.13	-5.52	0.00	0.00	0.00	0.00	0.00
92	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/12/2020	50	No	INC	5	16:00	20:50	-65.83	77070.99	90956.70	-5961.82	0.00	0.00	0.00	0.00	0.00	0.00
93	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/14/2020	27.5 - 100	No	INC	8	16:40	0:00	15.76	69329.19	0.00	-1286.79	0.12	-4.80	0.00	-0.05	0.00	0.00
94	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/15/2020	199	No	DEC	1	16:00	16:15	-39.17	0.00	0.00	1581.70	-46.25	0.00	0.00	0.00	0.00	0.00
95	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/15/2020	199	No	INC	1	15:00	16:00	23.91	0.00	0.00	-4018.26	102.34	-4105.10	0.00	0.00	0.00	0.00
96	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/17/2020	53.9 - 741	No	DEC	6	15:00	21:00	32.41	0.00	0.00	-2164.00	245.40	0.00	0.00	0.00	0.00	0.00
97	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/17/2020	40 - 750	No	INC	12	11:00	22:15	616.09	278728.84	0.00	-40597.82	1268.22	-37601.35	0.00	-27750.86	0.00	0.00
98	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/18/2020	45 - 700	No	DEC	9	12:00	21:00	-36.98	1091426.60	0.00	7401.35	137.45	0.00	0.00	0.00	0.00	0.00
99	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/18/2020	47.1 - 720	No	INC	12	10:00	22:00	590.26	68087.22	0.00	-253402.95	1047.13	-27965.78	0.00	-50205.09	0.00	0.00
100	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/19/2020	650 - 700	No	INC	9	11:30	20:15	278.90	80664.57	0.00	-13064.05	699.11	-10796.64	0.00	-51692.78	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
101	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/21/2020	100	No	INC	1	23:00	0:00	0.03	16214.99	0.00	-1.13	0.00	0.00	0.00	0.00	0.00	0.00
102	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/22/2020	100	No	INC	24	0:00	0:00	273.27	423482.61	0.00	-21888.45	85.73	-2297.51	0.00	0.00	0.00	0.00
103	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/23/2020	50 - 100	No	INC	14	0:00	14:00	33.79	289631.02	0.00	-1773.37	42.06	-1063.34	0.00	0.00	0.00	0.00
104	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/29/2020	100	No	INC	24	0:00	0:00	131.92	315534.47	0.00	-5957.08	167.79	-5186.04	0.00	0.00	0.00	0.00
105	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/30/2020	100	No	INC	24	0:00	0:00	0.00	289179.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	RT	Load Forecast Uncertainty	SCE	Fresno	8/14/2020	10	No	DEC	4	16:15	20:00	-11.12	0.00	0.00	3153.87	0.00	0.00	0.00	0.00	0.00	0.00
107	RT	Load Forecast Uncertainty	SCE	Fresno	8/14/2020	10 - 140	No	INC	4	18:30	22:00	108.23	0.00	0.00	-62826.84	83.01	-14290.71	0.00	-47617.63	0.00	0.00
108	RT	Load Forecast Uncertainty	SCE	Fresno	8/17/2020	47	No	DEC	7	15:50	22:00	13.51	0.00	0.00	-847.81	35.25	-739.80	0.00	-198.38	0.00	0.00
109	RT	Load Forecast Uncertainty	SCE	Fresno	8/17/2020	47	No	INC	1	19:00	20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	RT	Load Forecast Uncertainty	SCE	Fresno	8/18/2020	47	No	DEC	4	17:25	21:00	-3.08	0.00	0.00	349.58	0.00	0.00	0.00	0.00	0.00	0.00
111	RT	Load Forecast Uncertainty	SCE	LA Basin	8/2/2020	10 - 130	No	INC	22	2:00	0:00	0.17	160847.04	0.00	-4.04	0.00	0.00	0.00	0.00	0.00	0.00
112	RT	Load Forecast Uncertainty	SCE	LA Basin	8/3/2020	10	No	INC	4	0:00	4:00	0.00	7827.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	RT	Load Forecast Uncertainty	SCE	LA Basin	8/11/2020	20	No	INC	10	14:00	0:00	0.00	15841.60	8071.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	RT	Load Forecast Uncertainty	SCE	LA Basin	8/12/2020	40	No	INC	1	23:05	0:00	36.18	0.00	0.00	-996.14	0.00	0.00	0.00	0.00	0.00	0.00
115	RT	Load Forecast Uncertainty	SCE	LA Basin	8/13/2020	46.9	No	DEC	5	16:40	21:00	15.59	0.00	0.00	-671.49	0.00	0.00	0.00	0.00	0.00	0.00
116	RT	Load Forecast Uncertainty	SCE	LA Basin	8/13/2020	40 - 263	No	INC	21	0:00	20:30	462.58	78322.21	99441.88	-37909.83	370.39	-16914.74	0.00	-1369.62	0.00	0.00
117	RT	Load Forecast Uncertainty	SCE	LA Basin	8/14/2020	10 - 46.9	No	DEC	8	14:40	22:00	-86.76	0.00	0.00	7162.60	0.00	0.00	0.00	0.00	0.00	0.00

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118	RT	Load Forecast Uncertainty	SCE	LA Basin	8/14/2020	10 - 140	No	INC	7	16:00	22:30	108.11	0.00	0.00	-57812.82	111.08	-15047.61	0.00	-47833.84	0.00	0.00
119	RT	Load Forecast Uncertainty	SCE	LA Basin	8/15/2020	46.9 - 96	No	DEC	7	15:40	22:00	3.77	0.00	0.00	-219.82	0.00	0.00	0.00	0.00	0.00	0.00
120	RT	Load Forecast Uncertainty	SCE	LA Basin	8/15/2020	46.9 - 96	No	INC	3	17:00	19:30	48.72	10231.41	112.83	-3121.36	0.00	0.00	0.00	0.00	0.00	0.00
121	RT	Load Forecast Uncertainty	SCE	LA Basin	8/17/2020	45 - 315	No	DEC	8	14:00	22:00	30.17	0.00	0.00	-1568.43	93.37	-1860.66	0.00	-1114.31	0.00	0.00
122	RT	Load Forecast Uncertainty	SCE	LA Basin	8/17/2020	45 - 479.97	No	INC	11	11:30	22:30	1579.23	475573.81	0.00	-104362.98	1865.78	-45449.64	0.00	-59422.58	0.00	0.00
123	RT	Load Forecast Uncertainty	SCE	LA Basin	8/18/2020	10 - 460	No	DEC	9	13:05	22:00	270.67	-16006.50	0.00	-119451.57	34.56	-749.34	0.00	-558.36	0.00	0.00
124	RT	Load Forecast Uncertainty	SCE	LA Basin	8/18/2020	10 - 460	No	INC	14	10:00	0:00	195.83	69337.94	0.00	1833.08	600.06	-17857.15	0.00	-520575.14	0.00	0.00
125	RT	Load Forecast Uncertainty	SCE	LA Basin	8/19/2020	56 - 440	No	DEC	6	15:00	21:00	1065.28	-28238.77	0.00	-85183.93	290.36	-5142.98	0.00	-2900.65	0.00	0.00
126	RT	Load Forecast Uncertainty	SCE	LA Basin	8/19/2020	10 - 473	Yes	INC	24	0:00	0:00	699.48	276868.98	0.00	-68530.44	2231.17	-42441.53	0.00	-79192.76	0.00	0.00
127	RT	Load Forecast Uncertainty	SCE	LA Basin	8/20/2020	20	No	INC	13	11:00	0:00	-165.00	65040.74	21020.73	11334.06	0.00	0.00	0.00	0.00	0.00	0.00
128	RT	Load Forecast Uncertainty	SCE	LA Basin	8/22/2020	130 - 150	No	INC	24	0:00	0:00	396.92	535136.62	0.00	-22803.93	597.15	-16501.99	0.00	0.00	0.00	0.00
129	RT	Load Forecast Uncertainty	SCE	LA Basin	8/24/2020	10	No	INC	12	12:00	0:00	-5.00	19545.67	0.00	1626.74	0.00	0.00	0.00	0.00	0.00	0.00
130	RT	Load Forecast Uncertainty	SCE	NA	8/17/2020	330	No	DEC	9	13:25	22:00	-26.53	0.00	0.00	1264.32	0.00	0.00	0.00	0.00	0.00	0.00
131	RT	Load Forecast Uncertainty	SCE	NA	8/17/2020	330	No	INC	3	14:00	17:00	-1.25	0.00	0.00	100.53	0.00	0.00	0.00	0.00	0.00	0.00
132	RT	Load Forecast Uncertainty	SCE	NA	8/18/2020	365	No	DEC	3	19:00	22:00	-54.23	-248.37	0.00	4096.48	0.00	0.00	0.00	0.00	0.00	0.00
133	RT	Load Forecast Uncertainty	SCE	NA	8/18/2020	34 - 365	No	INC	9	12:00	20:45	-1.93	-579.53	0.00	145.31	0.62	-15.44	0.00	0.00	0.00	0.00

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134	RT	Load Forecast Uncertainty	SCE	NA	8/19/2020	350	No	DEC	5	18:00	22:15	1.09	0.00	0.00	-66.39	0.00	0.00	0.00	0.00	0.00	0.00
135	RT	Load Forecast Uncertainty	SCE	NA	8/19/2020	350	No	INC	1	17:00	18:00	-0.47	0.00	0.00	34.32	0.00	0.00	0.00	0.00	0.00	0.00
136	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/13/2020	24.25	No	DEC	5	16:25	20:30	-14.01	0.00	0.00	578.82	0.00	0.00	0.00	0.00	0.00	0.00
137	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/14/2020	18.2 - 47.1	No	DEC	5	16:00	21:00	1.60	0.00	0.00	-648.24	0.05	-1.11	0.00	-0.34	0.00	0.00
138	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/14/2020	18.2 - 47.1	No	INC	7	15:35	22:00	29.31	8113.13	0.00	-1855.48	0.06	-1.52	0.00	-0.90	0.00	0.00
139	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/17/2020	-800	No	DEC	7	14:15	21:00	-66.66	0.00	0.00	4340.71	17.70	0.00	0.00	0.00	0.00	0.00
140	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/17/2020	50 - 403	No	INC	7	15:45	22:00	26.83	0.00	0.00	-1478.29	139.74	-2766.30	0.00	-15854.55	0.00	0.00
141	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/18/2020	-294	No	DEC	9	12:35	21:00	-6.93	-42.42	0.00	742.40	0.00	0.00	0.00	0.00	0.00	0.00
142	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/18/2020	22 - 102	No	INC	10	12:55	22:00	245.02	47782.12	1066.04	-122934.36	544.68	-72150.91	0.00	-18445.66	0.00	0.00
143	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/19/2020	-779	No	DEC	9	13:00	22:00	0.33	-12245.72	0.00	-63.12	17.30	-511.11	0.00	-26.59	0.00	0.00
144	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/19/2020	21 - 549	No	INC	9	14:00	22:15	1.48	22502.17	815.24	-34.24	0.08	-1.39	0.00	-122.80	0.00	0.00
145	RT	Market Disruption	Intertie	NA	8/19/2020	3	No	INC	1	19:00	20:00	1.00	0.00	0.00	-63.10	0.00	0.00	0.00	0.00	0.00	0.00
146	RT	Other Reliability Requirement	PGAE	Bay Area	8/15/2020	15 - 53	No	INC	5	15:00	20:00	32.13	0.00	0.00	-4266.41	24.48	-940.89	0.00	-23.79	0.00	0.00
147	RT	Other Reliability Requirement	PGAE	Bay Area	8/16/2020	55	No	INC	5	16:55	21:00	48.38	0.00	0.00	-2559.24	94.34	-1902.00	0.00	-3763.77	0.00	0.00
148	RT	Other Reliability Requirement	PGAE	Bay Area	8/28/2020	300 - 370	No	DEC	1	16:05	16:20	-29.44	1.70	0.00	874.38	-18.57	0.00	556.56	0.00	0.00	0.00
149	RT	Other Reliability Requirement	PGAE	Bay Area	8/28/2020	555	No	INC	1	16:05	16:15	8.80	0.00	0.00	-272.00	0.00	0.00	0.00	0.00	0.00	0.00
150	RT	Other Reliability Requirement	PGAE	Fresno	8/9/2020	83	No	DEC	2	18:00	20:00	-31.53	0.00	0.00	900.17	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
151	RT	Other Reliability Requirement	PGAE	Fresno	8/9/2020	83	No	INC	2	16:55	18:00	80.39	8820.75	0.00	-2160.70	0.00	0.00	0.00	0.00	0.00	0.00
152	RT	Other Reliability Requirement	PGAE	Fresno	8/15/2020	26 - 83	No	DEC	5	15:40	20:00	-128.85	-7542.50	0.00	6071.74	-102.99	0.00	2253.46	0.00	0.00	0.00
153	RT	Other Reliability Requirement	PGAE	Fresno	8/15/2020	26 - 407	No	INC	5	16:05	20:30	495.69	-1225.00	0.00	-314503.40	254.31	-6520.61	0.00	-1054.49	0.00	0.00
154	RT	Other Reliability Requirement	PGAE	NA	8/14/2020	0 - 39	No	INC	21	1:00	22:00	-181.43	-3267.24	0.00	5679.25	-102.71	0.00	653.88	0.00	0.00	0.00
155	RT	Other Reliability Requirement	PGAE	NA	8/15/2020	244 - 249	No	INC	2	15:00	17:00	167.98	0.00	0.00	-14904.36	347.30	-14940.29	0.00	0.00	0.00	0.00
156	RT	Other Reliability Requirement	PGAE	NA	8/28/2020	0	No	DEC	1	16:00	16:15	-62.66	0.00	0.00	-473.44	-58.21	0.00	-621.24	0.00	0.00	0.00
157	RT	Other Reliability Requirement	PGAE	Stockton	8/15/2020	50	No	INC	3	17:50	20:00	16.03	0.00	0.00	-10385.14	0.00	0.00	0.00	-123.64	0.00	0.00
158	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	8/15/2020	15	No	DEC	1	16:15	16:30	-44.30	0.00	0.00	2248.01	-44.30	0.00	0.00	0.00	0.00	0.00
159	RT	Planned Transmission Outage	PGAE	Fresno	8/13/2020	0	No	DEC	1	8:45	9:05	-0.09	0.00	0.00	-0.37	-0.47	0.00	12.77	0.00	0.00	0.00
160	RT	Planned Transmission Outage	PGAE	Fresno	8/13/2020	0	No	INC	1	8:45	9:05	0.45	0.00	0.00	-24.20	-0.19	0.00	0.00	0.00	0.00	0.00
161	RT	Planned Transmission Outage	PGAE	Humboldt	8/1/2020	14 - 30	No	DEC	8	12:00	20:00	5.54	-788.17	0.00	-146.65	0.00	0.00	0.00	0.00	-191.62	0.00
162	RT	Planned Transmission Outage	PGAE	Humboldt	8/1/2020	14 - 42	No	INC	24	0:00	0:00	-5.74	22534.94	0.00	120.40	-3.59	0.00	37.78	0.00	-7.37	0.00
163	RT	Planned Transmission Outage	PGAE	Humboldt	8/2/2020	28 - 30	No	DEC	4	18:00	22:00	1.62	0.00	0.00	-40.74	0.00	0.00	0.00	0.00	-101.16	0.00
164	RT	Planned Transmission Outage	PGAE	Humboldt	8/2/2020	14 - 45	No	INC	24	0:00	0:00	28.71	22680.32	891.05	-613.72	0.00	0.00	0.00	0.00	-3.92	0.00
165	RT	Planned Transmission Outage	PGAE	Humboldt	8/3/2020	15 - 45	No	DEC	20	1:35	21:00	5.14	-96.92	0.00	-100.58	-3.81	0.00	44.97	0.00	-488.72	0.00
166	RT	Planned Transmission Outage	PGAE	Humboldt	8/3/2020	30 - 45	No	INC	24	0:00	0:00	27.48	33874.98	0.00	-553.07	-2.57	-76.35	110.22	0.00	-53.40	0.00
167	RT	Planned Transmission Outage	PGAE	Humboldt	8/4/2020	28 - 45	No	INC	24	0:00	0:00	5.26	60273.71	0.00	-72.40	-3.51	0.00	23.59	0.00	-2.26	0.00
168	RT	Planned Transmission Outage	PGAE	Humboldt	8/5/2020	14 - 45	No	INC	24	0:00	0:00	-1.90	34797.55	0.00	-2.08	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	
169	RT	Planned Transmission Outage	PGAE	Humboldt	8/6/2020	28 - 45	No	INC	24	0:00	0:00	4.84	42779.26	0.00	-130.45	0.00	0.00	0.00	0.00	0.00	-0.87	0.00
170	RT	Planned Transmission Outage	PGAE	Humboldt	8/7/2020	28 - 45	No	INC	24	0:00	0:00	5.28	49779.33	0.00	-67.03	0.00	0.00	0.00	0.00	0.00	-4.39	0.00
171	RT	Planned Transmission Outage	PGAE	Humboldt	8/8/2020	14	No	DEC	12	7:15	18:20	-3.18	0.00	0.00	47.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	RT	Planned Transmission Outage	PGAE	Humboldt	8/8/2020	14 - 45	No	INC	24	0:00	0:00	4.90	25483.29	0.00	-276.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	RT	Planned Transmission Outage	PGAE	Humboldt	8/9/2020	14 - 28	No	DEC	17	3:00	20:00	-2.86	1178.40	0.00	59.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	RT	Planned Transmission Outage	PGAE	Humboldt	8/9/2020	28 - 45	No	INC	24	0:00	0:00	5.89	25630.57	0.00	-433.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	RT	Planned Transmission Outage	PGAE	Humboldt	8/10/2020	28 - 42	No	INC	24	0:00	0:00	-6.67	25041.37	0.00	121.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	RT	Planned Transmission Outage	PGAE	Humboldt	8/11/2020	14 - 42	No	INC	24	0:00	0:00	9.78	41113.66	0.00	-212.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	RT	Planned Transmission Outage	PGAE	Humboldt	8/12/2020	28 - 42	No	DEC	1	19:00	20:00	2.03	-689.31	0.00	-46.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	RT	Planned Transmission Outage	PGAE	Humboldt	8/12/2020	28 - 42	No	INC	24	0:00	0:00	-1.51	43458.19	0.00	53.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	RT	Planned Transmission Outage	PGAE	Humboldt	8/13/2020	15 - 45	No	DEC	20	1:00	21:00	9.08	-1704.48	0.00	-299.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	RT	Planned Transmission Outage	PGAE	Humboldt	8/13/2020	28 - 45	No	INC	24	0:00	0:00	-1.53	16856.34	0.00	7.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	RT	Planned Transmission Outage	PGAE	Humboldt	8/14/2020	14 - 60	No	DEC	17	6:00	23:00	-6.75	-5238.14	0.00	361.46	-6.36	0.00	129.46	0.00	-	13840.92	0.00
182	RT	Planned Transmission Outage	PGAE	Humboldt	8/14/2020	28 - 60	No	INC	24	0:00	0:00	11.80	18253.98	0.00	-325.34	-13.87	0.00	255.93	0.00	-114.59	0.00	0.00
183	RT	Planned Transmission Outage	PGAE	Humboldt	8/15/2020	28 - 65	No	DEC	24	0:00	0:00	2.74	-24078.58	0.00	611.29	-10.02	0.00	198.03	0.00	-1723.79	0.00	0.00
184	RT	Planned Transmission Outage	PGAE	Humboldt	8/15/2020	28 - 48	No	INC	24	0:00	0:00	-1.97	10036.52	0.00	88.16	-7.31	0.00	111.68	0.00	-33.82	0.00	0.00
185	RT	Planned Transmission Outage	PGAE	Humboldt	8/16/2020	32 - 65	No	DEC	24	0:00	0:00	-25.00	-40149.77	0.00	1409.76	-16.88	0.00	231.89	0.00	-1253.88	0.00	0.00
186	RT	Planned Transmission Outage	PGAE	Humboldt	8/17/2020	28 - 65	No	DEC	24	0:00	0:00	13.12	-33026.48	0.00	-1307.29	-14.95	0.00	210.31	0.00	-	15008.24	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
187	RT	Planned Transmission Outage	PGAE	Humboldt	8/17/2020	15 - 65	No	INC	23	1:00	0:00	-8.03	12814.99	0.00	317.49	-12.56	0.00	123.03	0.00	-79.06	0.00
188	RT	Planned Transmission Outage	PGAE	Humboldt	8/18/2020	15 - 64	No	DEC	24	0:00	0:00	-105.15	-16203.16	0.00	7115.89	-20.40	0.00	386.70	0.00	-7213.16	0.00
189	RT	Planned Transmission Outage	PGAE	Humboldt	8/18/2020	15 - 64	No	INC	24	0:00	0:00	-14.96	1303.78	0.00	1880.97	-7.24	0.00	196.74	0.00	-150.08	0.00
190	RT	Planned Transmission Outage	PGAE	Humboldt	8/19/2020	15 - 48	No	DEC	24	0:00	0:00	5.34	-47632.34	0.00	-198.34	-13.60	-1.02	167.51	0.00	-2978.47	0.00
191	RT	Planned Transmission Outage	PGAE	Humboldt	8/20/2020	15 - 45	No	DEC	24	0:00	0:00	-6.50	-21328.77	0.00	186.17	-1.89	-1.60	21.74	0.00	-86.22	0.00
192	RT	Planned Transmission Outage	PGAE	Humboldt	8/20/2020	28	No	INC	1	23:00	0:00	0.00	1360.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	RT	Planned Transmission Outage	PGAE	Humboldt	8/21/2020	15 - 45	No	DEC	24	0:00	0:00	6.57	-39370.88	0.00	-208.71	-1.18	0.00	25.45	0.00	-12.36	0.00
194	RT	Planned Transmission Outage	PGAE	Humboldt	8/21/2020	28	No	INC	24	0:00	0:00	0.00	6728.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	RT	Planned Transmission Outage	PGAE	Humboldt	8/22/2020	16 - 32	No	DEC	21	2:15	23:00	7.04	-26629.09	0.00	-291.46	-0.20	0.00	0.00	0.00	-15.34	0.00
196	RT	Planned Transmission Outage	PGAE	Humboldt	8/22/2020	28 - 45	No	INC	24	0:00	0:00	-0.10	26011.05	0.00	2.83	-1.01	0.00	17.05	0.00	-9.18	0.00
197	RT	Planned Transmission Outage	PGAE	Humboldt	8/23/2020	14 - 28	No	DEC	24	0:00	0:00	-4.23	-21859.93	0.00	158.41	0.00	0.00	0.00	0.00	0.00	0.00
198	RT	Planned Transmission Outage	PGAE	Humboldt	8/23/2020	28	No	INC	24	0:00	0:00	-0.07	21342.40	0.00	2.57	0.00	0.00	0.00	0.00	0.00	0.00
199	RT	Planned Transmission Outage	PGAE	Humboldt	8/24/2020	15 - 48	No	DEC	24	0:00	0:00	10.21	-18012.68	0.00	-340.93	-0.10	0.00	1.60	0.00	-0.97	0.00
200	RT	Planned Transmission Outage	PGAE	Humboldt	8/24/2020	28 - 30	No	INC	24	0:00	0:00	5.23	20008.50	0.00	-184.89	0.00	0.00	0.00	0.00	0.00	0.00
201	RT	Planned Transmission Outage	PGAE	Humboldt	8/25/2020	30 - 48	No	DEC	23	0:00	23:00	-0.68	-17259.86	0.00	53.38	0.00	0.00	0.00	0.00	0.00	0.00
202	RT	Planned Transmission Outage	PGAE	Humboldt	8/25/2020	15 - 48	No	INC	24	0:00	0:00	0.61	28857.11	0.00	-4.83	0.00	0.00	0.00	0.00	0.00	0.00
203	RT	Planned Transmission Outage	PGAE	Humboldt	8/26/2020	14 - 60	No	DEC	24	0:00	0:00	7.74	-16792.99	2615.04	-230.62	0.00	0.00	0.00	0.00	0.00	0.00
204	RT	Planned Transmission Outage	PGAE	Humboldt	8/26/2020	45 - 60	No	INC	24	0:00	0:00	10.15	38624.68	0.00	-246.96	0.00	0.00	0.00	0.00	-0.41	0.00

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205	RT	Planned Transmission Outage	PGAE	Humboldt	8/27/2020	14 - 60	No	DEC	24	0:00	0:00	4.74	-13507.08	0.00	-122.66	0.00	0.00	0.00	0.00	0.00	0.00
206	RT	Planned Transmission Outage	PGAE	Humboldt	8/27/2020	60	No	INC	24	0:00	0:00	9.25	31746.30	0.00	-176.92	0.00	0.00	0.00	0.00	-257.38	0.00
207	RT	Planned Transmission Outage	PGAE	Humboldt	8/28/2020	14 - 60	No	DEC	24	0:00	0:00	-16.06	-13848.87	0.00	196.90	0.00	0.00	0.00	0.00	0.00	0.00
208	RT	Planned Transmission Outage	PGAE	Humboldt	8/28/2020	60	No	INC	24	0:00	0:00	11.97	37769.54	0.00	-247.44	0.00	0.00	0.00	0.00	0.00	0.00
209	RT	Planned Transmission Outage	PGAE	Humboldt	8/29/2020	14 - 45	No	DEC	22	0:00	22:00	-0.68	-7989.96	0.00	44.01	0.00	0.00	0.00	0.00	0.00	0.00
210	RT	Planned Transmission Outage	PGAE	Humboldt	8/29/2020	30 - 60	No	INC	24	0:00	0:00	-2.90	31829.08	0.00	79.58	0.00	0.00	0.00	0.00	0.00	0.00
211	RT	Planned Transmission Outage	PGAE	Humboldt	8/30/2020	28 - 30	No	DEC	6	15:00	21:00	0.68	-3202.74	0.00	-8.00	0.00	0.00	0.00	0.00	0.00	0.00
212	RT	Planned Transmission Outage	PGAE	Humboldt	8/30/2020	28 - 45	No	INC	24	0:00	0:00	-1.13	30762.05	0.00	-45.99	0.00	0.00	0.00	0.00	-75.08	0.00
213	RT	Planned Transmission Outage	PGAE	Humboldt	8/31/2020	14 - 42	No	DEC	8	13:15	21:00	1.87	-9851.01	0.00	-33.46	0.00	0.00	0.00	0.00	0.00	0.00
214	RT	Planned Transmission Outage	PGAE	Humboldt	8/31/2020	28 - 42	No	INC	24	0:00	0:00	2.98	32540.30	0.00	-95.05	0.00	0.00	0.00	0.00	0.00	0.00
215	RT	Planned Transmission Outage	PGAE	NA	8/21/2020	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
216	RT	Planned Transmission Outage	PGAE	NA	8/21/2020	20	No	INC	5	16:50	21:30	4.92	0.00	0.00	-136.87	0.00	0.00	0.00	0.00	0.00	0.00
217	RT	Planned Transmission Outage	PGAE	Sierra	8/2/2020	22 - 50	No	INC	4	16:50	20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	RT	Planned Transmission Outage	PGAE	Sierra	8/4/2020	42	No	INC	1	23:55	0:00	3.55	0.00	0.00	-57.99	0.00	0.00	0.00	0.00	0.00	0.00
219	RT	Planned Transmission Outage	PGAE	Sierra	8/9/2020	25	No	DEC	1	17:30	18:00	-1.42	0.00	0.00	1118.62	-2.66	0.00	1118.62	0.00	-78.55	0.00
220	RT	Planned Transmission Outage	PGAE	Stockton	8/10/2020	70 - 220	No	DEC	7	16:45	23:00	135.40	-11125.64	0.00	276.36	-4.17	0.00	212.97	0.00	-2013.06	0.00
221	RT	Planned Transmission Outage	PGAE	Stockton	8/10/2020	80	No	INC	4	17:20	20:30	15.79	0.00	0.00	-996.31	9.30	-312.31	0.00	0.00	-5141.94	0.00
222	RT	Planned Transmission Outage	PGAE	Stockton	8/12/2020	145 - 200	No	DEC	5	18:10	23:00	652.47	-7361.98	0.00	-21714.43	-16.64	0.00	543.94	0.00	-	11580.35

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223	RT	Planned Transmission Outage	SDGE	San Diego-IV	8/31/2020	21	No	INC	8	9:20	17:00	11.25	20004.85	0.00	-184.21	0.00	0.00	0.00	0.00	0.00	0.00
224	RT	Pump Management	PGAE	Fresno	8/12/2020	-3	No	DEC	2	9:15	10:30	-149.85	0.00	0.00	2643.73	0.00	0.00	0.00	0.00	0.00	0.00
225	RT	Ramping Capacity	PGAE	Bay Area	8/11/2020	24	No	DEC	2	17:10	18:30	0.89	-3657.69	25.97	-0.89	0.46	-8.83	0.00	0.00	0.00	0.00
226	RT	Ramping Capacity	PGAE	Fresno	8/24/2020	83	No	DEC	6	16:00	21:30	-47.68	0.00	0.00	2001.47	0.00	0.00	0.00	0.00	0.00	0.00
227	RT	Ramping Capacity	PGAE	Fresno	8/24/2020	83	No	INC	2	14:15	16:00	41.50	0.00	0.00	-913.54	0.00	0.00	0.00	0.00	0.00	0.00
228	RT	Ramping Capacity	PGAE	NA	8/16/2020	54	No	INC	4	17:15	21:00	137.73	0.00	0.00	-6399.78	275.11	-6376.10	0.00	0.00	0.00	0.00
229	RT	Ramping Capacity	PGAE	NA	8/25/2020	48.95	No	DEC	5	16:00	21:00	-137.45	-39857.67	616.30	4899.14	0.00	0.00	0.00	0.00	0.00	0.00
230	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/1/2020	401	No	INC	6	16:00	22:00	458.98	77393.53	0.00	-40625.52	50.56	-1871.30	0.00	0.00	0.00	0.00
231	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/3/2020	400 - 410	No	INC	9	14:00	22:30	3007.54	268491.30	0.00	-82075.93	1.20	0.00	0.00	0.00	0.00	0.00
232	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/12/2020	401	No	INC	5	16:30	21:00	-66.87	77587.04	60637.80	-5929.70	0.00	0.00	0.00	0.00	0.00	0.00
233	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/13/2020	750	No	INC	6	15:00	21:00	-31.62	75036.38	0.00	1272.74	7.32	-322.74	0.00	0.00	0.00	0.00
234	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/14/2020	400	No	DEC	3	13:00	15:30	-243.72	0.00	0.00	12729.35	0.00	0.00	0.00	0.00	0.00	0.00
235	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/14/2020	400 - 750	No	INC	11	11:05	22:00	110.00	-11354.64	0.00	17928.87	157.86	-5002.45	0.00	0.00	0.00	0.00
236	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/15/2020	410 - 741	No	DEC	5	17:00	22:00	33.20	0.00	0.00	-2233.81	101.48	0.00	0.00	0.00	0.00	0.00
237	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/15/2020	401 - 750	No	INC	15	7:50	22:15	433.59	342696.75	0.00	-10482.12	458.34	-6929.90	0.00	0.00	0.00	0.00
238	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/16/2020	696	No	DEC	4	16:00	20:00	23.72	0.00	0.00	-1065.99	0.00	0.00	0.00	0.00	0.00	0.00
239	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/16/2020	401 - 750	No	INC	13	7:15	20:00	68.29	479242.10	0.00	-17728.03	542.26	-24092.43	0.00	0.00	0.00	0.00
240	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/17/2020	401	No	INC	1	10:00	11:00	98.60	11060.42	0.00	-5006.16	1.83	-37.24	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
241	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/18/2020	401	No	INC	2	10:00	11:05	16.15	0.00	0.00	-1242.63	1.26	-20.18	0.00	-18655.68	0.00	0.00
242	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/19/2020	401	No	INC	2	10:00	11:30	54.91	63235.64	0.00	-2523.23	6.33	-154.86	0.00	0.00	0.00	0.00
243	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/20/2020	401	No	DEC	4	16:45	20:00	-688.10	0.00	0.00	45524.34	0.00	0.00	0.00	0.00	0.00	0.00
244	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/20/2020	401	No	INC	2	20:00	22:00	-59.48	0.00	0.00	3002.10	0.00	0.00	0.00	0.00	0.00	0.00
245	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/22/2020	410	No	INC	8	13:10	21:00	289.74	94947.90	0.00	-21883.85	91.99	-2445.94	0.00	0.00	0.00	0.00
246	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/23/2020	410	No	INC	9	13:15	22:00	74.26	240640.17	0.00	-4158.49	187.34	-5016.12	0.00	0.00	0.00	0.00
247	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/24/2020	401 - 700	No	INC	9	13:00	22:00	226.99	3927.17	0.00	-11270.99	1.31	-37.56	0.00	0.00	0.00	0.00
248	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/25/2020	401	No	DEC	1	16:00	16:30	109.77	0.00	0.00	-4186.10	0.00	0.00	0.00	0.00	0.00	0.00
249	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/25/2020	401 - 700	No	INC	8	14:00	22:00	87.78	0.00	0.00	-3391.52	0.00	0.00	0.00	0.00	0.00	0.00
250	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/26/2020	300 - 401	No	DEC	7	15:15	22:00	-4.46	-125647.93	0.00	320.91	0.00	0.00	0.00	0.00	0.00	0.00
251	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/26/2020	401 - 650	No	INC	7	15:00	22:00	-3.60	0.00	0.00	295.10	0.43	-13.99	0.00	0.00	0.00	0.00
252	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/27/2020	401	No	INC	5	17:00	22:00	-270.68	65221.00	0.00	43902.27	1.59	-63.26	0.00	0.00	0.00	0.00
253	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/28/2020	400	No	INC	6	16:45	22:00	799.05	35323.78	0.00	-175405.74	599.58	-32505.62	0.00	0.00	0.00	0.00
254	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/29/2020	400	No	INC	6	16:45	22:00	96.25	88357.74	0.00	-5166.94	167.79	-5186.04	0.00	0.00	0.00	0.00
255	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/31/2020	400.1	No	INC	4	18:30	22:00	0.32	0.00	0.00	-8.76	0.00	0.00	0.00	0.00	0.00	0.00
256	RT	Ramping Capacity	SCE	LA Basin	8/1/2020	190	No	DEC	3	17:00	20:00	-8.26	0.00	0.00	248.53	0.00	0.00	0.00	0.00	0.00	0.00
257	RT	Ramping Capacity	SCE	LA Basin	8/1/2020	190 - 241	No	INC	5	17:00	22:00	220.74	51002.18	0.00	-23238.66	14.04	-340.30	0.00	0.00	0.00	0.00
258	RT	Ramping Capacity	SCE	LA Basin	8/2/2020	240	No	INC	5	17:00	22:00	1019.88	39502.90	0.00	-31408.70	255.00	-9468.36	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
259	RT	Ramping Capacity	SCE	LA Basin	8/3/2020	190 - 241	No	INC	6	16:00	22:00	-58.27	0.00	0.00	1653.93	4.09	-81.59	0.00	0.00	0.00	0.00
260	RT	Ramping Capacity	SCE	LA Basin	8/4/2020	190	No	INC	6	16:00	22:00	13.92	0.00	0.00	-549.45	27.91	-549.45	0.00	0.00	0.00	0.00
261	RT	Ramping Capacity	SCE	LA Basin	8/12/2020	190	No	INC	6	15:00	21:00	44.20	0.00	0.00	-7187.97	49.24	-1076.22	0.00	0.00	0.00	0.00
262	RT	Ramping Capacity	SCE	LA Basin	8/13/2020	321	No	DEC	4	16:00	20:00	2.24	0.00	0.00	-84.56	0.00	0.00	0.00	0.00	0.00	0.00
263	RT	Ramping Capacity	SCE	LA Basin	8/13/2020	321 - 478	No	INC	6	16:00	22:00	1128.20	27921.87	14205.98	-91728.84	1722.07	-74858.66	0.00	0.00	0.00	0.00
264	RT	Ramping Capacity	SCE	LA Basin	8/14/2020	240 - 649	No	DEC	10	13:00	22:30	1824.43	-142033.98	0.00	-444190.16	0.00	0.00	0.00	0.00	0.00	0.00
265	RT	Ramping Capacity	SCE	LA Basin	8/14/2020	240 - 479	No	INC	13	10:45	23:45	347.46	17094.52	0.00	-53548.76	466.74	-31020.06	0.00	0.00	0.00	0.00
266	RT	Ramping Capacity	SCE	LA Basin	8/15/2020	20 - 479	No	DEC	5	16:00	21:00	2.00	0.00	0.00	-6026.13	2.00	-60.58	0.00	0.00	0.00	0.00
267	RT	Ramping Capacity	SCE	LA Basin	8/15/2020	65 - 479	No	INC	10	12:00	22:00	377.68	85194.07	0.00	-42238.84	380.81	-15246.42	0.00	0.00	0.00	0.00
268	RT	Ramping Capacity	SCE	LA Basin	8/16/2020	62.5 - 225	No	DEC	5	16:00	20:45	-12.67	0.00	0.00	605.27	0.00	0.00	0.00	0.00	0.00	0.00
269	RT	Ramping Capacity	SCE	LA Basin	8/16/2020	42 - 478	No	INC	9	12:00	20:45	237.75	329958.77	0.00	-23001.47	685.30	-13944.94	0.00	0.00	0.00	0.00
270	RT	Ramping Capacity	SCE	LA Basin	8/17/2020	65 - 190	No	DEC	8	13:00	21:00	12.35	0.00	0.00	-884.94	80.54	-1454.65	0.00	-3480.13	0.00	0.00
271	RT	Ramping Capacity	SCE	LA Basin	8/17/2020	65 - 241	No	INC	12	10:00	22:00	78.37	8840.28	0.00	-4271.33	91.39	-127.38	0.00	-11408.64	0.00	0.00
272	RT	Ramping Capacity	SCE	LA Basin	8/18/2020	240	No	INC	2	10:00	11:20	-4.35	-5642.35	0.00	303.64	0.00	0.00	0.00	-15319.40	0.00	0.00
273	RT	Ramping Capacity	SCE	LA Basin	8/19/2020	240	No	INC	2	10:00	11:30	47.35	-4096.81	0.00	-2283.18	82.28	-110.04	0.00	0.00	0.00	0.00
274	RT	Ramping Capacity	SCE	LA Basin	8/20/2020	190 - 194	No	DEC	7	14:00	21:00	-235.37	0.00	0.00	9134.01	0.00	0.00	0.00	0.00	0.00	0.00
275	RT	Ramping Capacity	SCE	LA Basin	8/20/2020	190 - 194	No	INC	9	5:45	14:00	109.41	0.00	0.00	-19355.51	12.92	-520.00	0.00	0.00	0.00	0.00

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276	RT	Ramping Capacity	SCE	LA Basin	8/21/2020	190 - 194	No	DEC	4	16:00	20:00	14.46	0.00	0.00	-999.94	5.35	-186.37	0.00	0.00	0.00	0.00
277	RT	Ramping Capacity	SCE	LA Basin	8/21/2020	104 - 194	No	INC	7	15:15	21:30	40.49	0.00	0.00	-18432.87	139.88	-20420.33	0.00	0.00	0.00	0.00
278	RT	Ramping Capacity	SCE	LA Basin	8/22/2020	190 - 194	No	DEC	4	16:00	20:00	-43.74	0.00	0.00	1801.15	0.00	0.00	0.00	0.00	0.00	0.00
279	RT	Ramping Capacity	SCE	LA Basin	8/22/2020	104 - 300	No	INC	8	13:05	21:00	332.41	145167.87	0.00	-27330.45	733.51	-27590.95	0.00	0.00	0.00	0.00
280	RT	Ramping Capacity	SCE	LA Basin	8/23/2020	104 - 439	No	INC	8	13:15	21:00	364.69	112472.89	0.00	-30829.16	697.39	-29180.01	0.00	0.00	0.00	0.00
281	RT	Ramping Capacity	SCE	LA Basin	8/24/2020	190 - 311	No	DEC	6	14:00	20:00	167.85	-4037.91	0.00	-37461.30	0.00	0.00	0.00	0.00	0.00	0.00
282	RT	Ramping Capacity	SCE	LA Basin	8/24/2020	190 - 466	No	INC	9	13:00	22:00	1421.10	-21804.73	0.00	-78830.35	29.39	-964.73	0.00	0.00	0.00	0.00
283	RT	Ramping Capacity	SCE	LA Basin	8/25/2020	190 - 241	No	DEC	8	14:00	22:00	1132.21	-23449.30	0.00	-51438.59	0.50	-9.51	0.00	0.00	0.00	0.00
284	RT	Ramping Capacity	SCE	LA Basin	8/25/2020	190 - 231	No	INC	2	20:00	22:00	-31.53	-3349.90	0.00	1845.66	2.00	-60.45	0.00	0.00	0.00	0.00
285	RT	Ramping Capacity	SCE	LA Basin	8/26/2020	190 - 241	No	DEC	6	15:00	21:00	124.35	-3708.50	0.00	-4818.27	0.00	0.00	0.00	0.00	0.00	0.00
286	RT	Ramping Capacity	SCE	LA Basin	8/26/2020	190 - 466	No	INC	6	16:30	22:00	24.54	0.00	0.00	-433.94	0.00	0.00	0.00	0.00	0.00	0.00
287	RT	Ramping Capacity	SCE	LA Basin	8/27/2020	240	No	DEC	5	17:00	22:00	-1.50	-973.12	0.00	200.43	0.00	0.00	0.00	0.00	0.00	0.00
288	RT	Ramping Capacity	SCE	LA Basin	8/27/2020	240	No	INC	1	21:00	22:00	12.93	0.00	0.00	-548.85	0.00	0.00	0.00	0.00	0.00	0.00
289	RT	Ramping Capacity	SDGE	San Diego-IV	8/25/2020	212	No	DEC	7	14:00	21:00	0.06	0.00	0.00	-147.32	0.00	0.00	0.00	0.00	0.00	0.00
290	RT	Reliability Assessment	PGAE	Bay Area	8/14/2020	22	No	INC	1	15:40	16:00	5.47	0.00	0.00	-303.36	0.00	0.00	0.00	0.00	0.00	0.00
291	RT	Reliability Assessment	PGAE	Bay Area	8/16/2020	22 - 130	No	DEC	4	17:00	20:45	-3.56	0.00	0.00	115.15	0.00	0.00	0.00	0.00	0.00	0.00
292	RT	Reliability Assessment	PGAE	Bay Area	8/16/2020	22 - 130	No	INC	7	14:25	20:45	62.94	0.00	0.00	-4105.05	65.16	-2660.90	0.00	0.00	0.00	0.00
293	RT	Reliability Assessment	PGAE	Fresno	8/14/2020	70	No	DEC	2	18:00	20:00	-0.83	0.00	0.00	-142.22	-2.50	0.00	0.00	0.00	0.00	0.00

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294	RT	Reliability Assessment	PGAE	Fresno	8/14/2020	81 - 90	No	INC	2	16:20	18:00	29.52	0.00	0.00	-4458.63	54.74	-4410.44	0.00	0.00	0.00	0.00
295	RT	Reliability Assessment	PGAE	Fresno	8/16/2020	40	No	DEC	5	16:25	20:45	-2.31	0.00	0.00	-496.19	-35.88	0.00	0.00	0.00	0.00	0.00
296	RT	Reliability Assessment	PGAE	Fresno	8/16/2020	70 - 96	No	INC	7	14:25	21:00	111.58	0.00	0.00	-8334.14	233.79	-8588.57	0.00	0.00	0.00	0.00
297	RT	Reliability Assessment	PGAE	Fresno	8/17/2020	400	No	INC	1	19:50	20:45	100.67	0.00	0.00	-7769.44	215.26	-5645.33	0.00	0.00	0.00	0.00
298	RT	Reliability Assessment	PGAE	Fresno	8/18/2020	10	No	INC	1	19:20	19:25	0.02	0.00	0.00	-1.55	0.07	-1.55	0.00	0.00	0.00	0.00
299	RT	Reliability Assessment	PGAE	Fresno	8/21/2020	70	No	INC	6	2:15	8:00	8.36	0.00	0.00	-1103.32	0.00	0.00	0.00	0.00	0.00	0.00
300	RT	Reliability Assessment	PGAE	Fresno	8/26/2020	0	No	INC	1	13:30	13:45	77.75	0.00	0.00	-2088.84	0.00	0.00	0.00	0.00	0.00	0.00
301	RT	Reliability Assessment	PGAE	Kern	8/10/2020	32	No	INC	1	15:25	16:00	14.29	594.46	0.00	-493.13	0.00	0.00	0.00	0.00	0.00	0.00
302	RT	Reliability Assessment	PGAE	Kern	8/15/2020	32	No	INC	3	11:00	14:00	23.81	2514.01	0.00	-1076.30	0.00	0.00	0.00	0.00	0.00	0.00
303	RT	Reliability Assessment	PGAE	Kern	8/18/2020	12	No	DEC	6	11:30	17:00	-14.72	0.00	0.00	10767.19	-2.84	0.00	-141.27	0.00	0.00	0.00
304	RT	Reliability Assessment	PGAE	Kern	8/18/2020	12	No	INC	3	17:00	20:00	-8.84	0.00	0.00	2477.93	0.00	0.00	0.00	0.00	0.00	0.00
305	RT	Reliability Assessment	PGAE	Kern	8/25/2020	32	No	INC	2	22:00	23:30	21.62	2751.63	0.00	-674.25	0.00	0.00	0.00	0.00	0.00	0.00
306	RT	Reliability Assessment	PGAE	Kern	8/26/2020	32	No	INC	2	21:50	23:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
307	RT	Reliability Assessment	PGAE	NA	8/13/2020	10 - 350	No	DEC	4	14:20	18:00	-22.27	0.00	0.00	859.33	-5.38	0.00	29.66	0.00	0.00	0.00
308	RT	Reliability Assessment	PGAE	NA	8/13/2020	10	No	INC	2	18:00	20:00	-7.68	0.00	0.00	449.85	0.00	0.00	0.00	0.00	0.00	0.00
309	RT	Reliability Assessment	PGAE	NA	8/14/2020	15	No	DEC	7	11:00	18:00	-13.89	0.00	0.00	435.22	-7.12	0.00	0.94	0.00	0.00	0.00
310	RT	Reliability Assessment	PGAE	NA	8/14/2020	15	No	INC	2	18:00	20:00	-0.31	0.00	0.00	444.68	0.00	0.00	0.00	0.00	0.00	0.00
311	RT	Reliability Assessment	PGAE	NA	8/15/2020	15	No	INC	4	15:05	19:00	-17.59	0.00	0.00	-1836.35	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
312	RT	Reliability Assessment	PGAE	NA	8/16/2020	130	No	DEC	7	14:25	20:45	-3.78	0.00	0.00	207.41	0.00	0.00	0.00	0.00	0.00	0.00
313	RT	Reliability Assessment	PGAE	NA	8/18/2020	307.1	No	DEC	1	5:25	6:00	-52.82	0.00	0.00	1601.99	-158.46	0.00	1601.99	0.00	0.00	0.00
314	RT	Reliability Assessment	PGAE	NA	8/18/2020	14	No	INC	9	11:25	20:00	-17.33	0.00	0.00	10810.68	-0.70	0.00	-32.51	0.00	0.00	0.00
315	RT	Reliability Assessment	PGAE	NCNB	8/17/2020	25 - 65	No	DEC	10	7:40	17:15	-12.82	0.00	0.00	-5741.84	-270.47	0.00	-1341.70	0.00	0.00	0.00
316	RT	Reliability Assessment	PGAE	NCNB	8/19/2020	24 - 80	No	DEC	11	13:30	0:00	-56.22	0.00	0.00	-1644.56	-190.62	0.00	-1025.41	0.00	0.00	0.00
317	RT	Reliability Assessment	PGAE	NCNB	8/19/2020	42 - 46	No	INC	6	17:10	23:00	-0.16	0.00	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00
318	RT	Reliability Assessment	PGAE	NCNB	8/20/2020	57 - 80	No	DEC	22	0:00	21:45	-13.80	0.00	0.00	-839.99	-61.10	0.00	-458.21	0.00	0.00	0.00
319	RT	Reliability Assessment	PGAE	NCNB	8/20/2020	77	No	INC	3	18:45	21:45	1.96	0.00	0.00	-47.69	0.00	0.00	0.00	0.00	0.00	0.00
320	RT	Reliability Assessment	PGAE	Sierra	8/1/2020	42	No	INC	8	0:00	8:00	342.17	0.00	0.00	-6379.76	0.00	0.00	0.00	0.00	0.00	0.00
321	RT	Reliability Assessment	PGAE	Sierra	8/2/2020	20	No	INC	2	22:20	0:00	8.71	1411.33	0.00	-467.36	0.00	0.00	0.00	0.00	0.00	0.00
322	RT	Reliability Assessment	PGAE	Sierra	8/3/2020	20	No	DEC	3	17:00	20:00	-5.85	0.00	103.64	217.02	0.00	0.00	0.00	0.00	0.00	0.00
323	RT	Reliability Assessment	PGAE	Sierra	8/3/2020	20 - 42	Yes	INC	24	0:00	0:00	13.73	1990.99	164.09	-637.13	0.00	0.00	0.00	0.00	0.00	0.00
324	RT	Reliability Assessment	PGAE	Sierra	8/4/2020	20 - 42	Yes	INC	24	0:00	23:55	274.33	4138.54	0.00	-7243.55	0.00	0.00	0.00	0.00	0.00	0.00
325	RT	Reliability Assessment	PGAE	Sierra	8/5/2020	40 - 42	No	INC	23	0:00	23:00	-1.09	14017.04	2132.52	31.88	0.00	0.00	0.00	0.00	0.00	0.00
326	RT	Reliability Assessment	PGAE	Sierra	8/6/2020	42	No	INC	7	16:00	23:00	300.05	0.00	0.00	-6200.80	0.00	0.00	0.00	0.00	0.00	0.00
327	RT	Reliability Assessment	PGAE	Sierra	8/7/2020	20	No	INC	9	15:05	23:30	11.86	11765.60	410.71	118.90	0.00	0.00	0.00	0.00	0.00	0.00
328	RT	Reliability Assessment	PGAE	Sierra	8/8/2020	20	No	DEC	2	18:55	20:00	-11.50	0.00	0.00	282.95	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
329	RT	Reliability Assessment	PGAE	Sierra	8/8/2020	20	No	INC	7	17:00	0:00	6.76	15730.88	244.87	-367.35	0.00	0.00	0.00	0.00	0.00	0.00
330	RT	Reliability Assessment	PGAE	Sierra	8/9/2020	20	No	DEC	4	17:40	21:00	-24.83	0.00	68.30	298.94	0.00	0.00	0.00	0.00	0.00	0.00
331	RT	Reliability Assessment	PGAE	Sierra	8/9/2020	20 - 47	No	INC	24	0:00	0:00	22.59	17845.50	2212.88	-2931.52	36.00	-2586.60	0.00	0.00	0.00	0.00
332	RT	Reliability Assessment	PGAE	Sierra	8/10/2020	20	No	DEC	4	17:00	21:00	-11.80	0.00	129.35	340.74	0.00	0.00	0.00	0.00	0.00	0.00
333	RT	Reliability Assessment	PGAE	Sierra	8/10/2020	20 - 47	No	INC	24	0:00	0:00	17.81	15894.39	274.86	-3337.37	43.67	-2608.66	0.00	0.00	0.00	0.00
334	RT	Reliability Assessment	PGAE	Sierra	8/11/2020	20	No	DEC	4	17:10	21:00	-4.98	0.00	0.00	122.42	0.00	0.00	0.00	0.00	0.00	0.00
335	RT	Reliability Assessment	PGAE	Sierra	8/11/2020	20 - 47	No	INC	24	0:00	0:00	9.36	47210.61	0.00	-1129.00	18.50	-1158.16	0.00	0.00	0.00	0.00
336	RT	Reliability Assessment	PGAE	Sierra	8/12/2020	20 - 40	No	DEC	5	17:00	22:00	-13.59	0.00	169.52	490.88	0.00	0.00	0.00	0.00	0.00	0.00
337	RT	Reliability Assessment	PGAE	Sierra	8/12/2020	20 - 42	No	INC	24	0:00	0:00	-33.60	23262.13	190.71	1245.98	0.00	0.00	0.00	0.00	0.00	0.00
338	RT	Reliability Assessment	PGAE	Sierra	8/13/2020	20 - 30	No	DEC	4	17:00	21:00	-3.26	0.00	0.00	-82.65	-6.42	-243.27	213.14	0.00	0.00	0.00
339	RT	Reliability Assessment	PGAE	Sierra	8/13/2020	20 - 45	No	INC	24	0:00	0:00	49.83	11113.49	0.00	-7253.17	27.34	-2013.05	10.06	0.00	0.00	0.00
340	RT	Reliability Assessment	PGAE	Sierra	8/14/2020	20 - 42	No	DEC	14	7:00	21:00	6.89	0.00	0.00	-360.16	0.00	0.00	0.00	0.00	0.00	0.00
341	RT	Reliability Assessment	PGAE	Sierra	8/14/2020	3 - 45	No	INC	24	0:00	0:00	856.74	7741.07	0.00	-43475.18	24.60	-694.13	0.00	0.00	0.00	0.00
342	RT	Reliability Assessment	PGAE	Sierra	8/15/2020	35 - 42	No	DEC	11	12:00	23:00	9.05	0.00	0.00	-2973.94	0.00	0.00	0.00	0.00	0.00	0.00
343	RT	Reliability Assessment	PGAE	Sierra	8/15/2020	8 - 42	No	INC	24	0:00	0:00	108.50	28627.81	0.00	-23272.51	69.43	-14103.00	285.66	0.00	0.00	0.00
344	RT	Reliability Assessment	PGAE	Sierra	8/16/2020	20	No	DEC	6	15:00	21:00	-17.12	0.00	0.00	849.81	0.00	0.00	0.00	0.00	0.00	0.00
345	RT	Reliability Assessment	PGAE	Sierra	8/16/2020	20 - 42	Yes	INC	24	0:00	0:00	-13.82	6016.40	0.00	691.99	0.00	0.00	0.00	0.00	0.00	0.00
346	RT	Reliability Assessment	PGAE	Sierra	8/17/2020	11 - 41	No	DEC	8	13:00	21:00	-15.94	0.00	0.00	-7652.14	15.36	-338.06	0.07	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
347	RT	Reliability Assessment	PGAE	Sierra	8/17/2020	20 - 47	No	INC	24	0:00	0:00	54.97	1651.95	0.00	-10153.94	236.07	-4307.29	337.23	0.00	0.00	0.00
348	RT	Reliability Assessment	PGAE	Sierra	8/18/2020	7 - 55	No	DEC	8	14:00	22:00	-0.17	0.00	0.00	3182.57	0.00	0.00	0.00	0.00	0.00	0.00
349	RT	Reliability Assessment	PGAE	Sierra	8/18/2020	7 - 55	No	INC	18	6:40	0:00	40.38	2243.26	0.00	-32540.24	52.04	-26366.67	442.42	0.00	0.00	0.00
350	RT	Reliability Assessment	PGAE	Sierra	8/19/2020	20 - 30	No	DEC	7	15:20	22:00	-8.78	0.00	0.00	348.19	7.50	-125.95	0.00	0.00	0.00	0.00
351	RT	Reliability Assessment	PGAE	Sierra	8/19/2020	20 - 47	Yes	INC	24	0:00	0:00	-2.47	4215.83	0.00	203.94	0.00	0.00	0.00	0.00	0.00	0.00
352	RT	Reliability Assessment	PGAE	Sierra	8/20/2020	20	Yes	INC	2	0:00	2:00	0.00	3303.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
353	RT	Reliability Assessment	PGAE	Sierra	8/21/2020	20	No	INC	5	17:40	22:15	5.00	0.00	0.00	-163.25	0.00	0.00	0.00	0.00	0.00	0.00
354	RT	Reliability Assessment	PGAE	Sierra	8/22/2020	18 - 20	No	DEC	10	14:00	0:00	-29.39	0.00	0.00	860.93	0.00	0.00	0.00	0.00	0.00	0.00
355	RT	Reliability Assessment	PGAE	Sierra	8/22/2020	18 - 20	No	INC	12	12:40	0:00	7.10	7023.03	0.00	-1848.73	9.40	-992.16	0.00	0.00	0.00	0.00
356	RT	Reliability Assessment	PGAE	Sierra	8/23/2020	18	No	DEC	2	0:00	2:00	5.01	0.00	0.00	-169.45	0.00	0.00	0.00	0.00	0.00	0.00
357	RT	Reliability Assessment	PGAE	Sierra	8/23/2020	20 - 40	Yes	INC	23	0:00	23:00	21.72	4051.75	0.00	-1622.58	32.30	-1614.18	0.00	0.00	0.00	0.00
358	RT	Reliability Assessment	PGAE	Sierra	8/24/2020	20	No	DEC	2	19:00	21:00	-14.75	0.00	0.00	577.12	0.00	0.00	0.00	0.00	0.00	0.00
359	RT	Reliability Assessment	PGAE	Sierra	8/24/2020	20	No	INC	3	21:00	0:00	-0.06	4862.10	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00
360	RT	Reliability Assessment	PGAE	Sierra	8/25/2020	20	No	DEC	4	17:00	21:00	-4.40	-424.71	0.00	207.61	0.00	0.00	0.00	0.00	0.00	0.00
361	RT	Reliability Assessment	PGAE	Sierra	8/25/2020	20	No	INC	24	0:00	0:00	1.82	8494.15	0.00	-190.14	0.00	0.00	0.00	0.00	0.00	0.00
362	RT	Reliability Assessment	PGAE	Sierra	8/26/2020	20	No	INC	24	0:00	0:00	-14.96	7700.98	0.00	641.24	0.00	0.00	0.00	0.00	0.00	0.00
363	RT	Reliability Assessment	PGAE	Sierra	8/27/2020	20	No	DEC	2	18:50	20:00	28.08	0.00	0.00	-1416.65	0.00	0.00	0.00	0.00	0.00	0.00
364	RT	Reliability Assessment	PGAE	Sierra	8/27/2020	20	No	INC	4	20:00	0:00	3.66	3422.66	0.00	-326.17	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
365	RT	Reliability Assessment	PGAE	Sierra	8/28/2020	20	No	DEC	3	17:00	20:00	-13.92	0.00	0.00	490.23	0.00	0.00	0.00	0.00	0.00	0.00
366	RT	Reliability Assessment	PGAE	Sierra	8/28/2020	20	Yes	INC	22	0:00	22:00	10.31	4766.30	0.00	-1071.03	0.00	0.00	0.00	0.00	0.00	0.00
367	RT	Reliability Assessment	PGAE	Sierra	8/29/2020	20	No	INC	2	21:10	23:00	1.53	3171.81	82.82	-73.99	0.00	0.00	0.00	0.00	0.00	0.00
368	RT	Reliability Assessment	PGAE	Sierra	8/30/2020	20	No	DEC	2	18:00	20:00	9.07	0.00	0.00	-447.68	0.00	0.00	0.00	0.00	0.00	0.00
369	RT	Reliability Assessment	PGAE	Sierra	8/30/2020	20	No	INC	9	15:55	0:00	1.50	13119.77	0.00	87.26	0.00	0.00	0.00	0.00	0.00	0.00
370	RT	Reliability Assessment	PGAE	Sierra	8/31/2020	20	No	DEC	1	18:00	19:00	-5.07	0.00	0.00	232.42	0.00	0.00	0.00	0.00	0.00	0.00
371	RT	Reliability Assessment	PGAE	Sierra	8/31/2020	20	No	INC	8	14:20	22:00	5.36	11245.52	0.00	-149.88	0.00	0.00	0.00	0.00	0.00	0.00
372	RT	Reliability Assessment	PGAE	Stockton	8/1/2020	140	No	DEC	8	15:00	23:00	-2.22	-31559.73	0.00	58.42	0.00	0.00	0.00	0.00	0.00	0.00
373	RT	Reliability Assessment	PGAE	Stockton	8/2/2020	192 - 225	No	DEC	8	16:45	0:00	54.15	-13256.91	0.00	-719.04	0.00	0.00	0.00	0.00	0.00	0.00
374	RT	Reliability Assessment	PGAE	Stockton	8/3/2020	195	No	DEC	2	0:00	2:00	2.45	-2376.06	0.00	-37.32	0.00	0.00	0.00	0.00	0.00	0.00
375	RT	Reliability Assessment	PGAE	Stockton	8/13/2020	68	No	INC	1	14:55	15:45	10.81	0.00	0.00	-1332.97	19.14	-1009.89	0.00	0.00	0.00	0.00
376	RT	Reliability Assessment	PGAE	Stockton	8/16/2020	21	No	INC	7	14:25	20:45	23.06	-521.44	0.00	-1151.02	0.00	0.00	0.00	0.00	0.00	0.00
377	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/19/2020	65 - 401	No	INC	2	22:00	0:00	187.78	100977.44	0.00	-9168.01	2.93	-110.08	0.00	0.00	0.00	0.00
378	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/20/2020	27.49 - 401	No	DEC	4	16:00	20:00	-124.50	0.00	0.00	9227.34	0.00	0.00	0.00	0.00	0.00	0.00
379	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/20/2020	401	No	INC	16	0:00	16:00	514.02	551311.64	0.00	-77652.02	2.61	-147.88	0.00	0.00	0.00	0.00
380	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/22/2020	410	No	INC	8	13:00	21:00	294.83	208851.03	0.00	-22633.48	85.73	-2297.51	0.00	0.00	0.00	0.00
381	RT	Reliability Assessment	SCE	LA Basin	8/14/2020	330	No	DEC	1	11:00	11:05	3.57	0.00	0.00	-117.85	0.00	0.00	0.00	0.00	0.00	0.00
382	RT	Reliability Assessment	SCE	LA Basin	8/14/2020	27 - 204	No	INC	11	11:30	22:00	90.53	4968.51	0.00	-5766.20	158.76	-4232.97	0.00	0.00	0.00	0.00

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383	RT	Reliability Assessment	SCE	LA Basin	8/16/2020	18 - 48.35	No	DEC	6	15:00	20:45	9.26	0.00	0.00	-470.70	0.00	0.00	0.00	0.00	0.00	0.00
384	RT	Reliability Assessment	SCE	LA Basin	8/16/2020	18 - 48.35	No	INC	7	14:30	20:45	135.16	0.00	0.00	-15780.84	280.81	-15526.78	0.00	0.00	0.00	0.00
385	RT	Reliability Assessment	SCE	LA Basin	8/19/2020	36	No	DEC	1	22:40	23:00	1.14	0.00	0.00	-58.68	0.38	-11.91	0.00	0.00	0.00	0.00
386	RT	Reliability Assessment	SCE	LA Basin	8/19/2020	20 - 334	No	INC	2	22:00	0:00	342.42	56657.10	1721.73	-4339.69	43.02	-835.84	0.00	0.00	0.00	0.00
387	RT	Reliability Assessment	SCE	LA Basin	8/20/2020	104 - 334	No	DEC	14	6:00	20:00	-73.70	0.00	0.00	1885.50	0.00	0.00	0.00	0.00	0.00	0.00
388	RT	Reliability Assessment	SCE	LA Basin	8/20/2020	104 - 334	No	INC	17	0:00	17:00	115.60	625365.29	0.00	-11943.68	36.04	-5785.11	0.00	0.00	0.00	0.00
389	RT	Reliability Assessment	SCE	LA Basin	8/21/2020	0	No	INC	1	5:00	5:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
390	RT	Reliability Assessment	SCE	NA	8/16/2020	425 - 474	No	DEC	10	13:05	23:00	-43.62	-44991.35	0.00	1437.85	0.00	0.00	0.00	0.00	0.00	0.00
391	RT	Reliability Assessment	SCE	NA	8/16/2020	425	No	INC	1	23:00	0:00	-2.55	0.00	0.00	99.12	0.00	0.00	0.00	0.00	0.00	0.00
392	RT	Reliability Assessment	SCE	NA	8/17/2020	460 - 480	No	DEC	12	12:00	0:00	-20.33	-12100.27	0.00	995.35	-1.25	0.00	0.00	0.00	0.00	0.00
393	RT	Reliability Assessment	SCE	NA	8/17/2020	480	No	INC	2	10:50	12:00	1.93	4033.42	0.00	-79.10	0.00	0.00	0.00	0.00	0.00	0.00
394	RT	Reliability Assessment	SCE	NA	8/18/2020	280.1 - 475	No	DEC	19	5:25	0:00	-105.31	-75552.83	0.00	-16576.37	-137.84	0.00	2609.31	0.00	0.00	0.00
395	RT	Reliability Assessment	SCE	NA	8/18/2020	440 - 470	No	INC	11	0:00	11:00	-65.03	-5846.07	0.00	2524.88	-2.34	0.00	45.90	0.00	0.00	0.00
396	RT	Reliability Assessment	SCE	NA	8/19/2020	420 - 460	No	DEC	17	6:00	23:00	-59.22	-44306.23	0.00	3031.13	-39.03	0.00	686.26	0.00	0.00	0.00
397	RT	Reliability Assessment	SCE	NA	8/19/2020	420 - 460	No	INC	24	0:00	0:00	2.88	1711.76	0.00	616.86	0.00	0.00	0.00	0.00	0.00	0.00
398	RT	Reliability Assessment	SCE	NA	8/20/2020	400 - 425	No	DEC	13	11:50	0:00	-28.56	-55300.46	0.00	1713.49	-18.27	0.00	444.72	0.00	0.00	0.00
399	RT	Reliability Assessment	SCE	NA	8/21/2020	400	No	DEC	24	0:00	0:00	-22.37	-178713.22	0.00	861.93	-1.67	0.00	32.61	0.00	0.00	0.00
400	RT	Reliability Assessment	SCE	NA	8/22/2020	400 - 425	No	DEC	23	0:00	23:00	-22.08	-49417.85	0.00	772.37	0.00	0.00	0.00	0.00	0.00	0.00

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401	RT	Reliability Assessment	SCE	NA	8/22/2020	425	No	INC	20	4:45	0:00	0.78	-2653.49	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
402	RT	Reliability Assessment	SCE	NA	8/23/2020	425 - 460	No	DEC	10	13:00	23:00	-166.14	-16834.37	0.00	10318.41	-7.50	0.00	168.15	0.00	0.00	0.00
403	RT	Reliability Assessment	SCE	NA	8/23/2020	425	No	INC	24	0:00	0:00	24.28	-1494.90	0.00	-494.84	0.00	0.00	0.00	0.00	0.00	0.00
404	RT	Reliability Assessment	SCE	NA	8/24/2020	410 - 450	No	DEC	24	0:00	0:00	20.83	-36845.22	0.00	-659.10	-60.01	0.00	1285.79	0.00	0.00	0.00
405	RT	Reliability Assessment	SCE	NA	8/24/2020	425	No	INC	21	2:00	22:30	11.64	5736.07	0.00	-293.39	0.00	0.00	0.00	0.00	0.00	0.00
406	RT	Reliability Assessment	SCE	NA	8/25/2020	410	No	DEC	24	0:00	0:00	6.87	-91314.75	0.00	-146.34	0.00	0.00	0.00	0.00	0.00	0.00
407	RT	Reliability Assessment	SCE	NA	8/25/2020	410	No	INC	9	1:00	10:00	20.63	14489.98	0.00	-620.78	0.00	0.00	0.00	0.00	0.00	0.00
408	RT	Reliability Assessment	SCE	NA	8/26/2020	425 - 450	No	DEC	9	13:00	22:00	-14.10	-31889.08	0.00	630.98	-24.22	0.00	509.11	0.00	0.00	0.00
409	RT	Reliability Assessment	SCE	NA	8/26/2020	425 - 450	No	INC	12	12:30	0:00	-3.49	3238.11	0.00	105.17	0.00	0.00	0.00	0.00	0.00	0.00
410	RT	Reliability Assessment	SCE	NA	8/27/2020	410 - 425	No	DEC	11	13:00	0:00	37.81	-31473.84	0.00	-1669.23	-1.25	0.00	0.00	0.00	0.00	0.00
411	RT	Reliability Assessment	SCE	NA	8/27/2020	425	No	INC	13	0:00	13:00	79.13	26152.00	0.00	-1870.89	0.00	0.00	0.00	0.00	0.00	0.00
412	RT	Reliability Assessment	SCE	NA	8/28/2020	410 - 435	No	DEC	22	0:00	22:00	1.64	-93277.20	0.00	4846.88	-0.05	0.00	0.98	0.00	0.00	0.00
413	RT	Reliability Assessment	SCE	NA	8/28/2020	410 - 435	No	INC	16	8:00	0:00	27.86	4892.38	0.00	-420.34	0.00	0.00	0.00	0.00	0.00	0.00
414	RT	Reliability Assessment	SCE	NA	8/29/2020	435 - 445	No	DEC	6	17:00	23:00	-2.16	-12310.24	0.00	128.67	0.00	0.00	0.00	0.00	0.00	0.00
415	RT	Reliability Assessment	SCE	NA	8/29/2020	435 - 445	No	INC	24	0:00	0:00	69.22	6083.77	0.00	-1375.66	0.00	0.00	0.00	0.00	0.00	0.00
416	RT	Reliability Assessment	SCE	NA	8/30/2020	445	No	DEC	7	17:00	0:00	-1.55	-15244.52	0.00	39.32	0.00	0.00	0.00	0.00	0.00	0.00
417	RT	Reliability Assessment	SCE	NA	8/30/2020	445	No	INC	17	0:00	17:00	37.20	8496.50	0.00	-256.17	0.00	0.00	0.00	0.00	0.00	0.00
418	RT	Reliability Assessment	SCE	NA	8/31/2020	440 - 445	No	DEC	24	0:00	0:00	-10.96	-18751.90	0.00	293.70	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/August/2020 - 31/August/2020**

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	Reliability Assessment	SCE	NA	8/31/2020	440 - 445	No	INC	15	2:00	17:00	-7.38	0.00	0.00	175.98	0.00	0.00	0.00	0.00	0.00	0.00
420	RT	Reliability Assessment	SDGE	San Diego-IV	8/19/2020	24 - 96	No	INC	2	22:00	0:00	63.12	11006.23	0.00	-4238.65	109.29	-2607.11	0.00	0.00	0.00	0.00
421	RT	Reverse Commitment Instruction	SCE	LA Basin	8/15/2020	47 - 96	No	INC	2	18:05	19:30	143.04	28208.22	454.83	-111975.75	0.00	0.00	0.00	0.00	0.00	0.00
422	RT	Software Limitation	PGAE	Bay Area	8/3/2020	120	No	INC	1	14:10	15:00	224.92	2882.58	1169.48	-4920.27	0.00	0.00	0.00	0.00	0.00	0.00
423	RT	Software Limitation	PGAE	Bay Area	8/20/2020	0	No	DEC	1	20:30	20:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
424	RT	Software Limitation	PGAE	Bay Area	8/28/2020	120	No	INC	1	16:35	17:30	239.33	3670.28	0.00	-8271.60	0.00	0.00	0.00	0.00	0.00	0.00
425	RT	Software Limitation	PGAE	Fresno	8/3/2020	14 - 35	No	INC	1	14:10	15:00	39.32	0.00	0.00	-812.07	0.00	0.00	0.00	0.00	0.00	0.00
426	RT	Software Limitation	PGAE	Fresno	8/14/2020	14 - 35	No	INC	1	14:55	15:50	19.31	120.87	0.00	-984.02	0.00	0.00	0.00	0.00	0.00	0.00
427	RT	Software Limitation	PGAE	Fresno	8/28/2020	83	No	DEC	1	17:00	17:30	1.54	0.00	0.00	-36.35	0.00	0.00	0.00	0.00	0.00	0.00
428	RT	Software Limitation	PGAE	Fresno	8/28/2020	14 - 140.52	No	INC	1	16:35	17:30	63.91	1329.36	0.00	-1448.44	0.00	0.00	0.00	0.00	0.00	0.00
429	RT	Software Limitation	SCE	Big Creek-Ventura	8/3/2020	47.1	No	INC	1	14:10	15:00	37.82	0.00	0.00	-1177.92	0.00	0.00	0.00	0.00	0.00	0.00
430	RT	Software Limitation	SCE	Big Creek-Ventura	8/14/2020	16 - 47.1	No	INC	1	14:55	15:50	58.81	400.07	0.00	-3273.38	2.82	-154.03	0.00	0.00	0.00	0.00
431	RT	Software Limitation	SCE	Big Creek-Ventura	8/15/2020	0	No	INC	1	0:10	1:05	-9.33	694.05	0.00	0.00	-28.00	0.00	0.00	0.00	0.00	0.00
432	RT	Software Limitation	SCE	Big Creek-Ventura	8/21/2020	0	No	INC	1	21:25	22:25	-27.48	1172.21	0.00	0.00	-54.95	0.00	0.00	0.00	0.00	0.00
433	RT	Software Limitation	SCE	Big Creek-Ventura	8/28/2020	16 - 33	No	INC	1	16:35	17:30	25.89	0.00	0.00	-4852.31	3.85	-152.98	0.00	-7.49	0.00	0.00
434	RT	Software Limitation	SCE	Big Creek-Ventura	8/30/2020	-177	No	INC	5	6:30	11:00	-36.88	0.00	0.00	770.26	0.00	0.00	0.00	0.00	0.00	0.00
435	RT	Software Limitation	SCE	LA Basin	8/3/2020	5 - 58.38	No	INC	1	14:10	15:00	388.47	979.06	0.00	-11883.76	4.60	-94.91	0.00	-8.39	0.00	0.00
436	RT	Software Limitation	SCE	LA Basin	8/12/2020	0	No	INC	1	23:45	0:00	-11.22	0.00	0.00	0.00	-22.44	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/August/2020 - 31/August/2020**

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
437	RT	Software Limitation	SCE	LA Basin	8/13/2020	0	No	INC	1	0:00	0:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	RT	Software Limitation	SCE	LA Basin	8/14/2020	25 - 46.42	No	DEC	1	14:55	15:50	7.30	-964.06	0.00	-394.06	0.00	0.00	0.00	0.00	0.00	0.00
439	RT	Software Limitation	SCE	LA Basin	8/14/2020	5 - 46.42	No	INC	1	14:55	15:50	22.07	1425.38	0.00	-1272.92	2.41	-67.23	0.00	-1.71	0.00	0.00
440	RT	Software Limitation	SCE	LA Basin	8/15/2020	0	No	INC	24	0:00	23:20	-15.90	1277.44	0.00	-7.45	-126.76	0.00	0.00	0.00	0.00	0.00
441	RT	Software Limitation	SCE	LA Basin	8/17/2020	147	No	INC	1	23:30	0:00	67.42	0.00	0.00	-2997.13	0.00	0.00	0.00	0.00	0.00	0.00
442	RT	Software Limitation	SCE	LA Basin	8/21/2020	0	No	DEC	1	18:35	19:05	-14.00	-1008.21	0.00	74.41	-25.00	0.00	0.00	0.00	0.00	0.00
443	RT	Software Limitation	SCE	LA Basin	8/28/2020	45.38 - 45.58	No	DEC	1	17:00	17:30	30.20	0.00	0.00	-10054.07	0.00	0.00	0.00	0.00	0.00	0.00
444	RT	Software Limitation	SCE	LA Basin	8/28/2020	0 - 58.38	No	INC	21	0:00	20:30	159.89	3045.08	0.00	-26045.89	0.08	-3.45	0.00	-0.05	0.00	0.00
445	RT	Software Limitation	SCE	LA Basin	8/29/2020	0	No	INC	12	12:00	0:00	-43.12	0.00	0.00	680.97	0.00	0.00	0.00	0.00	0.00	0.00
446	RT	Software Limitation	SCE	LA Basin	8/30/2020	0	No	INC	5	0:00	4:05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
447	RT	Software Limitation	SCE	LA Basin	8/31/2020	0	No	INC	1	16:25	16:55	-4.17	0.00	0.00	0.00	-16.67	0.00	0.00	0.00	0.00	0.00
448	RT	Software Limitation	SDGE	San Diego-IV	8/3/2020	30	No	INC	1	14:10	15:00	24.08	0.00	0.00	-760.76	0.00	0.00	0.00	0.00	0.00	0.00
449	RT	Software Limitation	SDGE	San Diego-IV	8/12/2020	161	No	DEC	1	17:05	18:00	96.69	0.00	0.00	-8230.34	0.00	0.00	0.00	0.00	0.00	0.00
450	RT	Software Limitation	SDGE	San Diego-IV	8/14/2020	24.25	No	DEC	1	15:00	15:50	2.48	-584.92	0.00	-144.74	0.00	0.00	0.00	0.00	0.00	0.00
451	RT	Software Limitation	SDGE	San Diego-IV	8/14/2020	24.25 - 53.97	No	INC	1	14:55	15:50	222.03	3022.06	0.00	-12450.30	2.96	-81.69	0.00	-0.09	0.00	0.00
452	RT	Software Limitation	SDGE	San Diego-IV	8/17/2020	0	No	DEC	1	20:15	20:45	-23.22	-1744.08	0.00	819.89	-28.76	0.00	156.05	0.00	0.00	0.00
453	RT	Software Limitation	SDGE	San Diego-IV	8/28/2020	24.87 - 30	No	INC	1	16:35	17:30	54.45	1253.36	0.00	-12849.27	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/August/2020 - 31/August/2020**

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
454	RT	Unit Testing	PGAE	Bay Area	8/12/2020	139	No	DEC	3	18:25	21:00	-4.56	-18365.38	0.00	199.84	-5.73	0.00	122.36	0.00	0.00	0.00
455	RT	Unit Testing	PGAE	Bay Area	8/13/2020	180	No	INC	2	22:50	0:00	5.43	-5749.23	0.00	-205.97	8.02	-205.97	0.00	0.00	0.00	0.00
456	RT	Unit Testing	PGAE	Bay Area	8/14/2020	180	No	INC	1	0:00	0:30	0.50	2081.03	0.00	-16.11	0.00	0.00	0.00	0.00	0.00	0.00
457	RT	Unit Testing	PGAE	Bay Area	8/25/2020	549	No	INC	1	18:50	19:10	0.16	-1740.50	0.00	-8.04	-2.00	0.00	37.35	0.00	0.00	0.00
458	RT	Unit Testing	PGAE	Bay Area	8/26/2020	196	No	INC	1	8:20	8:55	43.60	0.00	0.00	-1612.13	61.34	-1592.09	0.00	0.00	0.00	0.00
459	RT	Unit Testing	PGAE	Fresno	8/22/2020	83	No	INC	2	16:40	17:45	19.37	0.00	0.00	-887.94	0.00	0.00	0.00	0.00	0.00	0.00
460	RT	Unit Testing	PGAE	Fresno	8/26/2020	46 - 47	No	INC	2	18:40	20:00	17.76	0.00	0.00	-1359.73	26.51	-1348.31	0.00	0.00	0.00	0.00
461	RT	Unit Testing	PGAE	Fresno	8/28/2020	109 - 119	No	INC	1	9:00	9:40	23.35	0.00	0.00	-668.67	7.44	-415.58	0.00	0.00	0.00	0.00
462	RT	Unit Testing	PGAE	NA	8/25/2020	5	No	INC	1	18:30	19:00	0.46	0.00	0.00	-17.12	0.00	0.00	0.00	0.00	0.00	0.00
463	RT	Unit Testing	PGAE	Stockton	8/1/2020	52	No	INC	1	14:20	14:45	4.50	0.00	0.00	-78.45	0.00	0.00	0.00	0.00	0.00	0.00
464	RT	Unit Testing	SCE	Big Creek-Ventura	8/13/2020	70	No	INC	2	18:00	20:00	0.04	0.00	0.00	-1.51	0.04	-1.51	0.00	0.00	0.00	0.00
465	RT	Unit Testing	SCE	LA Basin	8/18/2020	100 - 300	No	INC	4	9:30	13:00	-1.69	0.00	0.00	-3591.83	278.06	-8708.52	0.00	0.00	0.00	0.00
466	RT	Unit Testing	SCE	LA Basin	8/20/2020	95.07	No	INC	1	23:15	0:00	-14.25	0.00	0.00	444.75	25.73	0.00	0.00	0.00	0.00	0.00
467	RT	Unit Testing	SCE	LA Basin	8/27/2020	345	No	DEC	1	12:25	12:30	-19.82	-1351.41	0.00	790.52	-42.43	0.00	790.52	0.00	0.00	0.00
468	RT	Unit Testing	SCE	LA Basin	8/27/2020	25	No	INC	1	10:45	11:00	3.75	0.00	0.00	-482.89	7.34	-482.89	0.00	0.00	0.00	0.00
469	RT	Unit Testing	SCE	LA Basin	8/28/2020	140	No	INC	1	8:00	8:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470	RT	Unit Testing	SCE	LA Basin	8/31/2020	0 - 333	No	INC	2	0:15	2:00	-58.57	0.00	0.00	-615.21	-107.06	-777.13	0.00	0.00	0.00	0.00
471	RT	Unit Testing	SDGE	San Diego-IV	8/1/2020	21	No	DEC	2	19:05	20:55	27.99	-1200.51	0.00	-1059.13	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/August/2020 - 31/August/2020**

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
472	RT	Unit Testing	SDGE	San Diego-IV	8/5/2020	2	No	INC	1	13:10	13:55	2.45	0.00	0.00	-153.33	2.47	-153.67	0.00	0.00	0.00	0.00
473	RT	Unit Testing	SDGE	San Diego-IV	8/21/2020	6.18	No	INC	1	21:35	22:00	2.37	0.00	0.00	-130.10	2.94	-130.72	0.00	0.00	0.00	0.00
474	RT	Unit Testing	SDGE	San Diego-IV	8/25/2020	317	No	INC	1	20:40	21:00	53.13	0.00	0.00	-2471.01	0.00	0.00	0.00	0.00	0.00	0.00
475	RT	Unit Testing	SDGE	San Diego-IV	8/26/2020	23	No	INC	1	22:25	23:00	10.34	0.00	0.00	-422.44	3.49	-207.05	0.00	0.00	0.00	0.00
476	RT	Unplanned Outage	SCE	LA Basin	8/17/2020	6	No	DEC	1	20:40	21:00	-2.23	0.00	0.00	140.51	0.00	0.00	0.00	0.00	0.00	0.00
477	RT	Unplanned Outage	SCE	LA Basin	8/17/2020	6	No	INC	1	21:00	22:00	6.07	-129.38	0.00	-400.82	0.00	0.00	0.00	0.00	0.00	0.00
478	RT	Voltage Support	PGAE	Fresno	8/26/2020	0	No	INC	1	13:00	13:50	67.56	0.00	0.00	-1785.78	0.00	0.00	0.00	0.00	0.00	0.00
479	RT	Voltage Support	SCE	NA	8/6/2020	125	No	INC	22	2:00	0:00	-60.47	93222.20	0.00	1219.63	0.00	0.00	0.00	0.00	0.00	0.00
480	RT	Voltage Support	SCE	NA	8/7/2020	125	No	DEC	19	0:00	19:00	-37.77	692.96	0.00	938.22	0.00	0.00	0.00	0.00	0.00	0.00
481	RT	Voltage Support	SCE	NA	8/7/2020	125	No	INC	4	8:00	12:00	1.26	376.80	0.00	-8.44	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>8</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>8</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 8,928 five-minute intervals in August, this resource was issued exceptional dispatch instructions in 157 five-minute intervals. This resource was eligible to set the LMP in 23 intervals. Out of the 23 intervals, resource calculated LMP was larger than the market LMP in 0 intervals. Out of the 23 intervals, resource calculated LMP was less than the market LMP in 23 intervals. In the 23 intervals, the average decrease in five minute LMP was \$559.24/MWh. 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 \$559.24/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 8,928 five-minute intervals in August, this resource was issued exceptional dispatch instructions in 2,263 five-minute intervals. This resource was eligible to set the LMP in 1,254 intervals. Out of the 1,254 intervals, resource calculated LMP was larger than the market LMP in 773 intervals. In the 773 intervals, the average increase in five minute LMP was \$48.72/MWh. Out of the 1,254 intervals, resource calculated LMP was less than the market LMP in 481 intervals. In the 481 intervals, the average decrease in five minute LMP was \$134.06/MWh. 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 \$21.39/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	8/18/2020	17	2	942.81	Yes	0	-942.81
2	8/18/2020	17	3	953.40	Yes	0	-953.40
3	8/18/2020	17	4	956.10	Yes	0	-956.10
4	8/18/2020	17	5	956.10	Yes	0	-956.10
5	8/18/2020	17	6	965.92	Yes	0	-965.92
6	8/18/2020	17	7	65.94	Yes	0	-65.94
7	8/18/2020	17	8	945.12	Yes	0	-945.12
8	8/18/2020	17	9	945.12	Yes	0	-945.12
9	8/18/2020	17	10	895.90	Yes	0	-895.90
10	8/18/2020	17	11	895.90	Yes	0	-895.90
11	8/18/2020	17	12	893.17	Yes	0	-893.17
12	8/18/2020	18	1	931.23	Yes	0	-931.23
13	8/18/2020	18	2	900.46	Yes	0	-900.46
14	8/18/2020	18	3	908.39	Yes	0	-908.39
15	8/18/2020	18	4	91.38	Yes	0	-91.38
16	8/18/2020	18	5	59.01	Yes	0	-59.01
17	8/18/2020	18	6	60.77	Yes	0	-60.77
18	8/18/2020	18	7	57.33	Yes	0	-57.33
19	8/18/2020	18	8	71.53	Yes	0	-71.53
20	8/18/2020	18	9	250.00	Yes	0	-250.00
21	8/18/2020	18	10	61.01	Yes	0	-61.01
22	8/18/2020	18	11	29.52	Yes	0	-29.52
23	8/18/2020	18	12	26.55	Yes	0	-26.55



**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	8/1/2020	18	1	21.40	Yes	75.03	53.63
2	8/1/2020	18	2	21.40	Yes	75.03	53.63
3	8/1/2020	18	3	21.94	Yes	75.03	53.09
4	8/1/2020	18	4	22.06	Yes	75.03	52.97
5	8/1/2020	18	5	22.70	Yes	75.03	52.33
6	8/1/2020	18	6	23.00	Yes	75.03	52.03
7	8/1/2020	18	7	25.45	Yes	75.03	49.58
8	8/1/2020	18	8	25.35	Yes	75.03	49.68
9	8/1/2020	18	9	25.96	Yes	75.03	49.07
10	8/1/2020	18	10	28.35	Yes	75.03	46.68
11	8/1/2020	18	11	28.65	Yes	75.03	46.38
12	8/1/2020	18	12	29.87	Yes	75.03	45.16
13	8/1/2020	19	1	27.08	Yes	75.03	47.95
14	8/1/2020	19	2	25.14	Yes	39.34	14.20
15	8/1/2020	19	3	25.14	Yes	39.34	14.20
16	8/1/2020	19	4	27.46	Yes	75.03	47.57
17	8/1/2020	19	5	43.44	Yes	39.34	-4.10
18	8/1/2020	19	6	64.22	Yes	39.34	-24.88
19	8/1/2020	19	7	49.86	Yes	39.34	-10.52
20	8/1/2020	19	8	51.21	Yes	39.69	-11.52
21	8/1/2020	19	9	551.59	Yes	45.41	-506.18
22	8/1/2020	19	10	207.76	Yes	41.67	-166.09
23	8/1/2020	19	11	503.98	Yes	45.99	-457.99
24	8/1/2020	19	12	207.76	Yes	75.03	-132.73
25	8/1/2020	20	1	38.18	Yes	39.34	1.16
26	8/1/2020	20	2	40.36	Yes	39.34	-1.02
27	8/1/2020	20	3	45.42	Yes	42.97	-2.45
28	8/1/2020	20	4	40.29	Yes	39.34	-0.95
29	8/1/2020	20	5	41.83	Yes	41.87	0.04
30	8/1/2020	20	6	40.85	Yes	42.22	1.37
31	8/1/2020	20	7	208.30	Yes	50.54	-157.76
32	8/1/2020	20	8	51.25	Yes	45.00	-6.25
33	8/1/2020	20	9	122.86	Yes	55.34	-67.52
34	8/1/2020	20	10	43.48	Yes	42.20	-1.28

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
35	8/1/2020	20	11	39.23	Yes	41.08	1.85
36	8/1/2020	20	12	38.12	Yes	65.58	27.46
37	8/1/2020	21	1	36.54	Yes	75.03	38.49
38	8/1/2020	21	2	33.81	Yes	75.03	41.22
39	8/1/2020	21	3	30.05	Yes	75.03	44.98
40	8/1/2020	21	4	29.55	Yes	75.03	45.48
41	8/1/2020	21	5	29.32	Yes	75.03	45.71
42	8/1/2020	21	6	29.49	Yes	75.03	45.54
43	8/1/2020	21	7	28.50	Yes	75.03	46.53
44	8/1/2020	21	8	28.95	Yes	75.03	46.08
45	8/1/2020	21	9	28.53	Yes	75.03	46.50
46	8/1/2020	21	10	25.82	Yes	75.03	49.21
47	8/1/2020	21	11	25.82	Yes	75.03	49.21
48	8/1/2020	21	12	23.42	Yes	75.03	51.61
49	8/1/2020	22	1	34.68	Yes	75.03	40.35
50	8/1/2020	22	2	34.68	Yes	75.03	40.35
51	8/1/2020	22	3	32.96	Yes	75.03	42.07
52	8/1/2020	22	4	31.31	Yes	75.03	43.72
53	8/1/2020	22	5	30.86	Yes	75.03	44.17
54	8/1/2020	22	6	29.20	Yes	75.03	45.83
55	8/1/2020	22	7	28.79	Yes	75.03	46.24
56	8/1/2020	22	8	27.68	Yes	75.03	47.35
57	8/1/2020	22	9	26.41	Yes	75.03	48.62
58	8/1/2020	22	10	24.72	Yes	75.03	50.31
59	8/1/2020	22	11	24.47	Yes	75.03	50.56
60	8/1/2020	22	12	23.44	Yes	75.03	51.59
61	8/3/2020	17	7	28.44	Yes	39.34	10.90
62	8/3/2020	17	8	27.50	Yes	39.34	11.84
63	8/3/2020	17	9	26.86	Yes	39.34	12.48
64	8/3/2020	17	10	26.79	Yes	39.34	12.55
65	8/3/2020	17	11	26.86	Yes	39.34	12.48
66	8/3/2020	17	12	23.43	Yes	39.34	15.91
67	8/3/2020	18	1	25.30	Yes	39.34	14.04
68	8/3/2020	18	2	25.24	Yes	39.34	14.10
69	8/3/2020	18	3	25.18	Yes	39.34	14.16
70	8/3/2020	18	4	26.51	Yes	39.34	12.83
71	8/3/2020	18	5	26.25	Yes	39.34	13.09
72	8/3/2020	18	6	26.37	Yes	39.34	12.97

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
73	8/3/2020	18	7	26.91	Yes	39.34	12.43
74	8/3/2020	18	8	27.54	Yes	39.34	11.80
75	8/3/2020	18	9	28.65	Yes	39.34	10.69
76	8/3/2020	18	10	30.28	Yes	75.03	44.75
77	8/3/2020	18	11	38.61	Yes	75.03	36.42
78	8/3/2020	18	12	33.33	Yes	75.03	41.70
79	8/3/2020	19	1	25.14	Yes	75.03	49.89
80	8/3/2020	19	2	25.26	Yes	75.03	49.77
81	8/3/2020	19	3	25.06	Yes	75.03	49.97
82	8/3/2020	19	4	26.03	Yes	75.03	49.00
83	8/3/2020	19	5	28.49	Yes	75.03	46.54
84	8/3/2020	19	6	30.48	Yes	75.03	44.55
85	8/3/2020	19	7	31.82	Yes	75.03	43.21
86	8/3/2020	19	8	34.18	Yes	75.03	40.85
87	8/3/2020	19	9	33.26	Yes	75.03	41.77
88	8/3/2020	19	10	32.72	Yes	75.03	42.31
89	8/3/2020	19	11	32.73	Yes	39.34	6.61
90	8/3/2020	19	12	32.61	Yes	39.34	6.73
91	8/3/2020	20	1	31.66	Yes	39.34	7.68
92	8/3/2020	20	2	31.66	Yes	75.03	43.37
93	8/3/2020	20	3	31.59	Yes	75.03	43.44
94	8/3/2020	20	4	30.24	Yes	75.03	44.79
95	8/3/2020	20	5	30.60	Yes	75.03	44.43
96	8/3/2020	20	6	30.00	Yes	75.03	45.03
97	8/3/2020	20	7	30.34	Yes	75.03	44.69
98	8/3/2020	20	8	29.82	Yes	75.03	45.21
99	8/3/2020	20	9	30.32	Yes	75.03	44.71
100	8/3/2020	20	10	29.55	Yes	75.03	45.48
101	8/3/2020	20	11	28.95	Yes	75.03	46.08
102	8/3/2020	20	12	27.21	Yes	75.03	47.82
103	8/3/2020	21	1	27.21	Yes	39.34	12.13
104	8/3/2020	21	2	31.14	Yes	39.34	8.20
105	8/3/2020	21	3	28.65	Yes	39.34	10.69
106	8/3/2020	21	4	33.48	Yes	39.34	5.86
107	8/3/2020	21	5	28.65	Yes	39.34	10.69
108	8/3/2020	21	6	28.06	Yes	39.34	11.28
109	8/3/2020	21	7	26.97	Yes	39.34	12.37
110	8/3/2020	21	8	27.20	Yes	39.34	12.14

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
111	8/3/2020	21	9	28.35	Yes	39.34	10.99
112	8/3/2020	21	10	23.36	Yes	39.34	15.98
113	8/3/2020	21	11	23.95	Yes	39.34	15.39
114	8/3/2020	21	12	22.87	Yes	39.34	16.47
115	8/14/2020	12	7	39.61	Yes	61.16	21.55
116	8/14/2020	12	8	40.82	Yes	61.16	20.34
117	8/14/2020	12	9	38.84	Yes	61.16	22.32
118	8/14/2020	12	10	39.74	Yes	61.16	21.42
119	8/14/2020	12	11	39.74	Yes	98.59	58.85
120	8/14/2020	12	12	38.85	Yes	98.59	59.74
121	8/14/2020	13	1	43.51	Yes	61.16	17.65
122	8/14/2020	13	2	39.20	Yes	61.16	21.96
123	8/14/2020	13	6	39.94	Yes	61.16	21.22
124	8/14/2020	13	7	38.80	Yes	61.16	22.36
125	8/14/2020	13	8	39.39	Yes	61.16	21.77
126	8/14/2020	13	9	39.47	Yes	61.16	21.69
127	8/14/2020	13	10	43.24	Yes	61.16	17.92
128	8/14/2020	13	11	41.90	Yes	61.16	19.26
129	8/14/2020	13	12	48.73	Yes	61.16	12.43
130	8/14/2020	14	1	43.84	Yes	61.16	17.32
131	8/14/2020	14	2	43.82	Yes	61.16	17.34
132	8/14/2020	14	3	40.39	Yes	61.16	20.77
133	8/14/2020	14	4	41.90	Yes	61.16	19.26
134	8/14/2020	14	5	40.36	Yes	61.16	20.80
135	8/14/2020	14	6	39.90	Yes	61.16	21.26
136	8/14/2020	14	7	41.90	Yes	61.16	19.26
137	8/14/2020	14	8	45.46	Yes	61.16	15.70
138	8/14/2020	14	9	47.07	Yes	61.16	14.09
139	8/14/2020	14	10	47.52	Yes	61.16	13.64
140	8/14/2020	14	11	47.15	Yes	61.16	14.01
141	8/14/2020	14	12	51.91	Yes	61.16	9.25
142	8/14/2020	15	1	44.80	Yes	38.51	-6.29
143	8/14/2020	15	2	47.05	Yes	38.51	-8.54
144	8/14/2020	15	3	47.48	Yes	38.51	-8.97
145	8/14/2020	15	4	47.46	Yes	38.51	-8.95
146	8/14/2020	15	5	48.82	Yes	38.51	-10.31
147	8/14/2020	15	6	48.81	Yes	38.51	-10.30
148	8/14/2020	15	7	53.68	Yes	38.51	-15.17

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149	8/14/2020	15	8	48.96	Yes	38.51	-10.45
150	8/14/2020	15	9	74.31	Yes	38.51	-35.80
151	8/14/2020	15	10	50.09	Yes	38.51	-11.58
152	8/14/2020	15	11	56.18	Yes	38.51	-17.67
153	8/14/2020	15	12	56.18	Yes	38.51	-17.67
154	8/14/2020	16	1	56.18	Yes	38.51	-17.67
155	8/14/2020	16	2	56.18	Yes	38.51	-17.67
156	8/14/2020	16	3	56.18	Yes	38.51	-17.67
157	8/14/2020	16	4	60.83	Yes	38.51	-22.32
158	8/14/2020	16	5	60.78	Yes	38.51	-22.27
159	8/14/2020	16	6	57.71	Yes	38.51	-19.20
160	8/14/2020	16	7	55.72	Yes	39.51	-16.21
161	8/14/2020	16	8	51.87	Yes	39.51	-12.36
162	8/14/2020	16	9	51.87	Yes	39.51	-12.36
163	8/14/2020	16	10	56.91	Yes	39.51	-17.40
164	8/14/2020	16	11	52.62	Yes	39.51	-13.11
165	8/14/2020	16	12	52.09	Yes	39.51	-12.58
166	8/14/2020	17	1	48.49	Yes	39.63	-8.86
167	8/14/2020	17	2	48.49	Yes	39.63	-8.86
168	8/14/2020	17	3	50.74	Yes	39.63	-11.11
169	8/14/2020	17	4	50.93	Yes	39.63	-11.30
170	8/14/2020	17	5	54.87	Yes	39.63	-15.24
171	8/14/2020	17	6	69.28	Yes	39.63	-29.65
172	8/14/2020	17	7	54.05	Yes	39.63	-14.42
173	8/14/2020	17	8	57.28	Yes	39.63	-17.65
174	8/14/2020	17	9	74.99	Yes	39.63	-35.36
175	8/14/2020	17	10	92.64	Yes	39.63	-53.01
176	8/14/2020	17	11	92.64	Yes	39.63	-53.01
177	8/14/2020	17	12	90.11	Yes	39.63	-50.48
178	8/14/2020	18	1	77.62	Yes	39.63	-37.99
179	8/14/2020	18	2	74.72	Yes	39.63	-35.09
180	8/14/2020	18	3	57.01	Yes	39.63	-17.38
181	8/14/2020	18	4	78.42	Yes	39.63	-38.79
182	8/14/2020	18	5	89.97	Yes	39.63	-50.34
183	8/14/2020	18	6	108.06	Yes	39.63	-68.43
184	8/14/2020	18	7	90.03	Yes	39.63	-50.40
185	8/14/2020	18	8	85.38	Yes	39.63	-45.75
186	8/14/2020	18	9	101.21	Yes	39.63	-61.58

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187	8/14/2020	18	10	180.69	Yes	39.63	-141.06
188	8/14/2020	18	11	92.68	Yes	39.63	-53.05
189	8/14/2020	18	12	109.01	Yes	39.63	-69.38
190	8/14/2020	19	1	148.43	Yes	39.63	-108.80
191	8/14/2020	19	2	1046.76	Yes	39.63	-1007.13
192	8/14/2020	19	3	1046.76	Yes	39.63	-1007.13
193	8/14/2020	19	4	1006.10	Yes	39.63	-966.47
194	8/14/2020	19	5	1045.92	Yes	39.63	-1006.29
195	8/14/2020	19	6	1047.71	Yes	39.63	-1008.08
196	8/14/2020	19	7	1018.30	Yes	39.63	-978.67
197	8/14/2020	19	8	1018.30	Yes	39.63	-978.67
198	8/14/2020	19	9	1018.30	Yes	39.63	-978.67
199	8/14/2020	19	10	1017.60	Yes	39.63	-977.97
200	8/14/2020	19	11	1017.60	Yes	39.63	-977.97
201	8/14/2020	19	12	1017.60	Yes	39.63	-977.97
202	8/14/2020	20	1	1025.70	Yes	39.63	-986.07
203	8/14/2020	20	2	1025.70	Yes	39.63	-986.07
204	8/14/2020	20	3	1006.25	Yes	39.63	-966.62
205	8/14/2020	20	4	89.43	Yes	39.63	-49.80
206	8/14/2020	20	5	66.66	Yes	39.63	-27.03
207	8/14/2020	20	6	70.86	Yes	39.63	-31.23
208	8/14/2020	20	7	64.92	Yes	39.63	-25.29
209	8/14/2020	20	8	64.08	Yes	39.63	-24.45
210	8/14/2020	20	9	65.03	Yes	39.63	-25.40
211	8/14/2020	20	10	84.18	Yes	39.63	-44.55
212	8/14/2020	20	11	82.78	Yes	39.63	-43.15
213	8/14/2020	20	12	60.62	Yes	39.63	-20.99
214	8/14/2020	21	1	46.59	Yes	39.63	-6.96
215	8/14/2020	21	2	44.05	Yes	39.63	-4.42
216	8/14/2020	21	3	42.99	Yes	39.63	-3.36
217	8/14/2020	21	4	41.91	Yes	39.63	-2.28
218	8/14/2020	21	5	44.82	Yes	39.63	-5.19
219	8/14/2020	21	6	42.25	Yes	39.63	-2.62
220	8/14/2020	21	7	46.93	Yes	39.63	-7.30
221	8/14/2020	21	8	49.56	Yes	39.63	-9.93
222	8/14/2020	21	9	47.74	Yes	39.63	-8.11
223	8/14/2020	21	10	44.43	Yes	39.63	-4.80
224	8/14/2020	21	11	43.09	Yes	39.63	-3.46

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225	8/14/2020	21	12	43.91	Yes	39.63	-4.28
226	8/15/2020	13	1	45.21	Yes	128.78	83.57
227	8/15/2020	13	2	43.45	Yes	128.78	85.33
228	8/15/2020	13	3	42.95	Yes	128.78	85.83
229	8/15/2020	13	4	45.21	Yes	128.78	83.57
230	8/15/2020	13	5	46.11	Yes	128.78	82.67
231	8/15/2020	13	6	45.21	Yes	128.78	83.57
232	8/15/2020	13	7	46.17	Yes	83.61	37.44
233	8/15/2020	13	8	48.39	Yes	83.61	35.22
234	8/15/2020	13	9	52.86	Yes	128.78	75.92
235	8/15/2020	13	10	56.85	Yes	128.78	71.93
236	8/15/2020	13	11	53.27	Yes	128.78	75.51
237	8/15/2020	13	12	56.00	Yes	128.78	72.78
238	8/15/2020	14	1	57.70	Yes	128.78	71.08
239	8/15/2020	14	2	54.80	Yes	128.78	73.98
240	8/15/2020	14	3	64.17	Yes	128.78	64.61
241	8/15/2020	14	4	62.76	Yes	128.78	66.02
242	8/15/2020	14	5	62.75	Yes	128.78	66.03
243	8/15/2020	14	6	104.45	Yes	128.78	24.33
244	8/15/2020	14	7	99.76	Yes	128.78	29.02
245	8/15/2020	14	8	78.00	Yes	128.78	50.78
246	8/15/2020	14	9	67.17	Yes	128.78	61.61
247	8/15/2020	14	10	79.39	Yes	128.78	49.39
248	8/15/2020	14	11	73.88	Yes	128.78	54.90
249	8/15/2020	14	12	76.34	Yes	128.78	52.44
250	8/15/2020	15	1	56.18	Yes	140.35	84.17
251	8/15/2020	15	2	53.86	Yes	140.35	86.49
252	8/15/2020	15	3	53.86	Yes	140.35	86.49
253	8/15/2020	15	4	59.45	Yes	140.35	80.90
254	8/15/2020	15	5	71.42	Yes	140.35	68.93
255	8/15/2020	15	6	86.28	Yes	140.35	54.07
256	8/15/2020	15	7	842.54	Yes	140.35	-702.19
257	8/15/2020	15	8	998.00	Yes	140.35	-857.65
258	8/15/2020	15	9	1000.00	Yes	140.35	-859.65
259	8/15/2020	15	10	1000.00	Yes	140.35	-859.65
260	8/15/2020	15	11	1000.00	Yes	140.35	-859.65
261	8/15/2020	15	12	1000.00	Yes	140.35	-859.65
262	8/15/2020	16	1	119.33	Yes	140.19	20.86

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263	8/15/2020	16	2	153.49	Yes	140.19	-13.30
264	8/15/2020	16	3	134.01	Yes	140.19	6.18
265	8/15/2020	16	4	89.05	Yes	140.19	51.14
266	8/15/2020	16	5	91.49	Yes	140.19	48.70
267	8/15/2020	16	6	92.32	Yes	140.19	47.87
268	8/15/2020	16	7	83.04	Yes	140.19	57.15
269	8/15/2020	16	8	64.88	Yes	140.19	75.31
270	8/15/2020	16	9	58.94	Yes	140.19	81.25
271	8/15/2020	16	10	50.76	Yes	140.19	89.43
272	8/15/2020	16	11	51.39	Yes	140.19	88.80
273	8/15/2020	16	12	49.21	Yes	140.19	90.98
274	8/15/2020	17	1	49.21	Yes	62.94	13.73
275	8/15/2020	17	2	32.87	Yes	62.94	30.07
276	8/15/2020	17	3	48.01	Yes	62.94	14.93
277	8/15/2020	17	4	56.23	Yes	62.94	6.71
278	8/15/2020	17	5	51.89	Yes	62.94	11.05
279	8/15/2020	17	6	51.53	Yes	62.94	11.41
280	8/15/2020	17	7	48.48	Yes	62.94	14.46
281	8/15/2020	17	8	48.54	Yes	62.94	14.40
282	8/15/2020	17	9	51.89	Yes	62.94	11.05
283	8/15/2020	17	10	52.97	Yes	62.94	9.97
284	8/15/2020	17	11	55.26	Yes	62.94	7.68
285	8/15/2020	17	12	52.97	Yes	62.94	9.97
286	8/15/2020	18	1	51.12	Yes	62.94	11.82
287	8/15/2020	18	2	58.60	Yes	62.94	4.34
288	8/15/2020	18	3	60.08	Yes	62.94	2.86
289	8/15/2020	18	4	60.43	Yes	62.94	2.51
290	8/15/2020	18	5	60.30	Yes	62.94	2.64
291	8/15/2020	18	6	61.69	Yes	62.94	1.25
292	8/15/2020	18	7	63.18	Yes	62.94	-0.24
293	8/15/2020	18	8	63.88	Yes	62.94	-0.94
294	8/15/2020	18	9	79.43	Yes	62.94	-16.49
295	8/15/2020	18	10	92.68	Yes	62.94	-29.74
296	8/15/2020	18	11	199.53	Yes	62.94	-136.59
297	8/15/2020	18	12	793.04	Yes	62.94	-730.10
298	8/15/2020	19	1	867.07	Yes	62.94	-804.13
299	8/15/2020	19	2	867.07	Yes	62.94	-804.13
300	8/15/2020	19	3	1006.00	Yes	62.94	-943.06



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301	8/15/2020	19	4	1006.60	Yes	62.94	-943.66
302	8/15/2020	19	5	1006.60	Yes	62.94	-943.66
303	8/15/2020	19	6	1006.60	Yes	62.94	-943.66
304	8/15/2020	19	7	1010.00	Yes	62.94	-947.06
305	8/15/2020	19	8	1010.00	Yes	62.94	-947.06
306	8/15/2020	19	9	993.90	Yes	62.94	-930.96
307	8/15/2020	19	10	969.13	Yes	62.94	-906.19
308	8/15/2020	19	11	969.93	Yes	62.94	-906.99
309	8/15/2020	19	12	88.70	Yes	62.94	-25.76
310	8/15/2020	20	1	63.67	Yes	62.94	-0.73
311	8/15/2020	20	2	63.90	Yes	62.94	-0.96
312	8/15/2020	20	3	63.67	Yes	62.94	-0.73
313	8/15/2020	20	4	65.98	Yes	62.94	-3.04
314	8/15/2020	20	5	65.80	Yes	62.94	-2.86
315	8/15/2020	20	6	63.63	Yes	62.94	-0.69
316	8/15/2020	20	7	67.54	Yes	62.94	-4.60
317	8/15/2020	20	8	73.96	Yes	62.94	-11.02
318	8/15/2020	20	9	63.74	Yes	62.94	-0.80
319	8/15/2020	20	10	1110.24	Yes	62.94	-1047.30
320	8/15/2020	20	11	939.75	Yes	62.94	-876.81
321	8/15/2020	20	12	234.08	Yes	62.94	-171.14
322	8/15/2020	21	1	149.94	Yes	62.94	-87.00
323	8/15/2020	21	2	85.47	Yes	62.94	-22.53
324	8/15/2020	21	3	78.58	Yes	62.94	-15.64
325	8/15/2020	21	4	118.49	Yes	62.94	-55.55
326	8/15/2020	21	5	114.31	Yes	62.94	-51.37
327	8/15/2020	21	6	79.88	Yes	62.94	-16.94
328	8/15/2020	21	7	105.80	Yes	57.94	-47.86
329	8/15/2020	21	8	80.65	Yes	57.94	-22.71
330	8/15/2020	21	9	65.09	Yes	57.94	-7.15
331	8/15/2020	21	10	56.18	Yes	57.94	1.76
332	8/15/2020	21	11	56.18	Yes	57.94	1.76
333	8/15/2020	21	12	54.28	Yes	57.94	3.66
334	8/15/2020	22	1	84.57	Yes	135.02	50.45
335	8/15/2020	22	2	80.29	Yes	135.02	54.73
336	8/15/2020	22	3	70.54	Yes	135.02	64.48
337	8/15/2020	22	4	80.21	Yes	135.02	54.81
338	8/15/2020	22	5	99.97	Yes	135.02	35.05

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339	8/15/2020	22	6	79.86	Yes	135.02	55.16
340	8/16/2020	13	1	26.99	Yes	128.78	101.79
341	8/16/2020	13	2	30.02	Yes	128.78	98.76
342	8/16/2020	13	3	33.03	Yes	128.78	95.75
343	8/16/2020	13	4	34.52	Yes	128.78	94.26
344	8/16/2020	13	5	35.27	Yes	128.78	93.51
345	8/16/2020	13	6	43.22	Yes	128.78	85.56
346	8/16/2020	13	7	44.96	Yes	128.78	83.82
347	8/16/2020	13	8	43.91	Yes	128.78	84.87
348	8/16/2020	13	9	51.35	Yes	128.78	77.43
349	8/16/2020	13	10	51.52	Yes	128.78	77.26
350	8/16/2020	13	11	51.78	Yes	128.78	77.00
351	8/16/2020	13	12	50.04	Yes	128.78	78.74
352	8/16/2020	14	1	34.83	Yes	128.78	93.95
353	8/16/2020	14	2	34.83	Yes	128.78	93.95
354	8/16/2020	14	3	35.09	Yes	128.78	93.69
355	8/16/2020	14	4	35.87	Yes	128.78	92.91
356	8/16/2020	14	5	38.78	Yes	128.78	90.00
357	8/16/2020	14	6	42.97	Yes	128.78	85.81
358	8/16/2020	14	7	44.52	Yes	128.78	84.26
359	8/16/2020	14	8	44.69	Yes	128.78	84.09
360	8/16/2020	14	9	45.60	Yes	128.78	83.18
361	8/16/2020	14	10	43.31	Yes	128.78	85.47
362	8/16/2020	14	11	47.45	Yes	128.78	81.33
363	8/16/2020	14	12	49.29	Yes	128.78	79.49
364	8/16/2020	15	3	47.04	Yes	121.19	74.15
365	8/16/2020	15	4	47.18	Yes	121.19	74.01
366	8/16/2020	15	5	51.16	Yes	121.19	70.03
367	8/16/2020	15	6	54.25	Yes	121.19	66.94
368	8/16/2020	15	7	53.99	Yes	121.19	67.20
369	8/16/2020	15	8	54.90	Yes	121.19	66.29
370	8/16/2020	15	9	54.90	Yes	121.19	66.29
371	8/16/2020	15	10	54.65	Yes	121.19	66.54
372	8/16/2020	15	11	53.29	Yes	121.19	67.90
373	8/16/2020	15	12	51.31	Yes	121.19	69.88
374	8/16/2020	16	1	48.05	Yes	121.19	73.14
375	8/16/2020	16	2	46.88	Yes	121.19	74.31
376	8/16/2020	16	3	48.06	Yes	121.19	73.13

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377	8/16/2020	16	4	48.15	Yes	121.19	73.04
378	8/16/2020	16	5	48.31	Yes	121.19	72.88
379	8/16/2020	16	6	48.76	Yes	121.19	72.43
380	8/16/2020	16	7	44.14	Yes	121.19	77.05
381	8/16/2020	16	8	46.80	Yes	121.19	74.39
382	8/16/2020	16	10	51.12	Yes	121.19	70.07
383	8/16/2020	16	11	52.47	Yes	121.19	68.72
384	8/16/2020	16	12	53.19	Yes	121.19	68.00
385	8/16/2020	17	1	49.66	Yes	121.19	71.53
386	8/16/2020	17	2	49.79	Yes	121.19	71.40
387	8/16/2020	17	3	47.22	Yes	121.19	73.97
388	8/16/2020	17	4	45.58	Yes	121.19	75.61
389	8/16/2020	17	5	49.24	Yes	121.19	71.95
390	8/16/2020	17	6	49.24	Yes	85.01	35.77
391	8/16/2020	17	7	50.31	Yes	121.19	70.88
392	8/16/2020	17	8	50.38	Yes	121.19	70.81
393	8/16/2020	17	9	53.47	Yes	121.19	67.72
394	8/16/2020	17	10	53.45	Yes	121.19	67.74
395	8/16/2020	17	11	52.77	Yes	121.19	68.42
396	8/16/2020	17	12	53.45	Yes	121.19	67.74
397	8/16/2020	18	1	50.60	Yes	121.19	70.59
398	8/16/2020	18	2	50.64	Yes	121.19	70.55
399	8/16/2020	18	3	50.64	Yes	121.19	70.55
400	8/16/2020	18	4	50.16	Yes	121.19	71.03
401	8/16/2020	18	5	51.54	Yes	121.19	69.65
402	8/16/2020	18	6	51.92	Yes	121.19	69.27
403	8/16/2020	18	7	53.47	Yes	121.19	67.72
404	8/16/2020	18	8	59.28	Yes	121.19	61.91
405	8/16/2020	18	9	52.54	Yes	121.19	68.65
406	8/16/2020	18	10	52.80	Yes	121.19	68.39
407	8/16/2020	18	11	56.79	Yes	121.19	64.40
408	8/16/2020	18	12	55.22	Yes	121.19	65.97
409	8/16/2020	19	1	51.88	Yes	121.19	69.31
410	8/16/2020	19	2	52.65	Yes	121.19	68.54
411	8/16/2020	19	3	53.20	Yes	121.19	67.99
412	8/16/2020	19	4	55.21	Yes	121.19	65.98
413	8/16/2020	19	5	55.21	Yes	121.19	65.98
414	8/16/2020	19	6	58.49	Yes	121.19	62.70

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415	8/16/2020	19	7	50.71	Yes	121.19	70.48
416	8/16/2020	19	8	52.80	Yes	121.19	68.39
417	8/16/2020	19	9	52.80	Yes	121.19	68.39
418	8/16/2020	19	10	52.98	Yes	121.19	68.21
419	8/16/2020	19	11	53.10	Yes	121.19	68.09
420	8/16/2020	19	12	56.31	Yes	121.19	64.88
421	8/16/2020	20	1	49.15	Yes	121.19	72.04
422	8/16/2020	20	2	48.11	Yes	121.19	73.08
423	8/16/2020	20	3	46.95	Yes	121.19	74.24
424	8/16/2020	20	4	45.79	Yes	121.19	75.40
425	8/16/2020	20	5	46.37	Yes	121.19	74.82
426	8/16/2020	20	6	49.13	Yes	121.19	72.06
427	8/16/2020	20	7	47.78	Yes	121.19	73.41
428	8/16/2020	20	8	42.58	Yes	121.19	78.61
429	8/16/2020	20	9	39.94	Yes	121.19	81.25
430	8/16/2020	20	10	44.60	Yes	121.19	76.59
431	8/16/2020	20	11	43.11	Yes	121.19	78.08
432	8/16/2020	20	12	44.87	Yes	121.19	76.32
433	8/17/2020	11	1	42.24	Yes	128.78	86.54
434	8/17/2020	11	2	43.13	Yes	128.78	85.65
435	8/17/2020	11	3	43.28	Yes	128.78	85.50
436	8/17/2020	11	4	43.92	Yes	128.78	84.86
437	8/17/2020	11	5	47.78	Yes	128.78	81.00
438	8/17/2020	11	6	46.92	Yes	128.78	81.86
439	8/17/2020	11	7	51.01	Yes	128.78	77.77
440	8/17/2020	11	8	51.75	Yes	128.78	77.03
441	8/17/2020	11	9	52.45	Yes	128.78	76.33
442	8/17/2020	11	10	55.13	Yes	128.78	73.65
443	8/17/2020	11	11	55.13	Yes	128.78	73.65
444	8/17/2020	11	12	50.12	Yes	128.78	78.66
445	8/17/2020	12	1	48.96	Yes	128.78	79.82
446	8/17/2020	12	2	48.96	Yes	128.78	79.82
447	8/17/2020	12	3	47.79	Yes	128.78	80.99
448	8/17/2020	12	4	48.28	Yes	128.78	80.50
449	8/17/2020	12	5	47.61	Yes	128.78	81.17
450	8/17/2020	12	6	50.67	Yes	128.78	78.11
451	8/17/2020	12	10	52.83	Yes	126.19	73.36
452	8/17/2020	12	11	55.17	Yes	126.19	71.02

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453	8/17/2020	12	12	55.17	Yes	126.19	71.02
454	8/17/2020	13	1	53.76	Yes	126.19	72.43
455	8/17/2020	13	2	48.98	Yes	126.19	77.21
456	8/17/2020	13	3	48.98	Yes	126.19	77.21
457	8/17/2020	13	4	50.42	Yes	126.19	75.77
458	8/17/2020	13	5	58.41	Yes	126.19	67.78
459	8/17/2020	13	6	58.41	Yes	126.19	67.78
460	8/17/2020	13	7	61.88	Yes	126.19	64.31
461	8/17/2020	13	8	73.93	Yes	126.19	52.26
462	8/17/2020	13	9	74.22	Yes	126.19	51.97
463	8/17/2020	13	10	66.53	Yes	126.19	59.66
464	8/17/2020	13	11	66.53	Yes	126.19	59.66
465	8/17/2020	13	12	70.94	Yes	126.19	55.25
466	8/17/2020	14	1	54.50	Yes	126.19	71.69
467	8/17/2020	14	2	53.63	Yes	126.19	72.56
468	8/17/2020	14	3	52.25	Yes	126.19	73.94
469	8/17/2020	14	4	53.98	Yes	126.19	72.21
470	8/17/2020	14	5	56.79	Yes	126.19	69.40
471	8/17/2020	14	6	58.90	Yes	126.19	67.29
472	8/17/2020	14	7	63.50	Yes	126.19	62.69
473	8/17/2020	14	8	65.36	Yes	126.19	60.83
474	8/17/2020	14	9	66.39	Yes	126.19	59.80
475	8/17/2020	14	10	71.91	Yes	126.19	54.28
476	8/17/2020	14	11	71.09	Yes	126.19	55.10
477	8/17/2020	14	12	72.51	Yes	126.19	53.68
478	8/17/2020	15	1	61.93	Yes	126.19	64.26
479	8/17/2020	15	2	62.16	Yes	126.19	64.03
480	8/17/2020	15	3	65.47	Yes	126.19	60.72
481	8/17/2020	15	4	66.58	Yes	126.19	59.61
482	8/17/2020	15	5	65.55	Yes	126.19	60.64
483	8/17/2020	15	6	69.13	Yes	126.19	57.06
484	8/17/2020	15	7	67.49	Yes	126.19	58.70
485	8/17/2020	15	8	75.97	Yes	126.19	50.22
486	8/17/2020	15	9	77.04	Yes	126.19	49.15
487	8/17/2020	15	10	92.97	Yes	126.19	33.22
488	8/17/2020	15	11	89.27	Yes	126.19	36.92
489	8/17/2020	15	12	97.41	Yes	126.19	28.78
490	8/17/2020	16	1	89.22	Yes	126.19	36.97

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491	8/17/2020	16	2	80.80	Yes	126.19	45.39
492	8/17/2020	16	3	67.49	Yes	126.19	58.70
493	8/17/2020	16	4	73.59	Yes	126.19	52.60
494	8/17/2020	16	5	81.79	Yes	126.19	44.40
495	8/17/2020	16	6	81.79	Yes	126.19	44.40
496	8/17/2020	16	7	67.49	Yes	126.19	58.70
497	8/17/2020	16	8	67.49	Yes	126.19	58.70
498	8/17/2020	16	9	67.49	Yes	126.19	58.70
499	8/17/2020	16	10	62.09	Yes	126.19	64.10
500	8/17/2020	16	11	67.49	Yes	126.19	58.70
501	8/17/2020	16	12	70.96	Yes	126.19	55.23
502	8/17/2020	17	1	56.95	Yes	126.19	69.24
503	8/17/2020	17	2	56.02	Yes	126.19	70.17
504	8/17/2020	17	3	51.87	Yes	126.19	74.32
505	8/17/2020	17	4	65.29	Yes	126.19	60.90
506	8/17/2020	17	5	58.39	Yes	126.19	67.80
507	8/17/2020	17	6	65.70	Yes	126.19	60.49
508	8/17/2020	17	7	66.39	Yes	126.19	59.80
509	8/17/2020	17	8	74.45	Yes	126.19	51.74
510	8/17/2020	17	9	70.68	Yes	126.19	55.51
511	8/17/2020	17	10	89.22	Yes	126.19	36.97
512	8/17/2020	17	11	90.14	Yes	126.19	36.05
513	8/17/2020	17	12	105.19	Yes	126.19	21.00
514	8/17/2020	18	1	71.91	Yes	126.19	54.28
515	8/17/2020	18	2	66.36	Yes	126.19	59.83
516	8/17/2020	18	3	65.33	Yes	126.19	60.86
517	8/17/2020	18	4	57.55	Yes	126.19	68.64
518	8/17/2020	18	5	63.62	Yes	126.19	62.57
519	8/17/2020	18	6	65.30	Yes	126.19	60.89
520	8/17/2020	18	7	63.05	Yes	126.19	63.14
521	8/17/2020	18	8	66.39	Yes	126.19	59.80
522	8/17/2020	18	9	66.39	Yes	126.19	59.80
523	8/17/2020	18	10	77.71	Yes	126.19	48.48
524	8/17/2020	18	11	76.00	Yes	126.19	50.19
525	8/17/2020	18	12	96.20	Yes	126.19	29.99
526	8/17/2020	19	1	97.09	Yes	126.19	29.10
527	8/17/2020	19	2	70.00	Yes	126.19	56.19
528	8/17/2020	19	3	80.69	Yes	126.19	45.50

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529	8/17/2020	19	4	82.94	Yes	126.19	43.25
530	8/17/2020	19	5	85.00	Yes	126.19	41.19
531	8/17/2020	19	6	95.00	Yes	126.19	31.19
532	8/17/2020	19	7	150.07	Yes	126.19	-23.88
533	8/17/2020	19	8	150.11	Yes	126.19	-23.92
534	8/17/2020	19	9	150.11	Yes	126.19	-23.92
535	8/17/2020	19	10	125.01	Yes	126.19	1.18
536	8/17/2020	19	11	96.20	Yes	126.19	29.99
537	8/17/2020	19	12	73.99	Yes	126.19	52.20
538	8/17/2020	20	1	54.60	Yes	126.19	71.59
539	8/17/2020	20	2	55.83	Yes	126.19	70.36
540	8/17/2020	20	3	46.57	Yes	126.19	79.62
541	8/17/2020	20	4	47.28	Yes	126.19	78.91
542	8/17/2020	20	5	46.57	Yes	126.19	79.62
543	8/17/2020	20	6	49.61	Yes	126.19	76.58
544	8/17/2020	20	7	51.10	Yes	126.19	75.09
545	8/17/2020	20	8	45.43	Yes	126.19	80.76
546	8/17/2020	20	9	55.82	Yes	126.19	70.37
547	8/17/2020	20	10	56.02	Yes	126.19	70.17
548	8/17/2020	20	11	55.26	Yes	126.19	70.93
549	8/17/2020	20	12	49.71	Yes	126.19	76.48
550	8/17/2020	21	1	56.76	Yes	126.19	69.43
551	8/17/2020	21	2	55.26	Yes	126.19	70.93
552	8/17/2020	21	3	56.27	Yes	126.19	69.92
553	8/17/2020	21	4	57.05	Yes	126.19	69.14
554	8/17/2020	21	5	53.52	Yes	126.19	72.67
555	8/17/2020	21	6	60.47	Yes	126.19	65.72
556	8/17/2020	21	7	84.80	Yes	126.19	41.39
557	8/17/2020	21	8	80.89	Yes	126.19	45.30
558	8/17/2020	21	9	60.90	Yes	85.01	24.11
559	8/17/2020	21	10	73.21	Yes	85.01	11.80
560	8/17/2020	21	11	58.78	Yes	85.01	26.23
561	8/17/2020	21	12	55.82	Yes	85.01	29.19
562	8/17/2020	22	1	66.78	Yes	85.01	18.23
563	8/17/2020	22	2	66.54	Yes	85.01	18.47
564	8/17/2020	22	3	66.54	Yes	85.01	18.48
565	8/17/2020	22	4	66.34	Yes	85.01	18.67
566	8/17/2020	22	5	66.00	Yes	85.01	19.01

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567	8/17/2020	22	6	65.31	Yes	85.01	19.70
568	8/17/2020	22	7	66.36	Yes	85.01	18.65
569	8/17/2020	22	8	66.37	Yes	85.01	18.64
570	8/17/2020	22	9	66.37	Yes	85.01	18.64
571	8/17/2020	22	10	67.80	Yes	85.01	17.21
572	8/17/2020	22	11	66.02	Yes	85.01	18.99
573	8/17/2020	22	12	60.62	Yes	85.01	24.39
574	8/18/2020	11	1	44.50	Yes	184.12	139.62
575	8/18/2020	11	2	50.48	Yes	184.12	133.64
576	8/18/2020	11	3	52.08	Yes	184.12	132.04
577	8/18/2020	11	4	51.75	Yes	184.12	132.37
578	8/18/2020	11	5	48.52	Yes	184.12	135.60
579	8/18/2020	11	6	65.78	Yes	184.12	118.34
580	8/18/2020	11	7	73.13	Yes	184.12	110.99
581	8/18/2020	11	8	73.45	Yes	184.12	110.67
582	8/18/2020	11	9	68.32	Yes	184.12	115.80
583	8/18/2020	11	10	59.93	Yes	184.12	124.19
584	8/18/2020	11	11	67.88	Yes	184.12	116.24
585	8/18/2020	11	12	74.94	Yes	184.12	109.18
586	8/18/2020	12	1	78.16	Yes	102.05	23.89
587	8/18/2020	12	2	75.73	Yes	102.05	26.32
588	8/18/2020	12	3	73.11	Yes	102.05	28.94
589	8/18/2020	12	4	74.26	Yes	102.05	27.79
590	8/18/2020	12	5	77.97	Yes	113.55	35.58
591	8/18/2020	12	6	79.41	Yes	113.55	34.14
592	8/18/2020	12	7	89.46	Yes	113.55	24.09
593	8/18/2020	12	8	95.34	Yes	113.55	18.21
594	8/18/2020	12	9	103.87	Yes	113.55	9.68
595	8/18/2020	12	10	103.30	Yes	113.55	10.25
596	8/18/2020	12	11	92.70	Yes	113.55	20.85
597	8/18/2020	12	12	88.54	Yes	113.55	25.01
598	8/18/2020	13	1	75.33	Yes	195.36	120.03
599	8/18/2020	13	2	77.61	Yes	195.36	117.75
600	8/18/2020	13	3	78.56	Yes	195.36	116.80
601	8/18/2020	13	4	79.15	Yes	195.36	116.21
602	8/18/2020	13	5	80.34	Yes	195.36	115.02
603	8/18/2020	13	6	84.67	Yes	195.36	110.69
604	8/18/2020	13	7	84.20	Yes	195.36	111.16



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605	8/18/2020	13	8	88.95	Yes	195.36	106.41
606	8/18/2020	13	9	98.33	Yes	195.36	97.03
607	8/18/2020	13	10	120.46	Yes	195.36	74.90
608	8/18/2020	13	11	111.57	Yes	195.36	83.79
609	8/18/2020	13	12	103.90	Yes	195.36	91.46
610	8/18/2020	14	1	86.33	Yes	108.28	21.95
611	8/18/2020	14	2	80.52	Yes	108.28	27.76
612	8/18/2020	14	3	83.79	Yes	108.28	24.49
613	8/18/2020	14	4	86.00	Yes	108.28	22.28
614	8/18/2020	14	5	108.08	Yes	108.28	0.20
615	8/18/2020	14	6	138.09	Yes	108.28	-29.81
616	8/18/2020	14	7	184.51	Yes	108.28	-76.23
617	8/18/2020	14	8	249.48	Yes	108.28	-141.20
618	8/18/2020	14	9	138.79	Yes	108.28	-30.51
619	8/18/2020	14	10	127.61	Yes	108.28	-19.33
620	8/18/2020	14	11	118.45	Yes	108.28	-10.17
621	8/18/2020	14	12	150.96	Yes	108.28	-42.68
622	8/18/2020	15	1	85.19	Yes	108.28	23.09
623	8/18/2020	15	2	81.99	Yes	108.28	26.29
624	8/18/2020	15	3	85.91	Yes	108.28	22.37
625	8/18/2020	15	4	79.01	Yes	108.28	29.27
626	8/18/2020	15	5	79.88	Yes	108.28	28.40
627	8/18/2020	15	6	79.88	Yes	108.28	28.40
628	8/18/2020	15	7	80.50	Yes	108.28	27.78
629	8/18/2020	15	8	81.78	Yes	108.28	26.50
630	8/18/2020	15	9	130.05	Yes	108.28	-21.77
631	8/18/2020	15	10	144.58	Yes	108.28	-36.30
632	8/18/2020	15	11	180.37	Yes	108.28	-72.09
633	8/18/2020	15	12	139.92	Yes	108.28	-31.64
634	8/18/2020	16	1	145.89	Yes	108.28	-37.61
635	8/18/2020	16	2	104.71	Yes	108.28	3.57
636	8/18/2020	16	3	119.55	Yes	108.28	-11.27
637	8/18/2020	16	4	665.73	Yes	108.28	-557.45
638	8/18/2020	16	5	979.60	Yes	108.28	-871.32
639	8/18/2020	16	6	1030.20	Yes	108.28	-921.92
640	8/18/2020	16	7	331.28	Yes	108.28	-223.00
641	8/18/2020	16	8	148.88	Yes	108.28	-40.60
642	8/18/2020	16	9	262.73	Yes	108.28	-154.45

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643	8/18/2020	16	10	1020.81	Yes	108.28	-912.53
644	8/18/2020	16	11	1020.81	Yes	108.28	-912.53
645	8/18/2020	16	12	1020.81	Yes	108.28	-912.53
646	8/18/2020	17	1	1004.89	Yes	108.28	-896.61
647	8/18/2020	17	2	1015.60	Yes	108.28	-907.32
648	8/18/2020	17	3	1027.00	Yes	108.28	-918.72
649	8/18/2020	17	4	1022.70	Yes	108.28	-914.42
650	8/18/2020	17	5	1022.70	Yes	108.28	-914.42
651	8/18/2020	17	6	1087.86	Yes	108.28	-979.58
652	8/18/2020	17	7	137.46	Yes	108.28	-29.18
653	8/18/2020	17	8	1015.46	Yes	108.28	-907.18
654	8/18/2020	17	9	1015.46	Yes	108.28	-907.18
655	8/18/2020	17	10	1018.30	Yes	108.28	-910.02
656	8/18/2020	17	11	1018.30	Yes	108.28	-910.02
657	8/18/2020	17	12	1015.40	Yes	108.28	-907.12
658	8/18/2020	18	1	1005.58	Yes	108.28	-897.30
659	8/18/2020	18	2	977.09	Yes	108.28	-868.81
660	8/18/2020	18	3	980.91	Yes	108.28	-872.63
661	8/18/2020	18	4	98.41	Yes	108.28	9.87
662	8/18/2020	18	5	100.82	Yes	108.28	7.46
663	8/18/2020	18	6	112.52	Yes	108.28	-4.24
664	8/18/2020	18	7	119.33	Yes	108.28	-11.05
665	8/18/2020	18	8	133.53	Yes	108.28	-25.25
666	8/18/2020	18	9	250.00	Yes	108.28	-141.72
667	8/18/2020	18	10	119.67	Yes	108.28	-11.39
668	8/18/2020	18	11	98.11	Yes	108.28	10.17
669	8/18/2020	18	12	94.93	Yes	108.28	13.35
670	8/18/2020	19	1	69.76	Yes	108.28	38.52
671	8/18/2020	19	2	67.16	Yes	108.28	41.12
672	8/18/2020	19	3	73.14	Yes	108.28	35.14
673	8/18/2020	19	4	76.62	Yes	108.28	31.66
674	8/18/2020	19	5	79.54	Yes	108.28	28.74
675	8/18/2020	19	6	79.12	Yes	108.28	29.16
676	8/18/2020	19	7	67.06	Yes	108.28	41.22
677	8/18/2020	19	8	76.49	Yes	108.28	31.79
678	8/18/2020	19	9	76.49	Yes	108.28	31.79
679	8/18/2020	19	10	66.88	Yes	108.28	41.40
680	8/18/2020	19	11	71.58	Yes	108.28	36.70

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681	8/18/2020	19	12	75.06	Yes	108.28	33.22
682	8/18/2020	20	1	76.33	Yes	108.28	31.95
683	8/18/2020	20	2	75.38	Yes	108.28	32.90
684	8/18/2020	20	3	70.84	Yes	108.28	37.44
685	8/18/2020	20	4	68.54	Yes	108.28	39.74
686	8/18/2020	20	5	70.07	Yes	108.28	38.21
687	8/18/2020	20	6	76.83	Yes	108.28	31.45
688	8/18/2020	20	7	75.10	Yes	108.28	33.18
689	8/18/2020	20	8	70.76	Yes	108.28	37.52
690	8/18/2020	20	9	71.61	Yes	108.28	36.67
691	8/18/2020	20	10	72.51	Yes	108.28	35.77
692	8/18/2020	20	11	73.90	Yes	108.28	34.38
693	8/18/2020	20	12	72.29	Yes	108.28	35.99
694	8/18/2020	21	1	78.40	Yes	108.28	29.88
695	8/18/2020	21	2	79.87	Yes	108.28	28.41
696	8/18/2020	21	3	78.51	Yes	108.28	29.77
697	8/18/2020	21	4	83.96	Yes	108.28	24.32
698	8/18/2020	21	5	80.74	Yes	108.28	27.54
699	8/18/2020	21	6	78.69	Yes	108.28	29.59
700	8/18/2020	21	7	79.11	Yes	108.28	29.17
701	8/18/2020	21	8	78.82	Yes	108.28	29.46
702	8/18/2020	21	9	77.56	Yes	108.28	30.72
703	8/18/2020	21	10	74.80	Yes	108.28	33.48
704	8/18/2020	21	11	73.01	Yes	108.28	35.27
705	8/18/2020	21	12	75.61	Yes	108.28	32.67
706	8/18/2020	22	1	78.70	Yes	108.28	29.58
707	8/18/2020	22	2	78.12	Yes	108.28	30.16
708	8/18/2020	22	3	77.38	Yes	108.28	30.90
709	8/18/2020	22	4	78.59	Yes	108.28	29.69
710	8/18/2020	22	5	78.59	Yes	108.28	29.69
711	8/18/2020	22	6	78.26	Yes	108.28	30.02
712	8/18/2020	22	7	79.26	Yes	108.28	29.02
713	8/18/2020	22	8	77.75	Yes	108.28	30.53
714	8/18/2020	22	9	76.08	Yes	108.28	32.20
715	8/18/2020	22	10	76.32	Yes	108.28	31.96
716	8/18/2020	22	11	74.27	Yes	108.28	34.01
717	8/18/2020	22	12	72.26	Yes	108.28	36.02
718	8/18/2020	23	1	78.25	Yes	195.70	117.45

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719	8/18/2020	23	2	78.20	Yes	195.70	117.50
720	8/18/2020	23	3	75.61	Yes	195.70	120.10
721	8/18/2020	23	4	77.13	Yes	195.70	118.57
722	8/18/2020	23	5	77.10	Yes	195.70	118.60
723	8/18/2020	23	6	74.49	Yes	195.70	121.21
724	8/18/2020	23	7	72.50	Yes	195.70	123.20
725	8/18/2020	23	8	72.69	Yes	195.70	123.01
726	8/18/2020	23	9	70.17	Yes	195.70	125.53
727	8/18/2020	23	10	68.07	Yes	195.70	127.63
728	8/18/2020	23	11	60.89	Yes	195.70	134.81
729	8/18/2020	23	12	58.25	Yes	195.70	137.45
730	8/19/2020	11	8	47.60	Yes	123.51	75.91
731	8/19/2020	11	9	47.51	Yes	123.51	76.00
732	8/19/2020	11	10	47.64	Yes	123.51	75.87
733	8/19/2020	11	11	47.67	Yes	123.51	75.84
734	8/19/2020	11	12	47.87	Yes	123.51	75.64
735	8/19/2020	12	1	48.01	Yes	123.51	75.50
736	8/19/2020	12	2	47.56	Yes	123.51	75.95
737	8/19/2020	12	3	47.76	Yes	123.51	75.75
738	8/19/2020	12	4	46.32	Yes	123.51	77.19
739	8/19/2020	12	5	46.11	Yes	123.51	77.40
740	8/19/2020	12	6	46.93	Yes	123.51	76.58
741	8/19/2020	12	7	47.84	Yes	125.57	77.73
742	8/19/2020	12	8	47.83	Yes	125.57	77.74
743	8/19/2020	12	9	47.83	Yes	125.57	77.74
744	8/19/2020	12	10	51.63	Yes	125.57	73.94
745	8/19/2020	12	11	48.54	Yes	125.57	77.03
746	8/19/2020	12	12	52.25	Yes	125.57	73.32
747	8/19/2020	13	1	49.17	Yes	125.57	76.40
748	8/19/2020	13	2	48.73	Yes	125.57	76.84
749	8/19/2020	13	3	50.71	Yes	125.57	74.86
750	8/19/2020	13	4	51.47	Yes	125.57	74.10
751	8/19/2020	13	5	60.78	Yes	125.57	64.79
752	8/19/2020	13	6	58.82	Yes	125.57	66.75
753	8/19/2020	13	7	55.60	Yes	125.57	69.97
754	8/19/2020	13	8	58.01	Yes	125.57	67.56
755	8/19/2020	13	9	61.28	Yes	125.57	64.29
756	8/19/2020	13	10	68.28	Yes	125.57	57.29

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757	8/19/2020	13	11	69.58	Yes	125.57	55.99
758	8/19/2020	13	12	73.47	Yes	125.57	52.10
759	8/19/2020	14	1	60.10	Yes	125.57	65.47
760	8/19/2020	14	2	57.84	Yes	125.57	67.73
761	8/19/2020	14	3	57.15	Yes	125.57	68.42
762	8/19/2020	14	4	54.06	Yes	125.57	71.51
763	8/19/2020	14	5	59.52	Yes	83.40	23.88
764	8/19/2020	14	6	58.60	Yes	125.57	66.97
765	8/19/2020	14	7	59.44	Yes	83.40	23.96
766	8/19/2020	14	8	59.46	Yes	83.40	23.94
767	8/19/2020	14	9	59.89	Yes	83.40	23.51
768	8/19/2020	14	10	58.55	Yes	83.40	24.85
769	8/19/2020	14	11	60.32	Yes	125.57	65.25
770	8/19/2020	14	12	62.37	Yes	125.57	63.20
771	8/19/2020	15	1	53.55	Yes	83.40	29.85
772	8/19/2020	15	2	57.81	Yes	125.41	67.60
773	8/19/2020	15	3	53.85	Yes	125.41	71.56
774	8/19/2020	15	4	54.11	Yes	125.41	71.30
775	8/19/2020	15	5	54.11	Yes	125.41	71.30
776	8/19/2020	15	6	57.13	Yes	125.41	68.28
777	8/19/2020	15	7	61.64	Yes	125.41	63.77
778	8/19/2020	15	8	81.02	Yes	125.41	44.39
779	8/19/2020	15	9	102.60	Yes	125.41	22.81
780	8/19/2020	15	10	400.71	Yes	125.41	-275.30
781	8/19/2020	15	11	523.03	Yes	125.41	-397.62
782	8/19/2020	15	12	598.20	Yes	97.19	-501.01
783	8/19/2020	16	1	592.64	Yes	58.68	-533.96
784	8/19/2020	16	2	353.79	Yes	58.68	-295.11
785	8/19/2020	16	3	255.16	Yes	58.68	-196.48
786	8/19/2020	16	4	68.46	Yes	58.68	-9.78
787	8/19/2020	16	5	75.83	Yes	58.68	-17.15
788	8/19/2020	16	6	74.45	Yes	58.68	-15.77
789	8/19/2020	16	7	74.40	Yes	58.68	-15.72
790	8/19/2020	16	8	64.81	Yes	58.68	-6.13
791	8/19/2020	16	9	62.50	Yes	58.68	-3.82
792	8/19/2020	16	10	62.44	Yes	58.68	-3.76
793	8/19/2020	16	11	76.94	Yes	58.68	-18.26
794	8/19/2020	16	12	72.48	Yes	58.68	-13.80

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795	8/19/2020	17	1	61.20	Yes	58.68	-2.52
796	8/19/2020	17	2	61.33	Yes	58.68	-2.65
797	8/19/2020	17	3	61.19	Yes	58.68	-2.51
798	8/19/2020	17	4	61.10	Yes	58.68	-2.42
799	8/19/2020	17	5	64.04	Yes	58.68	-5.36
800	8/19/2020	17	6	61.05	Yes	58.68	-2.37
801	8/19/2020	17	7	63.86	Yes	58.68	-5.18
802	8/19/2020	17	8	61.08	Yes	58.68	-2.40
803	8/19/2020	17	9	60.45	Yes	58.68	-1.77
804	8/19/2020	17	10	60.72	Yes	58.68	-2.04
805	8/19/2020	17	11	61.02	Yes	58.68	-2.34
806	8/19/2020	17	12	68.18	Yes	58.68	-9.50
807	8/19/2020	18	1	58.37	Yes	58.68	0.31
808	8/19/2020	18	2	51.53	Yes	58.68	7.15
809	8/19/2020	18	3	51.51	Yes	58.68	7.17
810	8/19/2020	18	4	50.94	Yes	58.68	7.74
811	8/19/2020	18	5	51.52	Yes	58.68	7.16
812	8/19/2020	18	6	57.39	Yes	58.68	1.29
813	8/19/2020	18	7	58.53	Yes	58.68	0.15
814	8/19/2020	18	8	60.92	Yes	58.68	-2.24
815	8/19/2020	18	9	63.11	Yes	58.68	-4.43
816	8/19/2020	18	10	64.07	Yes	58.68	-5.39
817	8/19/2020	18	11	66.57	Yes	58.68	-7.89
818	8/19/2020	18	12	63.13	Yes	58.68	-4.45
819	8/19/2020	19	1	60.26	Yes	58.68	-1.58
820	8/19/2020	19	2	59.53	Yes	58.68	-0.85
821	8/19/2020	19	3	59.76	Yes	58.68	-1.08
822	8/19/2020	19	4	59.70	Yes	58.68	-1.02
823	8/19/2020	19	5	60.74	Yes	58.68	-2.06
824	8/19/2020	19	6	60.81	Yes	58.68	-2.13
825	8/19/2020	19	7	62.81	Yes	58.68	-4.13
826	8/19/2020	19	8	69.29	Yes	58.68	-10.61
827	8/19/2020	19	9	73.05	Yes	58.68	-14.37
828	8/19/2020	19	10	67.41	Yes	58.68	-8.73
829	8/19/2020	19	11	60.74	Yes	58.68	-2.06
830	8/19/2020	19	12	60.64	Yes	58.68	-1.96
831	8/19/2020	20	1	60.93	Yes	58.68	-2.25
832	8/19/2020	20	2	60.95	Yes	58.68	-2.27

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833	8/19/2020	20	3	60.98	Yes	58.68	-2.30
834	8/19/2020	20	4	60.49	Yes	58.68	-1.81
835	8/19/2020	20	5	60.99	Yes	58.68	-2.31
836	8/19/2020	20	6	61.00	Yes	58.68	-2.32
837	8/19/2020	20	7	60.93	Yes	58.68	-2.25
838	8/19/2020	20	8	60.92	Yes	58.68	-2.24
839	8/19/2020	20	9	60.89	Yes	58.68	-2.21
840	8/19/2020	20	10	73.87	Yes	58.68	-15.19
841	8/19/2020	20	11	73.58	Yes	58.68	-14.90
842	8/19/2020	20	12	77.82	Yes	58.68	-19.14
843	8/22/2020	15	6	95.82	Yes	72.73	-23.09
844	8/22/2020	15	7	174.52	Yes	68.95	-105.57
845	8/22/2020	15	8	126.84	Yes	74.95	-51.89
846	8/22/2020	15	10	60.29	Yes	57.94	-2.35
847	8/22/2020	15	11	69.42	Yes	57.94	-11.48
848	8/22/2020	15	12	90.41	Yes	58.10	-32.31
849	8/22/2020	16	1	44.01	Yes	57.94	13.93
850	8/22/2020	16	2	66.08	Yes	94.27	28.19
851	8/22/2020	16	3	67.45	Yes	94.27	26.82
852	8/22/2020	16	4	41.40	Yes	94.27	52.87
853	8/22/2020	16	5	42.62	Yes	94.27	51.65
854	8/22/2020	16	6	44.31	Yes	94.27	49.96
855	8/22/2020	16	7	42.27	Yes	94.27	52.00
856	8/22/2020	16	8	42.05	Yes	94.27	52.22
857	8/22/2020	16	9	41.79	Yes	94.27	52.48
858	8/22/2020	16	10	42.43	Yes	94.27	51.84
859	8/22/2020	16	11	42.28	Yes	94.27	51.99
860	8/22/2020	16	12	45.70	Yes	94.27	48.57
861	8/22/2020	17	1	42.19	Yes	94.27	52.08
862	8/22/2020	17	2	41.22	Yes	94.27	53.05
863	8/22/2020	17	3	40.82	Yes	94.27	53.45
864	8/22/2020	17	4	40.65	Yes	94.27	53.62
865	8/22/2020	17	5	40.82	Yes	94.27	53.45
866	8/22/2020	17	6	42.32	Yes	94.27	51.95
867	8/22/2020	17	7	42.34	Yes	94.27	51.93
868	8/22/2020	17	8	42.34	Yes	94.27	51.93
869	8/22/2020	17	9	42.34	Yes	94.27	51.93
870	8/22/2020	17	10	41.82	Yes	94.27	52.45

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871	8/22/2020	17	11	42.32	Yes	94.27	51.95
872	8/22/2020	17	12	42.33	Yes	94.27	51.94
873	8/22/2020	18	1	44.02	Yes	94.27	50.25
874	8/22/2020	18	2	41.39	Yes	94.27	52.88
875	8/22/2020	18	3	40.88	Yes	94.27	53.39
876	8/22/2020	18	4	40.58	Yes	94.27	53.69
877	8/22/2020	18	5	40.86	Yes	94.27	53.41
878	8/22/2020	18	6	42.11	Yes	94.27	52.16
879	8/22/2020	18	7	41.40	Yes	94.27	52.87
880	8/22/2020	18	8	48.56	Yes	94.27	45.71
881	8/22/2020	18	9	48.56	Yes	94.27	45.71
882	8/22/2020	18	10	50.19	Yes	94.27	44.08
883	8/22/2020	18	11	53.05	Yes	94.27	41.22
884	8/22/2020	18	12	52.81	Yes	94.27	41.46
885	8/22/2020	19	1	41.37	Yes	94.27	52.90
886	8/22/2020	19	2	41.37	Yes	94.27	52.90
887	8/22/2020	19	3	41.41	Yes	94.27	52.86
888	8/22/2020	19	4	41.36	Yes	94.27	52.91
889	8/22/2020	19	5	41.68	Yes	94.27	52.59
890	8/22/2020	19	6	42.01	Yes	94.27	52.26
891	8/22/2020	19	7	41.74	Yes	94.27	52.53
892	8/22/2020	19	8	42.85	Yes	94.27	51.42
893	8/22/2020	19	9	43.57	Yes	94.27	50.70
894	8/22/2020	19	10	41.74	Yes	94.27	52.53
895	8/22/2020	19	11	41.74	Yes	94.27	52.53
896	8/22/2020	19	12	41.34	Yes	94.27	52.93
897	8/22/2020	20	1	45.00	Yes	94.27	49.27
898	8/22/2020	20	2	41.85	Yes	94.27	52.42
899	8/22/2020	20	3	41.85	Yes	94.27	52.42
900	8/22/2020	20	4	41.42	Yes	94.27	52.85
901	8/22/2020	20	5	41.34	Yes	94.27	52.93
902	8/22/2020	20	6	40.80	Yes	94.27	53.47
903	8/22/2020	20	7	40.79	Yes	94.27	53.48
904	8/22/2020	20	8	40.09	Yes	94.27	54.18
905	8/22/2020	20	9	37.76	Yes	94.27	56.51
906	8/22/2020	20	10	37.93	Yes	94.27	56.34
907	8/22/2020	20	11	37.23	Yes	94.27	57.04
908	8/22/2020	20	12	36.37	Yes	94.27	57.90



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909	8/22/2020	21	1	41.48	Yes	57.94	16.46
910	8/22/2020	21	2	41.48	Yes	57.94	16.46
911	8/22/2020	21	3	40.85	Yes	57.94	17.09
912	8/22/2020	21	4	41.43	Yes	57.94	16.51
913	8/22/2020	21	5	41.39	Yes	57.94	16.55
914	8/22/2020	21	6	38.75	Yes	57.94	19.19
915	8/22/2020	21	7	36.96	Yes	57.94	20.98
916	8/22/2020	21	8	36.94	Yes	57.94	21.00
917	8/22/2020	21	9	36.78	Yes	57.94	21.16
918	8/22/2020	21	10	36.13	Yes	57.94	21.81
919	8/22/2020	21	11	35.16	Yes	57.94	22.78
920	8/22/2020	21	12	33.90	Yes	57.94	24.04
921	8/23/2020	15	6	45.19	Yes	57.94	12.75
922	8/23/2020	15	7	44.29	Yes	57.94	13.65
923	8/23/2020	15	8	42.71	Yes	57.94	15.23
924	8/23/2020	15	9	44.29	Yes	57.94	13.65
925	8/23/2020	15	10	46.65	Yes	57.94	11.29
926	8/23/2020	15	11	47.51	Yes	57.94	10.43
927	8/23/2020	15	12	47.54	Yes	57.94	10.40
928	8/23/2020	16	1	38.72	Yes	57.94	19.22
929	8/23/2020	16	2	42.37	Yes	57.94	15.57
930	8/23/2020	16	3	38.83	Yes	57.94	19.11
931	8/23/2020	16	4	43.57	Yes	57.94	14.37
932	8/23/2020	16	5	47.25	Yes	57.94	10.69
933	8/23/2020	16	6	46.79	Yes	57.94	11.15
934	8/23/2020	16	7	46.05	Yes	57.94	11.89
935	8/23/2020	16	8	46.08	Yes	57.94	11.86
936	8/23/2020	16	9	46.08	Yes	57.94	11.86
937	8/23/2020	16	10	41.31	Yes	57.94	16.63
938	8/23/2020	16	11	46.02	Yes	57.94	11.92
939	8/23/2020	16	12	42.10	Yes	57.94	15.84
940	8/23/2020	17	1	38.71	Yes	57.94	19.23
941	8/23/2020	17	2	34.53	Yes	57.94	23.41
942	8/23/2020	17	3	35.80	Yes	57.94	22.14
943	8/23/2020	17	4	35.84	Yes	101.04	65.20
944	8/23/2020	17	5	36.68	Yes	101.04	64.36
945	8/23/2020	17	6	38.66	Yes	101.04	62.38
946	8/23/2020	17	7	37.75	Yes	101.04	63.29

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947	8/23/2020	17	8	38.67	Yes	101.04	62.37
948	8/23/2020	17	9	39.16	Yes	101.04	61.88
949	8/23/2020	17	10	44.23	Yes	101.04	56.81
950	8/23/2020	17	11	50.18	Yes	101.04	50.86
951	8/23/2020	17	12	78.12	Yes	101.04	22.92
952	8/23/2020	18	1	41.37	Yes	57.94	16.57
953	8/23/2020	18	2	41.37	Yes	57.94	16.57
954	8/23/2020	18	3	41.80	Yes	57.94	16.14
955	8/23/2020	18	4	40.79	Yes	57.94	17.15
956	8/23/2020	18	5	41.41	Yes	57.94	16.53
957	8/23/2020	18	6	41.67	Yes	57.94	16.27
958	8/23/2020	18	7	41.49	Yes	101.04	59.55
959	8/23/2020	18	8	41.95	Yes	101.04	59.09
960	8/23/2020	18	9	42.15	Yes	101.04	58.89
961	8/23/2020	18	10	43.65	Yes	101.04	57.39
962	8/23/2020	18	11	44.72	Yes	101.04	56.32
963	8/23/2020	18	12	47.86	Yes	101.04	53.18
964	8/23/2020	19	1	41.89	Yes	101.04	59.15
965	8/23/2020	19	2	42.12	Yes	101.04	58.92
966	8/23/2020	19	3	42.12	Yes	101.04	58.92
967	8/23/2020	19	4	42.02	Yes	101.04	59.02
968	8/23/2020	19	5	42.02	Yes	101.04	59.02
969	8/23/2020	19	6	45.55	Yes	101.04	55.49
970	8/23/2020	19	7	49.24	Yes	101.04	51.80
971	8/23/2020	19	8	49.18	Yes	57.94	8.76
972	8/23/2020	19	9	50.51	Yes	57.94	7.43
973	8/23/2020	19	10	50.41	Yes	57.94	7.53
974	8/23/2020	19	11	49.11	Yes	57.94	8.83
975	8/23/2020	19	12	48.73	Yes	57.94	9.21
976	8/23/2020	20	1	53.52	Yes	57.94	4.42
977	8/23/2020	20	2	47.91	Yes	57.94	10.03
978	8/23/2020	20	3	45.91	Yes	57.94	12.03
979	8/23/2020	20	4	47.32	Yes	57.94	10.62
980	8/23/2020	20	5	46.91	Yes	101.04	54.13
981	8/23/2020	20	6	44.87	Yes	101.04	56.17
982	8/23/2020	20	7	44.22	Yes	101.04	56.82
983	8/23/2020	20	8	46.20	Yes	101.04	54.84
984	8/23/2020	20	9	42.28	Yes	101.04	58.76

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985	8/23/2020	20	10	43.24	Yes	101.04	57.80
986	8/23/2020	20	11	43.43	Yes	101.04	57.61
987	8/23/2020	20	12	42.29	Yes	101.04	58.75
988	8/23/2020	21	1	48.25	Yes	57.94	9.69
989	8/23/2020	21	2	45.65	Yes	57.94	12.29
990	8/23/2020	21	3	47.88	Yes	57.94	10.06
991	8/23/2020	21	4	57.97	Yes	57.94	-0.03
992	8/23/2020	21	5	49.90	Yes	57.94	8.04
993	8/23/2020	21	6	47.52	Yes	57.94	10.42
994	8/23/2020	21	7	50.10	Yes	57.94	7.84
995	8/23/2020	21	8	49.98	Yes	57.94	7.96
996	8/23/2020	21	9	49.06	Yes	57.94	8.88
997	8/23/2020	21	10	54.18	Yes	57.94	3.76
998	8/23/2020	21	11	51.41	Yes	57.94	6.53
999	8/23/2020	21	12	46.67	Yes	57.94	11.27
1000	8/24/2020	15	1	65.41	Yes	27.47	-37.94
1001	8/24/2020	15	2	69.05	Yes	27.47	-41.58
1002	8/24/2020	15	3	67.56	Yes	27.47	-40.09
1003	8/24/2020	15	4	68.40	Yes	27.47	-40.93
1004	8/24/2020	15	5	150.28	Yes	27.47	-122.81
1005	8/24/2020	15	6	154.80	Yes	27.47	-127.33
1006	8/24/2020	15	7	530.05	Yes	27.47	-502.58
1007	8/24/2020	15	8	528.36	Yes	27.47	-500.89
1008	8/24/2020	15	9	531.98	Yes	27.47	-504.51
1009	8/24/2020	15	10	121.87	Yes	27.47	-94.40
1010	8/24/2020	15	11	85.39	Yes	27.47	-57.92
1011	8/24/2020	15	12	120.03	Yes	27.47	-92.56
1012	8/24/2020	16	1	83.86	Yes	27.47	-56.39
1013	8/24/2020	16	2	170.56	Yes	27.47	-143.09
1014	8/24/2020	16	3	166.05	Yes	27.47	-138.58
1015	8/25/2020	15	1	44.72	Yes	38.05	-6.67
1016	8/25/2020	15	2	40.44	Yes	38.05	-2.39
1017	8/25/2020	15	3	37.44	Yes	38.05	0.61
1018	8/25/2020	15	4	38.88	Yes	38.05	-0.83
1019	8/25/2020	15	5	40.36	Yes	38.05	-2.31
1020	8/25/2020	15	6	40.35	Yes	38.05	-2.30
1021	8/25/2020	15	7	38.90	Yes	38.05	-0.85
1022	8/25/2020	15	8	39.86	Yes	38.05	-1.81

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1023	8/25/2020	15	9	43.09	Yes	38.05	-5.04
1024	8/25/2020	15	10	43.02	Yes	38.05	-4.97
1025	8/25/2020	15	11	46.81	Yes	38.05	-8.76
1026	8/25/2020	15	12	38.60	Yes	38.05	-0.55
1027	8/25/2020	16	1	38.60	Yes	38.05	-0.55
1028	8/25/2020	16	2	38.63	Yes	38.05	-0.58
1029	8/25/2020	16	3	38.65	Yes	38.05	-0.60
1030	8/25/2020	16	4	39.30	Yes	38.05	-1.25
1031	8/25/2020	16	5	40.38	Yes	38.05	-2.33
1032	8/25/2020	16	6	42.89	Yes	38.05	-4.84
1033	8/25/2020	16	7	40.04	Yes	38.05	-1.99
1034	8/25/2020	16	8	42.20	Yes	38.05	-4.15
1035	8/25/2020	16	9	42.20	Yes	38.05	-4.15
1036	8/25/2020	16	10	37.45	Yes	38.05	0.60
1037	8/25/2020	16	11	38.24	Yes	38.05	-0.19
1038	8/25/2020	16	12	37.51	Yes	38.05	0.54
1039	8/25/2020	17	1	39.30	Yes	38.05	-1.25
1040	8/25/2020	17	2	38.89	Yes	38.05	-0.84
1041	8/25/2020	17	3	40.35	Yes	38.05	-2.30
1042	8/25/2020	17	4	38.57	Yes	38.05	-0.52
1043	8/25/2020	17	5	42.01	Yes	38.05	-3.96
1044	8/25/2020	17	6	41.86	Yes	38.05	-3.81
1045	8/25/2020	17	7	38.30	Yes	38.05	-0.25
1046	8/25/2020	17	8	39.14	Yes	38.05	-1.09
1047	8/25/2020	17	9	39.68	Yes	38.05	-1.63
1048	8/25/2020	17	10	44.61	Yes	38.05	-6.56
1049	8/25/2020	17	11	43.10	Yes	38.05	-5.05
1050	8/25/2020	17	12	45.43	Yes	38.05	-7.38
1051	8/25/2020	18	1	46.35	Yes	38.05	-8.30
1052	8/25/2020	18	2	45.42	Yes	38.05	-7.37
1053	8/25/2020	18	3	45.40	Yes	38.05	-7.35
1054	8/25/2020	18	4	44.77	Yes	38.05	-6.72
1055	8/25/2020	18	5	44.87	Yes	38.05	-6.82
1056	8/25/2020	18	6	45.46	Yes	38.05	-7.41
1057	8/25/2020	18	7	44.70	Yes	38.05	-6.65
1058	8/25/2020	18	8	45.41	Yes	38.05	-7.36
1059	8/25/2020	18	9	46.56	Yes	38.05	-8.51
1060	8/25/2020	18	10	48.69	Yes	38.05	-10.64

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1061	8/25/2020	18	11	48.53	Yes	38.05	-10.48
1062	8/25/2020	18	12	47.51	Yes	38.05	-9.46
1063	8/25/2020	19	1	51.17	Yes	38.05	-13.12
1064	8/25/2020	19	2	53.03	Yes	38.05	-14.98
1065	8/25/2020	19	3	52.74	Yes	38.05	-14.69
1066	8/25/2020	19	4	49.52	Yes	38.05	-11.47
1067	8/25/2020	19	5	53.03	Yes	38.05	-14.98
1068	8/25/2020	19	6	57.23	Yes	38.05	-19.18
1069	8/25/2020	19	7	52.80	Yes	38.05	-14.75
1070	8/25/2020	19	8	55.14	Yes	38.05	-17.09
1071	8/25/2020	19	9	58.72	Yes	38.05	-20.67
1072	8/25/2020	19	10	54.45	Yes	38.05	-16.40
1073	8/25/2020	19	11	55.14	Yes	38.05	-17.09
1074	8/25/2020	19	12	53.43	Yes	38.05	-15.38
1075	8/25/2020	20	1	50.68	Yes	38.05	-12.63
1076	8/25/2020	20	2	48.27	Yes	38.05	-10.22
1077	8/25/2020	20	3	49.00	Yes	38.05	-10.95
1078	8/25/2020	20	4	47.07	Yes	38.05	-9.02
1079	8/25/2020	20	5	46.30	Yes	38.05	-8.25
1080	8/25/2020	20	6	46.10	Yes	38.05	-8.05
1081	8/25/2020	20	7	46.27	Yes	38.05	-8.22
1082	8/25/2020	20	8	46.22	Yes	38.05	-8.17
1083	8/25/2020	20	9	46.22	Yes	38.05	-8.17
1084	8/25/2020	20	10	50.72	Yes	38.05	-12.67
1085	8/25/2020	20	11	47.87	Yes	38.05	-9.82
1086	8/25/2020	20	12	47.47	Yes	38.05	-9.42
1087	8/25/2020	21	1	54.20	Yes	38.05	-16.15
1088	8/25/2020	21	2	55.25	Yes	38.05	-17.20
1089	8/25/2020	21	3	54.88	Yes	38.05	-16.83
1090	8/25/2020	21	4	54.22	Yes	38.05	-16.17
1091	8/25/2020	21	5	53.42	Yes	38.05	-15.37
1092	8/25/2020	21	6	51.48	Yes	38.05	-13.43
1093	8/25/2020	21	7	55.76	Yes	38.05	-17.71
1094	8/25/2020	21	8	55.53	Yes	38.05	-17.48
1095	8/25/2020	21	9	51.42	Yes	38.05	-13.37
1096	8/25/2020	21	10	48.25	Yes	38.05	-10.20
1097	8/25/2020	21	11	45.72	Yes	38.05	-7.67
1098	8/25/2020	21	12	45.71	Yes	38.05	-7.66

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1099	8/25/2020	22	1	52.91	Yes	60.45	7.54
1100	8/25/2020	22	2	48.17	Yes	60.45	12.28
1101	8/25/2020	22	3	45.33	Yes	60.45	15.12
1102	8/25/2020	22	4	40.67	Yes	60.45	19.78
1103	8/25/2020	22	5	40.69	Yes	60.45	19.76
1104	8/25/2020	22	6	40.63	Yes	60.45	19.82
1105	8/25/2020	22	7	40.58	Yes	60.45	19.87
1106	8/25/2020	22	8	40.25	Yes	60.45	20.20
1107	8/25/2020	22	9	39.33	Yes	60.45	21.12
1108	8/25/2020	22	10	38.14	Yes	60.45	22.31
1109	8/25/2020	22	11	37.14	Yes	60.45	23.31
1110	8/25/2020	22	12	33.50	Yes	60.45	26.95
1111	8/26/2020	16	1	51.51	Yes	26.45	-25.06
1112	8/26/2020	16	2	43.50	Yes	26.45	-17.05
1113	8/26/2020	16	3	49.56	Yes	26.45	-23.11
1114	8/26/2020	16	4	47.31	Yes	26.45	-20.86
1115	8/26/2020	16	5	46.21	Yes	26.45	-19.76
1116	8/26/2020	16	6	43.00	Yes	26.45	-16.55
1117	8/26/2020	16	7	43.37	Yes	26.45	-16.92
1118	8/26/2020	16	8	42.72	Yes	26.45	-16.27
1119	8/26/2020	16	9	88.38	Yes	26.45	-61.93
1120	8/26/2020	16	10	41.03	Yes	26.45	-14.58
1121	8/26/2020	16	11	41.05	Yes	26.45	-14.60
1122	8/26/2020	16	12	41.07	Yes	26.45	-14.62
1123	8/26/2020	17	1	40.56	Yes	26.45	-14.11
1124	8/26/2020	17	2	40.26	Yes	26.45	-13.81
1125	8/26/2020	17	3	40.56	Yes	26.45	-14.11
1126	8/26/2020	17	4	38.07	Yes	26.45	-11.62
1127	8/26/2020	17	5	39.64	Yes	26.45	-13.19
1128	8/26/2020	17	6	40.57	Yes	26.45	-14.12
1129	8/26/2020	17	7	42.30	Yes	26.45	-15.85
1130	8/26/2020	17	8	40.08	Yes	26.45	-13.63
1131	8/26/2020	17	9	40.95	Yes	26.45	-14.50
1132	8/26/2020	17	10	40.84	Yes	26.45	-14.39
1133	8/26/2020	17	11	43.96	Yes	26.45	-17.51
1134	8/26/2020	17	12	43.14	Yes	26.45	-16.69
1135	8/26/2020	18	1	43.92	Yes	26.45	-17.47
1136	8/26/2020	18	2	39.40	Yes	26.45	-12.95

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1137	8/26/2020	18	3	39.40	Yes	26.45	-12.95
1138	8/26/2020	18	4	39.22	Yes	26.45	-12.77
1139	8/26/2020	18	5	40.73	Yes	26.45	-14.28
1140	8/26/2020	18	6	48.67	Yes	26.45	-22.22
1141	8/26/2020	18	7	42.02	Yes	26.45	-15.57
1142	8/26/2020	18	8	47.55	Yes	26.45	-21.10
1143	8/26/2020	18	9	52.48	Yes	26.45	-26.03
1144	8/26/2020	18	10	48.81	Yes	26.45	-22.36
1145	8/26/2020	18	11	53.60	Yes	26.45	-27.15
1146	8/26/2020	18	12	53.68	Yes	26.45	-27.23
1147	8/26/2020	19	1	48.02	Yes	26.45	-21.57
1148	8/26/2020	19	2	47.99	Yes	26.45	-21.54
1149	8/26/2020	19	3	48.15	Yes	26.45	-21.70
1150	8/26/2020	19	4	47.70	Yes	26.45	-21.25
1151	8/26/2020	19	5	48.14	Yes	26.45	-21.69
1152	8/26/2020	19	6	49.56	Yes	26.45	-23.11
1153	8/26/2020	19	7	48.09	Yes	26.45	-21.64
1154	8/26/2020	19	8	48.31	Yes	26.45	-21.86
1155	8/26/2020	19	9	48.38	Yes	26.45	-21.93
1156	8/26/2020	19	10	48.05	Yes	26.45	-21.60
1157	8/26/2020	19	11	48.06	Yes	26.45	-21.61
1158	8/26/2020	19	12	48.96	Yes	26.45	-22.51
1159	8/26/2020	20	1	48.22	Yes	26.45	-21.77
1160	8/26/2020	20	2	46.21	Yes	26.45	-19.76
1161	8/26/2020	20	3	46.99	Yes	26.45	-20.54
1162	8/26/2020	20	4	45.01	Yes	26.45	-18.56
1163	8/26/2020	20	5	43.95	Yes	26.45	-17.50
1164	8/26/2020	20	6	41.94	Yes	26.45	-15.49
1165	8/26/2020	20	7	45.29	Yes	26.45	-18.84
1166	8/26/2020	20	8	45.10	Yes	26.45	-18.65
1167	8/26/2020	20	9	45.30	Yes	26.45	-18.85
1168	8/26/2020	20	10	41.05	Yes	26.45	-14.60
1169	8/26/2020	20	11	43.98	Yes	26.45	-17.53
1170	8/26/2020	20	12	47.00	Yes	26.45	-20.55
1171	8/26/2020	21	1	46.52	Yes	26.45	-20.07
1172	8/26/2020	21	2	47.43	Yes	26.45	-20.98
1173	8/26/2020	21	3	48.16	Yes	26.45	-21.71
1174	8/26/2020	21	4	47.00	Yes	26.45	-20.55

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1175	8/26/2020	21	5	47.00	Yes	26.45	-20.55
1176	8/26/2020	21	6	46.64	Yes	26.45	-20.19
1177	8/26/2020	21	7	43.11	Yes	26.45	-16.66
1178	8/26/2020	21	8	40.91	Yes	26.45	-14.46
1179	8/26/2020	21	9	38.40	Yes	26.45	-11.95
1180	8/26/2020	21	10	38.80	Yes	26.45	-12.35
1181	8/26/2020	21	11	38.32	Yes	26.45	-11.87
1182	8/26/2020	21	12	37.60	Yes	26.45	-11.15
1183	8/26/2020	22	1	39.76	Yes	65.75	25.99
1184	8/26/2020	22	2	39.82	Yes	65.75	25.93
1185	8/26/2020	22	3	39.82	Yes	65.75	25.93
1186	8/26/2020	22	4	39.84	Yes	65.75	25.91
1187	8/26/2020	22	5	39.86	Yes	65.75	25.89
1188	8/26/2020	22	6	39.80	Yes	65.75	25.95
1189	8/26/2020	22	7	36.80	Yes	65.75	28.95
1190	8/26/2020	22	8	33.97	Yes	65.75	31.78
1191	8/26/2020	22	9	33.05	Yes	65.75	32.70
1192	8/26/2020	22	10	33.64	Yes	65.75	32.11
1193	8/26/2020	22	11	27.32	Yes	65.75	38.43
1194	8/26/2020	22	12	26.70	Yes	65.75	39.05
1195	8/27/2020	18	1	49.05	Yes	32.41	-16.64
1196	8/27/2020	18	2	49.07	Yes	32.41	-16.66
1197	8/27/2020	18	3	51.31	Yes	32.41	-18.90
1198	8/27/2020	18	4	48.90	Yes	32.41	-16.49
1199	8/27/2020	18	5	51.08	Yes	32.41	-18.67
1200	8/27/2020	18	6	59.62	Yes	32.41	-27.21
1201	8/27/2020	18	7	51.05	Yes	32.41	-18.64
1202	8/27/2020	18	8	57.95	Yes	32.41	-25.54
1203	8/27/2020	18	9	65.09	Yes	32.41	-32.68
1204	8/27/2020	18	10	63.15	Yes	32.41	-30.74
1205	8/27/2020	18	11	79.01	Yes	32.41	-46.60
1206	8/27/2020	18	12	69.40	Yes	32.41	-36.99
1207	8/27/2020	19	1	62.02	Yes	32.41	-29.61
1208	8/27/2020	19	2	62.22	Yes	32.41	-29.81
1209	8/27/2020	19	3	99.80	Yes	32.41	-67.39
1210	8/27/2020	19	4	66.26	Yes	32.41	-33.85
1211	8/27/2020	19	5	413.06	Yes	32.41	-380.65
1212	8/27/2020	19	6	439.61	Yes	32.41	-407.20



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1213	8/27/2020	19	7	83.80	Yes	32.41	-51.39
1214	8/27/2020	19	8	99.85	Yes	32.41	-67.44
1215	8/27/2020	19	9	438.47	Yes	32.41	-406.06
1216	8/27/2020	19	10	75.15	Yes	32.41	-42.74
1217	8/27/2020	19	11	170.20	Yes	32.41	-137.79
1218	8/27/2020	19	12	97.79	Yes	32.41	-65.38
1219	8/27/2020	20	1	60.94	Yes	32.41	-28.53
1220	8/27/2020	20	2	62.50	Yes	32.41	-30.09
1221	8/27/2020	20	3	62.52	Yes	32.41	-30.11
1222	8/27/2020	20	4	51.06	Yes	32.41	-18.65
1223	8/27/2020	20	5	50.77	Yes	32.41	-18.36
1224	8/27/2020	20	6	48.50	Yes	32.41	-16.09
1225	8/27/2020	20	7	52.47	Yes	32.41	-20.06
1226	8/27/2020	20	8	48.51	Yes	32.41	-16.10
1227	8/27/2020	20	9	47.27	Yes	32.41	-14.86
1228	8/27/2020	20	10	55.90	Yes	32.41	-23.49
1229	8/27/2020	20	11	51.77	Yes	32.41	-19.36
1230	8/27/2020	20	12	47.33	Yes	32.41	-14.92
1231	8/27/2020	21	1	47.39	Yes	32.41	-14.98
1232	8/27/2020	21	2	46.66	Yes	32.41	-14.25
1233	8/27/2020	21	3	46.66	Yes	32.41	-14.25
1234	8/27/2020	21	4	48.86	Yes	32.41	-16.45
1235	8/27/2020	21	5	48.89	Yes	32.41	-16.48
1236	8/27/2020	21	6	48.40	Yes	32.41	-15.99
1237	8/27/2020	21	7	48.27	Yes	32.41	-15.86
1238	8/27/2020	21	8	47.43	Yes	32.41	-15.02
1239	8/27/2020	21	9	46.30	Yes	32.41	-13.89
1240	8/27/2020	21	10	45.16	Yes	32.41	-12.75
1241	8/27/2020	21	11	44.35	Yes	32.41	-11.94
1242	8/27/2020	21	12	43.35	Yes	32.41	-10.94
1243	8/27/2020	22	1	44.17	Yes	32.41	-11.76
1244	8/27/2020	22	2	43.33	Yes	32.41	-10.92
1245	8/27/2020	22	3	40.95	Yes	32.41	-8.54
1246	8/27/2020	22	4	43.32	Yes	32.41	-10.91
1247	8/27/2020	22	5	43.32	Yes	32.41	-10.91
1248	8/27/2020	22	6	40.52	Yes	32.41	-8.11
1249	8/27/2020	22	7	53.53	Yes	32.41	-21.12
1250	8/27/2020	22	8	43.47	Yes	32.41	-11.06

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1251	8/27/2020	22	9	40.68	Yes	32.41	-8.27
1252	8/27/2020	22	10	63.72	Yes	32.41	-31.31
1253	8/27/2020	22	11	41.67	Yes	32.41	-9.26
1254	8/27/2020	22	12	40.25	Yes	32.41	-7.84

## Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In August 2020, the ISO applied the exceptional dispatch bid mitigation to the exceptional dispatches. Table 10 shows the costs by instruction type in August. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were \$ 208,531. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be \$ 2,344,253. The cost saving from the exceptional dispatch bid mitigation was \$ 2,135,722.

**Table 10: Bid Mitigation Analysis for August 2020**

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
NONTMOD	27	\$ 2,340,803	\$ 205,564	\$ 2,135,239
TMODEL5	1	\$ 3,450	\$ 2,967	\$ 483
Total	28	\$ 2,344,253	\$ 208,531	\$ 2,135,722