



# **Exceptional Dispatch Report**

## **Table 2: March 2021**

Market Analysis and Forecasting

May 17, 2021

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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 March 2021.

This report contains a price impact analysis as prescribed by FERC in its September 2 order. The price impact analysis for the month of March is presented in Appendix B. This report also includes mitigation analysis for March 2021 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 March is presented in Appendix C.

## The Nature of Exceptional Dispatch

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

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

Additional reasons for exceptional dispatch instructions in 2021 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 March, 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 March 2021. In addition, it contains volume (MWh) and cost information. Each entry in Table 1 is a summary of exceptional dispatches classified by (1) the reason for the exceptional dispatch; (2) the location of the resource by Participating Transmission Owner (PTO) service area; (3) the Local Reliability Area (LRA) where applicable; (4) the market in which the exceptional dispatch occurred (day-ahead vs. real-time); and (5) the date of the exceptional dispatch. For each classification the following information is provided: (1) Megawatts (MW); (2) Commitment; (3) Inc or Dec; (4) Hours; (5) Begin Time; (6) End Time; (7) Total Volume (MWh); (8) Min Load Cost; (9) Start Up Cost; (10) CC6470; (11) ED Volume (MWh INC/DEC); (12) CC6470 INC; (13) CC6470 DEC; (14) CC6482; (15) CC6488; and (16) CC6620. Each column is defined:

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

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

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

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

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

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

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

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

Exceptional dispatches with the reason “Reliability Assessment” were due to Real Time Contingency Analysis, Voltage Stability Analysis, and operating procedure number 7110 (along with 7720). Reliability Assessment is the reason as explained in the operator procedure 2330C that encompasses Control Point (CP), Interconnection Reliability Operating Limit (IROL), System Operating Limit (SOL) and congestion related EDs. This reason is used to mitigate reliability issues identified through the real – time assessment tools such as Real Time Contingency Analysis (RTCA), Voltage Stability Analysis (VSA), Dynamic Stability Analysis (DSA) and/or Operating Procedure (OP) or offline study.

**Table 1: Exceptional Dispatches in March 2021**

**California Independent System Operator Corporation  
Exceptional Dispatch Report  
May 17, 2021**

**Chart 2: Table of Exceptional Dispatches for Period 01/March/2021 - 31/March/2021**

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	Fast Start Unit Management	PGAE	Bay Area	3/10/2021	0 - 120	No	INC	7	6:20	12:50	124.93	10465.48	2885.71	-12187.94	-160.00	0.00	-0.43	0.00	0.00	0.00
2	RT	Fast Start Unit Management	PGAE	Bay Area	3/24/2021	0	No	INC	2	7:30	9:20	-60.00	0.00	0.00	0.00	-60.00	0.00	0.00	0.00	0.00	0.00
3	RT	Fast Start Unit Management	PGAE	NA	3/10/2021	0 - 60	No	INC	1	6:20	7:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	RT	Fast Start Unit Management	SCE	LA Basin	3/10/2021	5 - 48.39	No	INC	1	6:20	7:15	164.48	2050.26	0.00	-6428.93	0.62	-27.53	0.00	0.00	0.00	0.00
5	RT	Fast Start Unit Management	SCE	LA Basin	3/24/2021	0	No	INC	1	9:00	9:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	RT	Fast Start Unit Management	SDGE	San Diego-IV	3/24/2021	0	No	INC	9	8:15	17:00	12.54	0.00	0.00	-177.16	0.00	0.00	0.00	0.00	0.00	0.00
7	RT	Incomplete or Inaccurate Transmission	PGAE	Humboldt	3/27/2021	15	No	DEC	2	22:00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	RT	Incomplete or Inaccurate Transmission	PGAE	Humboldt	3/27/2021	15 - 30	No	INC	2	22:00	0:00	-4.13	1722.08	0.00	141.42	0.00	0.00	0.00	0.00	0.00	0.00
9	RT	Incomplete or Inaccurate Transmission	PGAE	Humboldt	3/28/2021	15	No	DEC	6	0:00	6:00	-0.05	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00
10	RT	Incomplete or Inaccurate Transmission	PGAE	Humboldt	3/28/2021	15 - 45	No	INC	14	0:00	14:00	7.58	13150.41	0.00	-580.06	0.00	0.00	0.00	0.00	0.00	-39.14
11	RT	Other Reliability Requirement	PGAE	Fresno	3/21/2021	83	No	INC	1	3:05	4:00	-8.89	4448.07	0.00	253.00	0.00	0.00	0.00	0.00	0.00	0.00
12	RT	Other Reliability Requirement	PGAE	Fresno	3/24/2021	0	No	DEC	1	6:15	6:45	-0.47	0.00	0.00	13.94	0.00	0.00	0.00	0.00	0.00	0.00
13	RT	Other Reliability Requirement	PGAE	Fresno	3/24/2021	76	No	INC	1	5:55	6:15	-10.31	0.00	0.00	446.57	0.00	0.00	0.00	0.00	0.00	0.00
14	RT	Other Reliability Requirement	PGAE	NA	3/24/2021	0 - 60	No	INC	1	5:55	6:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	RT	Other Reliability Requirement	SCE	LA Basin	3/24/2021	51.29 - 57.09	No	DEC	1	6:00	6:15	-20.93	0.00	0.00	786.34	0.00	0.00	0.00	0.00	0.00	0.00
16	RT	Other Reliability Requirement	SCE	LA Basin	3/24/2021	5 - 147	No	INC	1	5:55	6:45	61.80	68.39	0.00	-2376.84	0.00	0.00	0.00	0.00	0.00	0.00
17	RT	Other Reliability Requirement	SDGE	San Diego-IV	3/24/2021	30 - 38.38	No	INC	1	5:55	6:45	84.28	1079.75	0.00	-3213.92	0.00	0.00	0.00	0.00	0.00	0.00

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18	RT	Planned Transmission Outage	PGAE	Bay Area	3/20/2021	231 - 288	No	INC	9	9:00	18:00	46.56	158065.68	0.00	-209.22	0.00	0.00	0.00	0.00	-227.98	0.00
19	RT	Planned Transmission Outage	PGAE	Bay Area	3/21/2021	231 - 380	No	INC	8	9:00	17:00	206.03	92550.62	0.00	1225.10	22.06	9.21	0.00	0.00	-734.46	0.00
20	RT	Planned Transmission Outage	PGAE	Fresno	3/7/2021	83	No	INC	1	15:30	16:15	-19.38	4132.79	0.00	15265.20	0.00	0.00	0.00	0.00	0.00	0.00
21	RT	Planned Transmission Outage	PGAE	Fresno	3/17/2021	-313	No	DEC	5	0:45	5:30	-9.42	0.00	0.00	458.40	0.00	0.00	0.00	0.00	-183.17	0.00
22	RT	Planned Transmission Outage	PGAE	Humboldt	3/1/2021	42 - 45	No	DEC	8	16:00	0:00	1.31	-1171.87	0.00	-104.34	0.00	0.00	0.00	0.00	0.00	0.00
23	RT	Planned Transmission Outage	PGAE	Humboldt	3/1/2021	30 - 56	No	INC	24	0:00	0:00	-7.27	47469.48	0.00	-36.60	0.00	0.00	0.00	0.00	-3.21	0.00
24	RT	Planned Transmission Outage	PGAE	Humboldt	3/2/2021	28 - 42	No	DEC	24	0:00	0:00	-42.55	-16753.03	0.00	1451.40	0.00	0.00	0.00	0.00	0.00	0.00
25	RT	Planned Transmission Outage	PGAE	Humboldt	3/2/2021	28 - 45	No	INC	17	0:00	17:00	-16.06	37556.11	0.00	459.42	0.00	0.00	0.00	0.00	0.00	0.00
26	RT	Planned Transmission Outage	PGAE	Humboldt	3/3/2021	42	No	DEC	1	0:00	1:00	0.00	0.00	0.00	-1.88	0.00	0.00	0.00	0.00	0.00	0.00
27	RT	Planned Transmission Outage	PGAE	Humboldt	3/3/2021	28 - 60	No	INC	24	0:00	0:00	4.69	70677.20	0.00	-166.35	0.00	0.00	0.00	0.00	0.00	0.00
28	RT	Planned Transmission Outage	PGAE	Humboldt	3/4/2021	30 - 60	No	INC	24	0:00	0:00	6.53	63741.71	0.00	-445.67	0.00	0.00	0.00	0.00	0.00	0.00
29	RT	Planned Transmission Outage	PGAE	Humboldt	3/5/2021	30 - 45	No	DEC	4	17:00	21:00	3.97	1265.99	0.00	-78.78	0.00	0.00	0.00	0.00	0.00	0.00
30	RT	Planned Transmission Outage	PGAE	Humboldt	3/5/2021	30 - 60	No	INC	24	0:00	0:00	12.23	58709.90	0.00	-265.75	0.00	0.00	0.00	0.00	0.00	0.00
31	RT	Planned Transmission Outage	PGAE	Humboldt	3/6/2021	15 - 42	No	DEC	8	15:00	23:00	5.12	-9973.49	0.00	-181.95	0.00	0.00	0.00	0.00	0.00	0.00
32	RT	Planned Transmission Outage	PGAE	Humboldt	3/6/2021	15 - 42	No	INC	24	0:00	0:00	-41.57	33678.78	0.00	29.38	0.00	0.00	0.00	0.00	-80.56	0.00
33	RT	Planned Transmission Outage	PGAE	Humboldt	3/7/2021	30 - 45	No	DEC	6	16:00	22:00	2.19	8340.92	0.00	-45.28	0.00	0.00	0.00	0.00	0.00	0.00
34	RT	Planned Transmission Outage	PGAE	Humboldt	3/7/2021	30 - 45	No	INC	24	0:00	0:00	7.25	27698.42	0.00	-554.86	0.00	0.00	0.00	0.00	-5.20	0.00
35	RT	Planned Transmission Outage	PGAE	Humboldt	3/8/2021	42	No	DEC	5	17:00	22:00	4.07	-2205.03	0.00	-103.59	0.00	0.00	0.00	0.00	0.00	0.00



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36	RT	Planned Transmission Outage	PGAE	Humboldt	3/8/2021	28 - 45	No	INC	24	0:00	0:00	4.36	53665.73	0.00	-94.03	0.00	0.00	0.00	0.00	0.00	0.00
37	RT	Planned Transmission Outage	PGAE	Humboldt	3/9/2021	30 - 60	No	INC	24	0:00	0:00	-32.89	82854.00	0.00	1347.84	0.00	0.00	0.00	0.00	0.00	0.00
38	RT	Planned Transmission Outage	PGAE	Humboldt	3/10/2021	30 - 45	No	DEC	19	5:00	0:00	-20.94	-3849.65	0.00	632.88	0.00	0.00	0.00	0.00	0.00	0.00
39	RT	Planned Transmission Outage	PGAE	Humboldt	3/10/2021	30 - 45	No	INC	6	0:00	6:00	0.97	14106.67	0.00	-54.05	0.00	0.00	0.00	0.00	0.00	0.00
40	RT	Planned Transmission Outage	PGAE	Humboldt	3/11/2021	28 - 45	No	DEC	24	0:00	0:00	-7.12	-27577.11	0.00	259.07	0.00	0.00	0.00	0.00	0.00	0.00
41	RT	Planned Transmission Outage	PGAE	Humboldt	3/12/2021	30 - 45	No	DEC	11	0:00	11:00	12.48	-20852.92	0.00	-447.38	0.00	0.00	0.00	0.00	0.00	0.00
42	RT	Planned Transmission Outage	PGAE	Humboldt	3/12/2021	30 - 45	No	INC	13	11:00	0:00	-2.56	31516.35	0.00	82.50	0.00	0.00	0.00	0.00	0.00	0.00
43	RT	Planned Transmission Outage	PGAE	Humboldt	3/13/2021	30	No	DEC	7	0:00	7:00	0.00	-4939.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	RT	Planned Transmission Outage	PGAE	Humboldt	3/13/2021	15 - 45	No	INC	24	0:00	0:00	4.56	29930.93	0.00	-514.61	1.14	0.01	0.00	0.00	-131.89	0.00
45	RT	Planned Transmission Outage	PGAE	Humboldt	3/14/2021	30 - 45	No	INC	23	0:00	0:00	26.26	53175.62	0.00	-832.02	0.00	0.00	0.00	0.00	-47.62	0.00
46	RT	Planned Transmission Outage	PGAE	Humboldt	3/15/2021	14 - 75	No	INC	24	0:00	0:00	-6.61	54377.02	0.00	1031.69	0.00	0.00	0.00	0.00	0.00	0.00
47	RT	Planned Transmission Outage	PGAE	Humboldt	3/16/2021	30 - 45	No	DEC	6	18:00	0:00	3.82	-8842.27	0.00	-120.30	0.00	0.00	0.00	0.00	0.00	0.00
48	RT	Planned Transmission Outage	PGAE	Humboldt	3/16/2021	30 - 60	No	INC	18	0:00	18:00	-12.92	40998.86	0.00	197.77	-2.08	0.00	53.19	0.00	-29.49	0.00
49	RT	Planned Transmission Outage	PGAE	Humboldt	3/17/2021	30 - 45	No	DEC	23	0:00	23:00	4.73	-14616.40	0.00	178.94	0.00	0.00	0.00	0.00	0.00	0.00
50	RT	Planned Transmission Outage	PGAE	Humboldt	3/17/2021	30 - 60	No	INC	22	2:00	0:00	1.60	19951.78	0.00	-69.82	0.00	0.00	0.00	0.00	0.00	0.00
51	RT	Planned Transmission Outage	PGAE	Humboldt	3/18/2021	30 - 60	No	INC	24	0:00	0:00	13.36	58202.04	0.00	-436.60	0.00	0.00	0.00	0.00	0.00	0.00
52	RT	Planned Transmission Outage	PGAE	Humboldt	3/19/2021	30 - 60	No	INC	24	0:00	0:00	50.66	60578.22	0.00	-1512.81	0.00	0.00	0.00	0.00	0.00	0.00
53	RT	Planned Transmission Outage	PGAE	Humboldt	3/20/2021	30 - 45	No	INC	24	0:00	0:00	-6.09	36067.84	0.00	-121.73	-1.47	0.00	34.18	0.00	-345.50	0.00

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54	RT	Planned Transmission Outage	PGAE	Humboldt	3/21/2021	30 - 45	No	INC	24	0:00	0:00	14.02	40937.77	0.00	-838.26	-6.51	0.00	218.45	0.00	-471.86	0.00
55	RT	Planned Transmission Outage	PGAE	Humboldt	3/22/2021	30 - 45	No	INC	24	0:00	0:00	6.47	52656.01	0.00	-101.48	0.00	0.00	0.00	0.00	-41.16	0.00
56	RT	Planned Transmission Outage	PGAE	Humboldt	3/23/2021	30 - 45	No	INC	24	0:00	0:00	10.73	62914.90	0.00	-774.70	0.00	0.00	0.00	0.00	-5.17	0.00
57	RT	Planned Transmission Outage	PGAE	Humboldt	3/24/2021	15 - 45	No	INC	24	0:00	0:00	8.35	50603.93	0.00	-527.29	0.00	0.00	0.00	0.00	-2.97	0.00
58	RT	Planned Transmission Outage	PGAE	Humboldt	3/25/2021	30 - 45	No	DEC	15	5:00	20:00	8.42	-4141.79	0.00	-258.98	0.00	0.00	0.00	0.00	0.00	0.00
59	RT	Planned Transmission Outage	PGAE	Humboldt	3/25/2021	30 - 45	No	INC	24	0:00	0:00	2.73	56434.80	0.00	-49.35	0.00	0.00	0.00	0.00	0.00	0.00
60	RT	Planned Transmission Outage	PGAE	Humboldt	3/26/2021	15 - 45	No	INC	24	0:00	0:00	-22.11	53225.27	0.00	-198.22	0.00	0.00	0.00	0.00	-57.23	0.00
61	RT	Planned Transmission Outage	PGAE	Humboldt	3/27/2021	15	No	DEC	5	17:00	22:00	-4.01	156.55	0.00	136.91	0.00	0.00	0.00	0.00	0.00	0.00
62	RT	Planned Transmission Outage	PGAE	Humboldt	3/27/2021	15 - 45	No	INC	22	0:00	22:00	3.54	29275.32	0.00	-305.95	0.00	0.00	0.00	0.00	-60.04	0.00
63	RT	Planned Transmission Outage	PGAE	Humboldt	3/28/2021	30	No	INC	4	14:00	18:00	0.59	2504.84	0.00	-5.88	0.50	-5.78	0.00	0.00	0.00	0.00
64	RT	Planned Transmission Outage	PGAE	Humboldt	3/29/2021	30	No	DEC	4	18:00	22:00	2.71	0.00	1268.00	-81.68	0.00	0.00	0.00	0.00	0.00	0.00
65	RT	Planned Transmission Outage	PGAE	Humboldt	3/29/2021	30 - 60	No	INC	19	5:00	0:00	0.17	44304.36	4358.75	-313.91	0.00	0.00	0.00	0.00	-25.50	0.00
66	RT	Planned Transmission Outage	PGAE	Humboldt	3/30/2021	30 - 46	No	DEC	5	17:00	22:00	38.60	-98.65	0.00	-14370.16	0.00	0.00	0.00	0.00	-65.70	0.00
67	RT	Planned Transmission Outage	PGAE	Humboldt	3/30/2021	30 - 46	No	INC	24	0:00	0:00	31.90	50212.38	0.00	-2104.16	0.50	0.00	0.00	0.00	-127.31	0.00
68	RT	Planned Transmission Outage	PGAE	Humboldt	3/31/2021	45	No	DEC	6	18:00	0:00	28.12	2669.03	0.00	-1026.75	0.00	0.00	0.00	0.00	0.00	0.00
69	RT	Planned Transmission Outage	PGAE	Humboldt	3/31/2021	30 - 45	No	INC	18	0:00	18:00	50.01	47885.00	0.00	-1653.74	0.00	0.00	0.00	0.00	-8.78	0.00
70	RT	Planned Transmission Outage	PGAE	NCNB	3/10/2021	70	No	DEC	11	10:20	21:00	-45.37	0.00	0.00	-805.42	0.00	0.00	0.00	0.00	-6312.20	0.00
71	RT	Planned Transmission Outage	PGAE	NCNB	3/10/2021	70	No	INC	7	17:00	0:00	-1.38	0.00	0.00	59.97	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	
72	RT	Planned Transmission Outage	PGAE	NCNB	3/11/2021	55 - 60	No	DEC	4	7:15	10:55	-3.70	0.00	0.00	63.59	-2.50	0.00	89.93	0.00	-373.18	0.00	
73	RT	Planned Transmission Outage	PGAE	NCNB	3/11/2021	55 - 80	No	INC	24	0:00	0:00	8.84	0.00	0.00	1315.78	-60.51	0.00	2217.30	0.00	-2170.45	0.00	
74	RT	Planned Transmission Outage	PGAE	NCNB	3/12/2021	48 - 72	No	DEC	24	0:00	0:00	-146.57	0.00	0.00	3349.58	-153.55	0.00	3620.08	0.00	-	16302.96	0.00
75	RT	Planned Transmission Outage	PGAE	NCNB	3/12/2021	48 - 72	No	INC	23	1:00	0:00	33.56	0.00	0.00	-1046.20	-15.79	0.00	493.26	0.00	-574.26	0.00	
76	RT	Planned Transmission Outage	PGAE	NCNB	3/13/2021	72 - 75	No	DEC	2	2:00	4:00	2.38	0.00	0.00	-53.73	0.00	0.00	0.00	0.00	-67.86	0.00	
77	RT	Planned Transmission Outage	PGAE	NCNB	3/13/2021	72 - 75	No	INC	24	0:00	0:00	-290.07	0.00	0.00	-989.04	-11.25	0.00	212.07	0.00	-200.28	0.00	
78	RT	Planned Transmission Outage	PGAE	NCNB	3/14/2021	70 - 75	No	DEC	14	6:00	20:00	29.52	0.00	0.00	-673.75	-11.66	0.00	0.00	0.00	-986.90	0.00	
79	RT	Planned Transmission Outage	PGAE	NCNB	3/14/2021	70 - 75	No	INC	18	0:00	19:00	12.54	0.00	0.00	-341.75	-3.00	0.00	0.00	0.00	-3065.86	0.00	
80	RT	Planned Transmission Outage	PGAE	NCNB	3/28/2021	42 - 47	No	DEC	9	9:00	18:00	12.39	0.00	0.00	-350.01	0.00	0.00	0.00	0.00	-1895.33	0.00	
81	RT	Planned Transmission Outage	PGAE	NCNB	3/28/2021	42 - 55	No	INC	9	7:25	16:00	-18.62	0.00	0.00	129.62	-15.84	0.00	258.15	0.00	-241.75	0.00	
82	RT	Planned Transmission Outage	PGAE	Sierra	3/29/2021	20	Yes	DEC	10	8:00	18:00	-1.00	0.00	0.00	-57.45	0.00	0.00	0.00	0.00	0.00	0.00	
83	RT	Planned Transmission Outage	PGAE	Sierra	3/29/2021	20	Yes	INC	6	18:00	0:00	36.59	12280.56	0.00	-2616.06	0.00	0.00	0.00	0.00	0.00	0.00	
84	RT	Planned Transmission Outage	PGAE	Sierra	3/30/2021	40	No	INC	3	21:00	23:15	0.00	4821.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
85	RT	Planned Transmission Outage	PGAE	Stockton	3/1/2021	88.8	No	DEC	24	0:00	0:00	-44.59	-3110.56	0.00	558.10	0.00	0.00	0.00	0.00	0.00	0.00	
86	RT	Planned Transmission Outage	PGAE	Stockton	3/1/2021	88.8	No	INC	8	8:00	16:00	-1.70	0.00	0.00	34.76	0.00	0.00	0.00	0.00	0.00	0.00	
87	RT	Planned Transmission Outage	PGAE	Stockton	3/2/2021	88.8	No	DEC	24	0:00	0:00	-83.45	-580.73	0.00	3496.53	0.00	0.00	0.00	0.00	0.00	0.00	
88	RT	Planned Transmission Outage	PGAE	Stockton	3/2/2021	88.8	No	INC	15	1:00	16:00	-3.40	0.00	0.00	90.52	0.00	0.00	0.00	0.00	0.00	0.00	
89	RT	Planned Transmission Outage	PGAE	Stockton	3/3/2021	88.8	No	DEC	24	0:00	0:00	0.34	-2387.42	0.00	20.46	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
90	RT	Planned Transmission Outage	PGAE	Stockton	3/3/2021	88.8	No	INC	15	1:00	16:00	-2.97	0.00	0.00	126.01	0.00	0.00	0.00	0.00	0.00	0.00
91	RT	Planned Transmission Outage	PGAE	Stockton	3/4/2021	88.8	No	DEC	20	4:00	0:00	-20.66	-1406.99	0.00	1006.99	0.00	0.00	0.00	0.00	0.00	0.00
92	RT	Planned Transmission Outage	PGAE	Stockton	3/4/2021	88.8	No	INC	16	0:00	16:00	1.03	199.56	0.00	-38.34	0.00	0.00	0.00	0.00	0.00	0.00
93	RT	Planned Transmission Outage	PGAE	Stockton	3/5/2021	88.8	No	DEC	20	4:00	0:00	-43.28	979.85	0.00	1075.68	0.00	0.00	0.00	0.00	0.00	0.00
94	RT	Planned Transmission Outage	PGAE	Stockton	3/5/2021	88.8	No	INC	16	0:00	16:00	2.97	195.97	0.00	-92.31	0.00	0.00	0.00	0.00	0.00	0.00
95	RT	Planned Transmission Outage	PGAE	Stockton	3/6/2021	5 - 88.8	No	DEC	24	0:00	0:00	-31.55	584.90	0.00	1141.60	0.00	0.00	0.00	0.00	-318.27	0.00
96	RT	Planned Transmission Outage	PGAE	Stockton	3/6/2021	88.8	No	INC	15	2:00	17:00	0.15	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
97	RT	Planned Transmission Outage	PGAE	Stockton	3/7/2021	88.8	No	DEC	24	0:00	0:00	-3.93	194.97	0.00	329.14	0.00	0.00	0.00	0.00	0.00	0.00
98	RT	Planned Transmission Outage	PGAE	Stockton	3/7/2021	88.8	No	INC	13	3:00	16:00	2.91	0.00	0.00	-96.27	0.00	0.00	0.00	0.00	0.00	0.00
99	RT	Planned Transmission Outage	PGAE	Stockton	3/8/2021	88.8	No	DEC	20	4:00	0:00	-45.88	194.97	0.00	1812.85	0.00	0.00	0.00	0.00	0.00	0.00
100	RT	Planned Transmission Outage	PGAE	Stockton	3/8/2021	88.8	No	INC	16	0:00	16:00	3.15	194.97	0.00	-83.98	0.00	0.00	0.00	0.00	0.00	0.00
101	RT	Planned Transmission Outage	PGAE	Stockton	3/9/2021	88.8	No	DEC	24	0:00	0:00	-13.60	-1363.49	0.00	95.85	0.00	0.00	0.00	0.00	0.00	0.00
102	RT	Planned Transmission Outage	PGAE	Stockton	3/9/2021	88.8	No	INC	13	2:00	15:00	-3.40	0.00	0.00	99.91	0.00	0.00	0.00	0.00	0.00	0.00
103	RT	Planned Transmission Outage	PGAE	Stockton	3/10/2021	88.8	No	DEC	24	0:00	0:00	11.17	1359.65	0.00	-188.75	0.00	0.00	0.00	0.00	0.00	0.00
104	RT	Planned Transmission Outage	PGAE	Stockton	3/10/2021	88.8	No	INC	14	1:00	15:00	-0.12	0.00	0.00	29.09	0.00	0.00	0.00	0.00	0.00	0.00
105	RT	Planned Transmission Outage	PGAE	Stockton	3/11/2021	88.8	No	DEC	24	0:00	0:00	-35.28	591.76	0.00	1476.03	0.00	0.00	0.00	0.00	0.00	0.00
106	RT	Planned Transmission Outage	PGAE	Stockton	3/11/2021	88.8	No	INC	6	10:00	16:00	-1.70	0.00	0.00	48.71	0.00	0.00	0.00	0.00	0.00	0.00
107	RT	Planned Transmission Outage	PGAE	Stockton	3/12/2021	88.8	No	DEC	24	0:00	0:00	-28.83	-1174.85	0.00	1144.38	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
108	RT	Planned Transmission Outage	PGAE	Stockton	3/12/2021	88.8	No	INC	6	10:00	16:00	-1.70	0.00	0.00	34.78	0.00	0.00	0.00	0.00	0.00	0.00
109	RT	Planned Transmission Outage	PGAE	Stockton	3/13/2021	88.8	No	DEC	24	0:00	0:00	7.63	-582.59	0.00	-205.32	0.00	0.00	0.00	0.00	0.00	0.00
110	RT	Planned Transmission Outage	PGAE	Stockton	3/13/2021	88.8	No	INC	16	1:00	17:00	-3.64	0.00	0.00	87.69	0.00	0.00	0.00	0.00	0.00	0.00
111	RT	Planned Transmission Outage	PGAE	Stockton	3/14/2021	88.8	No	DEC	19	5:00	0:00	-23.99	-582.59	0.00	1047.20	0.00	0.00	0.00	0.00	0.00	0.00
112	RT	Planned Transmission Outage	PGAE	Stockton	3/14/2021	88.8	No	INC	16	0:00	17:00	3.76	194.20	0.00	-149.23	0.00	0.00	0.00	0.00	0.00	0.00
113	RT	Planned Transmission Outage	PGAE	Stockton	3/15/2021	88.8	No	DEC	19	5:00	0:00	-9.45	-194.20	0.00	225.84	0.00	0.00	0.00	0.00	0.00	0.00
114	RT	Planned Transmission Outage	PGAE	Stockton	3/15/2021	88.8	No	INC	17	0:00	17:00	0.60	194.20	0.00	-27.90	0.00	0.00	0.00	0.00	0.00	0.00
115	RT	Planned Transmission Outage	PGAE	Stockton	3/16/2021	88.8	No	DEC	24	0:00	0:00	-23.14	-2320.09	0.00	633.80	0.00	0.00	0.00	0.00	0.00	0.00
116	RT	Planned Transmission Outage	PGAE	Stockton	3/16/2021	88.8	No	INC	14	3:00	17:00	-2.73	0.00	0.00	65.86	0.00	0.00	0.00	0.00	0.00	0.00
117	RT	Planned Transmission Outage	PGAE	Stockton	3/17/2021	88.8	No	DEC	24	0:00	0:00	-84.52	4060.45	0.00	4865.17	0.00	0.00	0.00	0.00	0.00	0.00
118	RT	Planned Transmission Outage	PGAE	Stockton	3/17/2021	88.8	No	INC	2	13:00	15:00	0.03	0.00	0.00	-10.92	0.00	0.00	0.00	0.00	0.00	0.00
119	RT	Planned Transmission Outage	PGAE	Stockton	3/18/2021	88.8	No	DEC	24	0:00	0:00	10.09	73641.13	0.00	-160.40	0.00	0.00	0.00	0.00	0.00	0.00
120	RT	Planned Transmission Outage	PGAE	Stockton	3/18/2021	88.8	No	INC	15	3:00	18:00	-3.47	51922.71	0.00	97.21	0.00	0.00	0.00	0.00	0.00	0.00
121	RT	Planned Transmission Outage	PGAE	Stockton	3/19/2021	88.8	No	DEC	11	0:00	11:00	24.32	48785.71	0.00	-475.03	0.00	0.00	0.00	0.00	0.00	0.00
122	RT	Planned Transmission Outage	PGAE	Stockton	3/19/2021	88.8	No	INC	14	3:00	16:30	88.24	41938.72	0.00	-2447.01	0.00	0.00	0.00	0.00	0.00	0.00
123	RT	Planned Transmission Outage	PGAE	NA	3/23/2021	40	No	INC	4	13:15	16:30	19.00	3545.62	0.00	10.67	7.33	-0.04	0.00	0.00	-1649.41	0.00
124	RT	Planned Transmission Outage	SCE	Big Creek-Ventura	3/29/2021	140	No	INC	8	9:00	17:00	80.21	0.00	0.00	-144.97	0.00	0.00	0.00	0.00	0.00	0.00
125	RT	Planned Transmission Outage	SCE	Big Creek-Ventura	3/30/2021	140	No	INC	8	9:00	17:00	-344.97	33415.20	0.00	2807.31	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	
126	RT	Planned Transmission Outage	SCE	LA Basin	3/1/2021	335	No	INC	5	10:00	15:00	-278.98	61651.05	0.00	5967.89	0.00	0.00	0.00	0.00	0.00	-925.05	0.00
127	RT	Planned Transmission Outage	SCE	LA Basin	3/3/2021	46 - 673	No	INC	7	8:05	15:00	111.99	16504.70	0.00	-5630.87	44.88	-1543.51	0.00	0.00	0.00	-1086.60	0.00
128	RT	Planned Transmission Outage	SCE	LA Basin	3/4/2021	20	No	INC	17	7:00	0:00	2.69	47579.26	17877.07	-148.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	RT	Planned Transmission Outage	SCE	LA Basin	3/15/2021	45.24 - 45.38	No	INC	13	5:00	17:30	19.10	76356.52	0.00	-571.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	RT	Planned Transmission Outage	SCE	LA Basin	3/16/2021	0 - 45.38	No	DEC	2	6:00	7:30	-4.97	-5370.99	0.00	-1017.55	-37.50	0.00	1735.12	0.00	-9358.67	0.00	
131	RT	Planned Transmission Outage	SCE	LA Basin	3/16/2021	0 - 45.38	No	INC	2	4:00	6:00	-10.04	9927.88	0.00	429.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	RT	Planned Transmission Outage	SCE	LA Basin	3/17/2021	45.24 - 50	No	DEC	16	6:00	22:00	-35.98	-22009.68	0.00	1418.42	-42.67	0.00	1788.30	0.00	30118.02	0.00	
133	RT	Planned Transmission Outage	SCE	LA Basin	3/17/2021	45.24 - 50	No	INC	16	6:35	22:30	-26.59	77997.65	360.60	4556.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	RT	Planned Transmission Outage	SCE	LA Basin	3/30/2021	132.76	No	INC	6	10:00	16:00	-456.72	63623.94	0.00	3096.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	RT	Planned Transmission Outage	SCE	NA	3/10/2021	410	No	DEC	7	17:10	0:00	-342.31	-39150.41	0.00	17925.01	0.00	0.00	0.00	0.00	0.00	-665.60	0.00
136	RT	Planned Transmission Outage	SCE	NA	3/11/2021	410 - 450	No	DEC	20	4:25	0:00	266.53	-13790.01	33672.54	-11746.28	0.00	0.00	0.00	0.00	0.00	-1369.40	0.00
137	RT	Planned Transmission Outage	SCE	NA	3/11/2021	450	No	INC	11	7:00	18:00	174.82	113056.92	0.00	-3973.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	RT	Planned Transmission Outage	SCE	NA	3/12/2021	450	No	DEC	5	0:00	5:00	0.00	-10146.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-62.38	0.00
139	RT	Planned Transmission Outage	SCE	NA	3/12/2021	450	No	INC	12	5:00	16:45	9.66	2936.53	0.00	-315.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	RT	Planned Transmission Outage	SDGE	San Diego-IV	3/7/2021	50	No	INC	1	15:30	16:00	13.51	413.64	0.00	-7673.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	RT	Planned Transmission Outage	SDGE	San Diego-IV	3/18/2021	350 - 380	No	DEC	2	7:30	9:00	-6.17	0.00	0.00	790.56	-70.17	0.00	2572.32	0.00	-1495.49	0.00	
142	RT	Planned Transmission Outage	SDGE	San Diego-IV	3/18/2021	380	No	INC	1	9:00	9:15	23.48	2794.26	0.00	-673.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	RT	Pump Management	PG&E	Fresno	3/17/2021	0	No	DEC	6	0:25	5:45	0.00	-5565.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1244.11	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/March/2021 - 31/March/2021**

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
144	RT	Pump Management	PGAE	Fresno	3/17/2021	0	No	INC	4	1:00	5:00	-29.17	0.00	0.00	1206.41	0.00	0.00	0.00	0.00	0.00	0.00
145	RT	Reliability Assessment	PGAE	Fresno	3/1/2021	0 - 10	No	DEC	4	11:25	15:00	-11.13	0.00	0.00	-204.90	-9.74	0.00	-254.17	0.00	0.00	0.00
146	RT	Reliability Assessment	PGAE	Fresno	3/12/2021	30 - 50	No	DEC	6	8:40	14:00	-6.61	0.00	0.00	-1194.11	-7.69	0.00	1152.71	0.00	0.00	0.00
147	RT	Reliability Assessment	PGAE	Fresno	3/12/2021	50	No	INC	3	12:40	14:45	-5.31	0.00	0.00	-794.77	0.00	0.00	0.00	0.00	0.00	0.00
148	RT	Reliability Assessment	PGAE	Fresno	3/14/2021	40	No	INC	2	10:50	12:00	-3.96	0.00	0.00	-197.10	0.00	0.00	0.00	0.00	0.00	0.00
149	RT	Reliability Assessment	PGAE	Fresno	3/17/2021	192	No	DEC	1	0:00	0:15	-21.76	0.00	0.00	770.96	-4.06	0.00	146.85	0.00	0.00	0.00
150	RT	Reliability Assessment	PGAE	Fresno	3/31/2021	30	No	DEC	3	15:00	18:00	-47.11	0.00	0.00	-2738.38	-44.14	0.00	2441.39	0.00	0.00	0.00
151	RT	Reliability Assessment	PGAE	Fresno	3/31/2021	30	No	INC	1	18:00	18:30	-0.58	0.00	0.00	-26.20	-0.90	0.00	-17.90	0.00	0.00	0.00
152	RT	Reliability Assessment	PGAE	Humboldt	3/28/2021	30	No	INC	10	14:00	0:00	3.08	6262.10	0.00	-126.70	0.50	-5.78	0.00	0.00	0.00	0.00
153	RT	Reliability Assessment	PGAE	Humboldt	3/29/2021	30	No	INC	6	0:00	5:15	0.00	3287.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	RT	Reliability Assessment	PGAE	NCNB	3/1/2021	70 - 75	No	DEC	11	13:40	0:00	-42.08	0.00	0.00	-765.14	-42.97	0.00	-644.54	0.00	0.00	0.00
155	RT	Reliability Assessment	PGAE	NCNB	3/2/2021	65 - 70	No	DEC	5	14:00	19:00	0.05	0.00	0.00	-0.83	0.00	0.00	0.00	0.00	0.00	0.00
156	RT	Reliability Assessment	PGAE	NCNB	3/2/2021	65 - 85	No	INC	24	0:00	0:00	-24.35	0.00	0.00	-461.89	-40.71	0.00	40.71	0.00	0.00	0.00
157	RT	Reliability Assessment	PGAE	NCNB	3/3/2021	65 - 80	No	DEC	22	0:00	22:00	-24.71	0.00	0.00	-485.06	-27.17	0.00	-387.50	0.00	0.00	0.00
158	RT	Reliability Assessment	PGAE	NCNB	3/3/2021	65 - 80	No	INC	24	0:00	0:00	5.29	0.00	0.00	-216.12	-2.25	0.00	2.25	0.00	0.00	0.00
159	RT	Reliability Assessment	PGAE	NCNB	3/4/2021	70 - 80	No	DEC	21	3:00	0:00	1.73	0.00	0.00	-240.65	-5.00	0.00	-67.60	0.00	0.00	0.00
160	RT	Reliability Assessment	PGAE	NCNB	3/4/2021	70 - 80	No	INC	24	0:00	0:00	1.57	0.00	0.00	-454.62	-14.17	0.00	-29.30	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/March/2021 - 31/March/2021**

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
161	RT	Reliability Assessment	PGAE	NCNB	3/5/2021	70	No	DEC	16	0:00	16:00	2.75	0.00	0.00	-83.39	0.00	0.00	0.00	0.00	0.00	0.00
162	RT	Reliability Assessment	PGAE	NCNB	3/5/2021	70 - 80	No	INC	21	3:00	0:00	13.38	0.00	0.00	-413.69	0.00	0.00	0.00	0.00	0.00	0.00
163	RT	Reliability Assessment	PGAE	NCNB	3/6/2021	80	No	DEC	24	0:00	0:00	-1.38	0.00	0.00	-515.84	-10.00	0.00	-150.00	0.00	0.00	0.00
164	RT	Reliability Assessment	PGAE	NCNB	3/6/2021	80	No	INC	18	0:00	18:00	19.09	0.00	0.00	40.38	0.00	0.00	0.00	0.00	0.00	0.00
165	RT	Reliability Assessment	PGAE	NCNB	3/7/2021	80	No	DEC	19	0:00	19:00	3.44	0.00	0.00	-59.58	0.00	0.00	0.00	0.00	0.00	0.00
166	RT	Reliability Assessment	PGAE	NCNB	3/7/2021	80	No	INC	5	19:00	0:00	-5.00	0.00	0.00	5.00	-5.00	0.00	5.00	0.00	0.00	0.00
167	RT	Reliability Assessment	PGAE	NCNB	3/8/2021	80	No	INC	2	0:00	1:15	4.17	0.00	0.00	-99.48	0.00	0.00	0.00	0.00	0.00	0.00
168	RT	Reliability Assessment	PGAE	NCNB	3/17/2021	30 - 70	No	DEC	10	14:20	0:00	-50.81	0.00	0.00	-1208.89	-67.00	0.00	-1005.05	0.00	0.00	0.00
169	RT	Reliability Assessment	PGAE	Sierra	3/11/2021	20	No	INC	1	20:15	21:00	1.37	1555.92	0.00	-116.28	0.00	0.00	0.00	0.00	0.00	0.00
170	RT	Reliability Assessment	PGAE	NA	3/17/2021	206	No	DEC	1	0:00	0:15	-26.87	0.00	0.00	988.77	0.00	0.00	0.00	0.00	0.00	0.00
171	RT	Reliability Assessment	SCE	Big Creek-Ventura	3/23/2021	50	No	DEC	4	13:10	17:00	-6.62	0.00	0.00	0.50	-6.20	0.00	-0.01	0.00	0.00	0.00
172	RT	Reliability Assessment	SCE	Big Creek-Ventura	3/23/2021	50	No	INC	1	17:00	18:00	1.65	0.00	0.00	-49.75	0.00	0.00	0.00	0.00	0.00	0.00
173	RT	Reliability Assessment	SCE	NA	3/1/2021	410 - 450	No	DEC	24	0:00	23:15	29.04	-10258.52	0.00	-1260.24	0.00	0.00	0.00	0.00	0.00	0.00
174	RT	Reliability Assessment	SCE	NA	3/1/2021	425 - 450	No	INC	19	5:05	0:00	190.10	25372.47	0.00	-4184.65	-20.83	0.00	692.21	0.00	0.00	0.00
175	RT	Reliability Assessment	SCE	NA	3/2/2021	390 - 425	No	DEC	19	5:00	0:00	538.85	-15712.68	0.00	-17008.40	-9.12	0.00	295.17	0.00	0.00	0.00
176	RT	Reliability Assessment	SCE	NA	3/2/2021	425	No	INC	17	0:00	17:00	1080.53	19774.49	0.00	-21403.56	0.00	0.00	0.00	0.00	0.00	0.00
177	RT	Reliability Assessment	SCE	NA	3/3/2021	195 - 400	No	DEC	24	0:00	0:00	-61.56	-77779.04	0.00	634.91	-2.15	0.00	65.92	0.00	0.00	0.00
178	RT	Reliability Assessment	SCE	NA	3/3/2021	315 - 400	No	INC	13	3:00	16:00	90.15	17718.26	0.00	-1899.73	17.97	-563.96	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
179	RT	Reliability Assessment	SCE	NA	3/4/2021	195 - 330	No	DEC	24	0:00	0:00	-66.44	-89344.70	0.00	2255.43	-37.59	0.00	1252.50	0.00	0.00	0.00
180	RT	Reliability Assessment	SCE	NA	3/5/2021	330 - 450	No	DEC	24	0:00	0:00	3.40	-22576.21	0.00	-89.41	-0.99	0.00	32.97	0.00	0.00	0.00
181	RT	Reliability Assessment	SCE	NA	3/5/2021	330	No	INC	1	7:00	8:00	-2.54	-3205.65	0.00	263.12	0.00	0.00	0.00	0.00	0.00	0.00
182	RT	Reliability Assessment	SCE	NA	3/6/2021	450 - 474	No	DEC	6	0:00	6:00	-0.27	-5371.32	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00
183	RT	Reliability Assessment	SCE	NA	3/6/2021	450 - 474	No	INC	5	3:00	8:00	52.54	226.25	0.00	1352.78	0.00	0.00	0.00	0.00	0.00	0.00
184	RT	Reliability Assessment	SCE	NA	3/8/2021	425	No	DEC	6	18:00	0:00	-3.75	-2148.77	0.00	123.49	0.00	0.00	0.00	0.00	0.00	0.00
185	RT	Reliability Assessment	SCE	NA	3/8/2021	425	No	INC	1	17:00	18:00	7.55	5040.98	0.00	-92.32	0.00	0.00	0.00	0.00	0.00	0.00
186	RT	Reliability Assessment	SCE	NA	3/9/2021	405 - 425	No	DEC	24	0:00	0:00	-12.89	-39671.39	24375.06	400.45	0.00	0.00	0.00	0.00	0.00	0.00
187	RT	Reliability Assessment	SCE	NA	3/9/2021	405 - 425	No	INC	11	6:00	17:00	20.85	10348.33	0.00	419.66	-12.50	0.00	396.37	0.00	0.00	0.00
188	RT	Reliability Assessment	SCE	NA	3/10/2021	405	No	DEC	7	0:00	7:00	4.48	-27944.53	0.00	-166.48	0.00	0.00	0.00	0.00	0.00	0.00
189	RT	Reliability Assessment	SDGE	San Diego-IV	3/11/2021	15 - 18	No	INC	2	9:20	10:45	0.52	0.00	0.00	-67.99	-0.53	0.00	-4.97	0.00	0.00	0.00
190	RT	Software Limitation	PGAE	Bay Area	3/24/2021	120	No	INC	1	5:55	6:45	339.31	3875.45	0.00	-12618.09	0.00	0.00	0.00	0.00	0.00	0.00
191	RT	Software Limitation	PGAE	Fresno	3/16/2021	0	No	DEC	2	5:00	7:00	-1.67	0.00	0.00	166.67	0.00	0.00	0.00	0.00	0.00	0.00
192	RT	Software Limitation	PGAE	Fresno	3/17/2021	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
193	RT	Software Limitation	SCE	LA Basin	3/10/2021	0	No	INC	1	9:50	10:20	-2.50	121.36	0.00	0.00	-2.50	0.00	0.00	0.00	0.00	0.00
194	RT	Software Limitation	SCE	LA Basin	3/20/2021	0	No	INC	1	7:10	7:40	0.00	41.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	RT	Software Limitation	SCE	LA Basin	3/24/2021	45.38 - 45.56	No	DEC	1	6:15	6:45	-9.07	0.00	0.00	302.56	0.00	0.00	0.00	0.00	0.00	0.00
196	RT	Software Limitation	SCE	LA Basin	3/24/2021	48.29 - 147	No	INC	1	6:15	6:45	88.43	1778.09	2342.43	-3209.74	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
197	RT	Software Limitation	SDGE	San Diego-IV	3/24/2021	0	No	INC	2	10:30	11:55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	RT	Unit Testing	Intertie	NA	3/13/2021	38 - 57	No	INC	3	10:00	12:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	RT	Unit Testing	PGAE	Bay Area	3/23/2021	121	No	INC	1	21:50	22:00	20.03	0.00	0.00	-799.51	4.05	-161.57	0.00	0.00	0.00	0.00
200	RT	Unit Testing	PGAE	Fresno	3/16/2021	107	No	INC	1	6:00	6:45	37.42	0.00	0.00	-2502.10	0.00	0.00	0.00	0.00	0.00	0.00
201	RT	Unit Testing	PGAE	Fresno	3/17/2021	83	No	DEC	4	18:00	21:15	193.96	0.00	0.00	-7919.90	0.00	0.00	0.00	0.00	0.00	0.00
202	RT	Unit Testing	SCE	LA Basin	3/13/2021	-37.72	No	INC	1	2:00	2:45	3.50	0.00	0.00	-77.91	0.00	0.00	0.00	0.00	0.00	0.00
203	RT	Unit Testing	SCE	LA Basin	3/16/2021	30 - 48.01	No	INC	2	19:00	20:45	6.17	2683.42	0.00	-59.70	9.78	-438.89	0.00	0.00	0.00	0.00
204	RT	Unit Testing	SCE	LA Basin	3/23/2021	88	No	INC	1	18:50	19:00	4.67	0.00	0.00	-224.42	0.00	0.00	0.00	0.00	0.00	0.00
205	RT	Unit Testing	SCE	LA Basin	3/24/2021	150 - 250	No	INC	4	8:00	12:00	576.59	16976.01	0.00	-13178.87	99.08	-2052.19	0.00	0.00	0.00	0.00
206	RT	Unit Testing	SDGE	San Diego-IV	3/16/2021	44 - 107.8	No	INC	4	19:05	22:20	47.64	1001.19	0.00	-2253.75	26.70	-1262.22	0.00	0.00	0.00	0.00
207	RT	Unit Testing	SDGE	San Diego-IV	3/17/2021	-250	No	DEC	1	11:00	11:40	-1.30	0.00	0.00	-536.71	-36.13	0.00	0.00	0.00	0.00	0.00
208	RT	Unit Testing	SDGE	San Diego-IV	3/23/2021	44	No	INC	1	20:45	21:00	-2.62	0.00	0.00	107.45	1.06	-35.19	0.00	0.00	0.00	0.00
209	RT	Unit Testing	NA	NA	3/30/2021	100	No	INC	4	6:00	10:00	1193.75	0.00	0.00	-39961.39	1193.75	-39961.39	0.00	0.00	0.00	0.00
210	RT	Unit Testing	NA	NA	3/31/2021	-100	No	DEC	4	6:00	10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	RT	Voltage Support	PGAE	Fresno	3/5/2021	-310	No	DEC	5	1:15	5:30	-155.00	0.00	0.00	4815.76	0.00	0.00	0.00	0.00	0.00	0.00
212	RT	Voltage Support	PGAE	Fresno	3/6/2021	-310	No	DEC	4	2:45	6:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	RT	Voltage Support	PGAE	Fresno	3/7/2021	-310	No	DEC	4	2:00	6:00	10.33	0.00	0.00	-307.75	0.00	0.00	0.00	0.00	0.00	0.00
214	RT	Voltage Support	PGAE	Fresno	3/8/2021	-310	No	DEC	4	2:35	6:00	15.50	0.00	0.00	-423.50	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	
215	RT	Voltage Support	PGAE	Fresno	3/9/2021	-314	No	DEC	6	0:45	6:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
216	RT	Voltage Support	PGAE	Fresno	3/10/2021	-314	No	DEC	7	0:00	6:15	55.14	0.00	0.00	-2372.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	RT	Voltage Support	PGAE	Fresno	3/11/2021	83	No	DEC	2	4:00	6:00	-20.15	0.00	0.00	899.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	RT	Voltage Support	PGAE	Fresno	3/11/2021	83	No	INC	3	1:40	4:00	28.21	5345.91	0.00	-1287.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	RT	Voltage Support	PGAE	Fresno	3/12/2021	-314	No	DEC	4	1:30	5:30	3.50	0.00	0.00	-142.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	RT	Voltage Support	PGAE	Fresno	3/13/2021	-316 - -315	No	DEC	20	4:15	0:00	3.18	0.00	0.00	-97.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	RT	Voltage Support	PGAE	Fresno	3/14/2021	-316	No	DEC	8	0:00	9:00	-10.59	0.00	0.00	272.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222	RT	Voltage Support	PGAE	Fresno	3/15/2021	-315	No	DEC	1	23:45	0:00	11.11	0.00	0.00	-406.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	RT	Voltage Support	PGAE	Fresno	3/15/2021	83	No	INC	14	4:45	18:00	0.97	8944.11	0.00	-129.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	RT	Voltage Support	PGAE	Fresno	3/16/2021	-315	No	DEC	7	0:00	7:00	-173.88	0.00	0.00	20103.62	0.00	0.00	0.00	0.00	-1717.02	0.00	0.00
225	RT	Voltage Support	PGAE	Fresno	3/17/2021	-310 - 0	No	DEC	24	0:15	0:00	11.23	-1987.58	0.00	-481.96	0.00	0.00	0.00	0.00	-1878.08	0.00	0.00
226	RT	Voltage Support	PGAE	Fresno	3/18/2021	-313 - -310	No	DEC	24	0:00	0:00	-0.39	0.00	0.00	16.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	RT	Voltage Support	PGAE	Fresno	3/19/2021	-313	No	DEC	24	0:00	0:00	1.18	0.00	0.00	-38.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	RT	Voltage Support	PGAE	Fresno	3/20/2021	-313	No	DEC	6	0:00	5:45	-138.00	0.00	0.00	4281.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	RT	Voltage Support	PGAE	Fresno	3/20/2021	83	No	INC	1	23:25	0:00	-90.87	0.00	0.00	2869.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	RT	Voltage Support	PGAE	Fresno	3/21/2021	83	No	DEC	1	0:25	1:00	-11.26	0.00	0.00	326.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	RT	Voltage Support	PGAE	Fresno	3/21/2021	83	No	INC	24	0:00	0:00	232.47	46159.86	0.00	-10148.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	RT	Voltage Support	PGAE	Fresno	3/22/2021	83	No	INC	6	0:00	6:00	-57.08	29114.61	0.00	1558.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/March/2021 - 31/March/2021**

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
233	RT	Voltage Support	PGAE	Fresno	3/23/2021	0 - 83	No	DEC	6	18:00	0:00	0.95	-1130.87	0.00	-18.21	0.00	0.00	0.00	0.00	0.00	0.00
234	RT	Voltage Support	PGAE	Fresno	3/23/2021	83	No	INC	1	17:15	18:00	5.94	3392.60	0.00	-173.08	0.00	0.00	0.00	0.00	0.00	0.00
235	RT	Voltage Support	PGAE	Fresno	3/24/2021	-313 - 0	No	DEC	24	0:00	0:00	-168.25	0.00	0.00	6406.31	-76.67	0.00	3717.10	0.00	-4141.91	0.00
236	RT	Voltage Support	PGAE	Fresno	3/25/2021	-313 - 83	No	DEC	19	0:00	19:00	-63.20	0.00	0.00	2015.19	0.00	0.00	0.00	0.00	0.00	0.00
237	RT	Voltage Support	PGAE	Fresno	3/25/2021	83	No	INC	2	16:10	18:00	19.10	7916.06	0.00	-723.71	0.00	0.00	0.00	0.00	0.00	0.00
238	RT	Voltage Support	PGAE	Fresno	3/26/2021	-311	No	DEC	20	4:15	0:00	6.02	0.00	0.00	-192.48	0.00	0.00	0.00	0.00	0.00	0.00
239	RT	Voltage Support	PGAE	Fresno	3/27/2021	-311	No	DEC	8	0:00	8:00	-10.00	0.00	0.00	328.30	0.00	0.00	0.00	0.00	0.00	0.00
240	RT	Voltage Support	PGAE	Fresno	3/28/2021	-310	No	DEC	10	0:10	10:00	-30.00	0.00	0.00	1121.56	0.00	0.00	0.00	0.00	-413.99	0.00
241	RT	Voltage Support	PGAE	Fresno	3/29/2021	-310	No	DEC	5	0:00	4:45	-227.70	0.00	0.00	6590.65	0.00	0.00	0.00	0.00	0.00	0.00
242	RT	Voltage Support	PGAE	Fresno	3/29/2021	83	No	INC	1	23:15	0:00	-33.84	0.00	0.00	1072.89	0.00	0.00	0.00	0.00	0.00	0.00
243	RT	Voltage Support	PGAE	Fresno	3/30/2021	0 - 83	No	DEC	19	5:00	0:00	-154.36	0.00	0.00	5298.69	-115.30	0.00	4202.70	0.00	-1946.33	0.00
244	RT	Voltage Support	PGAE	Fresno	3/30/2021	83	Yes	INC	5	0:05	5:00	-190.54	22274.61	0.00	6539.27	0.00	0.00	0.00	0.00	0.00	0.00
245	RT	Voltage Support	PGAE	Fresno	3/31/2021	-311	No	DEC	4	0:00	4:00	-149.63	0.00	0.00	7422.95	0.00	0.00	0.00	0.00	0.00	0.00
246	RT	Voltage Support	PGAE	Fresno	3/31/2021	83	No	INC	1	4:15	5:00	78.11	2179.49	0.00	-2904.71	0.00	0.00	0.00	0.00	0.00	0.00
247	RT	Voltage Support	PGAE	Sierra	3/1/2021	20 - 23	Yes	INC	8	0:00	8:00	11.20	26492.98	0.00	-778.36	0.00	0.00	0.00	0.00	-169.24	0.00
248	RT	Voltage Support	PGAE	Sierra	3/6/2021	20	No	INC	8	12:10	20:00	-28.88	13809.34	430.21	1216.61	0.00	0.00	0.00	0.00	0.00	0.00
249	RT	Voltage Support	PGAE	Sierra	3/12/2021	20	No	INC	7	12:45	19:00	10.00	9700.43	0.00	-274.04	0.00	0.00	0.00	0.00	0.00	0.00
250	RT	Voltage Support	PGAE	Sierra	3/13/2021	20	No	INC	10	10:45	20:00	10.58	34942.66	858.92	2.36	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/March/2021 - 31/March/2021**

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
251	RT	Voltage Support	PGAE	Sierra	3/14/2021	20	No	INC	10	11:10	21:00	-12.10	16224.71	399.32	-116.47	0.00	0.00	0.00	0.00	0.00	0.00
252	RT	Voltage Support	PGAE	Sierra	3/21/2021	20	No	INC	18	6:40	0:00	60.88	58041.90	484.07	-1618.01	0.00	0.00	0.00	0.00	0.00	0.00
253	RT	Voltage Support	PGAE	Sierra	3/22/2021	20	Yes	INC	7	0:00	7:00	0.00	26573.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	RT	Voltage Support	PGAE	Sierra	3/23/2021	20 - 24	No	INC	5	16:00	21:00	-1.60	17321.47	0.00	452.74	0.00	0.00	0.00	0.00	0.00	0.00
255	RT	Voltage Support	PGAE	NA	3/16/2021	205	No	DEC	1	23:40	0:00	-8.96	-3336.57	0.00	333.52	0.00	0.00	0.00	0.00	0.00	0.00
256	RT	Voltage Support	PGAE	NA	3/17/2021	205	No	DEC	23	0:00	23:00	-58.18	-1152.54	0.00	2062.83	0.00	0.00	0.00	0.00	0.00	0.00
257	RT	Voltage Support	PGAE	NA	3/17/2021	205	No	INC	23	1:00	0:00	-3.98	26075.65	0.00	178.43	0.00	0.00	0.00	0.00	0.00	0.00
258	RT	Voltage Support	PGAE	NA	3/18/2021	205	No	DEC	2	20:20	22:00	80.34	0.00	0.00	-2501.66	0.00	0.00	0.00	0.00	0.00	0.00
259	RT	Voltage Support	PGAE	NA	3/18/2021	205	No	INC	24	0:00	0:00	-43.66	50151.26	0.00	1446.99	0.00	0.00	0.00	0.00	0.00	0.00
260	RT	Voltage Support	PGAE	NA	3/19/2021	49	No	DEC	1	21:00	22:00	56.25	-11937.99	222.47	-1855.41	0.00	0.00	0.00	0.00	0.00	0.00
261	RT	Voltage Support	PGAE	NA	3/19/2021	49 - 205	No	INC	24	0:00	0:00	1019.29	57167.22	889.89	-27844.88	0.00	0.00	0.00	0.00	0.00	0.00
262	RT	Voltage Support	PGAE	NA	3/20/2021	49	No	DEC	1	7:00	8:00	7.94	0.00	0.00	-313.26	0.00	0.00	0.00	0.00	0.00	0.00
263	RT	Voltage Support	PGAE	NA	3/20/2021	49	No	INC	9	0:00	8:45	-20.80	19184.55	0.00	347.43	0.00	0.00	0.00	0.00	0.00	0.00
264	RT	Voltage Support	PGAE	NA	3/21/2021	49	No	INC	24	0:15	0:00	131.01	17905.58	0.00	-3177.21	0.04	-0.54	0.00	0.00	-0.90	0.00
265	RT	Voltage Support	PGAE	NA	3/22/2021	103	No	DEC	2	6:00	8:00	-17.90	0.00	0.00	499.64	0.00	0.00	0.00	0.00	0.00	0.00
266	RT	Voltage Support	PGAE	NA	3/22/2021	49 - 103	No	INC	6	0:00	6:00	-87.99	28137.29	0.00	1856.38	10.43	-201.91	0.00	0.00	-94.04	0.00
267	RT	Voltage Support	PGAE	NA	3/25/2021	49	No	DEC	3	18:00	21:00	-22.99	-11128.51	0.00	1290.20	0.00	0.00	0.00	0.00	0.00	0.00
268	RT	Voltage Support	PGAE	NA	3/25/2021	49 - 50	No	INC	8	16:40	0:00	-21.03	10590.48	0.00	694.63	0.03	-0.54	0.00	0.00	-0.07	0.00

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**Chart 2: Table of Exceptional Dispatches for Period 01/March/2021 - 31/March/2021**

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
269	RT	Voltage Support	PGAE	NA	3/26/2021	49	No	INC	6	0:00	6:00	-17.82	17236.70	0.00	547.81	0.00	0.00	0.00	0.00	0.00	0.00
270	RT	Voltage Support	PGAE	NA	3/30/2021	97.9 - 147	No	INC	23	1:05	0:00	214.85	27750.08	459.41	-7880.73	12.28	-279.48	0.00	0.00	-55.47	0.00
271	RT	Voltage Support	PGAE	NA	3/31/2021	97.9	No	INC	7	0:00	7:00	638.56	37025.80	0.00	-22753.44	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>7</sup>. Only those quantities which relate to pre-day-ahead unit commitments are shown in this table.

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

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

This data is summarized as shown in Table 3, which is the prescribed format specified in the FERC order on September 02, 2009. This summary classifies the data by reason, resource location, local reliability area, and trade date. The MW column in Table 3 is the range of MW; in this case the minimum instruction MW is 20 MW for resource C which occurs from hours ending 21 through 23. The maximum instruction occurs in hour ending 10. In this hour resource A is committed at 50 MW, resource B is committed at 30 MW and resource C is committed at 20 MW. This adds up to 100 MW. The MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. Commitments are broken out separately from energy dispatches. In the day-ahead however, the exceptional dispatches are nearly always just commitments, as in this example. The Begin Time column shows hour ending 5 as this was the hour ending for first dispatch of the day, and the End Time column shows hour ending 23, as this was the hour with last dispatch. It is also possible there might be hours between the begin time and

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

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 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	
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 (PGAE) 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 PGAE 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 PGAE 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 8,916 five-minute intervals in March, this resource was issued exceptional dispatch instructions in 3,144 five-minute intervals. This resource was eligible to set the LMP in 3,143 intervals. Out of the 3,143 intervals, resource calculated LMP was larger than the market LMP in 122 intervals. In the 122 intervals, the average increase in five minute LMP was \$3.77/MWh. Out of the 3,143 intervals, resource calculated LMP was less than the market LMP in 3,021 intervals. In the 3,021 intervals, the average decrease in five minute LMP was \$39.94/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 \$38.25/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 8,916 five-minute intervals in March, this resource was issued exceptional dispatch instructions in 2,031 five-minute intervals. This resource was eligible to set the LMP in 1,377 intervals. Out of the 1,377 intervals, resource calculated LMP was larger than the market LMP in 794 intervals. In the 794 intervals, the average increase in five minute LMP was \$12.95/MWh. Out of the 1,377 intervals, resource calculated LMP was less than the market LMP in 583 intervals. In the 583 intervals, the average decrease in five minute LMP was \$9.37/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 increase of \$3.50/MWh

**Table 8: Price Impact Analysis Information for Pricing Node A in PGAE LAP**

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	3/1/2021	14	10	-14.90	Yes	-15	-0.10
2	3/1/2021	14	11	-14.90	Yes	-15	-0.10
3	3/1/2021	14	12	18.37	Yes	-15	-33.37
4	3/1/2021	15	1	17.07	Yes	-15	-32.07
5	3/1/2021	15	2	16.70	Yes	-15	-31.70
6	3/1/2021	15	3	16.81	Yes	-15	-31.81
7	3/1/2021	15	4	17.91	Yes	-15	-32.91
8	3/1/2021	15	5	18.24	Yes	-15	-33.24
9	3/1/2021	15	6	18.25	Yes	-15	-33.25
10	3/1/2021	15	7	18.28	Yes	-15	-33.28
11	3/1/2021	15	8	17.88	Yes	-15	-32.88
12	3/1/2021	15	9	17.17	Yes	-15	-32.17
13	3/1/2021	15	10	18.18	Yes	-15	-33.18
14	3/1/2021	15	11	18.11	Yes	-15	-33.11
15	3/1/2021	15	12	16.43	Yes	-15	-31.43
16	3/1/2021	16	1	16.91	Yes	-15	-31.91
17	3/1/2021	16	2	16.34	Yes	-15	-31.34
18	3/1/2021	16	3	16.91	Yes	-15	-31.91
19	3/1/2021	16	4	17.28	Yes	-15	-32.28
20	3/1/2021	16	5	18.89	Yes	-15	-33.89
21	3/1/2021	16	6	18.89	Yes	-15	-33.89
22	3/1/2021	16	7	18.90	Yes	-15	-33.90
23	3/1/2021	16	8	19.01	Yes	-15	-34.01
24	3/1/2021	16	9	18.11	Yes	-15	-33.11
25	3/1/2021	16	10	22.85	Yes	-15	-37.85
26	3/1/2021	16	11	19.18	Yes	-15	-34.18
27	3/1/2021	16	12	19.01	Yes	-15	-34.01
28	3/1/2021	17	1	5.38	Yes	-15	-20.38
29	3/1/2021	17	2	12.10	Yes	-15	-27.10
30	3/1/2021	17	3	9.68	Yes	-15	-24.68
31	3/1/2021	17	4	-14.92	Yes	-15	-0.08
32	3/1/2021	17	5	-14.92	Yes	-15	-0.08
33	3/1/2021	17	6	-14.89	Yes	-15	-0.11
34	3/1/2021	17	7	27.63	Yes	-15	-42.63

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
35	3/1/2021	17	8	31.52	Yes	-15	-46.52
36	3/1/2021	17	9	33.55	Yes	-15	-48.55
37	3/1/2021	17	10	38.37	Yes	-15	-53.37
38	3/1/2021	17	11	51.45	Yes	-15	-66.45
39	3/1/2021	17	12	80.48	Yes	-15	-95.48
40	3/1/2021	18	1	32.81	Yes	-15	-47.81
41	3/1/2021	18	2	31.82	Yes	-15	-46.82
42	3/1/2021	18	3	32.10	Yes	-15	-47.10
43	3/1/2021	18	4	35.70	Yes	-15	-50.70
44	3/1/2021	18	5	65.98	Yes	-15	-80.98
45	3/1/2021	18	6	479.82	Yes	-15	-494.82
46	3/1/2021	18	7	75.38	Yes	-15	-90.38
47	3/1/2021	18	8	109.93	Yes	-15	-124.93
48	3/1/2021	18	9	68.98	Yes	-15	-83.98
49	3/1/2021	18	10	85.18	Yes	-15	-100.18
50	3/1/2021	18	11	70.03	Yes	-15	-85.03
51	3/1/2021	18	12	80.00	Yes	-15	-95.00
52	3/1/2021	19	1	52.79	Yes	-15	-67.79
53	3/1/2021	19	2	46.54	Yes	-15	-61.54
54	3/1/2021	19	3	45.33	Yes	-15	-60.33
55	3/1/2021	19	4	48.01	Yes	-15	-63.01
56	3/1/2021	19	5	52.88	Yes	-15	-67.88
57	3/1/2021	19	6	50.99	Yes	-15	-65.99
58	3/1/2021	19	7	51.63	Yes	-15	-66.63
59	3/1/2021	19	8	49.63	Yes	-15	-64.63
60	3/1/2021	19	9	46.44	Yes	-15	-61.44
61	3/1/2021	19	10	42.97	Yes	-15	-57.97
62	3/1/2021	19	11	42.31	Yes	-15	-57.31
63	3/1/2021	19	12	44.07	Yes	-15	-59.07
64	3/1/2021	20	1	48.25	Yes	-15	-63.25
65	3/1/2021	20	2	46.29	Yes	-15	-61.29
66	3/1/2021	20	3	46.10	Yes	-15	-61.10
67	3/1/2021	20	4	50.68	Yes	-15	-65.68
68	3/1/2021	20	5	51.61	Yes	-15	-66.61
69	3/1/2021	20	6	51.51	Yes	-15	-66.51
70	3/1/2021	20	7	51.53	Yes	-15	-66.53
71	3/1/2021	20	8	51.44	Yes	-15	-66.44
72	3/1/2021	20	9	51.84	Yes	-15	-66.84

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
73	3/1/2021	20	10	51.49	Yes	-15	-66.49
74	3/1/2021	20	11	51.23	Yes	-15	-66.23
75	3/1/2021	20	12	49.00	Yes	-15	-64.00
76	3/1/2021	21	1	45.70	Yes	-15	-60.70
77	3/1/2021	21	2	46.71	Yes	-15	-61.71
78	3/1/2021	21	3	42.73	Yes	-15	-57.73
79	3/1/2021	21	4	42.59	Yes	-15	-57.59
80	3/1/2021	21	5	41.51	Yes	-15	-56.51
81	3/1/2021	21	6	41.68	Yes	-15	-56.68
82	3/1/2021	21	7	41.57	Yes	-15	-56.57
83	3/1/2021	21	8	40.17	Yes	-15	-55.17
84	3/1/2021	21	9	40.54	Yes	-15	-55.54
85	3/1/2021	21	10	41.86	Yes	-15	-56.86
86	3/1/2021	21	11	45.24	Yes	-15	-60.24
87	3/1/2021	21	12	42.02	Yes	-15	-57.02
88	3/1/2021	22	1	40.54	Yes	-15	-55.54
89	3/1/2021	22	2	39.74	Yes	-15	-54.74
90	3/1/2021	22	3	39.03	Yes	-15	-54.03
91	3/1/2021	22	4	38.85	Yes	-15	-53.85
92	3/1/2021	22	5	39.82	Yes	-15	-54.82
93	3/1/2021	22	6	39.55	Yes	-15	-54.55
94	3/1/2021	22	7	39.60	Yes	-15	-54.60
95	3/1/2021	22	8	39.25	Yes	-15	-54.25
96	3/1/2021	22	9	38.11	Yes	-15	-53.11
97	3/1/2021	22	10	37.69	Yes	-15	-52.69
98	3/1/2021	22	11	37.56	Yes	-15	-52.56
99	3/1/2021	22	12	36.37	Yes	-15	-51.37
100	3/1/2021	23	1	40.92	Yes	-15	-55.92
101	3/1/2021	23	2	41.04	Yes	-15	-56.04
102	3/1/2021	23	3	38.98	Yes	-15	-53.98
103	3/1/2021	23	4	44.59	Yes	-15	-59.59
104	3/1/2021	23	5	44.01	Yes	-15	-59.01
105	3/1/2021	23	6	44.18	Yes	-15	-59.18
106	3/1/2021	23	7	44.04	Yes	-15	-59.04
107	3/1/2021	23	8	44.05	Yes	-15	-59.05
108	3/1/2021	23	9	35.86	Yes	-15	-50.86
109	3/1/2021	23	10	34.49	Yes	-15	-49.49
110	3/1/2021	23	11	31.64	Yes	-15	-46.64

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
111	3/1/2021	23	12	32.73	Yes	-15	-47.73
112	3/1/2021	24	1	-14.81	Yes	-15	-0.19
113	3/1/2021	24	2	-14.81	Yes	-15	-0.19
114	3/1/2021	24	3	-14.81	Yes	-15	-0.19
115	3/1/2021	24	4	31.49	Yes	-15	-46.49
116	3/1/2021	24	5	31.49	Yes	-15	-46.49
117	3/1/2021	24	6	29.60	Yes	-15	-44.60
118	3/1/2021	24	7	29.21	Yes	-15	-44.21
119	3/1/2021	24	8	29.43	Yes	-15	-44.43
120	3/1/2021	24	9	29.22	Yes	-15	-44.22
121	3/1/2021	24	10	29.33	Yes	-15	-44.33
122	3/1/2021	24	11	29.47	Yes	-15	-44.47
123	3/1/2021	24	12	28.42	Yes	-15	-43.42
124	3/2/2021	1	1	29.63	Yes	1	-28.63
125	3/2/2021	1	2	29.79	Yes	1	-28.79
126	3/2/2021	1	3	29.71	Yes	1	-28.71
127	3/2/2021	1	4	29.42	Yes	1	-28.42
128	3/2/2021	1	5	29.58	Yes	1	-28.58
129	3/2/2021	1	6	29.34	Yes	1	-28.34
130	3/2/2021	1	7	29.29	Yes	1	-28.29
131	3/2/2021	1	8	28.81	Yes	1	-27.81
132	3/2/2021	1	9	28.55	Yes	1	-27.55
133	3/2/2021	1	10	28.38	Yes	1	-27.38
134	3/2/2021	1	11	27.81	Yes	1	-26.81
135	3/2/2021	1	12	27.46	Yes	1	-26.46
136	3/2/2021	2	1	27.82	Yes	1	-26.82
137	3/2/2021	2	2	27.38	Yes	1	-26.38
138	3/2/2021	2	3	27.31	Yes	1	-26.31
139	3/2/2021	2	4	27.24	Yes	1	-26.24
140	3/2/2021	2	5	27.61	Yes	1	-26.61
141	3/2/2021	2	6	27.85	Yes	1	-26.85
142	3/2/2021	2	7	27.49	Yes	1	-26.49
143	3/2/2021	2	8	27.24	Yes	1	-26.24
144	3/2/2021	2	9	27.24	Yes	1	-26.24
145	3/2/2021	2	10	27.20	Yes	1	-26.20
146	3/2/2021	2	11	27.06	Yes	1	-26.06
147	3/2/2021	2	12	27.02	Yes	1	-26.02
148	3/2/2021	3	1	27.23	Yes	1	-26.23

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
149	3/2/2021	3	2	26.97	Yes	1	-25.97
150	3/2/2021	3	3	27.07	Yes	1	-26.07
151	3/2/2021	3	4	27.09	Yes	1	-26.09
152	3/2/2021	3	5	27.08	Yes	1	-26.08
153	3/2/2021	3	6	27.08	Yes	1	-26.08
154	3/2/2021	3	7	26.98	Yes	1	-25.98
155	3/2/2021	3	8	26.98	Yes	1	-25.98
156	3/2/2021	3	9	27.35	Yes	1	-26.35
157	3/2/2021	3	10	27.14	Yes	1	-26.14
158	3/2/2021	3	11	26.96	Yes	1	-25.96
159	3/2/2021	3	12	26.96	Yes	1	-25.96
160	3/2/2021	4	1	27.22	Yes	1	-26.22
161	3/2/2021	4	2	27.08	Yes	1	-26.08
162	3/2/2021	4	3	27.25	Yes	1	-26.25
163	3/2/2021	4	4	27.23	Yes	1	-26.23
164	3/2/2021	4	5	27.23	Yes	1	-26.23
165	3/2/2021	4	6	27.24	Yes	1	-26.24
166	3/2/2021	4	7	27.53	Yes	1	-26.53
167	3/2/2021	4	8	27.67	Yes	1	-26.67
168	3/2/2021	4	9	27.53	Yes	1	-26.53
169	3/2/2021	4	10	27.47	Yes	1	-26.47
170	3/2/2021	4	11	27.47	Yes	1	-26.47
171	3/2/2021	4	12	27.26	Yes	1	-26.26
172	3/2/2021	5	1	27.25	Yes	1	-26.25
173	3/2/2021	5	2	26.93	Yes	1	-25.93
174	3/2/2021	5	3	27.25	Yes	1	-26.25
175	3/2/2021	5	4	27.51	Yes	1	-26.51
176	3/2/2021	5	5	28.03	Yes	1	-27.03
177	3/2/2021	5	6	28.17	Yes	1	-27.17
178	3/2/2021	5	7	28.55	Yes	1	-27.55
179	3/2/2021	5	8	29.31	Yes	1	-28.31
180	3/2/2021	5	9	29.31	Yes	1	-28.31
181	3/2/2021	5	10	29.36	Yes	1	-28.36
182	3/2/2021	5	11	29.36	Yes	1	-28.36
183	3/2/2021	5	12	29.59	Yes	1	-28.59
184	3/2/2021	6	1	27.05	Yes	1	-26.05
185	3/2/2021	6	2	27.12	Yes	1	-26.12
186	3/2/2021	6	3	27.47	Yes	1	-26.47



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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
187	3/2/2021	6	4	28.32	Yes	1	-27.32
188	3/2/2021	6	5	28.59	Yes	1	-27.59
189	3/2/2021	6	6	28.80	Yes	1	-27.80
190	3/2/2021	6	7	29.79	Yes	1	-28.79
191	3/2/2021	6	8	30.52	Yes	1	-29.52
192	3/2/2021	6	9	31.04	Yes	1	-30.04
193	3/2/2021	6	10	31.26	Yes	1	-30.26
194	3/2/2021	6	11	32.37	Yes	1	-31.37
195	3/2/2021	6	12	33.45	Yes	1	-32.45
196	3/2/2021	7	1	36.55	Yes	1	-35.55
197	3/2/2021	7	2	33.36	Yes	1	-32.36
198	3/2/2021	7	3	36.06	Yes	1	-35.06
199	3/2/2021	7	4	34.81	Yes	1	-33.81
200	3/2/2021	7	5	33.64	Yes	1	-32.64
201	3/2/2021	7	6	35.26	Yes	1	-34.26
202	3/2/2021	7	7	33.23	Yes	1	-32.23
203	3/2/2021	7	8	32.36	Yes	1	-31.36
204	3/2/2021	7	9	31.49	Yes	1	-30.49
205	3/2/2021	7	10	30.99	Yes	1	-29.99
206	3/2/2021	7	11	29.02	Yes	1	-28.02
207	3/2/2021	7	12	28.92	Yes	1	-27.92
208	3/2/2021	8	1	31.67	Yes	1	-30.67
209	3/2/2021	8	2	30.37	Yes	1	-29.37
210	3/2/2021	8	3	31.26	Yes	1	-30.26
211	3/2/2021	8	4	28.82	Yes	1	-27.82
212	3/2/2021	8	5	28.34	Yes	1	-27.34
213	3/2/2021	8	6	28.56	Yes	1	-27.56
214	3/2/2021	8	7	21.49	Yes	1	-20.49
215	3/2/2021	8	8	20.54	Yes	1	-19.54
216	3/2/2021	8	9	18.50	Yes	1	-17.50
217	3/2/2021	8	10	15.16	Yes	1	-14.16
218	3/2/2021	8	11	19.25	Yes	1	-18.25
219	3/2/2021	8	12	18.55	Yes	1	-17.55
220	3/2/2021	9	1	20.39	Yes	1	-19.39
221	3/2/2021	9	2	26.89	Yes	1	-25.89
222	3/2/2021	9	3	27.62	Yes	1	-26.62
223	3/2/2021	9	4	21.41	Yes	1	-20.41
224	3/2/2021	9	5	83.82	Yes	1	-82.82

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
225	3/2/2021	9	6	73.96	Yes	1	-72.96
226	3/2/2021	9	7	65.50	Yes	1	-64.50
227	3/2/2021	9	8	39.01	Yes	1	-38.01
228	3/2/2021	9	9	31.44	Yes	1	-30.44
229	3/2/2021	9	10	31.34	Yes	1	-30.34
230	3/2/2021	9	11	24.34	Yes	1	-23.34
231	3/2/2021	9	12	24.53	Yes	1	-23.53
232	3/2/2021	10	1	28.70	Yes	1	-27.70
233	3/2/2021	10	2	27.40	Yes	1	-26.40
234	3/2/2021	10	3	27.69	Yes	1	-26.69
235	3/2/2021	10	4	28.93	Yes	1	-27.93
236	3/2/2021	10	5	28.02	Yes	1	-27.02
237	3/2/2021	10	6	27.22	Yes	1	-26.22
238	3/2/2021	10	7	22.20	Yes	1	-21.20
239	3/2/2021	10	8	21.94	Yes	1	-20.94
240	3/2/2021	10	9	20.84	Yes	1	-19.84
241	3/2/2021	10	10	21.44	Yes	1	-20.44
242	3/2/2021	10	11	26.81	Yes	1	-25.81
243	3/2/2021	10	12	22.96	Yes	1	-21.96
244	3/2/2021	11	1	26.71	Yes	1	-25.71
245	3/2/2021	11	2	25.25	Yes	1	-24.25
246	3/2/2021	11	3	23.95	Yes	1	-22.95
247	3/2/2021	11	4	25.67	Yes	1	-24.67
248	3/2/2021	11	5	23.77	Yes	1	-22.77
249	3/2/2021	11	6	22.75	Yes	1	-21.75
250	3/2/2021	11	7	23.91	Yes	1	-22.91
251	3/2/2021	11	8	19.48	Yes	1	-18.48
252	3/2/2021	11	9	18.68	Yes	1	-17.68
253	3/2/2021	11	10	21.80	Yes	1	-20.80
254	3/2/2021	11	11	21.24	Yes	1	-20.24
255	3/2/2021	11	12	19.48	Yes	1	-18.48
256	3/2/2021	12	1	29.92	Yes	1	-28.92
257	3/2/2021	12	2	27.89	Yes	1	-26.89
258	3/2/2021	12	3	28.94	Yes	1	-27.94
259	3/2/2021	12	4	27.54	Yes	1	-26.54
260	3/2/2021	12	5	32.97	Yes	1	-31.97
261	3/2/2021	12	6	31.82	Yes	1	-30.82
262	3/2/2021	12	7	20.67	Yes	1	-19.67

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
263	3/2/2021	12	8	22.28	Yes	1	-21.28
264	3/2/2021	12	9	22.00	Yes	1	-21.00
265	3/2/2021	12	10	30.22	Yes	1	-29.22
266	3/2/2021	12	11	30.05	Yes	1	-29.05
267	3/2/2021	12	12	29.77	Yes	1	-28.77
268	3/2/2021	13	1	29.14	Yes	1	-28.14
269	3/2/2021	13	2	27.77	Yes	1	-26.77
270	3/2/2021	13	3	27.76	Yes	1	-26.76
271	3/2/2021	13	4	27.27	Yes	1	-26.27
272	3/2/2021	13	5	26.42	Yes	1	-25.42
273	3/2/2021	13	6	25.69	Yes	1	-24.69
274	3/2/2021	13	7	26.00	Yes	1	-25.00
275	3/2/2021	13	8	25.44	Yes	1	-24.44
276	3/2/2021	13	9	23.12	Yes	1	-22.12
277	3/2/2021	13	10	18.23	Yes	1	-17.23
278	3/2/2021	13	11	26.83	Yes	1	-25.83
279	3/2/2021	13	12	26.49	Yes	1	-25.49
280	3/2/2021	14	1	19.55	Yes	1	-18.55
281	3/2/2021	14	2	20.25	Yes	1	-19.25
282	3/2/2021	14	3	20.49	Yes	1	-19.49
283	3/2/2021	14	4	35.61	Yes	1	-34.61
284	3/2/2021	14	5	30.76	Yes	1	-29.76
285	3/2/2021	14	6	30.85	Yes	1	-29.85
286	3/2/2021	14	7	23.42	Yes	1	-22.42
287	3/2/2021	14	8	23.39	Yes	1	-22.39
288	3/2/2021	14	9	23.13	Yes	1	-22.13
289	3/2/2021	14	10	22.99	Yes	1	-21.99
290	3/2/2021	14	11	24.25	Yes	1	-23.25
291	3/2/2021	14	12	24.25	Yes	1	-23.25
292	3/2/2021	15	1	3.18	Yes	-15	-18.18
293	3/2/2021	15	2	11.15	Yes	-15	-26.15
294	3/2/2021	15	3	15.94	Yes	-15	-30.94
295	3/2/2021	15	4	22.92	Yes	-15	-37.92
296	3/2/2021	15	5	22.92	Yes	-15	-37.92
297	3/2/2021	15	6	24.58	Yes	-15	-39.58
298	3/2/2021	15	7	24.18	Yes	-15	-39.18
299	3/2/2021	15	8	24.18	Yes	-15	-39.18
300	3/2/2021	15	9	24.16	Yes	-15	-39.16

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
301	3/2/2021	15	10	25.46	Yes	-15	-40.46
302	3/2/2021	15	11	26.02	Yes	-15	-41.02
303	3/2/2021	15	12	31.63	Yes	-15	-46.63
304	3/2/2021	16	1	31.13	Yes	1	-30.13
305	3/2/2021	16	2	31.77	Yes	1	-30.77
306	3/2/2021	16	3	34.13	Yes	1	-33.13
307	3/2/2021	16	4	45.54	Yes	1	-44.54
308	3/2/2021	16	5	58.45	Yes	1	-57.45
309	3/2/2021	16	6	67.64	Yes	1	-66.64
310	3/2/2021	16	7	55.65	Yes	1	-54.65
311	3/2/2021	16	8	32.60	Yes	1	-31.60
312	3/2/2021	16	9	63.33	Yes	1	-62.33
313	3/2/2021	16	10	25.62	Yes	1	-24.62
314	3/2/2021	16	11	27.79	Yes	1	-26.79
315	3/2/2021	16	12	23.08	Yes	1	-22.08
316	3/2/2021	17	1	19.97	Yes	1	-18.97
317	3/2/2021	17	2	20.48	Yes	1	-19.48
318	3/2/2021	17	3	20.31	Yes	1	-19.31
319	3/2/2021	17	4	26.62	Yes	1	-25.62
320	3/2/2021	17	5	29.52	Yes	1	-28.52
321	3/2/2021	17	6	30.65	Yes	1	-29.65
322	3/2/2021	17	7	30.09	Yes	1	-29.09
323	3/2/2021	17	8	36.04	Yes	1	-35.04
324	3/2/2021	17	9	45.39	Yes	1	-44.39
325	3/2/2021	17	10	79.82	Yes	1	-78.82
326	3/2/2021	17	11	91.45	Yes	1	-90.45
327	3/2/2021	17	12	168.25	Yes	1	-167.25
328	3/2/2021	18	1	35.19	Yes	1	-34.19
329	3/2/2021	18	2	35.25	Yes	1	-34.25
330	3/2/2021	18	3	35.95	Yes	1	-34.95
331	3/2/2021	18	4	44.76	Yes	1	-43.76
332	3/2/2021	18	5	42.58	Yes	1	-41.58
333	3/2/2021	18	6	45.63	Yes	1	-44.63
334	3/2/2021	18	7	41.26	Yes	1	-40.26
335	3/2/2021	18	8	46.17	Yes	1	-45.17
336	3/2/2021	18	9	52.74	Yes	1	-51.74
337	3/2/2021	18	10	55.27	Yes	1	-54.27
338	3/2/2021	18	11	53.10	Yes	1	-52.10

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
339	3/2/2021	18	12	62.41	Yes	1	-61.41
340	3/2/2021	19	1	59.94	Yes	-15	-74.94
341	3/2/2021	19	2	53.38	Yes	-15	-68.38
342	3/2/2021	19	3	46.18	Yes	-15	-61.18
343	3/2/2021	19	4	54.11	Yes	-15	-69.11
344	3/2/2021	19	5	48.42	Yes	-15	-63.42
345	3/2/2021	19	6	50.24	Yes	-15	-65.24
346	3/2/2021	19	7	47.47	Yes	-15	-62.47
347	3/2/2021	19	8	47.44	Yes	-15	-62.44
348	3/2/2021	19	9	43.96	Yes	-15	-58.96
349	3/2/2021	19	10	39.74	Yes	-15	-54.74
350	3/2/2021	19	11	39.61	Yes	-15	-54.61
351	3/2/2021	19	12	40.23	Yes	-15	-55.23
352	3/2/2021	20	1	41.36	Yes	1	-40.36
353	3/2/2021	20	2	41.79	Yes	1	-40.79
354	3/2/2021	20	3	41.36	Yes	1	-40.36
355	3/2/2021	20	4	41.25	Yes	1	-40.25
356	3/2/2021	20	5	40.31	Yes	1	-39.31
357	3/2/2021	20	6	41.25	Yes	1	-40.25
358	3/2/2021	20	7	41.18	Yes	1	-40.18
359	3/2/2021	20	8	40.79	Yes	1	-39.79
360	3/2/2021	20	9	40.68	Yes	1	-39.68
361	3/2/2021	20	10	40.19	Yes	1	-39.19
362	3/2/2021	20	11	40.20	Yes	1	-39.20
363	3/2/2021	20	12	40.40	Yes	1	-39.40
364	3/2/2021	21	1	40.34	Yes	1	-39.34
365	3/2/2021	21	2	40.29	Yes	1	-39.29
366	3/2/2021	21	3	39.74	Yes	1	-38.74
367	3/2/2021	21	4	39.83	Yes	1	-38.83
368	3/2/2021	21	5	39.90	Yes	1	-38.90
369	3/2/2021	21	6	38.96	Yes	1	-37.96
370	3/2/2021	21	7	38.64	Yes	1	-37.64
371	3/2/2021	21	8	38.36	Yes	1	-37.36
372	3/2/2021	21	9	37.53	Yes	1	-36.53
373	3/2/2021	21	10	36.67	Yes	1	-35.67
374	3/2/2021	21	11	37.43	Yes	1	-36.43
375	3/2/2021	21	12	37.10	Yes	1	-36.10
376	3/2/2021	22	1	37.67	Yes	1	-36.67

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377	3/2/2021	22	2	37.67	Yes	1	-36.67
378	3/2/2021	22	3	38.63	Yes	1	-37.63
379	3/2/2021	22	4	39.37	Yes	1	-38.37
380	3/2/2021	22	5	39.45	Yes	1	-38.45
381	3/2/2021	22	6	39.30	Yes	1	-38.30
382	3/2/2021	22	7	39.68	Yes	1	-38.68
383	3/2/2021	22	8	39.68	Yes	1	-38.68
384	3/2/2021	22	9	39.23	Yes	1	-38.23
385	3/2/2021	22	10	34.98	Yes	1	-33.98
386	3/2/2021	22	11	35.75	Yes	1	-34.75
387	3/2/2021	22	12	33.77	Yes	1	-32.77
388	3/2/2021	23	1	36.25	Yes	1	-35.25
389	3/2/2021	23	2	35.39	Yes	1	-34.39
390	3/2/2021	23	3	38.02	Yes	1	-37.02
391	3/2/2021	23	4	37.30	Yes	1	-36.30
392	3/2/2021	23	5	37.27	Yes	1	-36.27
393	3/2/2021	23	6	34.76	Yes	1	-33.76
394	3/2/2021	23	7	32.89	Yes	1	-31.89
395	3/2/2021	23	8	32.89	Yes	1	-31.89
396	3/2/2021	23	9	32.06	Yes	1	-31.06
397	3/2/2021	23	10	31.08	Yes	1	-30.08
398	3/2/2021	23	11	30.27	Yes	1	-29.27
399	3/2/2021	23	12	29.87	Yes	1	-28.87
400	3/2/2021	24	1	34.81	Yes	1	-33.81
401	3/2/2021	24	2	34.34	Yes	1	-33.34
402	3/2/2021	24	3	33.76	Yes	1	-32.76
403	3/2/2021	24	4	32.20	Yes	1	-31.20
404	3/2/2021	24	5	30.13	Yes	1	-29.13
405	3/2/2021	24	6	31.54	Yes	1	-30.54
406	3/2/2021	24	7	29.86	Yes	1	-28.86
407	3/2/2021	24	8	29.38	Yes	1	-28.38
408	3/2/2021	24	9	29.38	Yes	1	-28.38
409	3/2/2021	24	10	29.47	Yes	1	-28.47
410	3/2/2021	24	11	29.35	Yes	1	-28.35
411	3/2/2021	24	12	29.30	Yes	1	-28.30
412	3/3/2021	1	1	29.58	Yes	-15	-44.58
413	3/3/2021	1	2	30.35	Yes	-15	-45.35
414	3/3/2021	1	3	30.04	Yes	-15	-45.04

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
415	3/3/2021	1	4	30.93	Yes	-15	-45.93
416	3/3/2021	1	5	30.93	Yes	-15	-45.93
417	3/3/2021	1	6	30.93	Yes	-15	-45.93
418	3/3/2021	1	7	30.32	Yes	-15	-45.32
419	3/3/2021	1	8	31.20	Yes	-15	-46.20
420	3/3/2021	1	9	29.58	Yes	-15	-44.58
421	3/3/2021	1	10	29.81	Yes	-15	-44.81
422	3/3/2021	1	11	29.49	Yes	-15	-44.49
423	3/3/2021	1	12	29.81	Yes	-15	-44.81
424	3/3/2021	2	1	30.95	Yes	-15	-45.95
425	3/3/2021	2	2	30.47	Yes	-15	-45.47
426	3/3/2021	2	3	31.16	Yes	-15	-46.16
427	3/3/2021	2	4	31.18	Yes	-15	-46.18
428	3/3/2021	2	5	31.18	Yes	-15	-46.18
429	3/3/2021	2	6	33.13	Yes	-15	-48.13
430	3/3/2021	2	7	30.46	Yes	-15	-45.46
431	3/3/2021	2	8	30.46	Yes	-15	-45.46
432	3/3/2021	2	9	30.37	Yes	-15	-45.37
433	3/3/2021	2	10	30.04	Yes	-15	-45.04
434	3/3/2021	2	11	30.04	Yes	-15	-45.04
435	3/3/2021	2	12	29.19	Yes	-15	-44.19
436	3/3/2021	3	1	30.31	Yes	-15	-45.31
437	3/3/2021	3	2	30.31	Yes	-15	-45.31
438	3/3/2021	3	3	30.44	Yes	-15	-45.44
439	3/3/2021	3	4	30.48	Yes	-15	-45.48
440	3/3/2021	3	5	30.61	Yes	-15	-45.61
441	3/3/2021	3	6	30.61	Yes	-15	-45.61
442	3/3/2021	3	7	30.31	Yes	-15	-45.31
443	3/3/2021	3	8	30.31	Yes	-15	-45.31
444	3/3/2021	3	9	30.32	Yes	-15	-45.32
445	3/3/2021	3	10	30.35	Yes	-15	-45.35
446	3/3/2021	3	11	30.28	Yes	-15	-45.28
447	3/3/2021	3	12	30.28	Yes	-15	-45.28
448	3/3/2021	4	1	30.32	Yes	-15	-45.32
449	3/3/2021	4	2	30.17	Yes	-15	-45.17
450	3/3/2021	4	3	30.17	Yes	-15	-45.17
451	3/3/2021	4	4	30.98	Yes	-15	-45.98
452	3/3/2021	4	5	30.98	Yes	-15	-45.98

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453	3/3/2021	4	6	32.96	Yes	-15	-47.96
454	3/3/2021	4	7	34.89	Yes	-15	-49.89
455	3/3/2021	4	8	34.06	Yes	-15	-49.06
456	3/3/2021	4	9	34.53	Yes	-15	-49.53
457	3/3/2021	4	10	34.78	Yes	-15	-49.78
458	3/3/2021	4	11	35.28	Yes	-15	-50.28
459	3/3/2021	4	12	30.87	Yes	-15	-45.87
460	3/3/2021	5	1	29.77	Yes	-15	-44.77
461	3/3/2021	5	2	30.28	Yes	-15	-45.28
462	3/3/2021	5	3	31.75	Yes	-15	-46.75
463	3/3/2021	5	4	30.95	Yes	-15	-45.95
464	3/3/2021	5	5	32.16	Yes	-15	-47.16
465	3/3/2021	5	6	33.71	Yes	-15	-48.71
466	3/3/2021	5	7	34.62	Yes	-15	-49.62
467	3/3/2021	5	8	36.16	Yes	-15	-51.16
468	3/3/2021	5	9	37.85	Yes	-15	-52.85
469	3/3/2021	5	10	39.37	Yes	-15	-54.37
470	3/3/2021	5	11	39.05	Yes	-15	-54.05
471	3/3/2021	5	12	39.05	Yes	-15	-54.05
472	3/3/2021	6	1	32.94	Yes	-15	-47.94
473	3/3/2021	6	2	33.55	Yes	-15	-48.55
474	3/3/2021	6	3	37.08	Yes	-15	-52.08
475	3/3/2021	6	4	39.57	Yes	-15	-54.57
476	3/3/2021	6	5	39.57	Yes	-15	-54.57
477	3/3/2021	6	6	39.66	Yes	-15	-54.66
478	3/3/2021	6	7	39.71	Yes	-15	-54.71
479	3/3/2021	6	8	42.08	Yes	-15	-57.08
480	3/3/2021	6	9	41.69	Yes	-15	-56.69
481	3/3/2021	6	10	44.23	Yes	-15	-59.23
482	3/3/2021	6	11	47.39	Yes	-15	-62.39
483	3/3/2021	6	12	48.74	Yes	-15	-63.74
484	3/3/2021	7	1	44.22	Yes	-15	-59.22
485	3/3/2021	7	2	41.48	Yes	-15	-56.48
486	3/3/2021	7	3	42.80	Yes	-15	-57.80
487	3/3/2021	7	4	42.73	Yes	-15	-57.73
488	3/3/2021	7	5	44.98	Yes	-15	-59.98
489	3/3/2021	7	6	43.22	Yes	-15	-58.22
490	3/3/2021	7	7	40.77	Yes	-15	-55.77



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491	3/3/2021	7	8	38.93	Yes	-15	-53.93
492	3/3/2021	7	9	38.83	Yes	-15	-53.83
493	3/3/2021	7	10	38.54	Yes	-15	-53.54
494	3/3/2021	7	11	35.43	Yes	-15	-50.43
495	3/3/2021	7	12	36.94	Yes	-15	-51.94
496	3/3/2021	8	1	37.14	Yes	1	-36.14
497	3/3/2021	8	2	34.99	Yes	1	-33.99
498	3/3/2021	8	3	34.88	Yes	1	-33.88
499	3/3/2021	8	4	38.26	Yes	1	-37.26
500	3/3/2021	8	5	35.37	Yes	1	-34.37
501	3/3/2021	8	6	32.24	Yes	1	-31.24
502	3/3/2021	8	7	29.66	Yes	1	-28.66
503	3/3/2021	8	8	30.12	Yes	1	-29.12
504	3/3/2021	8	9	29.59	Yes	1	-28.59
505	3/3/2021	8	10	30.28	Yes	1	-29.28
506	3/3/2021	8	11	29.61	Yes	1	-28.61
507	3/3/2021	8	12	28.35	Yes	1	-27.35
508	3/3/2021	9	1	41.17	Yes	-15	-56.17
509	3/3/2021	9	2	42.65	Yes	-15	-57.65
510	3/3/2021	9	3	40.50	Yes	-15	-55.50
511	3/3/2021	9	4	60.01	Yes	-15	-75.01
512	3/3/2021	9	5	42.37	Yes	-15	-57.37
513	3/3/2021	9	6	42.09	Yes	-15	-57.09
514	3/3/2021	9	7	30.29	Yes	-15	-45.29
515	3/3/2021	9	8	31.63	Yes	-15	-46.63
516	3/3/2021	9	9	31.76	Yes	-15	-46.76
517	3/3/2021	9	10	31.25	Yes	-15	-46.25
518	3/3/2021	9	11	38.75	Yes	-15	-53.75
519	3/3/2021	9	12	42.45	Yes	-15	-57.45
520	3/3/2021	10	1	45.97	Yes	-15	-60.97
521	3/3/2021	10	2	131.61	Yes	-15	-146.61
522	3/3/2021	10	3	138.56	Yes	-15	-153.56
523	3/3/2021	10	4	130.74	Yes	-15	-145.74
524	3/3/2021	10	5	133.28	Yes	-15	-148.28
525	3/3/2021	10	6	126.15	Yes	-15	-141.15
526	3/3/2021	10	7	129.92	Yes	-15	-144.92
527	3/3/2021	10	8	127.99	Yes	-15	-142.99
528	3/3/2021	10	9	125.34	Yes	-15	-140.34

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
529	3/3/2021	10	10	124.75	Yes	-15	-139.75
530	3/3/2021	10	11	221.12	Yes	-15	-236.12
531	3/3/2021	10	12	141.55	Yes	-15	-156.55
532	3/3/2021	11	1	221.08	Yes	-15	-236.08
533	3/3/2021	11	2	260.45	Yes	-15	-275.45
534	3/3/2021	11	3	167.99	Yes	-15	-182.99
535	3/3/2021	11	4	172.48	Yes	-15	-187.48
536	3/3/2021	11	5	219.18	Yes	-15	-234.18
537	3/3/2021	11	6	163.93	Yes	-15	-178.93
538	3/3/2021	11	7	159.46	Yes	-15	-174.46
539	3/3/2021	11	8	168.26	Yes	-15	-183.26
540	3/3/2021	11	9	128.86	Yes	-15	-143.86
541	3/3/2021	11	10	138.62	Yes	-15	-153.62
542	3/3/2021	11	11	153.23	Yes	-15	-168.23
543	3/3/2021	11	12	137.58	Yes	-15	-152.58
544	3/3/2021	12	1	78.42	Yes	-15	-93.42
545	3/3/2021	12	2	63.72	Yes	-15	-78.72
546	3/3/2021	12	3	79.09	Yes	-15	-94.09
547	3/3/2021	12	4	40.89	Yes	-15	-55.89
548	3/3/2021	12	5	41.25	Yes	-15	-56.25
549	3/3/2021	12	6	39.23	Yes	-15	-54.23
550	3/3/2021	12	7	42.26	Yes	-15	-57.26
551	3/3/2021	12	8	42.38	Yes	-15	-57.38
552	3/3/2021	12	9	64.56	Yes	-15	-79.56
553	3/3/2021	12	10	47.43	Yes	-15	-62.43
554	3/3/2021	12	11	46.88	Yes	-15	-61.88
555	3/3/2021	12	12	52.22	Yes	-15	-67.22
556	3/3/2021	13	1	42.49	Yes	-15	-57.49
557	3/3/2021	13	2	52.93	Yes	-15	-67.93
558	3/3/2021	13	3	56.72	Yes	-15	-71.72
559	3/3/2021	13	4	60.52	Yes	-15	-75.52
560	3/3/2021	13	5	60.53	Yes	-15	-75.53
561	3/3/2021	13	6	60.46	Yes	-15	-75.46
562	3/3/2021	13	7	47.68	Yes	-15	-62.68
563	3/3/2021	13	8	44.34	Yes	-15	-59.34
564	3/3/2021	13	9	43.58	Yes	-15	-58.58
565	3/3/2021	13	10	39.95	Yes	-15	-54.95
566	3/3/2021	13	11	37.65	Yes	-15	-52.65

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567	3/3/2021	13	12	35.10	Yes	-15	-50.10
568	3/3/2021	14	1	35.79	Yes	-15	-50.79
569	3/3/2021	14	2	28.40	Yes	-15	-43.40
570	3/3/2021	14	3	30.39	Yes	-15	-45.39
571	3/3/2021	14	4	30.84	Yes	-15	-45.84
572	3/3/2021	14	5	30.38	Yes	-15	-45.38
573	3/3/2021	14	6	30.04	Yes	-15	-45.04
574	3/3/2021	14	7	30.17	Yes	-15	-45.17
575	3/3/2021	14	8	30.33	Yes	-15	-45.33
576	3/3/2021	14	9	30.78	Yes	-15	-45.78
577	3/3/2021	14	10	30.98	Yes	-15	-45.98
578	3/3/2021	14	11	30.72	Yes	-15	-45.72
579	3/3/2021	14	12	31.00	Yes	-15	-46.00
580	3/3/2021	15	1	27.90	Yes	-15	-42.90
581	3/3/2021	15	2	28.42	Yes	-15	-43.42
582	3/3/2021	15	3	29.40	Yes	-15	-44.40
583	3/3/2021	15	4	29.01	Yes	-15	-44.01
584	3/3/2021	15	5	28.12	Yes	-15	-43.12
585	3/3/2021	15	6	27.96	Yes	-15	-42.96
586	3/3/2021	15	7	28.28	Yes	-15	-43.28
587	3/3/2021	15	8	26.82	Yes	-15	-41.82
588	3/3/2021	15	9	26.85	Yes	-15	-41.85
589	3/3/2021	15	10	28.96	Yes	-15	-43.96
590	3/3/2021	15	11	30.16	Yes	-15	-45.16
591	3/3/2021	15	12	30.31	Yes	-15	-45.31
592	3/3/2021	16	1	30.40	Yes	-15	-45.40
593	3/3/2021	16	2	30.40	Yes	-15	-45.40
594	3/3/2021	16	3	30.43	Yes	-15	-45.43
595	3/3/2021	16	4	29.36	Yes	-15	-44.36
596	3/3/2021	16	5	29.58	Yes	-15	-44.58
597	3/3/2021	16	6	31.46	Yes	-15	-46.46
598	3/3/2021	16	7	43.61	Yes	-15	-58.61
599	3/3/2021	16	8	38.81	Yes	-15	-53.81
600	3/3/2021	16	9	43.29	Yes	-15	-58.29
601	3/3/2021	16	10	56.20	Yes	-15	-71.20
602	3/3/2021	16	11	63.42	Yes	-15	-78.42
603	3/3/2021	16	12	62.92	Yes	-15	-77.92
604	3/3/2021	17	1	33.51	Yes	-15	-48.51

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605	3/3/2021	17	2	38.64	Yes	-15	-53.64
606	3/3/2021	17	3	34.77	Yes	-15	-49.77
607	3/3/2021	17	4	32.71	Yes	-15	-47.71
608	3/3/2021	17	5	31.39	Yes	-15	-46.39
609	3/3/2021	17	6	38.93	Yes	-15	-53.93
610	3/3/2021	17	7	35.62	Yes	-15	-50.62
611	3/3/2021	17	8	39.50	Yes	-15	-54.50
612	3/3/2021	17	9	41.23	Yes	-15	-56.23
613	3/3/2021	17	10	48.10	Yes	-15	-63.10
614	3/3/2021	17	11	48.35	Yes	-15	-63.35
615	3/3/2021	17	12	60.87	Yes	-15	-75.87
616	3/3/2021	18	1	35.73	Yes	-15	-50.73
617	3/3/2021	18	2	36.04	Yes	-15	-51.04
618	3/3/2021	18	3	35.85	Yes	-15	-50.85
619	3/3/2021	18	4	37.84	Yes	-15	-52.84
620	3/3/2021	18	5	38.95	Yes	-15	-53.95
621	3/3/2021	18	6	40.28	Yes	-15	-55.28
622	3/3/2021	18	7	36.65	Yes	-15	-51.65
623	3/3/2021	18	8	37.95	Yes	-15	-52.95
624	3/3/2021	18	9	38.07	Yes	-15	-53.07
625	3/3/2021	18	10	40.61	Yes	-15	-55.61
626	3/3/2021	18	11	39.77	Yes	-15	-54.77
627	3/3/2021	18	12	40.54	Yes	-15	-55.54
628	3/3/2021	19	1	38.64	Yes	-15	-53.64
629	3/3/2021	19	2	38.18	Yes	-15	-53.18
630	3/3/2021	19	3	38.52	Yes	-15	-53.52
631	3/3/2021	19	4	40.05	Yes	-15	-55.05
632	3/3/2021	19	5	39.81	Yes	-15	-54.81
633	3/3/2021	19	6	39.81	Yes	-15	-54.81
634	3/3/2021	19	7	39.91	Yes	-15	-54.91
635	3/3/2021	19	8	39.52	Yes	-15	-54.52
636	3/3/2021	19	9	38.63	Yes	-15	-53.63
637	3/3/2021	19	10	38.20	Yes	-15	-53.20
638	3/3/2021	19	11	38.22	Yes	-15	-53.22
639	3/3/2021	19	12	36.80	Yes	-15	-51.80
640	3/3/2021	20	1	37.93	Yes	-15	-52.93
641	3/3/2021	20	2	36.69	Yes	-15	-51.69
642	3/3/2021	20	3	36.87	Yes	-15	-51.87

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643	3/3/2021	20	4	38.13	Yes	-15	-53.13
644	3/3/2021	20	5	37.48	Yes	-15	-52.48
645	3/3/2021	20	6	36.41	Yes	-15	-51.41
646	3/3/2021	20	7	36.27	Yes	-15	-51.27
647	3/3/2021	20	8	36.14	Yes	-15	-51.14
648	3/3/2021	20	9	36.32	Yes	-15	-51.32
649	3/3/2021	20	10	33.09	Yes	-15	-48.09
650	3/3/2021	20	11	33.00	Yes	-15	-48.00
651	3/3/2021	20	12	33.00	Yes	-15	-48.00
652	3/3/2021	21	1	37.82	Yes	-15	-52.82
653	3/3/2021	21	2	37.73	Yes	-15	-52.73
654	3/3/2021	21	3	37.12	Yes	-15	-52.12
655	3/3/2021	21	4	36.84	Yes	-15	-51.84
656	3/3/2021	21	5	34.62	Yes	-15	-49.62
657	3/3/2021	21	6	33.20	Yes	-15	-48.20
658	3/3/2021	21	7	32.43	Yes	-15	-47.43
659	3/3/2021	21	8	30.76	Yes	-15	-45.76
660	3/3/2021	21	9	30.75	Yes	-15	-45.75
661	3/3/2021	21	10	31.04	Yes	-15	-46.04
662	3/3/2021	21	11	30.16	Yes	-15	-45.16
663	3/3/2021	21	12	30.16	Yes	-15	-45.16
664	3/3/2021	22	1	36.51	Yes	-15	-51.51
665	3/3/2021	22	2	36.40	Yes	-15	-51.40
666	3/3/2021	22	3	35.62	Yes	-15	-50.62
667	3/3/2021	22	4	35.23	Yes	-15	-50.23
668	3/3/2021	22	5	32.37	Yes	-15	-47.37
669	3/3/2021	22	6	30.26	Yes	-15	-45.26
670	3/3/2021	22	7	31.07	Yes	-15	-46.07
671	3/3/2021	22	8	29.83	Yes	-15	-44.83
672	3/3/2021	22	9	29.25	Yes	-15	-44.25
673	3/3/2021	22	10	28.84	Yes	-15	-43.84
674	3/3/2021	22	11	28.63	Yes	-15	-43.63
675	3/3/2021	22	12	28.51	Yes	-15	-43.51
676	3/3/2021	23	1	29.95	Yes	1	-28.95
677	3/3/2021	23	2	29.54	Yes	1	-28.54
678	3/3/2021	23	3	30.42	Yes	1	-29.42
679	3/3/2021	23	4	30.46	Yes	1	-29.46
680	3/3/2021	23	5	31.78	Yes	1	-30.78

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681	3/3/2021	23	6	30.89	Yes	1	-29.89
682	3/3/2021	23	7	29.26	Yes	1	-28.26
683	3/3/2021	23	8	29.11	Yes	1	-28.11
684	3/3/2021	23	9	28.90	Yes	1	-27.90
685	3/3/2021	23	10	27.76	Yes	1	-26.76
686	3/3/2021	23	11	27.79	Yes	1	-26.79
687	3/3/2021	23	12	27.58	Yes	1	-26.58
688	3/3/2021	24	1	29.00	Yes	1	-28.00
689	3/3/2021	24	2	29.82	Yes	1	-28.82
690	3/3/2021	24	3	30.02	Yes	1	-29.02
691	3/3/2021	24	4	28.32	Yes	1	-27.32
692	3/3/2021	24	5	28.35	Yes	1	-27.35
693	3/3/2021	24	6	27.75	Yes	1	-26.75
694	3/3/2021	24	7	27.47	Yes	1	-26.47
695	3/3/2021	24	8	27.26	Yes	1	-26.26
696	3/3/2021	24	9	27.13	Yes	1	-26.13
697	3/3/2021	24	10	27.03	Yes	1	-26.03
698	3/3/2021	24	11	27.03	Yes	1	-26.03
699	3/3/2021	24	12	26.87	Yes	1	-25.87
700	3/4/2021	1	1	27.83	Yes	1	-26.83
701	3/4/2021	1	2	28.47	Yes	1	-27.47
702	3/4/2021	1	3	28.56	Yes	1	-27.56
703	3/4/2021	1	4	28.28	Yes	1	-27.28
704	3/4/2021	1	5	28.06	Yes	1	-27.06
705	3/4/2021	1	6	28.02	Yes	1	-27.02
706	3/4/2021	1	7	27.71	Yes	1	-26.71
707	3/4/2021	1	8	27.12	Yes	1	-26.12
708	3/4/2021	1	9	26.89	Yes	1	-25.89
709	3/4/2021	1	10	26.74	Yes	1	-25.74
710	3/4/2021	1	11	26.77	Yes	1	-25.77
711	3/4/2021	1	12	26.55	Yes	1	-25.55
712	3/4/2021	2	1	27.52	Yes	1	-26.52
713	3/4/2021	2	2	27.52	Yes	1	-26.52
714	3/4/2021	2	3	27.35	Yes	1	-26.35
715	3/4/2021	2	4	27.90	Yes	1	-26.90
716	3/4/2021	2	5	27.99	Yes	1	-26.99
717	3/4/2021	2	6	28.28	Yes	1	-27.28
718	3/4/2021	2	7	28.00	Yes	1	-27.00

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719	3/4/2021	2	8	28.10	Yes	1	-27.10
720	3/4/2021	2	9	29.32	Yes	1	-28.32
721	3/4/2021	2	10	29.10	Yes	1	-28.10
722	3/4/2021	2	11	28.71	Yes	1	-27.71
723	3/4/2021	2	12	29.90	Yes	1	-28.90
724	3/4/2021	3	1	30.10	Yes	1	-29.10
725	3/4/2021	3	2	30.03	Yes	1	-29.03
726	3/4/2021	3	3	29.97	Yes	1	-28.97
727	3/4/2021	3	4	30.32	Yes	1	-29.32
728	3/4/2021	3	5	30.49	Yes	1	-29.49
729	3/4/2021	3	6	30.49	Yes	1	-29.49
730	3/4/2021	3	7	30.53	Yes	1	-29.53
731	3/4/2021	3	8	30.53	Yes	1	-29.53
732	3/4/2021	3	9	30.53	Yes	1	-29.53
733	3/4/2021	3	10	30.38	Yes	1	-29.38
734	3/4/2021	3	11	29.94	Yes	1	-28.94
735	3/4/2021	3	12	29.65	Yes	1	-28.65
736	3/4/2021	4	1	28.80	Yes	1	-27.80
737	3/4/2021	4	2	28.91	Yes	1	-27.91
738	3/4/2021	4	3	28.85	Yes	1	-27.85
739	3/4/2021	4	4	29.31	Yes	1	-28.31
740	3/4/2021	4	5	28.91	Yes	1	-27.91
741	3/4/2021	4	6	28.83	Yes	1	-27.83
742	3/4/2021	4	7	29.93	Yes	1	-28.93
743	3/4/2021	4	8	29.89	Yes	1	-28.89
744	3/4/2021	4	9	29.93	Yes	1	-28.93
745	3/4/2021	4	10	30.02	Yes	1	-29.02
746	3/4/2021	4	11	29.88	Yes	1	-28.88
747	3/4/2021	4	12	30.02	Yes	1	-29.02
748	3/4/2021	5	1	29.27	Yes	1	-28.27
749	3/4/2021	5	2	29.12	Yes	1	-28.12
750	3/4/2021	5	3	29.76	Yes	1	-28.76
751	3/4/2021	5	4	33.48	Yes	1	-32.48
752	3/4/2021	5	5	34.63	Yes	1	-33.63
753	3/4/2021	5	6	35.01	Yes	1	-34.01
754	3/4/2021	5	7	35.57	Yes	1	-34.57
755	3/4/2021	5	8	35.96	Yes	1	-34.96
756	3/4/2021	5	9	36.90	Yes	1	-35.90

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757	3/4/2021	5	10	41.15	Yes	1	-40.15
758	3/4/2021	5	11	45.01	Yes	1	-44.01
759	3/4/2021	5	12	47.46	Yes	1	-46.46
760	3/4/2021	6	1	30.87	Yes	-15	-45.87
761	3/4/2021	6	2	31.52	Yes	-15	-46.52
762	3/4/2021	6	3	33.86	Yes	-15	-48.86
763	3/4/2021	6	4	37.89	Yes	-15	-52.89
764	3/4/2021	6	5	40.57	Yes	-15	-55.57
765	3/4/2021	6	6	41.43	Yes	-15	-56.43
766	3/4/2021	6	7	38.43	Yes	-15	-53.43
767	3/4/2021	6	8	58.27	Yes	-15	-73.27
768	3/4/2021	6	9	58.27	Yes	-15	-73.27
769	3/4/2021	6	10	68.09	Yes	-15	-83.09
770	3/4/2021	6	11	71.09	Yes	-15	-86.09
771	3/4/2021	6	12	80.85	Yes	-15	-95.85
772	3/4/2021	7	1	65.94	Yes	-15	-80.94
773	3/4/2021	7	2	72.78	Yes	-15	-87.78
774	3/4/2021	7	3	72.78	Yes	-15	-87.78
775	3/4/2021	7	4	74.85	Yes	-15	-89.85
776	3/4/2021	7	5	81.93	Yes	-15	-96.93
777	3/4/2021	7	6	160.78	Yes	-15	-175.78
778	3/4/2021	7	7	92.74	Yes	-15	-107.74
779	3/4/2021	7	8	84.12	Yes	-15	-99.12
780	3/4/2021	7	9	59.36	Yes	-15	-74.36
781	3/4/2021	7	10	47.06	Yes	-15	-62.06
782	3/4/2021	7	11	45.78	Yes	-15	-60.78
783	3/4/2021	7	12	42.87	Yes	-15	-57.87
784	3/4/2021	8	1	69.78	Yes	-15	-84.78
785	3/4/2021	8	2	58.71	Yes	-15	-73.71
786	3/4/2021	8	3	34.33	Yes	-15	-49.33
787	3/4/2021	8	4	33.30	Yes	-15	-48.30
788	3/4/2021	8	5	31.34	Yes	-15	-46.34
789	3/4/2021	8	6	30.53	Yes	-15	-45.53
790	3/4/2021	8	7	30.48	Yes	-15	-45.48
791	3/4/2021	8	8	29.75	Yes	-15	-44.75
792	3/4/2021	8	9	25.06	Yes	-15	-40.06
793	3/4/2021	8	10	24.19	Yes	-15	-39.19
794	3/4/2021	8	11	23.19	Yes	-15	-38.19



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795	3/4/2021	8	12	23.65	Yes	-15	-38.65
796	3/4/2021	9	1	28.38	Yes	1	-27.38
797	3/4/2021	9	2	28.40	Yes	1	-27.40
798	3/4/2021	9	3	30.84	Yes	1	-29.84
799	3/4/2021	9	4	28.56	Yes	1	-27.56
800	3/4/2021	9	5	28.56	Yes	1	-27.56
801	3/4/2021	9	6	28.89	Yes	1	-27.89
802	3/4/2021	9	7	28.99	Yes	1	-27.99
803	3/4/2021	9	8	25.63	Yes	1	-24.63
804	3/4/2021	9	9	23.65	Yes	1	-22.65
805	3/4/2021	9	10	25.11	Yes	1	-24.11
806	3/4/2021	9	11	25.22	Yes	1	-24.22
807	3/4/2021	9	12	23.81	Yes	1	-22.81
808	3/4/2021	10	1	24.95	Yes	1	-23.95
809	3/4/2021	10	2	24.50	Yes	1	-23.50
810	3/4/2021	10	3	25.43	Yes	1	-24.43
811	3/4/2021	10	4	29.13	Yes	1	-28.13
812	3/4/2021	10	5	28.93	Yes	1	-27.93
813	3/4/2021	10	6	28.29	Yes	1	-27.29
814	3/4/2021	10	7	25.77	Yes	1	-24.77
815	3/4/2021	10	8	25.73	Yes	1	-24.73
816	3/4/2021	10	9	25.73	Yes	1	-24.73
817	3/4/2021	10	10	22.44	Yes	1	-21.44
818	3/4/2021	10	11	22.44	Yes	1	-21.44
819	3/4/2021	10	12	22.44	Yes	1	-21.44
820	3/4/2021	11	1	22.36	Yes	1	-21.36
821	3/4/2021	11	2	21.75	Yes	1	-20.75
822	3/4/2021	11	3	21.96	Yes	1	-20.96
823	3/4/2021	11	4	20.45	Yes	1	-19.45
824	3/4/2021	11	5	20.59	Yes	1	-19.59
825	3/4/2021	11	6	20.59	Yes	1	-19.59
826	3/4/2021	11	7	19.86	Yes	1	-18.86
827	3/4/2021	11	8	19.55	Yes	1	-18.55
828	3/4/2021	11	9	18.71	Yes	1	-17.71
829	3/4/2021	11	10	18.53	Yes	1	-17.53
830	3/4/2021	11	11	18.47	Yes	1	-17.47
831	3/4/2021	11	12	18.64	Yes	1	-17.64
832	3/4/2021	12	1	26.58	Yes	1	-25.58

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833	3/4/2021	12	2	28.22	Yes	1	-27.22
834	3/4/2021	12	3	28.56	Yes	1	-27.56
835	3/4/2021	12	4	28.73	Yes	1	-27.73
836	3/4/2021	12	5	28.79	Yes	1	-27.79
837	3/4/2021	12	6	27.79	Yes	1	-26.79
838	3/4/2021	12	7	30.48	Yes	1	-29.48
839	3/4/2021	12	8	29.62	Yes	1	-28.62
840	3/4/2021	12	9	30.00	Yes	1	-29.00
841	3/4/2021	12	10	28.48	Yes	1	-27.48
842	3/4/2021	12	11	28.16	Yes	1	-27.16
843	3/4/2021	12	12	26.97	Yes	1	-25.97
844	3/4/2021	13	1	22.31	Yes	1	-21.31
845	3/4/2021	13	2	20.75	Yes	1	-19.75
846	3/4/2021	13	3	22.10	Yes	1	-21.10
847	3/4/2021	13	4	21.97	Yes	1	-20.97
848	3/4/2021	13	5	21.46	Yes	1	-20.46
849	3/4/2021	13	6	21.71	Yes	1	-20.71
850	3/4/2021	13	7	23.87	Yes	1	-22.87
851	3/4/2021	13	8	25.24	Yes	1	-24.24
852	3/4/2021	13	9	24.29	Yes	1	-23.29
853	3/4/2021	13	10	24.27	Yes	1	-23.27
854	3/4/2021	13	11	24.39	Yes	1	-23.39
855	3/4/2021	13	12	24.75	Yes	1	-23.75
856	3/4/2021	14	1	20.12	Yes	1	-19.12
857	3/4/2021	14	2	18.98	Yes	1	-17.98
858	3/4/2021	14	3	16.98	Yes	1	-15.98
859	3/4/2021	14	4	19.24	Yes	1	-18.24
860	3/4/2021	14	5	16.85	Yes	1	-15.85
861	3/4/2021	14	6	19.44	Yes	1	-18.44
862	3/4/2021	14	7	16.62	Yes	1	-15.62
863	3/4/2021	14	8	17.66	Yes	1	-16.66
864	3/4/2021	14	9	18.60	Yes	1	-17.60
865	3/4/2021	14	10	23.31	Yes	1	-22.31
866	3/4/2021	14	11	21.50	Yes	1	-20.50
867	3/4/2021	14	12	16.99	Yes	1	-15.99
868	3/4/2021	15	1	16.65	Yes	1	-15.65
869	3/4/2021	15	2	16.51	Yes	1	-15.51
870	3/4/2021	15	3	16.49	Yes	1	-15.49

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
871	3/4/2021	15	4	16.34	Yes	1	-15.34
872	3/4/2021	15	5	16.34	Yes	1	-15.34
873	3/4/2021	15	6	16.63	Yes	1	-15.63
874	3/4/2021	15	7	22.90	Yes	1	-21.90
875	3/4/2021	15	8	17.15	Yes	1	-16.15
876	3/4/2021	15	9	18.99	Yes	1	-17.99
877	3/4/2021	15	10	16.27	Yes	1	-15.27
878	3/4/2021	15	11	17.06	Yes	1	-16.06
879	3/4/2021	15	12	17.24	Yes	1	-16.24
880	3/4/2021	16	1	14.70	Yes	1	-13.70
881	3/4/2021	16	2	14.68	Yes	1	-13.68
882	3/4/2021	16	3	15.14	Yes	1	-14.14
883	3/4/2021	16	4	16.62	Yes	1	-15.62
884	3/4/2021	16	5	16.31	Yes	1	-15.31
885	3/4/2021	16	6	16.31	Yes	1	-15.31
886	3/4/2021	16	7	12.55	Yes	1	-11.55
887	3/4/2021	16	8	14.42	Yes	1	-13.42
888	3/4/2021	16	9	15.18	Yes	1	-14.18
889	3/4/2021	16	10	19.82	Yes	1	-18.82
890	3/4/2021	16	11	19.86	Yes	1	-18.86
891	3/4/2021	16	12	17.87	Yes	1	-16.87
892	3/4/2021	17	1	11.98	Yes	1	-10.98
893	3/4/2021	17	2	14.47	Yes	1	-13.47
894	3/4/2021	17	3	14.06	Yes	1	-13.06
895	3/4/2021	17	4	15.07	Yes	1	-14.07
896	3/4/2021	17	5	19.50	Yes	1	-18.50
897	3/4/2021	17	6	21.56	Yes	1	-20.56
898	3/4/2021	17	7	23.91	Yes	1	-22.91
899	3/4/2021	17	8	27.77	Yes	1	-26.77
900	3/4/2021	17	9	34.92	Yes	1	-33.92
901	3/4/2021	17	10	37.66	Yes	1	-36.66
902	3/4/2021	17	11	48.77	Yes	1	-47.77
903	3/4/2021	17	12	59.36	Yes	1	-58.36
904	3/4/2021	18	1	23.22	Yes	-15	-38.22
905	3/4/2021	18	2	26.55	Yes	-15	-41.55
906	3/4/2021	18	3	27.92	Yes	-15	-42.92
907	3/4/2021	18	4	30.68	Yes	-15	-45.68
908	3/4/2021	18	5	32.60	Yes	-15	-47.60

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909	3/4/2021	18	6	37.69	Yes	-15	-52.69
910	3/4/2021	18	7	37.14	Yes	-15	-52.14
911	3/4/2021	18	8	44.90	Yes	-15	-59.90
912	3/4/2021	18	9	46.88	Yes	-15	-61.88
913	3/4/2021	18	10	47.97	Yes	-15	-62.97
914	3/4/2021	18	11	48.49	Yes	-15	-63.49
915	3/4/2021	18	12	50.25	Yes	-15	-65.25
916	3/4/2021	19	1	48.72	Yes	-15	-63.72
917	3/4/2021	19	2	48.60	Yes	-15	-63.60
918	3/4/2021	19	3	46.55	Yes	-15	-61.55
919	3/4/2021	19	4	48.27	Yes	-15	-63.27
920	3/4/2021	19	5	49.56	Yes	-15	-64.56
921	3/4/2021	19	6	48.73	Yes	-15	-63.73
922	3/4/2021	19	7	47.86	Yes	-15	-62.86
923	3/4/2021	19	8	47.85	Yes	-15	-62.85
924	3/4/2021	19	9	47.56	Yes	-15	-62.56
925	3/4/2021	19	10	58.65	Yes	-15	-73.65
926	3/4/2021	19	11	48.52	Yes	-15	-63.52
927	3/4/2021	19	12	50.33	Yes	-15	-65.33
928	3/4/2021	20	1	58.51	Yes	-15	-73.51
929	3/4/2021	20	2	51.03	Yes	-15	-66.03
930	3/4/2021	20	3	49.22	Yes	-15	-64.22
931	3/4/2021	20	4	49.02	Yes	-15	-64.02
932	3/4/2021	20	5	48.37	Yes	-15	-63.37
933	3/4/2021	20	6	48.32	Yes	-15	-63.32
934	3/4/2021	20	7	48.72	Yes	-15	-63.72
935	3/4/2021	20	8	47.77	Yes	-15	-62.77
936	3/4/2021	20	9	47.59	Yes	-15	-62.59
937	3/4/2021	20	10	46.73	Yes	-15	-61.73
938	3/4/2021	20	11	47.40	Yes	-15	-62.40
939	3/4/2021	20	12	48.00	Yes	-15	-63.00
940	3/4/2021	21	1	49.76	Yes	1	-48.76
941	3/4/2021	21	2	50.36	Yes	1	-49.36
942	3/4/2021	21	3	49.16	Yes	1	-48.16
943	3/4/2021	21	4	48.92	Yes	1	-47.92
944	3/4/2021	21	5	49.11	Yes	1	-48.11
945	3/4/2021	21	6	49.86	Yes	1	-48.86
946	3/4/2021	21	7	53.52	Yes	1	-52.52

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947	3/4/2021	21	8	50.75	Yes	1	-49.75
948	3/4/2021	21	9	49.89	Yes	1	-48.89
949	3/4/2021	21	10	50.03	Yes	1	-49.03
950	3/4/2021	21	11	46.54	Yes	1	-45.54
951	3/4/2021	21	12	46.61	Yes	1	-45.61
952	3/4/2021	22	1	48.43	Yes	-15	-63.43
953	3/4/2021	22	2	47.88	Yes	-15	-62.88
954	3/4/2021	22	3	48.22	Yes	-15	-63.22
955	3/4/2021	22	4	45.95	Yes	-15	-60.95
956	3/4/2021	22	5	45.57	Yes	-15	-60.57
957	3/4/2021	22	6	43.18	Yes	-15	-58.18
958	3/4/2021	22	7	40.84	Yes	-15	-55.84
959	3/4/2021	22	8	41.86	Yes	-15	-56.86
960	3/4/2021	22	9	40.73	Yes	-15	-55.73
961	3/4/2021	22	10	41.20	Yes	-15	-56.20
962	3/4/2021	22	11	39.08	Yes	-15	-54.08
963	3/4/2021	22	12	35.16	Yes	-15	-50.16
964	3/4/2021	23	1	58.16	Yes	-15	-73.16
965	3/4/2021	23	2	48.42	Yes	-15	-63.42
966	3/4/2021	23	3	39.53	Yes	-15	-54.53
967	3/4/2021	23	4	35.49	Yes	-15	-50.49
968	3/4/2021	23	5	35.49	Yes	-15	-50.49
969	3/4/2021	23	6	35.64	Yes	-15	-50.64
970	3/4/2021	23	7	34.90	Yes	-15	-49.90
971	3/4/2021	23	8	35.84	Yes	-15	-50.84
972	3/4/2021	23	9	32.89	Yes	-15	-47.89
973	3/4/2021	23	10	31.76	Yes	-15	-46.76
974	3/4/2021	23	11	31.68	Yes	-15	-46.68
975	3/4/2021	23	12	31.76	Yes	-15	-46.76
976	3/4/2021	24	1	33.43	Yes	-15	-48.43
977	3/4/2021	24	2	33.19	Yes	-15	-48.19
978	3/4/2021	24	3	31.30	Yes	-15	-46.30
979	3/4/2021	24	4	30.32	Yes	-15	-45.32
980	3/4/2021	24	5	30.21	Yes	-15	-45.21
981	3/4/2021	24	6	30.76	Yes	-15	-45.76
982	3/4/2021	24	7	29.44	Yes	-15	-44.44
983	3/4/2021	24	8	29.44	Yes	-15	-44.44
984	3/4/2021	24	9	29.32	Yes	-15	-44.32

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
985	3/4/2021	24	10	29.60	Yes	-15	-44.60
986	3/4/2021	24	11	29.60	Yes	-15	-44.60
987	3/4/2021	24	12	29.25	Yes	-15	-44.25
988	3/5/2021	1	1	28.22	Yes	-15	-43.22
989	3/5/2021	1	2	28.65	Yes	-15	-43.65
990	3/5/2021	1	3	28.90	Yes	-15	-43.90
991	3/5/2021	1	4	28.84	Yes	-15	-43.84
992	3/5/2021	1	5	28.52	Yes	-15	-43.52
993	3/5/2021	1	6	28.13	Yes	-15	-43.13
994	3/5/2021	1	7	27.90	Yes	-15	-42.90
995	3/5/2021	1	8	27.65	Yes	-15	-42.65
996	3/5/2021	1	9	27.65	Yes	-15	-42.65
997	3/5/2021	1	10	28.53	Yes	-15	-43.53
998	3/5/2021	1	11	28.25	Yes	-15	-43.25
999	3/5/2021	1	12	28.15	Yes	-15	-43.15
1000	3/5/2021	2	1	27.55	Yes	-15	-42.55
1001	3/5/2021	2	2	28.84	Yes	-15	-43.84
1002	3/5/2021	2	3	29.44	Yes	-15	-44.44
1003	3/5/2021	2	4	30.27	Yes	-15	-45.27
1004	3/5/2021	2	5	29.52	Yes	-15	-44.52
1005	3/5/2021	2	6	29.48	Yes	-15	-44.48
1006	3/5/2021	2	7	28.80	Yes	-15	-43.80
1007	3/5/2021	2	8	28.95	Yes	-15	-43.95
1008	3/5/2021	2	9	28.80	Yes	-15	-43.80
1009	3/5/2021	2	10	29.07	Yes	-15	-44.07
1010	3/5/2021	2	11	28.95	Yes	-15	-43.95
1011	3/5/2021	2	12	28.22	Yes	-15	-43.22
1012	3/5/2021	3	1	28.24	Yes	-15	-43.24
1013	3/5/2021	3	2	27.72	Yes	-15	-42.72
1014	3/5/2021	3	3	27.69	Yes	-15	-42.69
1015	3/5/2021	3	4	28.24	Yes	-15	-43.24
1016	3/5/2021	3	5	28.80	Yes	-15	-43.80
1017	3/5/2021	3	6	28.29	Yes	-15	-43.29
1018	3/5/2021	3	7	28.21	Yes	-15	-43.21
1019	3/5/2021	3	8	28.54	Yes	-15	-43.54
1020	3/5/2021	3	9	28.29	Yes	-15	-43.29
1021	3/5/2021	3	10	28.50	Yes	-15	-43.50
1022	3/5/2021	3	11	28.67	Yes	-15	-43.67

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1023	3/5/2021	3	12	28.86	Yes	-15	-43.86
1024	3/5/2021	4	1	28.43	Yes	1	-27.43
1025	3/5/2021	4	2	28.43	Yes	1	-27.43
1026	3/5/2021	4	3	28.13	Yes	1	-27.13
1027	3/5/2021	4	4	28.12	Yes	1	-27.12
1028	3/5/2021	4	5	29.15	Yes	1	-28.15
1029	3/5/2021	4	6	28.24	Yes	1	-27.24
1030	3/5/2021	4	7	28.23	Yes	1	-27.23
1031	3/5/2021	4	8	29.03	Yes	1	-28.03
1032	3/5/2021	4	9	29.03	Yes	1	-28.03
1033	3/5/2021	4	10	29.09	Yes	1	-28.09
1034	3/5/2021	4	11	28.90	Yes	1	-27.90
1035	3/5/2021	4	12	28.44	Yes	1	-27.44
1036	3/5/2021	5	1	29.69	Yes	1	-28.69
1037	3/5/2021	5	2	29.37	Yes	1	-28.37
1038	3/5/2021	5	3	29.99	Yes	1	-28.99
1039	3/5/2021	5	4	29.74	Yes	1	-28.74
1040	3/5/2021	5	5	29.70	Yes	1	-28.70
1041	3/5/2021	5	6	30.34	Yes	1	-29.34
1042	3/5/2021	5	7	29.90	Yes	1	-28.90
1043	3/5/2021	5	8	29.82	Yes	1	-28.82
1044	3/5/2021	5	9	30.73	Yes	1	-29.73
1045	3/5/2021	5	10	32.16	Yes	1	-31.16
1046	3/5/2021	5	11	31.03	Yes	1	-30.03
1047	3/5/2021	5	12	30.46	Yes	1	-29.46
1048	3/5/2021	6	1	34.44	Yes	-15	-49.44
1049	3/5/2021	6	2	31.79	Yes	-15	-46.79
1050	3/5/2021	6	3	33.10	Yes	-15	-48.10
1051	3/5/2021	6	4	34.26	Yes	-15	-49.26
1052	3/5/2021	6	5	36.29	Yes	-15	-51.29
1053	3/5/2021	6	6	38.70	Yes	-15	-53.70
1054	3/5/2021	6	7	36.45	Yes	-15	-51.45
1055	3/5/2021	6	8	33.25	Yes	-15	-48.25
1056	3/5/2021	6	9	37.05	Yes	-15	-52.05
1057	3/5/2021	6	10	37.44	Yes	-15	-52.44
1058	3/5/2021	6	11	39.54	Yes	-15	-54.54
1059	3/5/2021	6	12	38.67	Yes	-15	-53.67
1060	3/5/2021	7	1	37.90	Yes	1	-36.90

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1061	3/5/2021	7	2	37.14	Yes	1	-36.14
1062	3/5/2021	7	3	35.36	Yes	1	-34.36
1063	3/5/2021	7	4	35.08	Yes	1	-34.08
1064	3/5/2021	7	5	36.92	Yes	1	-35.92
1065	3/5/2021	7	6	38.52	Yes	1	-37.52
1066	3/5/2021	7	7	36.74	Yes	1	-35.74
1067	3/5/2021	7	8	34.65	Yes	1	-33.65
1068	3/5/2021	7	9	31.06	Yes	1	-30.06
1069	3/5/2021	7	10	29.94	Yes	1	-28.94
1070	3/5/2021	7	11	29.70	Yes	1	-28.70
1071	3/5/2021	7	12	28.02	Yes	1	-27.02
1072	3/5/2021	8	1	33.26	Yes	1	-32.26
1073	3/5/2021	8	2	31.23	Yes	1	-30.23
1074	3/5/2021	8	3	30.11	Yes	1	-29.11
1075	3/5/2021	8	4	25.38	Yes	1	-24.38
1076	3/5/2021	8	5	28.50	Yes	1	-27.50
1077	3/5/2021	8	6	26.03	Yes	1	-25.03
1078	3/5/2021	8	7	23.48	Yes	1	-22.48
1079	3/5/2021	8	8	22.00	Yes	1	-21.00
1080	3/5/2021	8	9	19.49	Yes	1	-18.49
1081	3/5/2021	8	10	19.08	Yes	1	-18.08
1082	3/5/2021	8	11	19.59	Yes	1	-18.59
1083	3/5/2021	8	12	17.37	Yes	1	-16.37
1084	3/5/2021	9	1	21.41	Yes	1	-20.41
1085	3/5/2021	9	2	21.95	Yes	1	-20.95
1086	3/5/2021	9	3	23.15	Yes	1	-22.15
1087	3/5/2021	9	4	22.39	Yes	1	-21.39
1088	3/5/2021	9	5	22.03	Yes	1	-21.03
1089	3/5/2021	9	6	21.31	Yes	1	-20.31
1090	3/5/2021	9	7	19.40	Yes	1	-18.40
1091	3/5/2021	9	8	19.40	Yes	1	-18.40
1092	3/5/2021	9	9	14.73	Yes	1	-13.73
1093	3/5/2021	9	10	14.96	Yes	1	-13.96
1094	3/5/2021	9	11	15.31	Yes	1	-14.31
1095	3/5/2021	9	12	13.18	Yes	1	-12.18
1096	3/5/2021	10	1	19.62	Yes	1	-18.62
1097	3/5/2021	10	2	22.06	Yes	1	-21.06
1098	3/5/2021	10	3	22.15	Yes	1	-21.15



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1099	3/5/2021	10	4	23.49	Yes	1	-22.49
1100	3/5/2021	10	5	23.55	Yes	1	-22.55
1101	3/5/2021	10	6	23.72	Yes	1	-22.72
1102	3/5/2021	10	7	26.45	Yes	1	-25.45
1103	3/5/2021	10	8	26.48	Yes	1	-25.48
1104	3/5/2021	10	9	26.55	Yes	1	-25.55
1105	3/5/2021	10	10	22.96	Yes	1	-21.96
1106	3/5/2021	10	11	22.50	Yes	1	-21.50
1107	3/5/2021	10	12	25.77	Yes	1	-24.77
1108	3/5/2021	11	1	19.26	Yes	1	-18.26
1109	3/5/2021	11	2	20.62	Yes	1	-19.62
1110	3/5/2021	11	3	20.50	Yes	1	-19.50
1111	3/5/2021	11	4	20.04	Yes	1	-19.04
1112	3/5/2021	11	5	33.89	Yes	1	-32.89
1113	3/5/2021	11	6	17.14	Yes	1	-16.14
1114	3/5/2021	11	7	27.26	Yes	1	-26.26
1115	3/5/2021	11	8	26.73	Yes	1	-25.73
1116	3/5/2021	11	9	25.69	Yes	1	-24.69
1117	3/5/2021	11	10	25.51	Yes	1	-24.51
1118	3/5/2021	11	11	24.45	Yes	1	-23.45
1119	3/5/2021	11	12	22.71	Yes	1	-21.71
1120	3/5/2021	12	1	28.85	Yes	1	-27.85
1121	3/5/2021	12	2	28.16	Yes	1	-27.16
1122	3/5/2021	12	3	23.36	Yes	1	-22.36
1123	3/5/2021	12	4	25.86	Yes	1	-24.86
1124	3/5/2021	12	5	25.86	Yes	1	-24.86
1125	3/5/2021	12	6	25.93	Yes	1	-24.93
1126	3/5/2021	12	7	27.60	Yes	1	-26.60
1127	3/5/2021	12	8	29.13	Yes	1	-28.13
1128	3/5/2021	12	9	26.10	Yes	1	-25.10
1129	3/5/2021	12	10	24.85	Yes	1	-23.85
1130	3/5/2021	12	11	24.29	Yes	1	-23.29
1131	3/5/2021	12	12	23.12	Yes	1	-22.12
1132	3/5/2021	13	1	23.88	Yes	1	-22.88
1133	3/5/2021	13	2	21.28	Yes	1	-20.28
1134	3/5/2021	13	3	21.49	Yes	1	-20.49
1135	3/5/2021	13	4	21.02	Yes	1	-20.02
1136	3/5/2021	13	5	21.09	Yes	1	-20.09

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1137	3/5/2021	13	6	21.24	Yes	1	-20.24
1138	3/5/2021	13	7	18.60	Yes	1	-17.60
1139	3/5/2021	13	8	18.62	Yes	1	-17.62
1140	3/5/2021	13	9	17.34	Yes	1	-16.34
1141	3/5/2021	13	10	17.82	Yes	1	-16.82
1142	3/5/2021	13	11	17.18	Yes	1	-16.18
1143	3/5/2021	13	12	17.33	Yes	1	-16.33
1144	3/5/2021	14	1	18.76	Yes	1	-17.76
1145	3/5/2021	14	2	21.00	Yes	1	-20.00
1146	3/5/2021	14	3	20.83	Yes	1	-19.83
1147	3/5/2021	14	4	21.03	Yes	1	-20.03
1148	3/5/2021	14	5	21.04	Yes	1	-20.04
1149	3/5/2021	14	6	21.06	Yes	1	-20.06
1150	3/5/2021	14	7	19.12	Yes	1	-18.12
1151	3/5/2021	14	8	18.75	Yes	1	-17.75
1152	3/5/2021	14	9	19.12	Yes	1	-18.12
1153	3/5/2021	14	10	19.99	Yes	1	-18.99
1154	3/5/2021	14	11	19.46	Yes	1	-18.46
1155	3/5/2021	14	12	19.46	Yes	1	-18.46
1156	3/5/2021	15	1	17.25	Yes	1	-16.25
1157	3/5/2021	15	2	16.81	Yes	1	-15.81
1158	3/5/2021	15	3	17.59	Yes	1	-16.59
1159	3/5/2021	15	4	17.06	Yes	1	-16.06
1160	3/5/2021	15	5	16.82	Yes	1	-15.82
1161	3/5/2021	15	6	18.10	Yes	1	-17.10
1162	3/5/2021	15	7	16.84	Yes	1	-15.84
1163	3/5/2021	15	8	17.63	Yes	1	-16.63
1164	3/5/2021	15	9	17.71	Yes	1	-16.71
1165	3/5/2021	15	10	20.79	Yes	1	-19.79
1166	3/5/2021	15	11	17.50	Yes	1	-16.50
1167	3/5/2021	15	12	16.91	Yes	1	-15.91
1168	3/5/2021	16	1	15.99	Yes	1	-14.99
1169	3/5/2021	16	2	16.47	Yes	1	-15.47
1170	3/5/2021	16	3	17.15	Yes	1	-16.15
1171	3/5/2021	16	4	5.67	Yes	1	-4.67
1172	3/5/2021	16	5	13.93	Yes	1	-12.93
1173	3/5/2021	16	6	16.38	Yes	1	-15.38
1174	3/5/2021	16	7	15.57	Yes	1	-14.57

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1175	3/5/2021	16	8	16.16	Yes	1	-15.16
1176	3/5/2021	16	9	17.58	Yes	1	-16.58
1177	3/5/2021	16	10	32.91	Yes	1	-31.91
1178	3/5/2021	16	11	30.80	Yes	1	-29.80
1179	3/5/2021	16	12	26.67	Yes	1	-25.67
1180	3/5/2021	17	1	18.45	Yes	1	-17.45
1181	3/5/2021	17	2	19.97	Yes	1	-18.97
1182	3/5/2021	17	3	17.38	Yes	1	-16.38
1183	3/5/2021	17	4	21.47	Yes	1	-20.47
1184	3/5/2021	17	5	22.65	Yes	1	-21.65
1185	3/5/2021	17	6	25.94	Yes	1	-24.94
1186	3/5/2021	17	7	29.36	Yes	1	-28.36
1187	3/5/2021	17	8	31.90	Yes	1	-30.90
1188	3/5/2021	17	9	32.10	Yes	1	-31.10
1189	3/5/2021	17	10	33.95	Yes	1	-32.95
1190	3/5/2021	17	11	33.95	Yes	1	-32.95
1191	3/5/2021	17	12	39.08	Yes	1	-38.08
1192	3/5/2021	18	1	24.87	Yes	1	-23.87
1193	3/5/2021	18	2	27.78	Yes	1	-26.78
1194	3/5/2021	18	3	28.98	Yes	1	-27.98
1195	3/5/2021	18	4	32.78	Yes	1	-31.78
1196	3/5/2021	18	5	39.40	Yes	1	-38.40
1197	3/5/2021	18	6	45.59	Yes	1	-44.59
1198	3/5/2021	18	7	89.64	Yes	1	-88.64
1199	3/5/2021	18	8	108.11	Yes	1	-107.11
1200	3/5/2021	18	9	129.15	Yes	1	-128.15
1201	3/5/2021	18	10	82.77	Yes	1	-81.77
1202	3/5/2021	18	11	82.82	Yes	1	-81.82
1203	3/5/2021	18	12	103.59	Yes	1	-102.59
1204	3/5/2021	19	1	1.16	Yes	1	-0.16
1205	3/5/2021	19	2	1.76	Yes	1	-0.76
1206	3/5/2021	19	3	1.75	Yes	1	-0.75
1207	3/5/2021	19	4	46.51	Yes	1	-45.51
1208	3/5/2021	19	5	47.86	Yes	1	-46.86
1209	3/5/2021	19	6	47.87	Yes	1	-46.87
1210	3/5/2021	19	7	49.89	Yes	1	-48.89
1211	3/5/2021	19	8	47.08	Yes	1	-46.08
1212	3/5/2021	19	9	43.96	Yes	1	-42.96

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1213	3/5/2021	19	10	44.90	Yes	1	-43.90
1214	3/5/2021	19	11	45.56	Yes	1	-44.56
1215	3/5/2021	19	12	46.77	Yes	1	-45.77
1216	3/5/2021	20	1	40.10	Yes	1	-39.10
1217	3/5/2021	20	2	39.16	Yes	1	-38.16
1218	3/5/2021	20	3	37.75	Yes	1	-36.75
1219	3/5/2021	20	4	37.85	Yes	1	-36.85
1220	3/5/2021	20	5	37.83	Yes	1	-36.83
1221	3/5/2021	20	6	37.33	Yes	1	-36.33
1222	3/5/2021	20	7	37.38	Yes	1	-36.38
1223	3/5/2021	20	8	37.16	Yes	1	-36.16
1224	3/5/2021	20	9	37.40	Yes	1	-36.40
1225	3/5/2021	20	10	38.46	Yes	1	-37.46
1226	3/5/2021	20	11	36.93	Yes	1	-35.93
1227	3/5/2021	20	12	36.82	Yes	1	-35.82
1228	3/5/2021	21	1	37.31	Yes	1	-36.31
1229	3/5/2021	21	2	35.64	Yes	1	-34.64
1230	3/5/2021	21	3	34.76	Yes	1	-33.76
1231	3/5/2021	21	4	34.28	Yes	1	-33.28
1232	3/5/2021	21	5	34.06	Yes	1	-33.06
1233	3/5/2021	21	6	33.72	Yes	1	-32.72
1234	3/5/2021	21	7	32.03	Yes	1	-31.03
1235	3/5/2021	21	8	31.75	Yes	1	-30.75
1236	3/5/2021	21	9	31.64	Yes	1	-30.64
1237	3/5/2021	21	10	30.58	Yes	1	-29.58
1238	3/5/2021	21	11	30.58	Yes	1	-29.58
1239	3/5/2021	21	12	30.02	Yes	1	-29.02
1240	3/5/2021	22	1	31.11	Yes	1	-30.11
1241	3/5/2021	22	2	30.38	Yes	1	-29.38
1242	3/5/2021	22	3	30.38	Yes	1	-29.38
1243	3/5/2021	22	4	31.07	Yes	1	-30.07
1244	3/5/2021	22	5	30.71	Yes	1	-29.71
1245	3/5/2021	22	6	31.07	Yes	1	-30.07
1246	3/5/2021	22	7	32.45	Yes	1	-31.45
1247	3/5/2021	22	8	31.02	Yes	1	-30.02
1248	3/5/2021	22	9	31.02	Yes	1	-30.02
1249	3/5/2021	22	10	30.26	Yes	1	-29.26
1250	3/5/2021	22	11	29.59	Yes	1	-28.59

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1251	3/5/2021	22	12	29.76	Yes	1	-28.76
1252	3/5/2021	23	1	30.55	Yes	1	-29.55
1253	3/5/2021	23	2	32.25	Yes	1	-31.25
1254	3/5/2021	23	3	32.25	Yes	1	-31.25
1255	3/5/2021	23	4	30.31	Yes	1	-29.31
1256	3/5/2021	23	5	30.94	Yes	1	-29.94
1257	3/5/2021	23	6	31.30	Yes	1	-30.30
1258	3/5/2021	23	7	29.87	Yes	1	-28.87
1259	3/5/2021	23	8	30.41	Yes	1	-29.41
1260	3/5/2021	23	9	29.56	Yes	1	-28.56
1261	3/5/2021	23	10	29.50	Yes	1	-28.50
1262	3/5/2021	23	11	29.54	Yes	1	-28.54
1263	3/5/2021	23	12	28.28	Yes	1	-27.28
1264	3/5/2021	24	1	29.58	Yes	1	-28.58
1265	3/5/2021	24	2	29.33	Yes	1	-28.33
1266	3/5/2021	24	3	30.14	Yes	1	-29.14
1267	3/5/2021	24	4	29.31	Yes	1	-28.31
1268	3/5/2021	24	5	29.12	Yes	1	-28.12
1269	3/5/2021	24	6	29.48	Yes	1	-28.48
1270	3/5/2021	24	7	27.34	Yes	1	-26.34
1271	3/5/2021	24	8	27.78	Yes	1	-26.78
1272	3/5/2021	24	9	26.90	Yes	1	-25.90
1273	3/5/2021	24	10	26.16	Yes	1	-25.16
1274	3/5/2021	24	11	26.61	Yes	1	-25.61
1275	3/5/2021	24	12	26.17	Yes	1	-25.17
1276	3/6/2021	1	1	26.52	Yes	1	-25.52
1277	3/6/2021	1	2	27.23	Yes	1	-26.23
1278	3/6/2021	1	3	27.16	Yes	1	-26.16
1279	3/6/2021	1	4	27.81	Yes	1	-26.81
1280	3/6/2021	1	5	27.81	Yes	1	-26.81
1281	3/6/2021	1	6	28.48	Yes	1	-27.48
1282	3/6/2021	1	7	28.01	Yes	1	-27.01
1283	3/6/2021	1	8	28.04	Yes	1	-27.04
1284	3/6/2021	1	9	27.78	Yes	1	-26.78
1285	3/6/2021	1	10	27.76	Yes	1	-26.76
1286	3/6/2021	1	11	27.74	Yes	1	-26.74
1287	3/6/2021	1	12	27.54	Yes	1	-26.54
1288	3/6/2021	2	1	31.28	Yes	1	-30.28

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1289	3/6/2021	2	2	30.82	Yes	1	-29.82
1290	3/6/2021	2	3	29.66	Yes	1	-28.66
1291	3/6/2021	2	4	30.78	Yes	1	-29.78
1292	3/6/2021	2	5	30.23	Yes	1	-29.23
1293	3/6/2021	2	6	29.97	Yes	1	-28.97
1294	3/6/2021	2	7	29.51	Yes	1	-28.51
1295	3/6/2021	2	8	29.41	Yes	1	-28.41
1296	3/6/2021	2	9	28.35	Yes	1	-27.35
1297	3/6/2021	2	10	28.13	Yes	1	-27.13
1298	3/6/2021	2	11	27.68	Yes	1	-26.68
1299	3/6/2021	2	12	26.89	Yes	1	-25.89
1300	3/6/2021	3	1	26.92	Yes	1	-25.92
1301	3/6/2021	3	2	26.44	Yes	1	-25.44
1302	3/6/2021	3	3	24.73	Yes	1	-23.73
1303	3/6/2021	3	4	22.43	Yes	1	-21.43
1304	3/6/2021	3	5	18.52	Yes	1	-17.52
1305	3/6/2021	3	6	18.52	Yes	1	-17.52
1306	3/6/2021	3	7	22.44	Yes	1	-21.44
1307	3/6/2021	3	8	22.30	Yes	1	-21.30
1308	3/6/2021	3	9	24.71	Yes	1	-23.71
1309	3/6/2021	3	10	24.75	Yes	1	-23.75
1310	3/6/2021	3	11	22.44	Yes	1	-21.44
1311	3/6/2021	3	12	24.73	Yes	1	-23.73
1312	3/6/2021	4	1	27.02	Yes	-15	-42.02
1313	3/6/2021	4	2	27.03	Yes	-15	-42.03
1314	3/6/2021	4	3	26.66	Yes	-15	-41.66
1315	3/6/2021	4	4	27.83	Yes	-15	-42.83
1316	3/6/2021	4	5	27.30	Yes	-15	-42.30
1317	3/6/2021	4	6	26.80	Yes	-15	-41.80
1318	3/6/2021	4	7	26.67	Yes	-15	-41.67
1319	3/6/2021	4	8	26.56	Yes	-15	-41.56
1320	3/6/2021	4	9	26.67	Yes	-15	-41.67
1321	3/6/2021	4	10	27.16	Yes	-15	-42.16
1322	3/6/2021	4	11	26.70	Yes	-15	-41.70
1323	3/6/2021	4	12	26.63	Yes	-15	-41.63
1324	3/6/2021	5	1	27.00	Yes	-15	-42.00
1325	3/6/2021	5	2	26.74	Yes	-15	-41.74
1326	3/6/2021	5	3	27.00	Yes	-15	-42.00

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1327	3/6/2021	5	4	27.02	Yes	-15	-42.02
1328	3/6/2021	5	5	27.02	Yes	-15	-42.02
1329	3/6/2021	5	6	27.02	Yes	-15	-42.02
1330	3/6/2021	5	7	26.85	Yes	-15	-41.85
1331	3/6/2021	5	8	26.85	Yes	-15	-41.85
1332	3/6/2021	5	9	26.85	Yes	-15	-41.85
1333	3/6/2021	5	10	26.17	Yes	-15	-41.17
1334	3/6/2021	5	11	23.79	Yes	-15	-38.79
1335	3/6/2021	5	12	23.36	Yes	-15	-38.36
1336	3/6/2021	6	1	20.77	Yes	-15	-35.77
1337	3/6/2021	6	2	21.92	Yes	-15	-36.92
1338	3/6/2021	6	3	23.32	Yes	-15	-38.32
1339	3/6/2021	6	4	23.48	Yes	-15	-38.48
1340	3/6/2021	6	5	23.48	Yes	-15	-38.48
1341	3/6/2021	6	6	23.48	Yes	-15	-38.48
1342	3/6/2021	6	7	23.07	Yes	-15	-38.07
1343	3/6/2021	6	8	23.07	Yes	-15	-38.07
1344	3/6/2021	6	9	23.21	Yes	-15	-38.21
1345	3/6/2021	6	10	23.13	Yes	-15	-38.13
1346	3/6/2021	6	11	23.13	Yes	-15	-38.13
1347	3/6/2021	6	12	27.10	Yes	-15	-42.10
1348	3/6/2021	7	1	28.18	Yes	1	-27.18
1349	3/6/2021	7	2	31.50	Yes	1	-30.50
1350	3/6/2021	7	3	30.39	Yes	1	-29.39
1351	3/6/2021	7	4	27.92	Yes	1	-26.92
1352	3/6/2021	7	5	28.74	Yes	1	-27.74
1353	3/6/2021	7	6	28.82	Yes	1	-27.82
1354	3/6/2021	7	7	28.42	Yes	1	-27.42
1355	3/6/2021	7	8	25.68	Yes	1	-24.68
1356	3/6/2021	7	9	25.57	Yes	1	-24.57
1357	3/6/2021	7	10	23.95	Yes	1	-22.95
1358	3/6/2021	7	11	20.76	Yes	1	-19.76
1359	3/6/2021	7	12	18.88	Yes	1	-17.88
1360	3/6/2021	8	1	39.32	Yes	1	-38.32
1361	3/6/2021	8	2	46.14	Yes	1	-45.14
1362	3/6/2021	8	3	984.46	Yes	1	-983.46
1363	3/6/2021	8	4	70.85	Yes	1	-69.85
1364	3/6/2021	8	5	32.74	Yes	1	-31.74

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1365	3/6/2021	8	6	30.56	Yes	1	-29.56
1366	3/6/2021	8	7	53.60	Yes	1	-52.60
1367	3/6/2021	8	8	38.26	Yes	1	-37.26
1368	3/6/2021	8	9	30.26	Yes	1	-29.26
1369	3/6/2021	8	10	30.15	Yes	1	-29.15
1370	3/6/2021	8	11	24.78	Yes	1	-23.78
1371	3/6/2021	8	12	27.56	Yes	1	-26.56
1372	3/6/2021	9	1	23.18	Yes	-15	-38.18
1373	3/6/2021	9	2	21.15	Yes	-15	-36.15
1374	3/6/2021	9	3	24.30	Yes	-15	-39.30
1375	3/6/2021	9	4	27.61	Yes	-15	-42.61
1376	3/6/2021	9	5	29.41	Yes	-15	-44.41
1377	3/6/2021	9	6	27.62	Yes	-15	-42.62
1378	3/6/2021	9	7	23.77	Yes	-15	-38.77
1379	3/6/2021	9	8	23.58	Yes	-15	-38.58
1380	3/6/2021	9	9	21.52	Yes	-15	-36.52
1381	3/6/2021	9	10	23.43	Yes	-15	-38.43
1382	3/6/2021	9	11	21.37	Yes	-15	-36.37
1383	3/6/2021	9	12	20.89	Yes	-15	-35.89
1384	3/6/2021	10	1	1.36	Yes	-15	-16.36
1385	3/6/2021	10	2	1.92	Yes	-15	-16.92
1386	3/6/2021	10	3	1.29	Yes	-15	-16.29
1387	3/6/2021	10	4	1.45	Yes	-15	-16.45
1388	3/6/2021	10	5	2.04	Yes	-15	-17.04
1389	3/6/2021	10	6	4.66	Yes	-15	-19.66
1390	3/6/2021	10	7	4.29	Yes	-15	-19.29
1391	3/6/2021	10	8	11.88	Yes	-15	-26.88
1392	3/6/2021	10	9	20.22	Yes	-15	-35.22
1393	3/6/2021	10	10	20.23	Yes	-15	-35.23
1394	3/6/2021	10	11	21.24	Yes	-15	-36.24
1395	3/6/2021	10	12	10.66	Yes	-15	-25.66
1396	3/6/2021	11	1	25.25	Yes	-15	-40.25
1397	3/6/2021	11	2	25.25	Yes	-15	-40.25
1398	3/6/2021	11	3	26.12	Yes	-15	-41.12
1399	3/6/2021	11	4	0.96	Yes	-15	-15.96
1400	3/6/2021	11	5	6.24	Yes	-15	-21.24
1401	3/6/2021	11	6	6.24	Yes	-15	-21.24
1402	3/6/2021	11	7	1.32	Yes	-15	-16.32



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1403	3/6/2021	11	8	-1.64	Yes	-15	-13.36
1404	3/6/2021	11	9	0.10	Yes	-15	-15.10
1405	3/6/2021	11	10	-0.66	Yes	-15	-14.34
1406	3/6/2021	11	11	-1.27	Yes	-15	-13.73
1407	3/6/2021	11	12	-1.79	Yes	-15	-13.21
1408	3/6/2021	12	1	-1.38	Yes	-15	-13.62
1409	3/6/2021	12	2	5.53	Yes	-15	-20.53
1410	3/6/2021	12	3	4.69	Yes	-15	-19.69
1411	3/6/2021	12	4	5.40	Yes	-15	-20.40
1412	3/6/2021	12	5	6.25	Yes	-15	-21.25
1413	3/6/2021	12	6	-1.62	Yes	-15	-13.38
1414	3/6/2021	12	7	-0.90	Yes	-15	-14.10
1415	3/6/2021	12	8	-0.91	Yes	-15	-14.09
1416	3/6/2021	12	9	-0.90	Yes	-15	-14.10
1417	3/6/2021	12	10	-1.38	Yes	-15	-13.62
1418	3/6/2021	12	11	-1.38	Yes	-15	-13.62
1419	3/6/2021	12	12	-1.51	Yes	-15	-13.49
1420	3/6/2021	13	1	-1.66	Yes	-15	-13.34
1421	3/6/2021	13	2	-1.53	Yes	-15	-13.47
1422	3/6/2021	13	3	-1.54	Yes	-15	-13.46
1423	3/6/2021	13	4	-1.64	Yes	-15	-13.36
1424	3/6/2021	13	5	-1.64	Yes	-15	-13.36
1425	3/6/2021	13	6	-1.63	Yes	-15	-13.37
1426	3/6/2021	13	7	-1.48	Yes	-15	-13.52
1427	3/6/2021	13	8	-1.45	Yes	-15	-13.55
1428	3/6/2021	13	9	-1.48	Yes	-15	-13.52
1429	3/6/2021	13	10	-2.22	Yes	-15	-12.78
1430	3/6/2021	13	11	-3.30	Yes	-15	-11.70
1431	3/6/2021	13	12	-3.62	Yes	-15	-11.38
1432	3/6/2021	14	1	-1.86	Yes	-15	-13.14
1433	3/6/2021	14	2	-2.46	Yes	-15	-12.54
1434	3/6/2021	14	3	-1.54	Yes	-15	-13.46
1435	3/6/2021	14	4	-1.49	Yes	-15	-13.51
1436	3/6/2021	14	5	-1.48	Yes	-15	-13.52
1437	3/6/2021	14	6	-3.43	Yes	-15	-11.57
1438	3/6/2021	14	7	-1.51	Yes	-15	-13.49
1439	3/6/2021	14	8	-1.52	Yes	-15	-13.48
1440	3/6/2021	14	9	-1.50	Yes	-15	-13.50

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1441	3/6/2021	14	10	-1.35	Yes	-15	-13.65
1442	3/6/2021	14	11	-0.82	Yes	-15	-14.18
1443	3/6/2021	14	12	-1.31	Yes	-15	-13.69
1444	3/6/2021	15	1	-3.64	Yes	-15	-11.36
1445	3/6/2021	15	2	-3.79	Yes	-15	-11.21
1446	3/6/2021	15	3	-1.46	Yes	-15	-13.54
1447	3/6/2021	15	4	-3.65	Yes	-15	-11.35
1448	3/6/2021	15	5	-2.33	Yes	-15	-12.67
1449	3/6/2021	15	6	-3.48	Yes	-15	-11.52
1450	3/6/2021	15	7	-1.25	Yes	-15	-13.75
1451	3/6/2021	15	8	-1.49	Yes	-15	-13.51
1452	3/6/2021	15	9	-2.82	Yes	-15	-12.18
1453	3/6/2021	15	10	-3.42	Yes	-15	-11.58
1454	3/6/2021	15	11	-3.73	Yes	-15	-11.27
1455	3/6/2021	15	12	-3.73	Yes	-15	-11.27
1456	3/6/2021	16	1	-1.63	Yes	1	2.63
1457	3/6/2021	16	2	-3.81	Yes	1	4.81
1458	3/6/2021	16	3	-3.78	Yes	1	4.78
1459	3/6/2021	16	4	-3.42	Yes	1	4.42
1460	3/6/2021	16	5	-2.70	Yes	1	3.70
1461	3/6/2021	16	6	-1.39	Yes	1	2.39
1462	3/6/2021	16	7	-0.86	Yes	1	1.86
1463	3/6/2021	16	8	-0.41	Yes	1	1.41
1464	3/6/2021	16	9	-0.60	Yes	1	1.60
1465	3/6/2021	16	10	0.11	Yes	1	0.89
1466	3/6/2021	16	11	-0.43	Yes	1	1.43
1467	3/6/2021	16	12	-0.43	Yes	1	1.43
1468	3/6/2021	17	1	-0.14	Yes	1	1.14
1469	3/6/2021	17	2	-0.31	Yes	1	1.31
1470	3/6/2021	17	3	-0.26	Yes	1	1.26
1471	3/6/2021	17	4	0.21	Yes	1	0.79
1472	3/6/2021	17	5	1.73	Yes	1	-0.73
1473	3/6/2021	17	6	19.04	Yes	1	-18.04
1474	3/6/2021	17	7	18.49	Yes	1	-17.49
1475	3/6/2021	17	8	19.79	Yes	1	-18.79
1476	3/6/2021	17	9	25.22	Yes	1	-24.22
1477	3/6/2021	17	10	25.67	Yes	1	-24.67
1478	3/6/2021	17	11	25.35	Yes	1	-24.35

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1479	3/6/2021	17	12	24.37	Yes	1	-23.37
1480	3/6/2021	18	1	17.41	Yes	-15	-32.41
1481	3/6/2021	18	2	18.21	Yes	-15	-33.21
1482	3/6/2021	18	3	19.58	Yes	-15	-34.58
1483	3/6/2021	18	4	22.36	Yes	-15	-37.36
1484	3/6/2021	18	5	24.08	Yes	-15	-39.08
1485	3/6/2021	18	6	31.76	Yes	-15	-46.76
1486	3/6/2021	18	7	27.62	Yes	-15	-42.62
1487	3/6/2021	18	8	34.29	Yes	-15	-49.29
1488	3/6/2021	18	9	36.46	Yes	-15	-51.46
1489	3/6/2021	18	10	28.68	Yes	-15	-43.68
1490	3/6/2021	18	11	40.54	Yes	-15	-55.54
1491	3/6/2021	18	12	45.37	Yes	-15	-60.37
1492	3/6/2021	19	1	30.43	Yes	-15	-45.43
1493	3/6/2021	19	2	30.89	Yes	-15	-45.89
1494	3/6/2021	19	3	33.80	Yes	-15	-48.80
1495	3/6/2021	19	4	35.16	Yes	-15	-50.16
1496	3/6/2021	19	5	64.06	Yes	-15	-79.06
1497	3/6/2021	19	6	57.58	Yes	-15	-72.58
1498	3/6/2021	19	7	57.07	Yes	-15	-72.07
1499	3/6/2021	19	8	60.54	Yes	-15	-75.54
1500	3/6/2021	19	9	60.44	Yes	-15	-75.44
1501	3/6/2021	19	10	56.31	Yes	-15	-71.31
1502	3/6/2021	19	11	50.75	Yes	-15	-65.75
1503	3/6/2021	19	12	42.26	Yes	-15	-57.26
1504	3/6/2021	20	1	46.08	Yes	-15	-61.08
1505	3/6/2021	20	2	38.32	Yes	-15	-53.32
1506	3/6/2021	20	3	36.73	Yes	-15	-51.73
1507	3/6/2021	20	4	35.71	Yes	-15	-50.71
1508	3/6/2021	20	5	35.45	Yes	-15	-50.45
1509	3/6/2021	20	6	33.99	Yes	-15	-48.99
1510	3/6/2021	20	7	32.99	Yes	-15	-47.99
1511	3/6/2021	20	8	32.83	Yes	-15	-47.83
1512	3/6/2021	20	9	31.02	Yes	-15	-46.02
1513	3/6/2021	20	10	30.91	Yes	-15	-45.91
1514	3/6/2021	20	11	29.52	Yes	-15	-44.52
1515	3/6/2021	20	12	29.51	Yes	-15	-44.51
1516	3/6/2021	21	1	38.44	Yes	-15	-53.44

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1517	3/6/2021	21	2	37.02	Yes	-15	-52.02
1518	3/6/2021	21	3	35.35	Yes	-15	-50.35
1519	3/6/2021	21	4	34.82	Yes	-15	-49.82
1520	3/6/2021	21	5	30.07	Yes	-15	-45.07
1521	3/6/2021	21	6	29.35	Yes	-15	-44.35
1522	3/6/2021	21	7	32.07	Yes	-15	-47.07
1523	3/6/2021	21	8	30.63	Yes	-15	-45.63
1524	3/6/2021	21	9	30.60	Yes	-15	-45.60
1525	3/6/2021	21	10	30.59	Yes	-15	-45.59
1526	3/6/2021	21	11	31.70	Yes	-15	-46.70
1527	3/6/2021	21	12	31.81	Yes	-15	-46.81
1528	3/6/2021	22	1	35.00	Yes	-15	-50.00
1529	3/6/2021	22	2	36.75	Yes	-15	-51.75
1530	3/6/2021	22	3	37.58	Yes	-15	-52.58
1531	3/6/2021	22	4	34.08	Yes	-15	-49.08
1532	3/6/2021	22	5	34.34	Yes	-15	-49.34
1533	3/6/2021	22	6	32.33	Yes	-15	-47.33
1534	3/6/2021	22	7	32.38	Yes	-15	-47.38
1535	3/6/2021	22	8	31.80	Yes	-15	-46.80
1536	3/6/2021	22	9	31.63	Yes	-15	-46.63
1537	3/6/2021	22	10	32.51	Yes	-15	-47.51
1538	3/6/2021	22	11	30.20	Yes	-15	-45.20
1539	3/6/2021	22	12	34.27	Yes	-15	-49.27
1540	3/6/2021	23	1	42.76	Yes	-15	-57.76
1541	3/6/2021	23	2	42.69	Yes	-15	-57.69
1542	3/6/2021	23	3	44.19	Yes	-15	-59.19
1543	3/6/2021	23	4	37.75	Yes	-15	-52.75
1544	3/6/2021	23	5	35.17	Yes	-15	-50.17
1545	3/6/2021	23	6	35.00	Yes	-15	-50.00
1546	3/6/2021	23	7	44.72	Yes	-15	-59.72
1547	3/6/2021	23	8	42.54	Yes	-15	-57.54
1548	3/6/2021	23	9	37.76	Yes	-15	-52.76
1549	3/6/2021	23	10	35.17	Yes	-15	-50.17
1550	3/6/2021	23	11	32.75	Yes	-15	-47.75
1551	3/6/2021	23	12	35.00	Yes	-15	-50.00
1552	3/6/2021	24	1	32.29	Yes	-15	-47.29
1553	3/6/2021	24	2	31.95	Yes	-15	-46.95
1554	3/6/2021	24	3	32.33	Yes	-15	-47.33

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1555	3/6/2021	24	4	31.36	Yes	-15	-46.36
1556	3/6/2021	24	5	31.36	Yes	-15	-46.36
1557	3/6/2021	24	6	30.55	Yes	-15	-45.55
1558	3/6/2021	24	7	28.78	Yes	-15	-43.78
1559	3/6/2021	24	8	28.42	Yes	-15	-43.42
1560	3/6/2021	24	9	28.42	Yes	-15	-43.42
1561	3/6/2021	24	10	28.28	Yes	-15	-43.28
1562	3/6/2021	24	11	27.71	Yes	-15	-42.71
1563	3/6/2021	24	12	27.74	Yes	-15	-42.74
1564	3/7/2021	1	1	31.24	Yes	-15	-46.24
1565	3/7/2021	1	2	38.30	Yes	-15	-53.30
1566	3/7/2021	1	3	36.99	Yes	-15	-51.99
1567	3/7/2021	1	4	29.63	Yes	-15	-44.63
1568	3/7/2021	1	5	29.03	Yes	-15	-44.03
1569	3/7/2021	1	6	29.15	Yes	-15	-44.15
1570	3/7/2021	1	7	28.35	Yes	-15	-43.35
1571	3/7/2021	1	8	28.45	Yes	-15	-43.45
1572	3/7/2021	1	9	28.35	Yes	-15	-43.35
1573	3/7/2021	1	10	28.41	Yes	-15	-43.41
1574	3/7/2021	1	11	28.17	Yes	-15	-43.17
1575	3/7/2021	1	12	28.50	Yes	-15	-43.50
1576	3/7/2021	2	1	28.66	Yes	-15	-43.66
1577	3/7/2021	2	2	28.34	Yes	-15	-43.34
1578	3/7/2021	2	3	27.77	Yes	-15	-42.77
1579	3/7/2021	2	4	27.05	Yes	-15	-42.05
1580	3/7/2021	2	5	27.84	Yes	-15	-42.84
1581	3/7/2021	2	6	27.86	Yes	-15	-42.86
1582	3/7/2021	2	7	28.18	Yes	-15	-43.18
1583	3/7/2021	2	8	27.98	Yes	-15	-42.98
1584	3/7/2021	2	9	27.80	Yes	-15	-42.80
1585	3/7/2021	2	10	27.60	Yes	-15	-42.60
1586	3/7/2021	2	11	26.96	Yes	-15	-41.96
1587	3/7/2021	2	12	26.88	Yes	-15	-41.88
1588	3/7/2021	3	1	27.47	Yes	-15	-42.47
1589	3/7/2021	3	2	28.42	Yes	-15	-43.42
1590	3/7/2021	3	3	28.28	Yes	-15	-43.28
1591	3/7/2021	3	4	28.39	Yes	-15	-43.39
1592	3/7/2021	3	5	27.31	Yes	-15	-42.31

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1593	3/7/2021	3	6	27.68	Yes	-15	-42.68
1594	3/7/2021	3	7	27.56	Yes	-15	-42.56
1595	3/7/2021	3	8	27.56	Yes	-15	-42.56
1596	3/7/2021	3	9	27.56	Yes	-15	-42.56
1597	3/7/2021	3	10	27.54	Yes	-15	-42.54
1598	3/7/2021	3	11	27.50	Yes	-15	-42.50
1599	3/7/2021	3	12	27.37	Yes	-15	-42.37
1600	3/7/2021	4	1	27.26	Yes	-15	-42.26
1601	3/7/2021	4	2	27.13	Yes	-15	-42.13
1602	3/7/2021	4	3	27.77	Yes	-15	-42.77
1603	3/7/2021	4	4	28.38	Yes	-15	-43.38
1604	3/7/2021	4	5	28.34	Yes	-15	-43.34
1605	3/7/2021	4	6	28.34	Yes	-15	-43.34
1606	3/7/2021	4	7	28.45	Yes	-15	-43.45
1607	3/7/2021	4	8	28.36	Yes	-15	-43.36
1608	3/7/2021	4	9	28.45	Yes	-15	-43.45
1609	3/7/2021	4	10	28.78	Yes	-15	-43.78
1610	3/7/2021	4	11	28.77	Yes	-15	-43.77
1611	3/7/2021	4	12	28.40	Yes	-15	-43.40
1612	3/7/2021	5	1	28.88	Yes	-15	-43.88
1613	3/7/2021	5	2	28.64	Yes	-15	-43.64
1614	3/7/2021	5	3	28.87	Yes	-15	-43.87
1615	3/7/2021	5	4	29.79	Yes	-15	-44.79
1616	3/7/2021	5	5	29.79	Yes	-15	-44.79
1617	3/7/2021	5	6	29.80	Yes	-15	-44.80
1618	3/7/2021	5	7	30.31	Yes	-15	-45.31
1619	3/7/2021	5	8	31.66	Yes	-15	-46.66
1620	3/7/2021	5	9	32.67	Yes	-15	-47.67
1621	3/7/2021	5	10	32.68	Yes	-15	-47.68
1622	3/7/2021	5	11	32.62	Yes	-15	-47.62
1623	3/7/2021	5	12	32.67	Yes	-15	-47.67
1624	3/7/2021	6	1	34.09	Yes	-15	-49.09
1625	3/7/2021	6	2	32.11	Yes	-15	-47.11
1626	3/7/2021	6	3	36.01	Yes	-15	-51.01
1627	3/7/2021	6	4	34.51	Yes	-15	-49.51
1628	3/7/2021	6	5	34.58	Yes	-15	-49.58
1629	3/7/2021	6	6	36.26	Yes	-15	-51.26
1630	3/7/2021	6	7	39.10	Yes	-15	-54.10

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1631	3/7/2021	6	8	38.96	Yes	-15	-53.96
1632	3/7/2021	6	9	43.97	Yes	-15	-58.97
1633	3/7/2021	6	10	50.52	Yes	-15	-65.52
1634	3/7/2021	6	11	56.55	Yes	-15	-71.55
1635	3/7/2021	6	12	63.67	Yes	-15	-78.67
1636	3/7/2021	7	1	43.18	Yes	-15	-58.18
1637	3/7/2021	7	2	64.54	Yes	-15	-79.54
1638	3/7/2021	7	3	64.59	Yes	-15	-79.59
1639	3/7/2021	7	4	64.20	Yes	-15	-79.20
1640	3/7/2021	7	5	52.60	Yes	-15	-67.60
1641	3/7/2021	7	6	44.02	Yes	-15	-59.02
1642	3/7/2021	7	7	47.42	Yes	-15	-62.42
1643	3/7/2021	7	8	39.22	Yes	-15	-54.22
1644	3/7/2021	7	9	38.72	Yes	-15	-53.72
1645	3/7/2021	7	10	39.32	Yes	-15	-54.32
1646	3/7/2021	7	11	39.36	Yes	-15	-54.36
1647	3/7/2021	7	12	37.01	Yes	-15	-52.01
1648	3/7/2021	8	1	34.54	Yes	-15	-49.54
1649	3/7/2021	8	2	40.88	Yes	-15	-55.88
1650	3/7/2021	8	3	34.70	Yes	-15	-49.70
1651	3/7/2021	8	4	29.82	Yes	-15	-44.82
1652	3/7/2021	8	5	35.78	Yes	-15	-50.78
1653	3/7/2021	8	6	38.58	Yes	-15	-53.58
1654	3/7/2021	8	7	33.98	Yes	-15	-48.98
1655	3/7/2021	8	8	29.56	Yes	-15	-44.56
1656	3/7/2021	8	9	21.91	Yes	-15	-36.91
1657	3/7/2021	8	10	28.19	Yes	-15	-43.19
1658	3/7/2021	8	11	28.11	Yes	-15	-43.11
1659	3/7/2021	8	12	28.73	Yes	-15	-43.73
1660	3/7/2021	9	1	60.16	Yes	-15	-75.16
1661	3/7/2021	9	2	63.66	Yes	-15	-78.66
1662	3/7/2021	9	3	68.31	Yes	-15	-83.31
1663	3/7/2021	9	4	104.09	Yes	-15	-119.09
1664	3/7/2021	9	5	133.50	Yes	-15	-148.50
1665	3/7/2021	9	6	110.98	Yes	-15	-125.98
1666	3/7/2021	9	7	34.33	Yes	-15	-49.33
1667	3/7/2021	9	8	37.09	Yes	-15	-52.09
1668	3/7/2021	9	9	38.91	Yes	-15	-53.91

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1669	3/7/2021	9	10	38.79	Yes	-15	-53.79
1670	3/7/2021	9	11	32.59	Yes	-15	-47.59
1671	3/7/2021	9	12	26.72	Yes	-15	-41.72
1672	3/7/2021	10	1	20.25	Yes	-15	-35.25
1673	3/7/2021	10	2	17.92	Yes	-15	-32.92
1674	3/7/2021	10	3	21.42	Yes	-15	-36.42
1675	3/7/2021	10	4	34.86	Yes	-15	-49.86
1676	3/7/2021	10	5	52.63	Yes	-15	-67.63
1677	3/7/2021	10	6	29.58	Yes	-15	-44.58
1678	3/7/2021	10	7	31.93	Yes	-15	-46.93
1679	3/7/2021	10	8	52.15	Yes	-15	-67.15
1680	3/7/2021	10	9	31.60	Yes	-15	-46.60
1681	3/7/2021	10	10	21.63	Yes	-15	-36.63
1682	3/7/2021	10	11	21.68	Yes	-15	-36.68
1683	3/7/2021	10	12	31.33	Yes	-15	-46.33
1684	3/7/2021	11	1	33.17	Yes	-15	-48.17
1685	3/7/2021	11	2	20.88	Yes	-15	-35.88
1686	3/7/2021	11	3	19.65	Yes	-15	-34.65
1687	3/7/2021	11	4	19.85	Yes	-15	-34.85
1688	3/7/2021	11	5	24.13	Yes	-15	-39.13
1689	3/7/2021	11	6	22.17	Yes	-15	-37.17
1690	3/7/2021	11	7	20.20	Yes	-15	-35.20
1691	3/7/2021	11	8	21.60	Yes	-15	-36.60
1692	3/7/2021	11	9	19.34	Yes	-15	-34.34
1693	3/7/2021	11	10	23.90	Yes	-15	-38.90
1694	3/7/2021	11	11	19.32	Yes	-15	-34.32
1695	3/7/2021	11	12	0.85	Yes	-15	-15.85
1696	3/7/2021	12	1	20.62	Yes	-15	-35.62
1697	3/7/2021	12	2	20.62	Yes	-15	-35.62
1698	3/7/2021	12	3	20.62	Yes	-15	-35.62
1699	3/7/2021	12	4	-0.01	Yes	-15	-14.99
1700	3/7/2021	12	5	15.53	Yes	-15	-30.53
1701	3/7/2021	12	6	28.61	Yes	-15	-43.61
1702	3/7/2021	12	7	20.46	Yes	-15	-35.46
1703	3/7/2021	12	8	20.85	Yes	-15	-35.85
1704	3/7/2021	12	9	20.46	Yes	-15	-35.46
1705	3/7/2021	12	10	0.01	Yes	-15	-15.01
1706	3/7/2021	12	11	16.59	Yes	-15	-31.59



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1707	3/7/2021	12	12	19.04	Yes	-15	-34.04
1708	3/7/2021	13	1	-14.77	Yes	-15	-0.23
1709	3/7/2021	13	2	-14.84	Yes	-15	-0.16
1710	3/7/2021	13	3	-14.84	Yes	-15	-0.16
1711	3/7/2021	13	4	-14.84	Yes	-15	-0.16
1712	3/7/2021	13	5	-14.84	Yes	-15	-0.16
1713	3/7/2021	13	6	-14.84	Yes	-15	-0.16
1714	3/7/2021	13	7	-14.84	Yes	-15	-0.16
1715	3/7/2021	13	8	-14.79	Yes	-15	-0.21
1716	3/7/2021	13	9	-14.78	Yes	-15	-0.22
1717	3/7/2021	13	10	-14.76	Yes	-15	-0.24
1718	3/7/2021	13	11	-14.76	Yes	-15	-0.24
1719	3/7/2021	13	12	-14.84	Yes	-15	-0.16
1720	3/7/2021	14	1	-14.91	Yes	-15	-0.09
1721	3/7/2021	14	2	-14.90	Yes	-15	-0.10
1722	3/7/2021	14	3	-14.90	Yes	-15	-0.10
1723	3/7/2021	14	4	-14.91	Yes	-15	-0.09
1724	3/7/2021	14	5	-14.91	Yes	-15	-0.09
1725	3/7/2021	14	6	-14.91	Yes	-15	-0.09
1726	3/7/2021	14	7	-14.90	Yes	-15	-0.10
1727	3/7/2021	14	8	-14.89	Yes	-15	-0.11
1728	3/7/2021	14	9	-14.89	Yes	-15	-0.11
1729	3/7/2021	14	10	-14.88	Yes	-15	-0.12
1730	3/7/2021	14	11	-14.88	Yes	-15	-0.12
1731	3/7/2021	14	12	-14.89	Yes	-15	-0.11
1732	3/7/2021	15	1	-14.89	Yes	-15	-0.11
1733	3/7/2021	15	2	-14.91	Yes	-15	-0.09
1734	3/7/2021	15	3	-14.89	Yes	-15	-0.11
1735	3/7/2021	15	4	-14.91	Yes	-15	-0.09
1736	3/7/2021	15	5	-14.85	Yes	-15	-0.15
1737	3/7/2021	15	6	-14.84	Yes	-15	-0.16
1738	3/7/2021	15	7	-14.78	Yes	-15	-0.22
1739	3/7/2021	15	8	-14.79	Yes	-15	-0.21
1740	3/7/2021	15	9	25.27	Yes	-15	-40.27
1741	3/7/2021	15	10	-14.77	Yes	-15	-0.23
1742	3/7/2021	15	11	-14.78	Yes	-15	-0.22
1743	3/7/2021	15	12	-14.78	Yes	-15	-0.22
1744	3/7/2021	16	1	-14.75	Yes	-15	-0.25

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1745	3/7/2021	16	2	-14.76	Yes	-15	-0.24
1746	3/7/2021	16	3	-14.76	Yes	-15	-0.24
1747	3/7/2021	16	4	32.82	Yes	-15	-47.82
1748	3/7/2021	16	5	52.60	Yes	-15	-67.60
1749	3/7/2021	16	6	53.35	Yes	-15	-68.35
1750	3/7/2021	16	7	70.20	Yes	-15	-85.20
1751	3/7/2021	16	8	796.38	Yes	-15	-811.38
1752	3/7/2021	16	9	847.93	Yes	-15	-862.93
1753	3/7/2021	16	10	955.73	Yes	-15	-970.73
1754	3/7/2021	16	11	151.10	Yes	-15	-166.10
1755	3/7/2021	16	12	151.10	Yes	-15	-166.10
1756	3/7/2021	17	1	-6.56	Yes	-15	-8.44
1757	3/7/2021	17	2	-6.33	Yes	-15	-8.67
1758	3/7/2021	17	3	-4.87	Yes	-15	-10.13
1759	3/7/2021	17	4	-6.29	Yes	-15	-8.71
1760	3/7/2021	17	5	-6.29	Yes	-15	-8.71
1761	3/7/2021	17	6	-4.20	Yes	-15	-10.80
1762	3/7/2021	17	7	-3.65	Yes	-15	-11.35
1763	3/7/2021	17	8	-3.46	Yes	-15	-11.54
1764	3/7/2021	17	9	-2.61	Yes	-15	-12.39
1765	3/7/2021	17	10	-2.69	Yes	-15	-12.31
1766	3/7/2021	17	11	-2.60	Yes	-15	-12.40
1767	3/7/2021	17	12	-2.69	Yes	-15	-12.31
1768	3/7/2021	18	1	39.23	Yes	-15	-54.23
1769	3/7/2021	18	2	26.83	Yes	-15	-41.83
1770	3/7/2021	18	3	26.53	Yes	-15	-41.53
1771	3/7/2021	18	4	27.72	Yes	-15	-42.72
1772	3/7/2021	18	5	28.79	Yes	-15	-43.79
1773	3/7/2021	18	6	31.58	Yes	-15	-46.58
1774	3/7/2021	18	7	35.42	Yes	-15	-50.42
1775	3/7/2021	18	8	40.59	Yes	-15	-55.59
1776	3/7/2021	18	9	47.14	Yes	-15	-62.14
1777	3/7/2021	18	10	48.65	Yes	-15	-63.65
1778	3/7/2021	18	11	48.84	Yes	-15	-63.84
1779	3/7/2021	18	12	48.84	Yes	-15	-63.84
1780	3/7/2021	19	1	46.40	Yes	-15	-61.40
1781	3/7/2021	19	2	45.45	Yes	-15	-60.45
1782	3/7/2021	19	3	47.26	Yes	-15	-62.26

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1783	3/7/2021	19	4	47.68	Yes	-15	-62.68
1784	3/7/2021	19	5	48.68	Yes	-15	-63.68
1785	3/7/2021	19	6	46.39	Yes	-15	-61.39
1786	3/7/2021	19	7	48.44	Yes	-15	-63.44
1787	3/7/2021	19	8	47.35	Yes	-15	-62.35
1788	3/7/2021	19	9	45.85	Yes	-15	-60.85
1789	3/7/2021	19	10	43.34	Yes	-15	-58.34
1790	3/7/2021	19	11	40.91	Yes	-15	-55.91
1791	3/7/2021	19	12	36.42	Yes	-15	-51.42
1792	3/7/2021	20	1	45.77	Yes	1	-44.77
1793	3/7/2021	20	2	46.67	Yes	1	-45.67
1794	3/7/2021	20	3	49.16	Yes	1	-48.16
1795	3/7/2021	20	4	45.83	Yes	1	-44.83
1796	3/7/2021	20	5	46.13	Yes	1	-45.13
1797	3/7/2021	20	6	44.87	Yes	1	-43.87
1798	3/7/2021	20	7	39.02	Yes	1	-38.02
1799	3/7/2021	20	8	38.72	Yes	1	-37.72
1800	3/7/2021	20	9	40.44	Yes	1	-39.44
1801	3/7/2021	20	10	47.60	Yes	1	-46.60
1802	3/7/2021	20	11	40.79	Yes	1	-39.79
1803	3/7/2021	20	12	38.27	Yes	1	-37.27
1804	3/7/2021	21	1	41.22	Yes	1	-40.22
1805	3/7/2021	21	2	39.21	Yes	1	-38.21
1806	3/7/2021	21	3	39.28	Yes	1	-38.28
1807	3/7/2021	21	4	47.35	Yes	1	-46.35
1808	3/7/2021	21	5	44.97	Yes	1	-43.97
1809	3/7/2021	21	6	40.56	Yes	1	-39.56
1810	3/7/2021	21	7	40.22	Yes	1	-39.22
1811	3/7/2021	21	8	38.19	Yes	1	-37.19
1812	3/7/2021	21	9	37.86	Yes	1	-36.86
1813	3/7/2021	21	10	39.58	Yes	1	-38.58
1814	3/7/2021	21	11	39.72	Yes	1	-38.72
1815	3/7/2021	21	12	39.16	Yes	1	-38.16
1816	3/7/2021	22	1	41.73	Yes	1	-40.73
1817	3/7/2021	22	2	39.40	Yes	1	-38.40
1818	3/7/2021	22	3	39.20	Yes	1	-38.20
1819	3/7/2021	22	4	39.45	Yes	1	-38.45
1820	3/7/2021	22	5	36.54	Yes	1	-35.54

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1821	3/7/2021	22	6	34.75	Yes	1	-33.75
1822	3/7/2021	22	7	33.83	Yes	1	-32.83
1823	3/7/2021	22	8	33.40	Yes	1	-32.40
1824	3/7/2021	22	9	31.82	Yes	1	-30.82
1825	3/7/2021	22	10	31.33	Yes	1	-30.33
1826	3/7/2021	22	11	30.96	Yes	1	-29.96
1827	3/7/2021	22	12	30.96	Yes	1	-29.96
1828	3/7/2021	23	1	38.00	Yes	1	-37.00
1829	3/7/2021	23	2	36.10	Yes	1	-35.10
1830	3/7/2021	23	3	34.81	Yes	1	-33.81
1831	3/7/2021	23	4	36.51	Yes	1	-35.51
1832	3/7/2021	23	5	36.51	Yes	1	-35.51
1833	3/7/2021	23	6	38.07	Yes	1	-37.07
1834	3/7/2021	23	7	56.25	Yes	1	-55.25
1835	3/7/2021	23	8	38.15	Yes	1	-37.15
1836	3/7/2021	23	9	33.55	Yes	1	-32.55
1837	3/7/2021	23	10	31.28	Yes	1	-30.28
1838	3/7/2021	23	11	31.52	Yes	1	-30.52
1839	3/7/2021	23	12	29.30	Yes	1	-28.30
1840	3/7/2021	24	1	29.55	Yes	1	-28.55
1841	3/7/2021	24	2	32.36	Yes	1	-31.36
1842	3/7/2021	24	3	29.79	Yes	1	-28.79
1843	3/7/2021	24	4	28.30	Yes	1	-27.30
1844	3/7/2021	24	5	27.95	Yes	1	-26.95
1845	3/7/2021	24	6	26.94	Yes	1	-25.94
1846	3/7/2021	24	7	26.56	Yes	1	-25.56
1847	3/7/2021	24	8	24.03	Yes	1	-23.03
1848	3/7/2021	24	9	26.37	Yes	1	-25.37
1849	3/7/2021	24	10	26.32	Yes	1	-25.32
1850	3/7/2021	24	11	24.06	Yes	1	-23.06
1851	3/7/2021	24	12	21.58	Yes	1	-20.58
1852	3/8/2021	1	1	24.10	Yes	1	-23.10
1853	3/8/2021	1	2	24.48	Yes	1	-23.48
1854	3/8/2021	1	3	24.18	Yes	1	-23.18
1855	3/8/2021	1	4	23.65	Yes	1	-22.65
1856	3/8/2021	1	5	23.53	Yes	1	-22.53
1857	3/8/2021	1	6	23.34	Yes	1	-22.34
1858	3/8/2021	1	7	22.57	Yes	1	-21.57

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1859	3/8/2021	1	8	22.51	Yes	1	-21.51
1860	3/8/2021	1	9	22.24	Yes	1	-21.24
1861	3/8/2021	1	10	21.71	Yes	1	-20.71
1862	3/8/2021	1	11	21.60	Yes	1	-20.60
1863	3/8/2021	1	12	21.58	Yes	1	-20.58
1864	3/8/2021	2	1	24.18	Yes	1	-23.18
1865	3/8/2021	2	2	25.82	Yes	1	-24.82
1866	3/8/2021	2	3	26.27	Yes	1	-25.27
1867	3/10/2021	11	5	-14.99	Yes	-15	-0.01
1868	3/10/2021	11	6	-47.01	Yes	-15	32.01
1869	3/10/2021	11	7	18.30	Yes	-15	-33.30
1870	3/10/2021	11	8	14.93	Yes	-15	-29.93
1871	3/10/2021	11	9	10.19	Yes	-15	-25.19
1872	3/10/2021	11	10	18.11	Yes	-15	-33.11
1873	3/10/2021	11	11	14.63	Yes	-15	-29.63
1874	3/10/2021	11	12	19.10	Yes	-15	-34.10
1875	3/10/2021	12	1	-14.98	Yes	-15	-0.02
1876	3/10/2021	12	2	-14.98	Yes	-15	-0.02
1877	3/10/2021	12	3	-14.98	Yes	-15	-0.02
1878	3/10/2021	12	4	-14.98	Yes	-15	-0.02
1879	3/10/2021	12	5	-14.98	Yes	-15	-0.02
1880	3/10/2021	12	6	-49.02	Yes	-15	34.02
1881	3/10/2021	12	7	19.72	Yes	-15	-34.72
1882	3/10/2021	12	8	-14.91	Yes	-15	-0.09
1883	3/10/2021	12	9	-14.90	Yes	-15	-0.10
1884	3/10/2021	12	10	-14.91	Yes	-15	-0.09
1885	3/10/2021	12	11	-14.90	Yes	-15	-0.10
1886	3/10/2021	12	12	-14.98	Yes	-15	-0.02
1887	3/10/2021	13	1	-15.00	Yes	-15	0.00
1888	3/10/2021	13	2	-15.00	Yes	-15	0.00
1889	3/10/2021	13	3	-15.00	Yes	-15	0.00
1890	3/10/2021	13	4	-14.98	Yes	-15	-0.02
1891	3/10/2021	13	5	-15.00	Yes	-15	0.00
1892	3/10/2021	13	6	-14.95	Yes	-15	-0.05
1893	3/10/2021	13	7	-14.92	Yes	-15	-0.08
1894	3/10/2021	13	8	-14.88	Yes	-15	-0.12
1895	3/10/2021	13	9	-14.88	Yes	-15	-0.12
1896	3/10/2021	13	10	-14.89	Yes	-15	-0.11

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1897	3/10/2021	13	11	-14.89	Yes	-15	-0.11
1898	3/10/2021	13	12	-14.92	Yes	-15	-0.08
1899	3/10/2021	14	1	-14.87	Yes	-15	-0.13
1900	3/10/2021	14	2	-14.86	Yes	-15	-0.14
1901	3/10/2021	14	3	-14.87	Yes	-15	-0.13
1902	3/10/2021	14	4	-14.87	Yes	-15	-0.13
1903	3/10/2021	14	5	-14.87	Yes	-15	-0.13
1904	3/10/2021	14	6	-14.87	Yes	-15	-0.13
1905	3/10/2021	14	7	-14.94	Yes	-15	-0.06
1906	3/10/2021	14	8	-14.93	Yes	-15	-0.07
1907	3/10/2021	14	9	-14.93	Yes	-15	-0.07
1908	3/10/2021	14	10	-14.85	Yes	-15	-0.15
1909	3/10/2021	14	11	-14.85	Yes	-15	-0.15
1910	3/10/2021	14	12	-14.96	Yes	-15	-0.04
1911	3/10/2021	15	1	23.18	Yes	-15	-38.18
1912	3/10/2021	15	2	-14.86	Yes	-15	-0.14
1913	3/10/2021	15	3	-14.84	Yes	-15	-0.16
1914	3/10/2021	15	4	-14.85	Yes	-15	-0.15
1915	3/10/2021	15	5	-14.83	Yes	-15	-0.17
1916	3/10/2021	15	6	-14.84	Yes	-15	-0.16
1917	3/10/2021	15	7	-14.87	Yes	-15	-0.13
1918	3/10/2021	15	8	-14.84	Yes	-15	-0.16
1919	3/10/2021	15	9	-14.81	Yes	-15	-0.19
1920	3/10/2021	15	10	-14.84	Yes	-15	-0.16
1921	3/10/2021	15	11	-14.85	Yes	-15	-0.15
1922	3/10/2021	15	12	-14.87	Yes	-15	-0.13
1923	3/10/2021	16	1	28.27	Yes	-15	-43.27
1924	3/10/2021	16	2	28.54	Yes	-15	-43.54
1925	3/10/2021	16	3	27.70	Yes	-15	-42.70
1926	3/10/2021	16	4	28.27	Yes	-15	-43.27
1927	3/10/2021	16	5	28.29	Yes	-15	-43.29
1928	3/10/2021	16	6	25.96	Yes	-15	-40.96
1929	3/10/2021	16	7	26.23	Yes	-15	-41.23
1930	3/10/2021	16	8	27.63	Yes	-15	-42.63
1931	3/10/2021	16	9	29.76	Yes	-15	-44.76
1932	3/10/2021	16	10	34.60	Yes	-15	-49.60
1933	3/10/2021	16	11	29.90	Yes	-15	-44.90
1934	3/10/2021	16	12	28.68	Yes	-15	-43.68

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1935	3/10/2021	17	1	-14.88	Yes	-15	-0.12
1936	3/10/2021	17	2	-14.87	Yes	-15	-0.13
1937	3/10/2021	17	3	-14.87	Yes	-15	-0.13
1938	3/10/2021	17	4	-15.46	Yes	-15	0.46
1939	3/10/2021	17	5	-15.68	Yes	-15	0.68
1940	3/10/2021	17	6	-16.53	Yes	-15	1.53
1941	3/10/2021	17	7	-14.83	Yes	-15	-0.17
1942	3/10/2021	17	8	-14.83	Yes	-15	-0.17
1943	3/10/2021	17	9	-15.22	Yes	-15	0.22
1944	3/10/2021	17	10	-15.59	Yes	-15	0.59
1945	3/10/2021	17	11	-14.89	Yes	-15	-0.11
1946	3/10/2021	17	12	-26.82	Yes	-15	11.82
1947	3/10/2021	18	1	31.53	Yes	1	-30.53
1948	3/10/2021	18	2	31.39	Yes	1	-30.39
1949	3/10/2021	18	3	31.30	Yes	1	-30.30
1950	3/10/2021	18	4	31.74	Yes	1	-30.74
1951	3/10/2021	18	5	34.40	Yes	1	-33.40
1952	3/10/2021	18	6	36.40	Yes	1	-35.40
1953	3/10/2021	18	7	37.82	Yes	1	-36.82
1954	3/10/2021	18	8	42.35	Yes	1	-41.35
1955	3/10/2021	18	9	49.80	Yes	1	-48.80
1956	3/10/2021	18	10	44.75	Yes	1	-43.75
1957	3/10/2021	18	11	46.51	Yes	1	-45.51
1958	3/10/2021	18	12	43.59	Yes	1	-42.59
1959	3/10/2021	19	1	45.24	Yes	-15	-60.24
1960	3/10/2021	19	2	45.98	Yes	-15	-60.98
1961	3/10/2021	19	3	47.15	Yes	-15	-62.15
1962	3/10/2021	19	4	47.25	Yes	-15	-62.25
1963	3/10/2021	19	5	46.31	Yes	-15	-61.31
1964	3/10/2021	19	6	46.59	Yes	-15	-61.59
1965	3/10/2021	19	7	44.32	Yes	-15	-59.32
1966	3/10/2021	19	8	44.32	Yes	-15	-59.32
1967	3/10/2021	19	9	43.61	Yes	-15	-58.61
1968	3/10/2021	19	10	44.23	Yes	-15	-59.23
1969	3/10/2021	19	11	45.37	Yes	-15	-60.37
1970	3/10/2021	19	12	47.15	Yes	-15	-62.15
1971	3/10/2021	20	1	47.49	Yes	1	-46.49
1972	3/10/2021	20	2	47.32	Yes	1	-46.32

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1973	3/10/2021	20	3	48.08	Yes	1	-47.08
1974	3/10/2021	20	4	54.57	Yes	1	-53.57
1975	3/10/2021	20	5	53.18	Yes	1	-52.18
1976	3/10/2021	20	6	55.84	Yes	1	-54.84
1977	3/10/2021	20	7	50.82	Yes	1	-49.82
1978	3/10/2021	20	8	50.50	Yes	1	-49.50
1979	3/10/2021	20	9	51.80	Yes	1	-50.80
1980	3/10/2021	20	10	46.76	Yes	1	-45.76
1981	3/10/2021	20	11	48.20	Yes	1	-47.20
1982	3/10/2021	20	12	49.04	Yes	1	-48.04
1983	3/10/2021	21	1	59.06	Yes	-15	-74.06
1984	3/10/2021	21	2	58.87	Yes	-15	-73.87
1985	3/10/2021	21	3	55.58	Yes	-15	-70.58
1986	3/10/2021	21	4	60.62	Yes	-15	-75.62
1987	3/10/2021	21	5	60.60	Yes	-15	-75.60
1988	3/10/2021	21	6	56.74	Yes	-15	-71.74
1989	3/10/2021	21	7	56.43	Yes	-15	-71.43
1990	3/10/2021	21	8	51.94	Yes	-15	-66.94
1991	3/10/2021	21	9	52.21	Yes	-15	-67.21
1992	3/10/2021	21	10	51.77	Yes	-15	-66.77
1993	3/10/2021	21	11	50.90	Yes	-15	-65.90
1994	3/10/2021	21	12	51.05	Yes	-15	-66.05
1995	3/10/2021	22	1	60.21	Yes	1	-59.21
1996	3/10/2021	22	2	148.00	Yes	1	-147.00
1997	3/10/2021	22	3	148.00	Yes	1	-147.00
1998	3/10/2021	22	4	65.84	Yes	1	-64.84
1999	3/10/2021	22	5	70.70	Yes	1	-69.70
2000	3/10/2021	22	6	60.32	Yes	1	-59.32
2001	3/10/2021	22	7	58.40	Yes	1	-57.40
2002	3/10/2021	22	8	61.57	Yes	1	-60.57
2003	3/10/2021	22	9	49.27	Yes	1	-48.27
2004	3/10/2021	22	10	49.86	Yes	1	-48.86
2005	3/10/2021	22	11	49.68	Yes	1	-48.68
2006	3/10/2021	22	12	50.77	Yes	1	-49.77
2007	3/10/2021	23	1	58.43	Yes	1	-57.43
2008	3/10/2021	23	2	60.32	Yes	1	-59.32
2009	3/10/2021	23	3	52.39	Yes	1	-51.39
2010	3/10/2021	23	4	52.02	Yes	1	-51.02



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2011	3/10/2021	23	5	52.45	Yes	1	-51.45
2012	3/10/2021	23	6	52.49	Yes	1	-51.49
2013	3/10/2021	23	7	59.16	Yes	1	-58.16
2014	3/10/2021	23	8	52.02	Yes	1	-51.02
2015	3/10/2021	23	9	50.87	Yes	1	-49.87
2016	3/10/2021	23	10	49.71	Yes	1	-48.71
2017	3/10/2021	23	11	45.25	Yes	1	-44.25
2018	3/10/2021	23	12	41.68	Yes	1	-40.68
2019	3/10/2021	24	1	45.25	Yes	1	-44.25
2020	3/10/2021	24	2	44.87	Yes	1	-43.87
2021	3/10/2021	24	3	58.80	Yes	1	-57.80
2022	3/10/2021	24	4	94.30	Yes	1	-93.30
2023	3/10/2021	24	5	65.12	Yes	1	-64.12
2024	3/10/2021	24	6	60.84	Yes	1	-59.84
2025	3/10/2021	24	7	51.08	Yes	1	-50.08
2026	3/10/2021	24	8	46.97	Yes	1	-45.97
2027	3/10/2021	24	9	39.49	Yes	1	-38.49
2028	3/10/2021	24	10	37.56	Yes	1	-36.56
2029	3/10/2021	24	11	39.21	Yes	1	-38.21
2030	3/10/2021	24	12	45.84	Yes	1	-44.84
2031	3/11/2021	1	1	53.22	Yes	1	-52.22
2032	3/11/2021	1	2	66.67	Yes	1	-65.67
2033	3/11/2021	1	3	56.99	Yes	1	-55.99
2034	3/11/2021	1	4	57.83	Yes	1	-56.83
2035	3/11/2021	1	5	56.99	Yes	1	-55.99
2036	3/11/2021	1	6	56.99	Yes	1	-55.99
2037	3/11/2021	1	7	54.89	Yes	1	-53.89
2038	3/11/2021	1	8	52.84	Yes	1	-51.84
2039	3/11/2021	1	9	50.08	Yes	1	-49.08
2040	3/11/2021	1	10	45.53	Yes	1	-44.53
2041	3/11/2021	1	11	45.27	Yes	1	-44.27
2042	3/11/2021	1	12	45.53	Yes	1	-44.53
2043	3/11/2021	2	1	48.94	Yes	1	-47.94
2044	3/11/2021	2	2	47.23	Yes	1	-46.23
2045	3/11/2021	2	3	47.74	Yes	1	-46.74
2046	3/11/2021	2	4	47.72	Yes	1	-46.72
2047	3/11/2021	2	5	54.66	Yes	1	-53.66
2048	3/11/2021	2	6	52.29	Yes	1	-51.29

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2049	3/11/2021	2	7	52.13	Yes	1	-51.13
2050	3/11/2021	2	8	52.13	Yes	1	-51.13
2051	3/11/2021	2	9	45.65	Yes	1	-44.65
2052	3/11/2021	2	10	45.56	Yes	1	-44.56
2053	3/11/2021	2	11	44.16	Yes	1	-43.16
2054	3/11/2021	2	12	44.30	Yes	1	-43.30
2055	3/11/2021	3	1	42.44	Yes	1	-41.44
2056	3/11/2021	3	2	42.44	Yes	1	-41.44
2057	3/11/2021	3	3	43.28	Yes	1	-42.28
2058	3/11/2021	3	4	43.07	Yes	1	-42.07
2059	3/11/2021	3	5	43.13	Yes	1	-42.13
2060	3/11/2021	3	6	43.07	Yes	1	-42.07
2061	3/11/2021	3	7	42.21	Yes	1	-41.21
2062	3/11/2021	3	8	42.86	Yes	1	-41.86
2063	3/11/2021	3	9	42.20	Yes	1	-41.20
2064	3/11/2021	3	10	42.24	Yes	1	-41.24
2065	3/11/2021	3	11	42.26	Yes	1	-41.26
2066	3/11/2021	3	12	42.38	Yes	1	-41.38
2067	3/11/2021	4	1	43.12	Yes	1	-42.12
2068	3/11/2021	4	2	42.70	Yes	1	-41.70
2069	3/11/2021	4	3	43.24	Yes	1	-42.24
2070	3/11/2021	4	4	43.27	Yes	1	-42.27
2071	3/11/2021	4	5	43.20	Yes	1	-42.20
2072	3/11/2021	4	6	43.32	Yes	1	-42.32
2073	3/11/2021	4	7	43.37	Yes	1	-42.37
2074	3/11/2021	4	8	43.36	Yes	1	-42.36
2075	3/11/2021	4	9	43.36	Yes	1	-42.36
2076	3/11/2021	4	10	43.35	Yes	1	-42.35
2077	3/11/2021	4	11	43.35	Yes	1	-42.35
2078	3/11/2021	4	12	43.05	Yes	1	-42.05
2079	3/11/2021	5	1	42.83	Yes	1	-41.83
2080	3/11/2021	5	2	42.83	Yes	1	-41.83
2081	3/11/2021	5	3	43.16	Yes	1	-42.16
2082	3/11/2021	5	4	43.51	Yes	1	-42.51
2083	3/11/2021	5	5	43.51	Yes	1	-42.51
2084	3/11/2021	5	6	45.72	Yes	1	-44.72
2085	3/11/2021	5	7	46.24	Yes	1	-45.24
2086	3/11/2021	5	8	47.32	Yes	1	-46.32

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2087	3/11/2021	5	9	47.39	Yes	1	-46.39
2088	3/11/2021	5	10	49.43	Yes	1	-48.43
2089	3/11/2021	5	11	56.66	Yes	1	-55.66
2090	3/11/2021	5	12	49.43	Yes	1	-48.43
2091	3/11/2021	6	1	42.55	Yes	1	-41.55
2092	3/11/2021	6	2	42.55	Yes	1	-41.55
2093	3/11/2021	6	3	39.81	Yes	1	-38.81
2094	3/11/2021	6	4	43.58	Yes	1	-42.58
2095	3/11/2021	6	5	43.81	Yes	1	-42.81
2096	3/11/2021	6	6	44.67	Yes	1	-43.67
2097	3/11/2021	6	7	44.67	Yes	1	-43.67
2098	3/11/2021	6	8	46.44	Yes	1	-45.44
2099	3/11/2021	6	9	47.12	Yes	1	-46.12
2100	3/11/2021	6	10	52.75	Yes	1	-51.75
2101	3/11/2021	6	11	46.81	Yes	1	-45.81
2102	3/11/2021	6	12	46.21	Yes	1	-45.21
2103	3/11/2021	7	1	43.57	Yes	1	-42.57
2104	3/11/2021	7	2	43.81	Yes	1	-42.81
2105	3/11/2021	7	3	43.98	Yes	1	-42.98
2106	3/11/2021	7	4	44.12	Yes	1	-43.12
2107	3/11/2021	7	5	44.12	Yes	1	-43.12
2108	3/11/2021	7	6	55.01	Yes	1	-54.01
2109	3/11/2021	7	7	47.53	Yes	1	-46.53
2110	3/11/2021	7	8	46.59	Yes	1	-45.59
2111	3/11/2021	7	9	45.22	Yes	1	-44.22
2112	3/11/2021	7	10	43.74	Yes	1	-42.74
2113	3/11/2021	7	11	43.36	Yes	1	-42.36
2114	3/11/2021	7	12	43.57	Yes	1	-42.57
2115	3/11/2021	8	1	79.39	Yes	1	-78.39
2116	3/11/2021	8	2	64.20	Yes	1	-63.20
2117	3/11/2021	8	3	49.48	Yes	1	-48.48
2118	3/11/2021	8	4	44.34	Yes	1	-43.34
2119	3/11/2021	8	5	35.87	Yes	1	-34.87
2120	3/11/2021	8	6	34.76	Yes	1	-33.76
2121	3/11/2021	8	7	33.91	Yes	1	-32.91
2122	3/11/2021	8	8	31.01	Yes	1	-30.01
2123	3/11/2021	8	9	32.17	Yes	1	-31.17
2124	3/11/2021	8	10	27.75	Yes	1	-26.75

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2125	3/11/2021	8	11	27.75	Yes	1	-26.75
2126	3/11/2021	8	12	29.00	Yes	1	-28.00
2127	3/11/2021	9	1	34.53	Yes	1	-33.53
2128	3/11/2021	9	2	35.84	Yes	1	-34.84
2129	3/11/2021	9	3	41.61	Yes	1	-40.61
2130	3/11/2021	9	4	36.59	Yes	1	-35.59
2131	3/11/2021	9	5	32.99	Yes	1	-31.99
2132	3/11/2021	9	6	31.29	Yes	1	-30.29
2133	3/11/2021	9	7	1.06	Yes	1	-0.06
2134	3/11/2021	9	8	1.06	Yes	1	-0.06
2135	3/11/2021	9	9	1.06	Yes	1	-0.06
2136	3/11/2021	9	10	1.07	Yes	1	-0.07
2137	3/11/2021	9	11	1.07	Yes	1	-0.07
2138	3/11/2021	9	12	29.71	Yes	1	-28.71
2139	3/11/2021	10	1	-14.88	Yes	1	15.88
2140	3/11/2021	10	2	1.07	Yes	1	-0.07
2141	3/11/2021	10	3	-14.86	Yes	1	15.86
2142	3/11/2021	10	4	-14.86	Yes	1	15.86
2143	3/11/2021	10	5	-14.88	Yes	1	15.88
2144	3/11/2021	10	6	-14.88	Yes	1	15.88
2145	3/11/2021	10	7	1.03	Yes	1	-0.03
2146	3/11/2021	10	8	1.03	Yes	1	-0.03
2147	3/11/2021	10	9	1.03	Yes	1	-0.03
2148	3/11/2021	10	10	25.41	Yes	1	-24.41
2149	3/11/2021	10	11	22.68	Yes	1	-21.68
2150	3/11/2021	10	12	20.46	Yes	1	-19.46
2151	3/11/2021	11	1	1.03	Yes	1	-0.03
2152	3/11/2021	11	2	1.03	Yes	1	-0.03
2153	3/11/2021	11	3	1.03	Yes	1	-0.03
2154	3/11/2021	11	4	22.11	Yes	1	-21.11
2155	3/11/2021	11	5	20.69	Yes	1	-19.69
2156	3/11/2021	11	6	20.36	Yes	1	-19.36
2157	3/11/2021	11	7	20.45	Yes	1	-19.45
2158	3/11/2021	11	8	20.84	Yes	1	-19.84
2159	3/11/2021	11	9	21.17	Yes	1	-20.17
2160	3/11/2021	11	10	20.62	Yes	1	-19.62
2161	3/11/2021	11	11	20.51	Yes	1	-19.51
2162	3/11/2021	11	12	19.15	Yes	1	-18.15

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2163	3/11/2021	12	1	-17.89	Yes	1	18.89
2164	3/11/2021	12	2	-14.92	Yes	1	15.92
2165	3/11/2021	12	3	1.04	Yes	1	-0.04
2166	3/11/2021	12	4	1.12	Yes	1	-0.12
2167	3/11/2021	12	5	1.10	Yes	1	-0.10
2168	3/11/2021	12	6	1.09	Yes	1	-0.09
2169	3/11/2021	12	7	1.10	Yes	1	-0.10
2170	3/11/2021	12	8	1.10	Yes	1	-0.10
2171	3/11/2021	12	9	1.09	Yes	1	-0.09
2172	3/11/2021	12	10	24.78	Yes	1	-23.78
2173	3/11/2021	12	11	22.57	Yes	1	-21.57
2174	3/11/2021	12	12	22.44	Yes	1	-21.44
2175	3/11/2021	13	1	1.11	Yes	1	-0.11
2176	3/11/2021	13	2	1.12	Yes	1	-0.12
2177	3/11/2021	13	3	1.12	Yes	1	-0.12
2178	3/11/2021	13	4	21.99	Yes	1	-20.99
2179	3/11/2021	13	5	21.01	Yes	1	-20.01
2180	3/11/2021	13	6	20.38	Yes	1	-19.38
2181	3/11/2021	13	7	19.39	Yes	1	-18.39
2182	3/11/2021	13	8	19.82	Yes	1	-18.82
2183	3/11/2021	13	9	21.27	Yes	1	-20.27
2184	3/11/2021	13	10	23.72	Yes	1	-22.72
2185	3/11/2021	13	11	27.55	Yes	1	-26.55
2186	3/11/2021	13	12	25.40	Yes	1	-24.40
2187	3/11/2021	14	1	25.09	Yes	1	-24.09
2188	3/11/2021	14	2	23.56	Yes	1	-22.56
2189	3/11/2021	14	3	25.09	Yes	1	-24.09
2190	3/11/2021	14	4	22.78	Yes	1	-21.78
2191	3/11/2021	14	5	22.26	Yes	1	-21.26
2192	3/11/2021	14	6	22.89	Yes	1	-21.89
2193	3/11/2021	14	7	23.91	Yes	1	-22.91
2194	3/11/2021	14	8	28.17	Yes	1	-27.17
2195	3/11/2021	14	9	28.11	Yes	1	-27.11
2196	3/11/2021	14	10	1.16	Yes	1	-0.16
2197	3/11/2021	14	11	1.14	Yes	1	-0.14
2198	3/11/2021	14	12	1.15	Yes	1	-0.15
2199	3/11/2021	16	10	34.26	Yes	1	-33.26
2200	3/11/2021	16	11	30.29	Yes	1	-29.29

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2201	3/11/2021	16	12	29.13	Yes	1	-28.13
2202	3/11/2021	17	1	23.44	Yes	1	-22.44
2203	3/11/2021	17	2	25.55	Yes	1	-24.55
2204	3/11/2021	17	3	26.64	Yes	1	-25.64
2205	3/11/2021	17	4	28.66	Yes	1	-27.66
2206	3/11/2021	17	5	30.29	Yes	1	-29.29
2207	3/11/2021	17	6	34.55	Yes	1	-33.55
2208	3/11/2021	17	7	33.52	Yes	1	-32.52
2209	3/11/2021	17	8	42.41	Yes	1	-41.41
2210	3/11/2021	17	9	42.78	Yes	1	-41.78
2211	3/11/2021	17	10	47.90	Yes	1	-46.90
2212	3/11/2021	17	11	46.99	Yes	1	-45.99
2213	3/11/2021	17	12	42.35	Yes	1	-41.35
2214	3/11/2021	18	1	30.54	Yes	1	-29.54
2215	3/11/2021	18	2	29.56	Yes	1	-28.56
2216	3/11/2021	18	3	29.26	Yes	1	-28.26
2217	3/11/2021	18	4	32.74	Yes	1	-31.74
2218	3/11/2021	18	5	32.96	Yes	1	-31.96
2219	3/11/2021	18	6	34.12	Yes	1	-33.12
2220	3/11/2021	18	7	35.44	Yes	1	-34.44
2221	3/11/2021	18	8	42.05	Yes	1	-41.05
2222	3/11/2021	18	9	44.45	Yes	1	-43.45
2223	3/11/2021	18	10	44.58	Yes	1	-43.58
2224	3/11/2021	18	11	50.38	Yes	1	-49.38
2225	3/11/2021	18	12	49.58	Yes	1	-48.58
2226	3/11/2021	19	1	43.86	Yes	1	-42.86
2227	3/11/2021	19	2	39.31	Yes	1	-38.31
2228	3/11/2021	19	3	42.46	Yes	1	-41.46
2229	3/11/2021	19	4	40.81	Yes	1	-39.81
2230	3/11/2021	19	5	40.02	Yes	1	-39.02
2231	3/11/2021	19	6	40.09	Yes	1	-39.09
2232	3/11/2021	19	7	39.99	Yes	1	-38.99
2233	3/11/2021	19	8	39.13	Yes	1	-38.13
2234	3/11/2021	19	9	39.12	Yes	1	-38.12
2235	3/11/2021	19	10	37.88	Yes	1	-36.88
2236	3/11/2021	19	11	38.91	Yes	1	-37.91
2237	3/11/2021	19	12	40.66	Yes	1	-39.66
2238	3/11/2021	20	1	48.40	Yes	1	-47.40

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2239	3/11/2021	20	2	49.26	Yes	1	-48.26
2240	3/11/2021	20	3	48.34	Yes	1	-47.34
2241	3/11/2021	20	4	50.52	Yes	1	-49.52
2242	3/11/2021	20	5	48.76	Yes	1	-47.76
2243	3/11/2021	20	6	46.07	Yes	1	-45.07
2244	3/11/2021	20	7	46.07	Yes	1	-45.07
2245	3/11/2021	20	8	46.07	Yes	1	-45.07
2246	3/11/2021	20	9	46.07	Yes	1	-45.07
2247	3/11/2021	20	10	46.07	Yes	1	-45.07
2248	3/11/2021	20	11	46.07	Yes	1	-45.07
2249	3/11/2021	20	12	46.07	Yes	1	-45.07
2250	3/11/2021	21	1	48.55	Yes	1	-47.55
2251	3/11/2021	21	2	48.69	Yes	1	-47.69
2252	3/11/2021	21	3	47.53	Yes	1	-46.53
2253	3/11/2021	21	4	56.26	Yes	1	-55.26
2254	3/11/2021	21	5	54.49	Yes	1	-53.49
2255	3/11/2021	21	6	47.09	Yes	1	-46.09
2256	3/11/2021	21	7	45.71	Yes	1	-44.71
2257	3/11/2021	21	8	44.43	Yes	1	-43.43
2258	3/11/2021	21	9	44.43	Yes	1	-43.43
2259	3/11/2021	21	10	42.89	Yes	1	-41.89
2260	3/11/2021	21	11	42.89	Yes	1	-41.89
2261	3/11/2021	21	12	43.13	Yes	1	-42.13
2262	3/11/2021	22	1	47.60	Yes	1	-46.60
2263	3/11/2021	22	2	54.64	Yes	1	-53.64
2264	3/11/2021	22	3	52.86	Yes	1	-51.86
2265	3/11/2021	22	4	49.55	Yes	1	-48.55
2266	3/11/2021	22	5	49.12	Yes	1	-48.12
2267	3/11/2021	22	6	47.11	Yes	1	-46.11
2268	3/11/2021	22	7	55.06	Yes	1	-54.06
2269	3/11/2021	22	8	44.75	Yes	1	-43.75
2270	3/11/2021	22	9	57.87	Yes	1	-56.87
2271	3/11/2021	22	10	44.35	Yes	1	-43.35
2272	3/11/2021	22	11	42.54	Yes	1	-41.54
2273	3/11/2021	22	12	42.54	Yes	1	-41.54
2274	3/11/2021	23	1	53.32	Yes	1	-52.32
2275	3/11/2021	23	2	50.36	Yes	1	-49.36
2276	3/11/2021	23	3	51.73	Yes	1	-50.73

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2277	3/11/2021	23	4	44.50	Yes	1	-43.50
2278	3/11/2021	23	5	42.59	Yes	1	-41.59
2279	3/11/2021	23	6	42.41	Yes	1	-41.41
2280	3/11/2021	23	7	41.62	Yes	1	-40.62
2281	3/11/2021	23	8	41.70	Yes	1	-40.70
2282	3/11/2021	23	9	41.62	Yes	1	-40.62
2283	3/11/2021	23	10	38.42	Yes	1	-37.42
2284	3/11/2021	23	11	36.83	Yes	1	-35.83
2285	3/11/2021	23	12	38.42	Yes	1	-37.42
2286	3/11/2021	24	1	38.40	Yes	1	-37.40
2287	3/11/2021	24	2	41.09	Yes	1	-40.09
2288	3/11/2021	24	3	35.81	Yes	1	-34.81
2289	3/11/2021	24	4	37.05	Yes	1	-36.05
2290	3/11/2021	24	5	35.93	Yes	1	-34.93
2291	3/11/2021	24	6	35.15	Yes	1	-34.15
2292	3/11/2021	24	7	34.49	Yes	1	-33.49
2293	3/11/2021	24	8	34.49	Yes	1	-33.49
2294	3/11/2021	24	9	34.49	Yes	1	-33.49
2295	3/11/2021	24	10	33.44	Yes	1	-32.44
2296	3/11/2021	24	11	33.84	Yes	1	-32.84
2297	3/11/2021	24	12	33.13	Yes	1	-32.13
2298	3/12/2021	1	1	33.08	Yes	-15	-48.08
2299	3/12/2021	1	2	34.07	Yes	-15	-49.07
2300	3/12/2021	1	3	35.29	Yes	-15	-50.29
2301	3/12/2021	1	4	33.81	Yes	-15	-48.81
2302	3/12/2021	1	5	33.10	Yes	-15	-48.10
2303	3/12/2021	1	6	33.11	Yes	-15	-48.11
2304	3/12/2021	1	7	32.93	Yes	-15	-47.93
2305	3/12/2021	1	8	32.76	Yes	-15	-47.76
2306	3/12/2021	1	9	32.58	Yes	-15	-47.58
2307	3/12/2021	1	10	31.24	Yes	-15	-46.24
2308	3/12/2021	1	11	31.24	Yes	-15	-46.24
2309	3/12/2021	1	12	31.24	Yes	-15	-46.24
2310	3/12/2021	2	1	31.61	Yes	1	-30.61
2311	3/12/2021	2	2	32.20	Yes	1	-31.20
2312	3/12/2021	2	3	32.69	Yes	1	-31.69
2313	3/12/2021	2	4	32.52	Yes	1	-31.52
2314	3/12/2021	2	5	32.77	Yes	1	-31.77



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2315	3/12/2021	2	6	32.50	Yes	1	-31.50
2316	3/12/2021	2	7	32.94	Yes	1	-31.94
2317	3/12/2021	2	8	32.68	Yes	1	-31.68
2318	3/12/2021	2	9	32.68	Yes	1	-31.68
2319	3/12/2021	2	10	32.88	Yes	1	-31.88
2320	3/12/2021	2	11	32.78	Yes	1	-31.78
2321	3/12/2021	2	12	32.43	Yes	1	-31.43
2322	3/12/2021	3	1	32.92	Yes	-15	-47.92
2323	3/12/2021	3	2	31.92	Yes	-15	-46.92
2324	3/12/2021	3	3	32.52	Yes	-15	-47.52
2325	3/12/2021	3	4	33.10	Yes	-15	-48.10
2326	3/12/2021	3	5	33.04	Yes	-15	-48.04
2327	3/12/2021	3	6	32.70	Yes	-15	-47.70
2328	3/12/2021	3	7	32.87	Yes	-15	-47.87
2329	3/12/2021	3	8	32.86	Yes	-15	-47.86
2330	3/12/2021	3	9	32.62	Yes	-15	-47.62
2331	3/12/2021	3	10	32.44	Yes	-15	-47.44
2332	3/12/2021	3	11	32.44	Yes	-15	-47.44
2333	3/12/2021	3	12	32.50	Yes	-15	-47.50
2334	3/12/2021	4	1	32.03	Yes	1	-31.03
2335	3/12/2021	4	2	32.03	Yes	1	-31.03
2336	3/12/2021	4	3	33.04	Yes	1	-32.04
2337	3/12/2021	4	4	33.22	Yes	1	-32.22
2338	3/12/2021	4	5	33.22	Yes	1	-32.22
2339	3/12/2021	4	6	33.16	Yes	1	-32.16
2340	3/12/2021	4	7	34.14	Yes	1	-33.14
2341	3/12/2021	4	8	34.66	Yes	1	-33.66
2342	3/12/2021	4	9	34.40	Yes	1	-33.40
2343	3/12/2021	4	10	34.62	Yes	1	-33.62
2344	3/12/2021	4	11	34.62	Yes	1	-33.62
2345	3/12/2021	4	12	34.62	Yes	1	-33.62
2346	3/12/2021	5	1	33.04	Yes	1	-32.04
2347	3/12/2021	5	2	33.04	Yes	1	-32.04
2348	3/12/2021	5	3	33.48	Yes	1	-32.48
2349	3/12/2021	5	4	35.41	Yes	1	-34.41
2350	3/12/2021	5	5	34.87	Yes	1	-33.87
2351	3/12/2021	5	6	35.45	Yes	1	-34.45
2352	3/12/2021	5	7	47.65	Yes	1	-46.65

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2353	3/12/2021	5	8	47.65	Yes	1	-46.65
2354	3/12/2021	5	9	52.71	Yes	1	-51.71
2355	3/12/2021	5	10	56.24	Yes	1	-55.24
2356	3/12/2021	5	11	53.39	Yes	1	-52.39
2357	3/12/2021	5	12	47.08	Yes	1	-46.08
2358	3/12/2021	6	1	34.37	Yes	-15	-49.37
2359	3/12/2021	6	2	33.48	Yes	-15	-48.48
2360	3/12/2021	6	3	34.34	Yes	-15	-49.34
2361	3/12/2021	6	4	35.53	Yes	-15	-50.53
2362	3/12/2021	6	5	38.24	Yes	-15	-53.24
2363	3/12/2021	6	6	40.52	Yes	-15	-55.52
2364	3/12/2021	6	7	40.51	Yes	-15	-55.51
2365	3/12/2021	6	8	43.80	Yes	-15	-58.80
2366	3/12/2021	6	9	55.00	Yes	-15	-70.00
2367	3/12/2021	6	10	57.82	Yes	-15	-72.82
2368	3/12/2021	6	11	65.50	Yes	-15	-80.50
2369	3/12/2021	6	12	66.82	Yes	-15	-81.82
2370	3/12/2021	7	1	53.58	Yes	1	-52.58
2371	3/12/2021	7	2	58.13	Yes	1	-57.13
2372	3/12/2021	7	3	58.19	Yes	1	-57.19
2373	3/12/2021	7	4	46.09	Yes	1	-45.09
2374	3/12/2021	7	5	46.07	Yes	1	-45.07
2375	3/12/2021	7	6	42.06	Yes	1	-41.06
2376	3/12/2021	7	7	34.81	Yes	1	-33.81
2377	3/12/2021	7	8	33.67	Yes	1	-32.67
2378	3/12/2021	7	9	33.10	Yes	1	-32.10
2379	3/12/2021	7	10	31.94	Yes	1	-30.94
2380	3/12/2021	7	11	28.54	Yes	1	-27.54
2381	3/12/2021	7	12	29.29	Yes	1	-28.29
2382	3/12/2021	8	1	44.79	Yes	1	-43.79
2383	3/12/2021	8	2	33.96	Yes	1	-32.96
2384	3/12/2021	8	3	32.99	Yes	1	-31.99
2385	3/12/2021	8	4	33.00	Yes	1	-32.00
2386	3/12/2021	8	5	28.52	Yes	1	-27.52
2387	3/12/2021	8	6	28.52	Yes	1	-27.52
2388	3/12/2021	8	7	27.92	Yes	1	-26.92
2389	3/12/2021	8	8	28.32	Yes	1	-27.32
2390	3/12/2021	8	9	28.45	Yes	1	-27.45

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2391	3/12/2021	8	10	25.83	Yes	1	-24.83
2392	3/12/2021	8	11	23.29	Yes	1	-22.29
2393	3/12/2021	8	12	22.97	Yes	1	-21.97
2394	3/12/2021	9	1	27.03	Yes	1	-26.03
2395	3/12/2021	9	2	28.45	Yes	1	-27.45
2396	3/12/2021	9	3	28.45	Yes	1	-27.45
2397	3/12/2021	9	4	28.36	Yes	1	-27.36
2398	3/12/2021	9	5	28.35	Yes	1	-27.35
2399	3/12/2021	9	6	26.71	Yes	1	-25.71
2400	3/12/2021	9	7	23.28	Yes	1	-22.28
2401	3/12/2021	9	8	23.34	Yes	1	-22.34
2402	3/12/2021	9	9	22.82	Yes	1	-21.82
2403	3/12/2021	9	10	22.51	Yes	1	-21.51
2404	3/12/2021	9	11	22.04	Yes	1	-21.04
2405	3/12/2021	9	12	21.81	Yes	1	-20.81
2406	3/12/2021	10	1	21.34	Yes	1	-20.34
2407	3/12/2021	10	2	20.66	Yes	1	-19.66
2408	3/12/2021	10	3	20.10	Yes	1	-19.10
2409	3/12/2021	10	4	19.10	Yes	1	-18.10
2410	3/12/2021	10	5	18.77	Yes	1	-17.77
2411	3/12/2021	10	6	18.28	Yes	1	-17.28
2412	3/12/2021	10	7	18.93	Yes	1	-17.93
2413	3/12/2021	10	8	18.86	Yes	1	-17.86
2414	3/12/2021	10	9	18.84	Yes	1	-17.84
2415	3/12/2021	10	10	18.13	Yes	1	-17.13
2416	3/12/2021	10	11	17.29	Yes	1	-16.29
2417	3/12/2021	10	12	17.58	Yes	1	-16.58
2418	3/12/2021	11	1	19.50	Yes	1	-18.50
2419	3/12/2021	11	2	18.20	Yes	1	-17.20
2420	3/12/2021	11	3	18.19	Yes	1	-17.19
2421	3/12/2021	11	4	19.67	Yes	1	-18.67
2422	3/12/2021	11	5	20.36	Yes	1	-19.36
2423	3/12/2021	11	6	20.78	Yes	1	-19.78
2424	3/12/2021	11	7	20.84	Yes	1	-19.84
2425	3/12/2021	11	8	20.64	Yes	1	-19.64
2426	3/12/2021	11	9	20.57	Yes	1	-19.57
2427	3/12/2021	11	10	20.38	Yes	1	-19.38
2428	3/12/2021	11	11	19.94	Yes	1	-18.94

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2429	3/12/2021	11	12	19.41	Yes	1	-18.41
2430	3/12/2021	12	1	19.49	Yes	1	-18.49
2431	3/12/2021	12	2	19.64	Yes	1	-18.64
2432	3/12/2021	12	3	19.88	Yes	1	-18.88
2433	3/12/2021	12	4	20.24	Yes	1	-19.24
2434	3/12/2021	12	5	20.46	Yes	1	-19.46
2435	3/12/2021	12	6	20.46	Yes	1	-19.46
2436	3/12/2021	12	7	19.90	Yes	1	-18.90
2437	3/12/2021	12	8	19.92	Yes	1	-18.92
2438	3/12/2021	12	9	19.57	Yes	1	-18.57
2439	3/12/2021	12	10	20.35	Yes	1	-19.35
2440	3/12/2021	12	11	19.96	Yes	1	-18.96
2441	3/12/2021	12	12	19.95	Yes	1	-18.95
2442	3/12/2021	13	1	20.42	Yes	-15	-35.42
2443	3/12/2021	13	2	21.01	Yes	-15	-36.01
2444	3/12/2021	13	3	20.65	Yes	-15	-35.65
2445	3/12/2021	13	4	19.88	Yes	-15	-34.88
2446	3/12/2021	13	5	19.69	Yes	-15	-34.69
2447	3/12/2021	13	6	19.34	Yes	-15	-34.34
2448	3/12/2021	13	7	19.53	Yes	-15	-34.53
2449	3/12/2021	13	8	19.16	Yes	-15	-34.16
2450	3/12/2021	13	9	19.16	Yes	-15	-34.16
2451	3/12/2021	13	10	19.02	Yes	-15	-34.02
2452	3/12/2021	13	11	19.20	Yes	-15	-34.20
2453	3/12/2021	13	12	19.38	Yes	-15	-34.38
2454	3/12/2021	14	1	20.08	Yes	-15	-35.08
2455	3/12/2021	14	2	20.05	Yes	-15	-35.05
2456	3/12/2021	14	3	20.08	Yes	-15	-35.08
2457	3/12/2021	14	4	20.88	Yes	-15	-35.88
2458	3/12/2021	14	5	20.86	Yes	-15	-35.86
2459	3/12/2021	14	6	22.76	Yes	-15	-37.76
2460	3/12/2021	14	7	21.59	Yes	-15	-36.59
2461	3/12/2021	14	8	25.33	Yes	-15	-40.33
2462	3/12/2021	14	9	27.00	Yes	-15	-42.00
2463	3/12/2021	14	10	27.89	Yes	-15	-42.89
2464	3/12/2021	14	11	29.00	Yes	-15	-44.00
2465	3/12/2021	14	12	28.14	Yes	-15	-43.14
2466	3/12/2021	15	1	25.11	Yes	1	-24.11

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2467	3/12/2021	15	2	28.32	Yes	1	-27.32
2468	3/12/2021	15	3	29.57	Yes	1	-28.57
2469	3/12/2021	15	4	29.09	Yes	1	-28.09
2470	3/12/2021	15	5	30.89	Yes	1	-29.89
2471	3/12/2021	15	6	33.35	Yes	1	-32.35
2472	3/12/2021	15	7	31.20	Yes	1	-30.20
2473	3/12/2021	15	8	30.83	Yes	1	-29.83
2474	3/12/2021	15	9	28.75	Yes	1	-27.75
2475	3/12/2021	15	10	30.63	Yes	1	-29.63
2476	3/12/2021	15	11	31.53	Yes	1	-30.53
2477	3/12/2021	15	12	33.04	Yes	1	-32.04
2478	3/12/2021	16	1	28.75	Yes	1	-27.75
2479	3/12/2021	16	2	27.04	Yes	1	-26.04
2480	3/12/2021	16	3	26.46	Yes	1	-25.46
2481	3/12/2021	16	4	26.61	Yes	1	-25.61
2482	3/12/2021	16	5	27.30	Yes	1	-26.30
2483	3/12/2021	16	6	27.84	Yes	1	-26.84
2484	3/12/2021	16	7	28.95	Yes	1	-27.95
2485	3/12/2021	16	8	28.31	Yes	1	-27.31
2486	3/12/2021	16	9	28.31	Yes	1	-27.31
2487	3/12/2021	16	10	28.12	Yes	1	-27.12
2488	3/12/2021	16	11	23.58	Yes	1	-22.58
2489	3/12/2021	16	12	19.43	Yes	1	-18.43
2490	3/12/2021	17	1	17.51	Yes	1	-16.51
2491	3/12/2021	17	2	17.25	Yes	1	-16.25
2492	3/12/2021	17	3	17.86	Yes	1	-16.86
2493	3/12/2021	17	4	19.44	Yes	1	-18.44
2494	3/12/2021	17	5	21.75	Yes	1	-20.75
2495	3/12/2021	17	6	21.80	Yes	1	-20.80
2496	3/12/2021	17	7	21.70	Yes	1	-20.70
2497	3/12/2021	17	8	24.83	Yes	1	-23.83
2498	3/12/2021	17	9	27.03	Yes	1	-26.03
2499	3/12/2021	17	10	31.65	Yes	1	-30.65
2500	3/12/2021	17	11	39.66	Yes	1	-38.66
2501	3/12/2021	17	12	35.82	Yes	1	-34.82
2502	3/12/2021	18	1	25.72	Yes	1	-24.72
2503	3/12/2021	18	2	23.41	Yes	1	-22.41
2504	3/12/2021	18	3	25.68	Yes	1	-24.68

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2505	3/12/2021	18	4	28.37	Yes	1	-27.37
2506	3/12/2021	18	5	29.84	Yes	1	-28.84
2507	3/12/2021	18	6	31.34	Yes	1	-30.34
2508	3/12/2021	18	7	31.43	Yes	1	-30.43
2509	3/12/2021	18	8	38.48	Yes	1	-37.48
2510	3/12/2021	18	9	41.94	Yes	1	-40.94
2511	3/12/2021	18	10	37.78	Yes	1	-36.78
2512	3/12/2021	18	11	38.77	Yes	1	-37.77
2513	3/12/2021	18	12	44.38	Yes	1	-43.38
2514	3/12/2021	19	1	38.54	Yes	1	-37.54
2515	3/12/2021	19	2	39.72	Yes	1	-38.72
2516	3/12/2021	19	3	40.67	Yes	1	-39.67
2517	3/12/2021	19	4	40.67	Yes	1	-39.67
2518	3/12/2021	19	5	40.73	Yes	1	-39.73
2519	3/12/2021	19	6	36.95	Yes	1	-35.95
2520	3/12/2021	19	7	34.34	Yes	1	-33.34
2521	3/12/2021	19	8	33.33	Yes	1	-32.33
2522	3/12/2021	19	9	33.08	Yes	1	-32.08
2523	3/12/2021	19	10	31.50	Yes	1	-30.50
2524	3/12/2021	19	11	31.50	Yes	1	-30.50
2525	3/12/2021	19	12	32.19	Yes	1	-31.19
2526	3/12/2021	20	1	36.10	Yes	1	-35.10
2527	3/12/2021	20	2	39.90	Yes	1	-38.90
2528	3/12/2021	20	3	38.49	Yes	1	-37.49
2529	3/12/2021	20	4	37.47	Yes	1	-36.47
2530	3/12/2021	20	5	34.20	Yes	1	-33.20
2531	3/12/2021	20	6	33.19	Yes	1	-32.19
2532	3/12/2021	20	7	32.10	Yes	1	-31.10
2533	3/12/2021	20	8	31.76	Yes	1	-30.76
2534	3/12/2021	20	9	31.38	Yes	1	-30.38
2535	3/12/2021	20	10	31.19	Yes	1	-30.19
2536	3/12/2021	20	11	30.91	Yes	1	-29.91
2537	3/12/2021	20	12	30.30	Yes	1	-29.30
2538	3/12/2021	21	1	32.07	Yes	1	-31.07
2539	3/12/2021	21	2	32.07	Yes	1	-31.07
2540	3/12/2021	21	3	32.08	Yes	1	-31.08
2541	3/12/2021	21	4	38.34	Yes	1	-37.34
2542	3/12/2021	21	5	36.20	Yes	1	-35.20

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2543	3/12/2021	21	6	33.72	Yes	1	-32.72
2544	3/12/2021	21	7	32.15	Yes	1	-31.15
2545	3/12/2021	21	8	31.20	Yes	1	-30.20
2546	3/12/2021	21	9	30.63	Yes	1	-29.63
2547	3/12/2021	21	10	30.71	Yes	1	-29.71
2548	3/12/2021	21	11	30.56	Yes	1	-29.56
2549	3/12/2021	21	12	30.53	Yes	1	-29.53
2550	3/12/2021	22	1	35.61	Yes	1	-34.61
2551	3/12/2021	22	2	33.21	Yes	1	-32.21
2552	3/12/2021	22	3	32.72	Yes	1	-31.72
2553	3/12/2021	22	4	39.75	Yes	1	-38.75
2554	3/12/2021	22	5	39.11	Yes	1	-38.11
2555	3/12/2021	22	6	36.81	Yes	1	-35.81
2556	3/12/2021	22	7	34.25	Yes	1	-33.25
2557	3/12/2021	22	8	29.83	Yes	1	-28.83
2558	3/12/2021	22	9	29.78	Yes	1	-28.78
2559	3/12/2021	22	10	29.80	Yes	1	-28.80
2560	3/12/2021	22	11	29.99	Yes	1	-28.99
2561	3/12/2021	22	12	30.26	Yes	1	-29.26
2562	3/12/2021	23	1	36.47	Yes	1	-35.47
2563	3/12/2021	23	2	41.00	Yes	1	-40.00
2564	3/12/2021	23	3	45.09	Yes	1	-44.09
2565	3/12/2021	23	4	36.36	Yes	1	-35.36
2566	3/12/2021	23	5	36.36	Yes	1	-35.36
2567	3/12/2021	23	6	32.57	Yes	1	-31.57
2568	3/12/2021	23	7	32.25	Yes	1	-31.25
2569	3/12/2021	23	8	30.01	Yes	1	-29.01
2570	3/12/2021	23	9	30.01	Yes	1	-29.01
2571	3/12/2021	23	10	28.69	Yes	1	-27.69
2572	3/12/2021	23	11	28.33	Yes	1	-27.33
2573	3/12/2021	23	12	27.61	Yes	1	-26.61
2574	3/12/2021	24	1	27.96	Yes	-15	-42.96
2575	3/12/2021	24	2	28.67	Yes	-15	-43.67
2576	3/12/2021	24	3	29.81	Yes	-15	-44.81
2577	3/12/2021	24	4	27.67	Yes	-15	-42.67
2578	3/12/2021	24	5	27.46	Yes	-15	-42.46
2579	3/12/2021	24	6	27.46	Yes	-15	-42.46
2580	3/12/2021	24	7	27.38	Yes	-15	-42.38

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2581	3/12/2021	24	8	27.38	Yes	-15	-42.38
2582	3/12/2021	24	9	27.10	Yes	-15	-42.10
2583	3/12/2021	24	10	26.75	Yes	-15	-41.75
2584	3/12/2021	24	11	26.39	Yes	-15	-41.39
2585	3/12/2021	24	12	25.02	Yes	-15	-40.02
2586	3/13/2021	1	1	25.87	Yes	1	-24.87
2587	3/13/2021	1	2	25.57	Yes	1	-24.57
2588	3/13/2021	1	3	25.35	Yes	1	-24.35
2589	3/13/2021	1	4	24.83	Yes	1	-23.83
2590	3/13/2021	1	5	24.98	Yes	1	-23.98
2591	3/13/2021	1	6	24.98	Yes	1	-23.98
2592	3/13/2021	1	7	24.09	Yes	1	-23.09
2593	3/13/2021	1	8	23.69	Yes	1	-22.69
2594	3/13/2021	1	9	22.95	Yes	1	-21.95
2595	3/13/2021	1	10	21.75	Yes	1	-20.75
2596	3/13/2021	1	11	21.72	Yes	1	-20.72
2597	3/13/2021	1	12	21.48	Yes	1	-20.48
2598	3/13/2021	2	1	23.82	Yes	1	-22.82
2599	3/13/2021	2	2	23.58	Yes	1	-22.58
2600	3/13/2021	2	3	23.51	Yes	1	-22.51
2601	3/13/2021	2	4	23.17	Yes	1	-22.17
2602	3/13/2021	2	5	23.17	Yes	1	-22.17
2603	3/13/2021	2	6	23.09	Yes	1	-22.09
2604	3/13/2021	2	7	22.81	Yes	1	-21.81
2605	3/13/2021	2	8	21.55	Yes	1	-20.55
2606	3/13/2021	2	9	21.30	Yes	1	-20.30
2607	3/13/2021	2	10	21.25	Yes	1	-20.25
2608	3/13/2021	2	11	21.13	Yes	1	-20.13
2609	3/13/2021	2	12	21.12	Yes	1	-20.12
2610	3/13/2021	3	1	21.19	Yes	1	-20.19
2611	3/13/2021	3	2	21.11	Yes	1	-20.11
2612	3/13/2021	3	3	20.98	Yes	1	-19.98
2613	3/13/2021	3	4	21.44	Yes	1	-20.44
2614	3/13/2021	3	5	21.70	Yes	1	-20.70
2615	3/13/2021	3	6	21.73	Yes	1	-20.73
2616	3/13/2021	3	7	23.64	Yes	1	-22.64
2617	3/13/2021	3	8	23.64	Yes	1	-22.64
2618	3/13/2021	3	9	22.65	Yes	1	-21.65



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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2619	3/13/2021	3	10	23.45	Yes	1	-22.45
2620	3/13/2021	3	11	23.66	Yes	1	-22.66
2621	3/13/2021	3	12	23.66	Yes	1	-22.66
2622	3/13/2021	4	1	23.59	Yes	1	-22.59
2623	3/13/2021	4	2	23.40	Yes	1	-22.40
2624	3/13/2021	4	3	23.59	Yes	1	-22.59
2625	3/13/2021	4	4	24.14	Yes	1	-23.14
2626	3/13/2021	4	5	24.14	Yes	1	-23.14
2627	3/13/2021	4	6	24.15	Yes	1	-23.15
2628	3/13/2021	4	7	24.13	Yes	1	-23.13
2629	3/13/2021	4	8	24.06	Yes	1	-23.06
2630	3/13/2021	4	9	23.80	Yes	1	-22.80
2631	3/13/2021	4	10	23.70	Yes	1	-22.70
2632	3/13/2021	4	11	23.70	Yes	1	-22.70
2633	3/13/2021	4	12	23.40	Yes	1	-22.40
2634	3/13/2021	5	1	24.09	Yes	1	-23.09
2635	3/13/2021	5	2	24.25	Yes	1	-23.25
2636	3/13/2021	5	3	24.25	Yes	1	-23.25
2637	3/13/2021	5	4	25.30	Yes	1	-24.30
2638	3/13/2021	5	5	26.43	Yes	1	-25.43
2639	3/13/2021	5	6	26.82	Yes	1	-25.82
2640	3/13/2021	5	7	26.78	Yes	1	-25.78
2641	3/13/2021	5	8	27.36	Yes	1	-26.36
2642	3/13/2021	5	9	27.36	Yes	1	-26.36
2643	3/13/2021	5	10	28.05	Yes	1	-27.05
2644	3/13/2021	5	11	27.34	Yes	1	-26.34
2645	3/13/2021	5	12	28.18	Yes	1	-27.18
2646	3/13/2021	6	1	24.69	Yes	1	-23.69
2647	3/13/2021	6	2	25.72	Yes	1	-24.72
2648	3/13/2021	6	3	26.68	Yes	1	-25.68
2649	3/13/2021	6	4	27.62	Yes	1	-26.62
2650	3/13/2021	6	5	28.36	Yes	1	-27.36
2651	3/13/2021	6	6	29.62	Yes	1	-28.62
2652	3/13/2021	6	7	30.03	Yes	1	-29.03
2653	3/13/2021	6	8	33.41	Yes	1	-32.41
2654	3/13/2021	6	9	34.48	Yes	1	-33.48
2655	3/13/2021	6	10	35.49	Yes	1	-34.49
2656	3/13/2021	6	11	35.49	Yes	1	-34.49

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2657	3/13/2021	6	12	34.73	Yes	1	-33.73
2658	3/13/2021	7	1	32.32	Yes	1	-31.32
2659	3/13/2021	7	2	34.81	Yes	1	-33.81
2660	3/13/2021	7	3	34.81	Yes	1	-33.81
2661	3/13/2021	7	4	34.02	Yes	1	-33.02
2662	3/13/2021	7	5	33.55	Yes	1	-32.55
2663	3/13/2021	7	6	32.72	Yes	1	-31.72
2664	3/13/2021	7	7	32.64	Yes	1	-31.64
2665	3/13/2021	7	8	30.11	Yes	1	-29.11
2666	3/13/2021	7	9	28.67	Yes	1	-27.67
2667	3/13/2021	7	10	27.92	Yes	1	-26.92
2668	3/13/2021	7	11	27.27	Yes	1	-26.27
2669	3/13/2021	7	12	25.67	Yes	1	-24.67
2670	3/13/2021	8	1	27.37	Yes	1	-26.37
2671	3/13/2021	8	2	27.32	Yes	1	-26.32
2672	3/13/2021	8	3	28.27	Yes	1	-27.27
2673	3/13/2021	8	4	26.03	Yes	1	-25.03
2674	3/13/2021	8	5	23.60	Yes	1	-22.60
2675	3/13/2021	8	6	23.60	Yes	1	-22.60
2676	3/13/2021	8	7	20.93	Yes	1	-19.93
2677	3/13/2021	8	8	20.03	Yes	1	-19.03
2678	3/13/2021	8	9	19.59	Yes	1	-18.59
2679	3/13/2021	8	10	18.26	Yes	1	-17.26
2680	3/13/2021	8	11	16.72	Yes	1	-15.72
2681	3/13/2021	8	12	18.96	Yes	1	-17.96
2682	3/13/2021	9	1	20.08	Yes	1	-19.08
2683	3/13/2021	9	2	21.39	Yes	1	-20.39
2684	3/13/2021	9	3	21.77	Yes	1	-20.77
2685	3/13/2021	9	4	20.87	Yes	1	-19.87
2686	3/13/2021	9	5	20.86	Yes	1	-19.86
2687	3/13/2021	9	6	19.80	Yes	1	-18.80
2688	3/13/2021	9	7	19.69	Yes	1	-18.69
2689	3/13/2021	9	8	18.89	Yes	1	-17.89
2690	3/13/2021	9	9	18.57	Yes	1	-17.57
2691	3/13/2021	9	10	16.57	Yes	1	-15.57
2692	3/13/2021	9	11	16.31	Yes	1	-15.31
2693	3/13/2021	9	12	12.21	Yes	1	-11.21
2694	3/13/2021	10	1	10.08	Yes	1	-9.08

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2695	3/13/2021	10	2	10.25	Yes	1	-9.25
2696	3/13/2021	10	3	13.64	Yes	1	-12.64
2697	3/13/2021	10	4	14.32	Yes	1	-13.32
2698	3/13/2021	10	5	1.01	Yes	1	-0.01
2699	3/13/2021	10	6	-0.01	Yes	1	1.01
2700	3/13/2021	10	7	-0.01	Yes	1	1.01
2701	3/13/2021	10	8	-0.01	Yes	1	1.01
2702	3/13/2021	10	9	-0.01	Yes	1	1.01
2703	3/13/2021	10	10	-0.01	Yes	1	1.01
2704	3/13/2021	10	11	-0.01	Yes	1	1.01
2705	3/13/2021	10	12	-0.01	Yes	1	1.01
2706	3/13/2021	11	1	-0.01	Yes	1	1.01
2707	3/13/2021	11	2	-0.01	Yes	1	1.01
2708	3/13/2021	11	3	-0.01	Yes	1	1.01
2709	3/13/2021	11	4	-0.01	Yes	1	1.01
2710	3/13/2021	11	5	-0.01	Yes	1	1.01
2711	3/13/2021	11	6	-0.01	Yes	1	1.01
2712	3/13/2021	11	7	-0.01	Yes	1	1.01
2713	3/13/2021	11	8	-0.01	Yes	1	1.01
2714	3/13/2021	11	9	-0.01	Yes	1	1.01
2715	3/13/2021	11	10	-0.01	Yes	1	1.01
2716	3/13/2021	11	11	-0.01	Yes	1	1.01
2717	3/13/2021	11	12	-0.01	Yes	1	1.01
2718	3/13/2021	12	1	-0.01	Yes	1	1.01
2719	3/13/2021	12	2	-0.01	Yes	1	1.01
2720	3/13/2021	12	3	-0.01	Yes	1	1.01
2721	3/13/2021	12	4	-0.01	Yes	1	1.01
2722	3/13/2021	12	5	-0.01	Yes	1	1.01
2723	3/13/2021	12	6	-0.01	Yes	1	1.01
2724	3/13/2021	12	7	-0.01	Yes	1	1.01
2725	3/13/2021	12	8	-0.01	Yes	1	1.01
2726	3/13/2021	12	9	-0.01	Yes	1	1.01
2727	3/13/2021	12	10	-0.01	Yes	1	1.01
2728	3/13/2021	12	11	-0.01	Yes	1	1.01
2729	3/13/2021	12	12	-0.01	Yes	1	1.01
2730	3/13/2021	13	1	-0.01	Yes	1	1.01
2731	3/13/2021	13	2	-0.01	Yes	1	1.01
2732	3/13/2021	13	3	-0.01	Yes	1	1.01

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2733	3/13/2021	13	4	-0.01	Yes	1	1.01
2734	3/13/2021	13	5	-0.01	Yes	1	1.01
2735	3/13/2021	13	6	-0.01	Yes	1	1.01
2736	3/13/2021	13	7	-0.01	Yes	1	1.01
2737	3/13/2021	13	8	-0.01	Yes	1	1.01
2738	3/13/2021	13	9	-0.01	Yes	1	1.01
2739	3/13/2021	13	10	-0.34	Yes	1	1.34
2740	3/13/2021	13	11	-0.63	Yes	1	1.63
2741	3/13/2021	13	12	-9.59	Yes	1	10.59
2742	3/13/2021	14	1	-9.68	Yes	1	10.68
2743	3/13/2021	14	2	-9.68	Yes	1	10.68
2744	3/13/2021	14	3	-9.68	Yes	1	10.68
2745	3/13/2021	14	4	-0.74	Yes	1	1.74
2746	3/13/2021	14	5	-9.81	Yes	1	10.81
2747	3/13/2021	14	6	-0.35	Yes	1	1.35
2748	3/13/2021	14	7	-0.01	Yes	1	1.01
2749	3/13/2021	14	8	-0.01	Yes	1	1.01
2750	3/13/2021	14	9	-0.01	Yes	1	1.01
2751	3/13/2021	14	10	-0.01	Yes	1	1.01
2752	3/13/2021	14	11	-0.01	Yes	1	1.01
2753	3/13/2021	14	12	-0.01	Yes	1	1.01
2754	3/13/2021	15	1	-0.01	Yes	1	1.01
2755	3/13/2021	15	2	-0.01	Yes	1	1.01
2756	3/13/2021	15	3	-0.01	Yes	1	1.01
2757	3/13/2021	15	4	-0.05	Yes	1	1.05
2758	3/13/2021	15	5	-9.96	Yes	1	10.96
2759	3/13/2021	15	6	-9.94	Yes	1	10.94
2760	3/13/2021	15	7	-0.74	Yes	1	1.74
2761	3/13/2021	15	8	-9.85	Yes	1	10.85
2762	3/13/2021	15	9	-9.91	Yes	1	10.91
2763	3/13/2021	15	10	-9.99	Yes	1	10.99
2764	3/13/2021	15	11	-10.01	Yes	1	11.01
2765	3/13/2021	15	12	-9.98	Yes	1	10.98
2766	3/13/2021	16	1	-9.81	Yes	1	10.81
2767	3/13/2021	16	2	-9.81	Yes	1	10.81
2768	3/13/2021	16	3	-0.34	Yes	1	1.34
2769	3/13/2021	16	4	-0.01	Yes	1	1.01
2770	3/13/2021	16	5	-0.01	Yes	1	1.01

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2771	3/13/2021	16	6	-0.01	Yes	1	1.01
2772	3/13/2021	16	7	-0.01	Yes	1	1.01
2773	3/13/2021	16	8	-0.01	Yes	1	1.01
2774	3/13/2021	16	9	-0.01	Yes	1	1.01
2775	3/13/2021	16	10	-0.01	Yes	1	1.01
2776	3/13/2021	16	11	-0.01	Yes	1	1.01
2777	3/13/2021	16	12	-0.01	Yes	1	1.01
2778	3/13/2021	17	1	-0.01	Yes	1	1.01
2779	3/13/2021	17	2	-0.01	Yes	1	1.01
2780	3/13/2021	17	3	-0.01	Yes	1	1.01
2781	3/13/2021	17	4	-0.01	Yes	1	1.01
2782	3/13/2021	17	5	-0.01	Yes	1	1.01
2783	3/13/2021	17	6	-0.01	Yes	1	1.01
2784	3/13/2021	17	7	-0.01	Yes	1	1.01
2785	3/13/2021	17	8	15.55	Yes	1	-14.55
2786	3/13/2021	17	9	16.95	Yes	1	-15.95
2787	3/13/2021	17	10	18.22	Yes	1	-17.22
2788	3/13/2021	17	11	18.71	Yes	1	-17.71
2789	3/13/2021	17	12	17.81	Yes	1	-16.81
2790	3/13/2021	18	1	17.81	Yes	1	-16.81
2791	3/13/2021	18	2	0.02	Yes	1	0.98
2792	3/13/2021	18	3	13.47	Yes	1	-12.47
2793	3/13/2021	18	4	17.27	Yes	1	-16.27
2794	3/13/2021	18	5	19.15	Yes	1	-18.15
2795	3/13/2021	18	6	21.19	Yes	1	-20.19
2796	3/13/2021	18	7	21.47	Yes	1	-20.47
2797	3/13/2021	18	8	21.97	Yes	1	-20.97
2798	3/13/2021	18	9	23.92	Yes	1	-22.92
2799	3/13/2021	18	10	26.35	Yes	1	-25.35
2800	3/13/2021	18	11	27.90	Yes	1	-26.90
2801	3/13/2021	18	12	27.92	Yes	1	-26.92
2802	3/13/2021	19	1	26.09	Yes	1	-25.09
2803	3/13/2021	19	2	26.27	Yes	1	-25.27
2804	3/13/2021	19	3	26.44	Yes	1	-25.44
2805	3/13/2021	19	4	26.41	Yes	1	-25.41
2806	3/13/2021	19	5	26.31	Yes	1	-25.31
2807	3/13/2021	19	6	26.41	Yes	1	-25.41
2808	3/13/2021	19	7	26.22	Yes	1	-25.22

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2809	3/13/2021	19	8	26.26	Yes	1	-25.26
2810	3/13/2021	19	9	27.18	Yes	1	-26.18
2811	3/13/2021	19	10	28.18	Yes	1	-27.18
2812	3/13/2021	19	11	28.18	Yes	1	-27.18
2813	3/13/2021	19	12	28.27	Yes	1	-27.27
2814	3/13/2021	20	1	28.29	Yes	1	-27.29
2815	3/13/2021	20	2	28.35	Yes	1	-27.35
2816	3/13/2021	20	3	28.35	Yes	1	-27.35
2817	3/13/2021	20	4	28.33	Yes	1	-27.33
2818	3/13/2021	20	5	27.58	Yes	1	-26.58
2819	3/13/2021	20	6	28.27	Yes	1	-27.27
2820	3/13/2021	20	7	26.89	Yes	1	-25.89
2821	3/13/2021	20	8	26.77	Yes	1	-25.77
2822	3/13/2021	20	9	25.61	Yes	1	-24.61
2823	3/13/2021	20	10	25.97	Yes	1	-24.97
2824	3/13/2021	20	11	26.27	Yes	1	-25.27
2825	3/13/2021	20	12	26.22	Yes	1	-25.22
2826	3/13/2021	21	1	28.20	Yes	1	-27.20
2827	3/13/2021	21	2	28.08	Yes	1	-27.08
2828	3/13/2021	21	3	27.63	Yes	1	-26.63
2829	3/13/2021	21	4	27.89	Yes	1	-26.89
2830	3/13/2021	21	5	27.12	Yes	1	-26.12
2831	3/13/2021	21	6	27.58	Yes	1	-26.58
2832	3/13/2021	21	7	27.02	Yes	1	-26.02
2833	3/13/2021	21	8	26.95	Yes	1	-25.95
2834	3/13/2021	21	9	26.65	Yes	1	-25.65
2835	3/13/2021	21	10	26.55	Yes	1	-25.55
2836	3/13/2021	21	11	26.55	Yes	1	-25.55
2837	3/13/2021	21	12	26.02	Yes	1	-25.02
2838	3/13/2021	22	1	26.02	Yes	1	-25.02
2839	3/13/2021	22	2	26.02	Yes	1	-25.02
2840	3/13/2021	22	3	26.50	Yes	1	-25.50
2841	3/13/2021	22	4	26.34	Yes	1	-25.34
2842	3/13/2021	22	5	25.89	Yes	1	-24.89
2843	3/13/2021	22	6	25.63	Yes	1	-24.63
2844	3/13/2021	22	7	24.35	Yes	1	-23.35
2845	3/13/2021	22	8	24.35	Yes	1	-23.35
2846	3/13/2021	22	9	23.93	Yes	1	-22.93

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2847	3/13/2021	22	10	24.01	Yes	1	-23.01
2848	3/13/2021	22	11	24.01	Yes	1	-23.01
2849	3/13/2021	22	12	24.25	Yes	1	-23.25
2850	3/13/2021	23	1	26.85	Yes	1	-25.85
2851	3/13/2021	23	2	27.97	Yes	1	-26.97
2852	3/13/2021	23	3	27.97	Yes	1	-26.97
2853	3/13/2021	23	4	27.77	Yes	1	-26.77
2854	3/13/2021	23	5	27.77	Yes	1	-26.77
2855	3/13/2021	23	6	27.74	Yes	1	-26.74
2856	3/13/2021	23	7	27.02	Yes	1	-26.02
2857	3/13/2021	23	8	27.23	Yes	1	-26.23
2858	3/13/2021	23	9	26.97	Yes	1	-25.97
2859	3/13/2021	23	10	26.33	Yes	1	-25.33
2860	3/13/2021	23	11	25.25	Yes	1	-24.25
2861	3/13/2021	23	12	25.18	Yes	1	-24.18
2862	3/13/2021	24	1	27.11	Yes	1	-26.11
2863	3/13/2021	24	2	28.27	Yes	1	-27.27
2864	3/13/2021	24	3	28.36	Yes	1	-27.36
2865	3/13/2021	24	4	28.47	Yes	1	-27.47
2866	3/13/2021	24	5	28.23	Yes	1	-27.23
2867	3/13/2021	24	6	28.17	Yes	1	-27.17
2868	3/13/2021	24	7	28.25	Yes	1	-27.25
2869	3/13/2021	24	8	25.00	Yes	1	-24.00
2870	3/13/2021	24	9	24.52	Yes	1	-23.52
2871	3/13/2021	24	10	23.91	Yes	1	-22.91
2872	3/13/2021	24	11	23.16	Yes	1	-22.16
2873	3/13/2021	24	12	23.03	Yes	1	-22.03
2874	3/14/2021	1	1	25.53	Yes	-15	-40.53
2875	3/14/2021	1	2	26.27	Yes	-15	-41.27
2876	3/14/2021	1	3	28.14	Yes	-15	-43.14
2877	3/14/2021	1	4	26.69	Yes	-15	-41.69
2878	3/14/2021	1	5	26.65	Yes	-15	-41.65
2879	3/14/2021	1	6	27.46	Yes	-15	-42.46
2880	3/14/2021	1	7	27.43	Yes	-15	-42.43
2881	3/14/2021	1	8	26.64	Yes	-15	-41.64
2882	3/14/2021	1	9	25.87	Yes	-15	-40.87
2883	3/14/2021	1	10	25.15	Yes	-15	-40.15
2884	3/14/2021	1	11	25.15	Yes	-15	-40.15

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2885	3/14/2021	1	12	24.92	Yes	-15	-39.92
2886	3/14/2021	2	1	22.52	Yes	-15	-37.52
2887	3/14/2021	2	2	22.90	Yes	-15	-37.90
2888	3/14/2021	2	3	23.36	Yes	-15	-38.36
2889	3/14/2021	2	4	23.11	Yes	-15	-38.11
2890	3/14/2021	2	5	23.07	Yes	-15	-38.07
2891	3/14/2021	2	6	22.43	Yes	-15	-37.43
2892	3/14/2021	2	7	22.83	Yes	-15	-37.83
2893	3/14/2021	2	8	21.68	Yes	-15	-36.68
2894	3/14/2021	2	9	22.83	Yes	-15	-37.83
2895	3/14/2021	2	10	22.78	Yes	-15	-37.78
2896	3/14/2021	2	11	22.78	Yes	-15	-37.78
2897	3/14/2021	2	12	22.80	Yes	-15	-37.80
2898	3/14/2021	4	1	24.54	Yes	-15	-39.54
2899	3/14/2021	4	2	24.56	Yes	-15	-39.56
2900	3/14/2021	4	3	25.15	Yes	-15	-40.15
2901	3/14/2021	4	4	25.05	Yes	-15	-40.05
2902	3/14/2021	4	5	25.06	Yes	-15	-40.06
2903	3/14/2021	4	6	25.27	Yes	-15	-40.27
2904	3/14/2021	4	7	25.01	Yes	-15	-40.01
2905	3/14/2021	4	8	31.53	Yes	-15	-46.53
2906	3/14/2021	4	9	27.03	Yes	-15	-42.03
2907	3/14/2021	4	10	27.02	Yes	-15	-42.02
2908	3/14/2021	4	11	25.22	Yes	-15	-40.22
2909	3/14/2021	4	12	25.07	Yes	-15	-40.07
2910	3/14/2021	5	1	27.49	Yes	-15	-42.49
2911	3/14/2021	5	2	26.93	Yes	-15	-41.93
2912	3/14/2021	5	3	25.36	Yes	-15	-40.36
2913	3/14/2021	5	4	25.49	Yes	-15	-40.49
2914	3/14/2021	5	5	25.57	Yes	-15	-40.57
2915	3/14/2021	5	6	26.36	Yes	-15	-41.36
2916	3/14/2021	5	7	27.34	Yes	-15	-42.34
2917	3/14/2021	5	8	27.88	Yes	-15	-42.88
2918	3/14/2021	5	9	26.91	Yes	-15	-41.91
2919	3/14/2021	5	10	26.01	Yes	-15	-41.01
2920	3/14/2021	5	11	26.25	Yes	-15	-41.25
2921	3/14/2021	5	12	26.57	Yes	-15	-41.57
2922	3/14/2021	6	1	26.48	Yes	-15	-41.48



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2923	3/14/2021	6	2	26.85	Yes	-15	-41.85
2924	3/14/2021	6	3	27.05	Yes	-15	-42.05
2925	3/14/2021	6	4	26.82	Yes	-15	-41.82
2926	3/14/2021	6	5	27.15	Yes	-15	-42.15
2927	3/14/2021	6	6	26.82	Yes	-15	-41.82
2928	3/14/2021	6	7	27.30	Yes	-15	-42.30
2929	3/14/2021	6	8	27.37	Yes	-15	-42.37
2930	3/14/2021	6	9	27.92	Yes	-15	-42.92
2931	3/14/2021	6	10	28.07	Yes	-15	-43.07
2932	3/14/2021	6	11	28.45	Yes	-15	-43.45
2933	3/14/2021	6	12	29.87	Yes	-15	-44.87
2934	3/14/2021	7	1	26.39	Yes	-15	-41.39
2935	3/14/2021	7	2	26.57	Yes	-15	-41.57
2936	3/14/2021	7	3	27.58	Yes	-15	-42.58
2937	3/14/2021	7	4	27.56	Yes	-15	-42.56
2938	3/14/2021	7	5	27.56	Yes	-15	-42.56
2939	3/14/2021	7	6	27.67	Yes	-15	-42.67
2940	3/14/2021	7	7	28.75	Yes	-15	-43.75
2941	3/14/2021	7	8	28.49	Yes	-15	-43.49
2942	3/14/2021	7	9	28.49	Yes	-15	-43.49
2943	3/14/2021	7	10	27.92	Yes	-15	-42.92
2944	3/14/2021	7	11	27.92	Yes	-15	-42.92
2945	3/14/2021	7	12	27.73	Yes	-15	-42.73
2946	3/14/2021	8	1	28.00	Yes	-15	-43.00
2947	3/14/2021	8	2	28.00	Yes	-15	-43.00
2948	3/14/2021	8	3	28.51	Yes	-15	-43.51
2949	3/14/2021	8	4	28.33	Yes	-15	-43.33
2950	3/14/2021	8	5	27.30	Yes	-15	-42.30
2951	3/14/2021	8	6	27.98	Yes	-15	-42.98
2952	3/14/2021	14	9	-14.91	Yes	-15	-0.09
2953	3/14/2021	14	10	20.75	Yes	-15	-35.75
2954	3/14/2021	14	11	21.41	Yes	-15	-36.41
2955	3/14/2021	14	12	21.95	Yes	-15	-36.95
2956	3/14/2021	15	1	23.91	Yes	-15	-38.91
2957	3/14/2021	15	2	23.20	Yes	-15	-38.20
2958	3/14/2021	15	3	23.51	Yes	-15	-38.51
2959	3/14/2021	15	4	22.80	Yes	-15	-37.80
2960	3/14/2021	15	5	23.34	Yes	-15	-38.34

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2961	3/14/2021	15	6	26.37	Yes	-15	-41.37
2962	3/14/2021	15	7	33.02	Yes	-15	-48.02
2963	3/14/2021	15	8	29.76	Yes	-15	-44.76
2964	3/14/2021	15	9	28.45	Yes	-15	-43.45
2965	3/14/2021	15	10	28.83	Yes	-15	-43.83
2966	3/14/2021	15	11	27.66	Yes	-15	-42.66
2967	3/14/2021	15	12	27.55	Yes	-15	-42.55
2968	3/14/2021	16	1	26.86	Yes	-15	-41.86
2969	3/14/2021	16	2	26.85	Yes	-15	-41.85
2970	3/14/2021	16	3	27.60	Yes	-15	-42.60
2971	3/14/2021	16	4	27.51	Yes	-15	-42.51
2972	3/14/2021	16	5	0.78	Yes	-15	-15.78
2973	3/14/2021	16	6	25.86	Yes	-15	-40.86
2974	3/14/2021	16	7	28.60	Yes	-15	-43.60
2975	3/14/2021	16	8	30.53	Yes	-15	-45.53
2976	3/14/2021	16	9	31.49	Yes	-15	-46.49
2977	3/14/2021	16	10	34.70	Yes	-15	-49.70
2978	3/14/2021	16	11	29.62	Yes	-15	-44.62
2979	3/14/2021	16	12	30.80	Yes	-15	-45.80
2980	3/14/2021	17	1	25.66	Yes	-15	-40.66
2981	3/14/2021	17	2	20.76	Yes	-15	-35.76
2982	3/14/2021	17	3	17.06	Yes	-15	-32.06
2983	3/14/2021	17	4	20.47	Yes	-15	-35.47
2984	3/14/2021	17	5	30.16	Yes	-15	-45.16
2985	3/14/2021	17	6	28.70	Yes	-15	-43.70
2986	3/14/2021	17	7	-14.90	Yes	-15	-0.10
2987	3/14/2021	17	8	-14.89	Yes	-15	-0.11
2988	3/14/2021	17	9	-14.88	Yes	-15	-0.12
2989	3/14/2021	17	10	-15.03	Yes	-15	0.03
2990	3/14/2021	17	11	-15.04	Yes	-15	0.04
2991	3/14/2021	17	12	-15.00	Yes	-15	0.00
2992	3/14/2021	18	1	-0.01	Yes	-15	-14.99
2993	3/14/2021	18	2	14.17	Yes	-15	-29.17
2994	3/14/2021	18	3	0.00	Yes	-15	-15.00
2995	3/14/2021	18	4	21.08	Yes	-15	-36.08
2996	3/14/2021	18	5	22.46	Yes	-15	-37.46
2997	3/14/2021	18	6	22.50	Yes	-15	-37.50
2998	3/14/2021	18	7	24.49	Yes	-15	-39.49

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2999	3/14/2021	18	8	26.03	Yes	-15	-41.03
3000	3/14/2021	18	9	40.62	Yes	-15	-55.62
3001	3/14/2021	18	10	64.29	Yes	-15	-79.29
3002	3/14/2021	18	11	83.56	Yes	-15	-98.56
3003	3/14/2021	18	12	247.92	Yes	-15	-262.92
3004	3/14/2021	19	1	34.83	Yes	-15	-49.83
3005	3/14/2021	19	2	36.49	Yes	-15	-51.49
3006	3/14/2021	19	3	37.50	Yes	-15	-52.50
3007	3/14/2021	19	4	39.33	Yes	-15	-54.33
3008	3/14/2021	19	5	39.34	Yes	-15	-54.34
3009	3/14/2021	19	6	40.22	Yes	-15	-55.22
3010	3/14/2021	19	7	42.69	Yes	-15	-57.69
3011	3/14/2021	19	8	45.00	Yes	-15	-60.00
3012	3/14/2021	19	9	42.01	Yes	-15	-57.01
3013	3/14/2021	19	10	38.30	Yes	-15	-53.30
3014	3/14/2021	19	11	40.00	Yes	-15	-55.00
3015	3/14/2021	19	12	40.04	Yes	-15	-55.04
3016	3/14/2021	20	1	37.65	Yes	-15	-52.65
3017	3/14/2021	20	2	37.80	Yes	-15	-52.80
3018	3/14/2021	20	3	39.20	Yes	-15	-54.20
3019	3/14/2021	20	4	39.20	Yes	-15	-54.20
3020	3/14/2021	20	5	39.20	Yes	-15	-54.20
3021	3/14/2021	20	6	40.42	Yes	-15	-55.42
3022	3/14/2021	20	7	39.20	Yes	-15	-54.20
3023	3/14/2021	20	8	40.04	Yes	-15	-55.04
3024	3/14/2021	20	9	39.20	Yes	-15	-54.20
3025	3/14/2021	20	10	41.24	Yes	-15	-56.24
3026	3/14/2021	20	11	41.24	Yes	-15	-56.24
3027	3/14/2021	20	12	39.68	Yes	-15	-54.68
3028	3/17/2021	15	5	23.71	Yes	-15	-38.71
3029	3/17/2021	15	6	23.11	Yes	-15	-38.11
3030	3/17/2021	15	7	23.03	Yes	-15	-38.03
3031	3/17/2021	15	8	24.32	Yes	-15	-39.32
3032	3/17/2021	15	9	24.24	Yes	-15	-39.24
3033	3/17/2021	15	10	22.62	Yes	-15	-37.62
3034	3/17/2021	15	11	21.61	Yes	-15	-36.61
3035	3/17/2021	15	12	20.53	Yes	-15	-35.53
3036	3/17/2021	16	1	21.28	Yes	-15	-36.28

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
3037	3/17/2021	16	2	21.23	Yes	-15	-36.23
3038	3/17/2021	16	3	19.15	Yes	-15	-34.15
3039	3/17/2021	16	4	20.19	Yes	-15	-35.19
3040	3/17/2021	16	5	20.77	Yes	-15	-35.77
3041	3/17/2021	16	6	22.45	Yes	-15	-37.45
3042	3/17/2021	16	7	22.19	Yes	-15	-37.19
3043	3/17/2021	16	8	21.58	Yes	-15	-36.58
3044	3/17/2021	16	9	21.72	Yes	-15	-36.72
3045	3/17/2021	16	10	20.81	Yes	-15	-35.81
3046	3/17/2021	16	11	21.43	Yes	-15	-36.43
3047	3/17/2021	16	12	20.81	Yes	-15	-35.81
3048	3/17/2021	17	1	20.42	Yes	-15	-35.42
3049	3/17/2021	17	2	19.16	Yes	-15	-34.16
3050	3/17/2021	17	3	4.52	Yes	-15	-19.52
3051	3/17/2021	17	4	-14.98	Yes	-15	-0.02
3052	3/17/2021	17	5	-14.94	Yes	-15	-0.06
3053	3/17/2021	17	6	-14.93	Yes	-15	-0.07
3054	3/17/2021	17	7	-14.94	Yes	-15	-0.06
3055	3/17/2021	17	8	-14.94	Yes	-15	-0.06
3056	3/17/2021	17	9	-14.94	Yes	-15	-0.06
3057	3/17/2021	17	10	21.03	Yes	-15	-36.03
3058	3/17/2021	17	11	21.88	Yes	-15	-36.88
3059	3/17/2021	17	12	23.79	Yes	-15	-38.79
3060	3/17/2021	18	1	20.84	Yes	-15	-35.84
3061	3/17/2021	18	2	24.10	Yes	-15	-39.10
3062	3/17/2021	18	3	23.92	Yes	-15	-38.92
3063	3/17/2021	18	4	24.27	Yes	-15	-39.27
3064	3/17/2021	18	5	24.43	Yes	-15	-39.43
3065	3/17/2021	18	6	31.72	Yes	-15	-46.72
3066	3/17/2021	18	7	39.16	Yes	-15	-54.16
3067	3/17/2021	18	8	52.22	Yes	-15	-67.22
3068	3/17/2021	18	9	145.71	Yes	-15	-160.71
3069	3/17/2021	18	10	744.94	Yes	-15	-759.94
3070	3/17/2021	18	11	967.40	Yes	-15	-982.40
3071	3/17/2021	18	12	149.94	Yes	-15	-164.94
3072	3/17/2021	19	1	32.94	Yes	-15	-47.94
3073	3/17/2021	19	2	32.94	Yes	-15	-47.94
3074	3/17/2021	19	3	34.83	Yes	-15	-49.83

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
3075	3/17/2021	19	4	37.63	Yes	-15	-52.63
3076	3/17/2021	19	5	38.49	Yes	-15	-53.49
3077	3/17/2021	19	6	39.64	Yes	-15	-54.64
3078	3/17/2021	19	7	38.68	Yes	-15	-53.68
3079	3/17/2021	19	8	45.90	Yes	-15	-60.90
3080	3/17/2021	19	9	91.22	Yes	-15	-106.22
3081	3/17/2021	19	10	95.96	Yes	-15	-110.96
3082	3/17/2021	19	11	90.53	Yes	-15	-105.53
3083	3/17/2021	19	12	104.53	Yes	-15	-119.53
3084	3/17/2021	20	1	48.56	Yes	-15	-63.56
3085	3/17/2021	20	2	45.98	Yes	-15	-60.98
3086	3/17/2021	20	3	47.05	Yes	-15	-62.05
3087	3/17/2021	20	4	45.47	Yes	-15	-60.47
3088	3/17/2021	20	5	52.52	Yes	-15	-67.52
3089	3/17/2021	20	6	55.86	Yes	-15	-70.86
3090	3/17/2021	20	7	55.62	Yes	-15	-70.62
3091	3/17/2021	20	8	55.62	Yes	-15	-70.62
3092	3/17/2021	20	9	55.62	Yes	-15	-70.62
3093	3/17/2021	20	10	55.62	Yes	-15	-70.62
3094	3/17/2021	20	11	49.53	Yes	-15	-64.53
3095	3/17/2021	20	12	54.72	Yes	-15	-69.72
3096	3/17/2021	21	1	49.43	Yes	-15	-64.43
3097	3/17/2021	21	2	49.43	Yes	-15	-64.43
3098	3/17/2021	21	3	50.28	Yes	-15	-65.28
3099	3/17/2021	21	4	46.49	Yes	-15	-61.49
3100	3/17/2021	21	5	45.77	Yes	-15	-60.77
3101	3/17/2021	21	6	45.52	Yes	-15	-60.52
3102	3/17/2021	21	7	53.88	Yes	-15	-68.88
3103	3/17/2021	21	8	49.11	Yes	-15	-64.11
3104	3/17/2021	21	9	47.69	Yes	-15	-62.69
3105	3/17/2021	21	10	49.13	Yes	-15	-64.13
3106	3/17/2021	21	11	36.90	Yes	-15	-51.90
3107	3/17/2021	21	12	37.61	Yes	-15	-52.61
3108	3/17/2021	22	1	39.65	Yes	-15	-54.65
3109	3/17/2021	22	2	38.73	Yes	-15	-53.73
3110	3/17/2021	22	3	38.50	Yes	-15	-53.50
3111	3/17/2021	22	4	40.38	Yes	-15	-55.38
3112	3/17/2021	22	5	40.24	Yes	-15	-55.24

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
3113	3/17/2021	22	6	38.29	Yes	-15	-53.29
3114	3/17/2021	22	7	39.38	Yes	-15	-54.38
3115	3/17/2021	22	8	39.31	Yes	-15	-54.31
3116	3/17/2021	22	9	39.38	Yes	-15	-54.38
3117	3/17/2021	22	10	38.98	Yes	-15	-53.98
3118	3/17/2021	22	11	38.98	Yes	-15	-53.98
3119	3/17/2021	22	12	38.17	Yes	-15	-53.17
3120	3/17/2021	23	1	39.29	Yes	-15	-54.29
3121	3/17/2021	23	2	39.29	Yes	-15	-54.29
3122	3/17/2021	23	3	39.29	Yes	-15	-54.29
3123	3/17/2021	23	4	38.99	Yes	-15	-53.99
3124	3/17/2021	23	5	38.99	Yes	-15	-53.99
3125	3/17/2021	23	6	38.99	Yes	-15	-53.99
3126	3/17/2021	23	7	38.52	Yes	-15	-53.52
3127	3/17/2021	23	8	38.36	Yes	-15	-53.36
3128	3/17/2021	23	9	37.51	Yes	-15	-52.51
3129	3/17/2021	23	10	34.53	Yes	-15	-49.53
3130	3/17/2021	23	11	34.53	Yes	-15	-49.53
3131	3/17/2021	23	12	34.99	Yes	-15	-49.99
3132	3/17/2021	24	1	38.81	Yes	-15	-53.81
3133	3/17/2021	24	2	38.81	Yes	-15	-53.81
3134	3/17/2021	24	3	38.81	Yes	-15	-53.81
3135	3/17/2021	24	4	38.42	Yes	-15	-53.42
3136	3/17/2021	24	5	34.89	Yes	-15	-49.89
3137	3/17/2021	24	6	36.64	Yes	-15	-51.64
3138	3/17/2021	24	7	40.46	Yes	-15	-55.46
3139	3/17/2021	24	8	40.46	Yes	-15	-55.46
3140	3/17/2021	24	9	38.20	Yes	-15	-53.20
3141	3/17/2021	24	10	35.09	Yes	-15	-50.09
3142	3/17/2021	24	11	36.05	Yes	-15	-51.05
3143	3/17/2021	24	12	34.25	Yes	-15	-49.25

**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	3/1/2021	1	1	30.46	Yes	31.86	1.40
2	3/1/2021	1	2	29.72	Yes	31.86	2.14
3	3/1/2021	1	3	29.29	Yes	31.86	2.57
4	3/1/2021	1	4	29.30	Yes	31.86	2.56
5	3/1/2021	1	5	29.39	Yes	31.86	2.47
6	3/1/2021	1	6	29.18	Yes	31.86	2.68
7	3/1/2021	1	7	29.29	Yes	31.86	2.57
8	3/1/2021	1	8	29.15	Yes	31.86	2.71
9	3/1/2021	1	9	28.74	Yes	31.86	3.12
10	3/1/2021	1	10	32.19	Yes	31.86	-0.33
11	3/1/2021	1	11	31.03	Yes	31.86	0.83
12	3/1/2021	1	12	33.62	Yes	31.86	-1.76
13	3/1/2021	2	1	31.94	Yes	31.86	-0.08
14	3/1/2021	2	2	29.31	Yes	31.86	2.55
15	3/1/2021	2	3	29.72	Yes	31.86	2.14
16	3/1/2021	2	4	30.86	Yes	31.86	1.00
17	3/1/2021	2	5	30.86	Yes	31.86	1.00
18	3/1/2021	2	6	30.86	Yes	31.86	1.00
19	3/1/2021	2	7	30.54	Yes	31.86	1.32
20	3/1/2021	2	8	30.54	Yes	31.86	1.32
21	3/1/2021	2	9	30.44	Yes	31.86	1.42
22	3/1/2021	2	10	30.49	Yes	31.86	1.37
23	3/1/2021	2	11	30.70	Yes	31.86	1.16
24	3/1/2021	2	12	30.50	Yes	31.86	1.36
25	3/1/2021	3	1	31.22	Yes	31.86	0.64
26	3/1/2021	3	2	32.74	Yes	31.86	-0.88
27	3/1/2021	3	3	34.38	Yes	31.86	-2.52
28	3/1/2021	3	4	32.36	Yes	31.86	-0.50
29	3/1/2021	3	5	32.28	Yes	31.86	-0.42
30	3/1/2021	3	6	31.13	Yes	31.86	0.73
31	3/1/2021	3	7	30.96	Yes	31.86	0.90
32	3/1/2021	3	8	30.95	Yes	31.86	0.91
33	3/1/2021	3	9	31.91	Yes	31.86	-0.05
34	3/1/2021	3	10	32.15	Yes	31.86	-0.29

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
35	3/1/2021	3	11	30.95	Yes	31.86	0.91
36	3/1/2021	3	12	32.36	Yes	31.86	-0.50
37	3/1/2021	4	1	31.40	Yes	31.86	0.46
38	3/1/2021	4	2	31.96	Yes	31.86	-0.10
39	3/1/2021	4	3	31.50	Yes	31.86	0.36
40	3/1/2021	6	2	33.04	Yes	31.86	-1.18
41	3/1/2021	6	3	35.26	Yes	31.86	-3.40
42	3/1/2021	6	4	38.87	Yes	31.86	-7.01
43	3/1/2021	6	5	56.25	Yes	31.86	-24.39
44	3/1/2021	6	6	49.12	Yes	31.86	-17.26
45	3/1/2021	6	7	44.67	Yes	31.86	-12.81
46	3/1/2021	6	8	46.72	Yes	31.86	-14.86
47	3/1/2021	6	9	45.57	Yes	31.86	-13.71
48	3/1/2021	6	10	46.71	Yes	31.86	-14.85
49	3/1/2021	6	11	52.71	Yes	31.86	-20.85
50	3/1/2021	6	12	55.15	Yes	31.86	-23.29
51	3/1/2021	7	1	42.51	Yes	31.86	-10.65
52	3/1/2021	7	2	45.83	Yes	31.86	-13.97
53	3/1/2021	7	3	48.11	Yes	31.86	-16.25
54	3/1/2021	7	4	50.21	Yes	31.86	-18.35
55	3/1/2021	7	5	61.15	Yes	31.86	-29.29
56	3/1/2021	7	6	61.15	Yes	31.86	-29.29
57	3/1/2021	7	7	55.39	Yes	31.86	-23.53
58	3/1/2021	7	8	55.46	Yes	31.86	-23.60
59	3/1/2021	7	9	49.57	Yes	31.86	-17.71
60	3/1/2021	7	10	53.07	Yes	31.86	-21.21
61	3/1/2021	7	11	46.30	Yes	31.86	-14.44
62	3/1/2021	7	12	38.82	Yes	31.86	-6.96
63	3/1/2021	8	1	42.30	Yes	31.71	-10.59
64	3/1/2021	8	2	39.80	Yes	31.71	-8.09
65	3/1/2021	8	3	35.32	Yes	31.71	-3.61
66	3/1/2021	8	4	35.32	Yes	31.71	-3.61
67	3/1/2021	8	5	31.75	Yes	31.71	-0.04
68	3/1/2021	8	6	28.85	Yes	31.71	2.86
69	3/1/2021	8	7	28.25	Yes	31.71	3.46
70	3/1/2021	8	8	21.96	Yes	31.71	9.75
71	3/1/2021	8	9	20.87	Yes	31.71	10.84
72	3/1/2021	8	10	19.19	Yes	31.71	12.52



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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
73	3/1/2021	8	11	18.57	Yes	31.71	13.14
74	3/1/2021	8	12	17.20	Yes	31.71	14.51
75	3/1/2021	9	1	21.54	Yes	31.71	10.17
76	3/1/2021	9	2	20.94	Yes	31.71	10.77
77	3/1/2021	9	3	23.40	Yes	31.71	8.31
78	3/1/2021	9	4	21.73	Yes	31.71	9.98
79	3/1/2021	9	5	21.51	Yes	31.71	10.20
80	3/1/2021	9	6	20.84	Yes	31.71	10.87
81	3/1/2021	9	7	20.63	Yes	31.71	11.08
82	3/1/2021	9	8	19.91	Yes	31.71	11.80
83	3/1/2021	9	9	18.86	Yes	31.71	12.85
84	3/1/2021	9	10	18.57	Yes	31.71	13.14
85	3/1/2021	9	11	18.20	Yes	31.71	13.51
86	3/1/2021	9	12	17.32	Yes	31.71	14.39
87	3/1/2021	10	1	21.66	Yes	31.71	10.05
88	3/1/2021	10	2	23.77	Yes	31.71	7.94
89	3/1/2021	10	3	22.80	Yes	31.71	8.91
90	3/1/2021	10	4	22.33	Yes	31.71	9.38
91	3/1/2021	10	5	21.18	Yes	31.71	10.53
92	3/1/2021	10	6	20.98	Yes	31.71	10.73
93	3/1/2021	10	7	21.08	Yes	31.71	10.63
94	3/1/2021	10	8	20.89	Yes	31.71	10.82
95	3/1/2021	10	9	20.26	Yes	31.71	11.45
96	3/1/2021	17	7	25.57	Yes	38.69	13.12
97	3/1/2021	17	8	29.17	Yes	38.69	9.52
98	3/1/2021	17	9	31.05	Yes	38.69	7.64
99	3/1/2021	17	10	35.02	Yes	38.69	3.67
100	3/1/2021	17	11	46.96	Yes	38.69	-8.27
101	3/1/2021	17	12	72.56	Yes	38.69	-33.87
102	3/1/2021	18	1	30.90	Yes	38.69	7.79
103	3/1/2021	18	2	29.96	Yes	36.18	6.22
104	3/1/2021	18	3	30.23	Yes	36.18	5.95
105	3/1/2021	18	4	32.44	Yes	36.18	3.74
106	3/1/2021	18	5	56.78	Yes	36.18	-20.60
107	3/1/2021	18	6	396.21	Yes	37.54	-358.67
108	3/1/2021	18	7	64.61	Yes	38.69	-25.92
109	3/1/2021	18	8	92.80	Yes	38.69	-54.11
110	3/1/2021	18	9	59.37	Yes	38.69	-20.68

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
111	3/1/2021	18	10	71.83	Yes	38.69	-33.14
112	3/1/2021	18	11	60.17	Yes	38.69	-21.48
113	3/1/2021	18	12	68.04	Yes	38.69	-29.35
114	3/1/2021	19	1	46.11	Yes	38.69	-7.42
115	3/1/2021	19	2	41.15	Yes	38.69	-2.46
116	3/1/2021	19	3	40.05	Yes	38.69	-1.36
117	3/1/2021	19	4	41.85	Yes	37.27	-4.58
118	3/1/2021	19	5	45.06	Yes	37.65	-7.41
119	3/1/2021	19	6	44.08	Yes	37.65	-6.43
120	3/1/2021	19	7	44.63	Yes	36.93	-7.70
121	3/1/2021	19	8	43.00	Yes	36.93	-6.07
122	3/1/2021	19	9	40.42	Yes	36.74	-3.68
123	3/1/2021	19	10	36.88	Yes	36.18	-0.70
124	3/1/2021	19	11	36.83	Yes	36.18	-0.65
125	3/1/2021	19	12	38.32	Yes	36.18	-2.14
126	3/1/2021	20	1	42.05	Yes	38.69	-3.36
127	3/1/2021	20	2	40.48	Yes	37.94	-2.54
128	3/1/2021	20	3	40.34	Yes	37.16	-3.18
129	3/1/2021	20	4	43.97	Yes	37.95	-6.02
130	3/1/2021	20	5	44.65	Yes	37.91	-6.74
131	3/1/2021	20	6	44.60	Yes	38.54	-6.06
132	3/1/2021	20	7	44.82	Yes	38.31	-6.51
133	3/1/2021	20	8	44.67	Yes	38.69	-5.98
134	3/1/2021	20	9	44.94	Yes	38.69	-6.25
135	3/1/2021	20	10	44.69	Yes	38.69	-6.00
136	3/1/2021	20	11	44.48	Yes	38.69	-5.79
137	3/1/2021	20	12	42.74	Yes	38.41	-4.33
138	3/1/2021	21	1	39.81	Yes	38.68	-1.13
139	3/1/2021	21	2	40.58	Yes	36.18	-4.40
140	3/1/2021	21	3	37.40	Yes	36.49	-0.91
141	3/1/2021	21	4	37.33	Yes	36.18	-1.15
142	3/1/2021	21	5	36.55	Yes	36.18	-0.37
143	3/1/2021	21	6	36.64	Yes	36.18	-0.46
144	3/1/2021	21	7	36.80	Yes	36.18	-0.62
145	3/1/2021	21	8	35.65	Yes	36.18	0.53
146	3/1/2021	21	9	35.92	Yes	36.18	0.26
147	3/1/2021	21	10	37.06	Yes	36.18	-0.88
148	3/1/2021	21	11	39.77	Yes	36.18	-3.59

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
149	3/1/2021	21	12	37.16	Yes	36.18	-0.98
150	3/1/2021	22	1	36.05	Yes	36.18	0.13
151	3/1/2021	22	2	35.41	Yes	36.18	0.77
152	3/1/2021	22	3	34.78	Yes	36.18	1.40
153	3/1/2021	22	4	34.67	Yes	36.18	1.51
154	3/1/2021	22	5	35.53	Yes	36.18	0.65
155	3/1/2021	22	6	35.24	Yes	36.18	0.94
156	3/1/2021	22	7	36.03	Yes	36.18	0.15
157	3/1/2021	22	8	35.70	Yes	36.18	0.48
158	3/1/2021	22	9	34.56	Yes	36.18	1.62
159	3/1/2021	22	10	33.97	Yes	36.18	2.21
160	3/1/2021	22	11	33.91	Yes	36.18	2.27
161	3/1/2021	22	12	32.99	Yes	36.18	3.19
162	3/1/2021	23	1	37.04	Yes	36.18	-0.86
163	3/1/2021	23	2	37.14	Yes	36.18	-0.96
164	3/1/2021	23	3	35.55	Yes	36.18	0.63
165	3/1/2021	23	4	40.54	Yes	36.18	-4.36
166	3/1/2021	23	5	39.92	Yes	36.18	-3.74
167	3/1/2021	23	6	40.13	Yes	36.18	-3.95
168	3/1/2021	23	7	40.26	Yes	36.56	-3.70
169	3/1/2021	23	8	40.30	Yes	36.18	-4.12
170	3/1/2021	23	9	33.41	Yes	36.54	3.13
171	3/1/2021	23	10	32.60	Yes	38.69	6.09
172	3/2/2021	8	6	24.93	Yes	33.18	8.25
173	3/2/2021	8	7	18.64	Yes	33.18	14.54
174	3/2/2021	8	8	17.82	Yes	33.18	15.36
175	3/2/2021	8	9	16.05	Yes	33.18	17.13
176	3/2/2021	8	10	12.84	Yes	33.18	20.34
177	3/2/2021	8	11	-2.56	Yes	33.18	35.74
178	3/2/2021	8	12	-2.56	Yes	33.18	35.74
179	3/2/2021	9	1	-4.85	Yes	33.18	38.03
180	3/2/2021	9	2	-34.73	Yes	33.18	67.91
181	3/2/2021	9	3	-15.57	Yes	33.18	48.75
182	3/2/2021	9	4	-3.71	Yes	33.18	36.89
183	3/2/2021	9	5	-110.51	Yes	33.18	143.69
184	3/2/2021	9	6	-120.81	Yes	33.18	153.99
185	3/2/2021	9	7	-137.81	Yes	33.18	170.99
186	3/2/2021	9	8	-95.28	Yes	33.18	128.46

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
187	3/2/2021	9	9	-73.71	Yes	33.18	106.89
188	3/2/2021	9	11	-23.62	Yes	33.18	56.80
189	3/2/2021	9	12	-23.42	Yes	33.18	56.60
190	3/2/2021	10	1	-21.78	Yes	33.18	54.96
191	3/2/2021	10	2	-7.85	Yes	33.18	41.03
192	3/2/2021	10	3	-7.83	Yes	33.18	41.01
193	3/2/2021	10	4	-6.34	Yes	33.18	39.52
194	3/2/2021	10	5	-7.83	Yes	33.18	41.01
195	3/2/2021	10	6	-16.92	Yes	33.18	50.10
196	3/2/2021	10	7	-9.29	Yes	33.18	42.47
197	3/2/2021	10	8	-2.75	Yes	33.18	35.93
198	3/2/2021	10	9	-3.62	Yes	33.18	36.80
199	3/2/2021	10	10	-12.05	Yes	33.18	45.23
200	3/2/2021	10	11	-14.74	Yes	33.18	47.92
201	3/2/2021	10	12	-9.62	Yes	33.18	42.80
202	3/2/2021	11	1	-22.92	Yes	33.18	56.10
203	3/2/2021	11	2	-20.75	Yes	33.18	53.93
204	3/2/2021	11	3	-19.18	Yes	33.18	52.36
205	3/2/2021	11	4	-22.15	Yes	33.18	55.33
206	3/2/2021	11	5	-20.39	Yes	33.18	53.57
207	3/2/2021	11	6	-20.28	Yes	33.18	53.46
208	3/2/2021	11	7	-15.52	Yes	33.18	48.70
209	3/2/2021	11	8	-15.38	Yes	33.18	48.56
210	3/2/2021	11	9	-15.29	Yes	33.18	48.47
211	3/2/2021	11	10	-15.65	Yes	33.18	48.83
212	3/2/2021	11	11	-15.58	Yes	33.18	48.76
213	3/2/2021	11	12	-15.38	Yes	33.18	48.56
214	3/2/2021	12	1	-17.40	Yes	33.18	50.58
215	3/2/2021	12	2	-19.72	Yes	33.18	52.90
216	3/2/2021	12	3	-19.75	Yes	33.18	52.93
217	3/2/2021	12	4	-20.15	Yes	33.18	53.33
218	3/2/2021	12	5	-21.78	Yes	33.18	54.96
219	3/2/2021	12	6	-31.72	Yes	33.18	64.90
220	3/2/2021	12	7	10.51	Yes	33.18	22.67
221	3/2/2021	12	8	6.33	Yes	33.18	26.85
222	3/2/2021	12	9	6.45	Yes	33.18	26.73
223	3/2/2021	12	10	-40.75	Yes	33.18	73.93
224	3/2/2021	12	11	-40.89	Yes	33.18	74.07

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
225	3/2/2021	12	12	-41.12	Yes	33.18	74.30
226	3/2/2021	13	1	-40.09	Yes	33.18	73.27
227	3/2/2021	13	2	-20.03	Yes	33.18	53.21
228	3/2/2021	13	3	-21.73	Yes	33.18	54.91
229	3/2/2021	13	4	-20.04	Yes	33.18	53.22
230	3/2/2021	13	5	-15.46	Yes	33.18	48.64
231	3/2/2021	13	6	-15.35	Yes	33.18	48.53
232	3/2/2021	13	7	-19.77	Yes	33.18	52.95
233	3/2/2021	13	8	-19.69	Yes	33.18	52.87
234	3/2/2021	13	9	6.05	Yes	33.18	27.13
235	3/2/2021	13	10	0.37	Yes	33.18	32.81
236	3/2/2021	13	11	-22.94	Yes	33.18	56.12
237	3/2/2021	13	12	-21.33	Yes	33.18	54.51
238	3/2/2021	14	1	4.90	Yes	33.18	28.28
239	3/2/2021	14	2	-2.74	Yes	33.18	35.92
240	3/2/2021	14	3	-2.69	Yes	33.18	35.87
241	3/2/2021	14	4	-56.72	Yes	33.18	89.90
242	3/2/2021	14	5	-48.64	Yes	33.18	81.82
243	3/2/2021	14	6	-46.09	Yes	33.18	79.27
244	3/2/2021	14	7	-20.23	Yes	33.18	53.41
245	3/2/2021	14	8	-19.78	Yes	33.18	52.96
246	3/2/2021	14	9	-14.98	Yes	33.18	48.16
247	3/2/2021	14	10	-17.04	Yes	33.18	50.22
248	3/2/2021	14	11	-19.52	Yes	33.18	52.70
249	3/2/2021	14	12	-19.52	Yes	33.18	52.70
250	3/2/2021	15	1	2.33	Yes	33.18	30.85
251	3/2/2021	15	2	2.60	Yes	33.18	30.58
252	3/2/2021	15	3	9.91	Yes	33.18	23.27
253	3/2/2021	15	4	-21.33	Yes	33.18	54.51
254	3/2/2021	15	5	-21.33	Yes	33.18	54.51
255	3/2/2021	15	6	-21.73	Yes	33.18	54.91
256	3/2/2021	15	7	-19.47	Yes	33.18	52.65
257	3/2/2021	15	8	-19.47	Yes	33.18	52.65
258	3/2/2021	15	9	-19.46	Yes	33.18	52.64
259	3/2/2021	15	10	-19.81	Yes	33.18	52.99
260	3/2/2021	15	11	-19.89	Yes	33.18	53.07
261	3/2/2021	15	12	-22.19	Yes	33.18	55.37
262	3/2/2021	16	1	-16.30	Yes	33.18	49.48

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
263	3/2/2021	16	2	-16.39	Yes	33.18	49.57
264	3/2/2021	16	3	-22.58	Yes	33.18	55.76
265	3/2/2021	16	4	-57.61	Yes	33.18	90.79
266	3/2/2021	16	5	-26.66	Yes	33.18	59.84
267	3/2/2021	16	6	-28.40	Yes	33.18	61.58
268	3/2/2021	16	7	-21.69	Yes	33.18	54.87
269	3/2/2021	16	8	-11.32	Yes	33.18	44.50
270	3/2/2021	16	9	-9.55	Yes	33.18	42.73
271	3/2/2021	16	10	19.48	Yes	33.18	13.70
272	3/2/2021	16	11	21.12	Yes	33.18	12.06
273	3/2/2021	16	12	17.55	Yes	33.18	15.63
274	3/2/2021	17	1	17.55	Yes	33.18	15.63
275	3/2/2021	17	2	18.00	Yes	33.18	15.18
276	3/2/2021	17	3	17.85	Yes	33.18	15.33
277	3/2/2021	17	4	22.15	Yes	33.18	11.03
278	3/2/2021	17	7	25.72	Yes	33.18	7.46
279	3/2/2021	17	8	30.49	Yes	33.18	2.69
280	3/2/2021	17	9	37.70	Yes	33.18	-4.52
281	3/2/2021	17	10	65.41	Yes	33.18	-32.23
282	3/2/2021	17	11	74.70	Yes	33.18	-41.52
283	3/2/2021	17	12	135.36	Yes	33.18	-102.18
284	3/2/2021	18	1	30.39	Yes	33.18	2.79
285	3/2/2021	18	2	30.42	Yes	33.18	2.76
286	3/2/2021	18	3	31.02	Yes	33.18	2.16
287	3/2/2021	18	4	37.95	Yes	33.18	-4.77
288	3/2/2021	18	5	36.22	Yes	33.18	-3.04
289	3/2/2021	18	6	38.73	Yes	33.18	-5.55
290	3/2/2021	18	7	35.73	Yes	33.18	-2.55
291	3/2/2021	18	8	40.01	Yes	33.18	-6.83
292	3/2/2021	18	9	45.42	Yes	33.18	-12.24
293	3/2/2021	18	10	47.09	Yes	33.18	-13.91
294	3/2/2021	18	11	45.35	Yes	33.18	-12.17
295	3/2/2021	18	12	52.82	Yes	33.18	-19.64
296	3/2/2021	19	1	50.51	Yes	33.18	-17.33
297	3/2/2021	19	2	45.22	Yes	33.18	-12.04
298	3/2/2021	19	3	39.41	Yes	33.18	-6.23
299	3/2/2021	19	4	45.63	Yes	33.18	-12.45
300	3/2/2021	19	5	41.08	Yes	33.18	-7.90

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
301	3/2/2021	19	6	42.72	Yes	33.18	-9.54
302	3/2/2021	19	7	40.80	Yes	33.18	-7.62
303	3/2/2021	19	8	40.80	Yes	33.18	-7.62
304	3/2/2021	19	9	37.68	Yes	33.18	-4.50
305	3/2/2021	19	10	34.63	Yes	33.18	-1.45
306	3/2/2021	19	11	34.63	Yes	33.18	-1.45
307	3/2/2021	19	12	34.82	Yes	33.18	-1.64
308	3/2/2021	20	1	36.05	Yes	33.18	-2.87
309	3/2/2021	20	2	36.09	Yes	33.18	-2.91
310	3/2/2021	20	7	36.26	Yes	32.25	-4.01
311	3/2/2021	20	8	36.23	Yes	32.25	-3.98
312	3/2/2021	20	9	35.86	Yes	32.25	-3.61
313	3/2/2021	20	10	35.26	Yes	32.25	-3.01
314	3/2/2021	20	11	35.29	Yes	32.25	-3.04
315	3/2/2021	20	12	35.64	Yes	32.25	-3.39
316	3/2/2021	21	1	36.23	Yes	32.25	-3.98
317	3/2/2021	21	2	36.18	Yes	32.25	-3.93
318	3/2/2021	21	3	35.54	Yes	32.25	-3.29
319	3/2/2021	21	4	34.82	Yes	32.25	-2.57
320	3/2/2021	21	5	34.74	Yes	32.25	-2.49
321	3/2/2021	21	6	33.86	Yes	32.25	-1.61
322	3/2/2021	21	7	34.31	Yes	32.25	-2.06
323	3/2/2021	21	8	34.03	Yes	32.25	-1.78
324	3/2/2021	21	9	33.41	Yes	32.25	-1.16
325	3/2/2021	21	10	32.84	Yes	32.25	-0.59
326	3/2/2021	21	11	33.46	Yes	32.25	-1.21
327	3/2/2021	21	12	33.63	Yes	32.25	-1.38
328	3/2/2021	22	1	35.21	Yes	32.25	-2.96
329	3/2/2021	22	2	35.23	Yes	32.25	-2.98
330	3/2/2021	22	3	36.02	Yes	32.25	-3.77
331	3/2/2021	22	4	36.17	Yes	32.25	-3.92
332	3/2/2021	22	5	36.15	Yes	32.25	-3.90
333	3/2/2021	22	6	35.94	Yes	32.25	-3.69
334	3/2/2021	22	7	37.21	Yes	32.25	-4.96
335	3/2/2021	22	8	37.21	Yes	32.25	-4.96
336	3/2/2021	22	9	36.90	Yes	32.25	-4.65
337	3/2/2021	22	10	31.94	Yes	32.25	0.31
338	3/2/2021	22	11	32.95	Yes	32.25	-0.70

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
339	3/2/2021	22	12	32.09	Yes	32.25	0.16
340	3/2/2021	23	1	34.24	Yes	32.25	-1.99
341	3/2/2021	23	2	33.42	Yes	32.25	-1.17
342	3/2/2021	23	3	35.91	Yes	32.25	-3.66
343	3/2/2021	23	4	35.27	Yes	32.25	-3.02
344	3/2/2021	23	5	35.23	Yes	32.25	-2.98
345	3/2/2021	23	6	32.87	Yes	32.25	-0.62
346	3/2/2021	23	7	32.25	Yes	32.25	0.00
347	3/2/2021	23	8	32.25	Yes	32.25	0.00
348	3/2/2021	23	9	31.43	Yes	32.25	0.82
349	3/2/2021	23	10	30.74	Yes	32.25	1.51
350	3/2/2021	23	11	29.94	Yes	32.25	2.31
351	3/2/2021	23	12	29.55	Yes	32.25	2.70
352	3/2/2021	24	1	33.45	Yes	32.25	-1.20
353	3/2/2021	24	2	33.00	Yes	32.25	-0.75
354	3/2/2021	24	3	32.44	Yes	32.25	-0.19
355	3/2/2021	24	4	31.07	Yes	32.25	1.18
356	3/2/2021	24	5	29.07	Yes	32.25	3.18
357	3/2/2021	24	6	30.43	Yes	32.25	1.82
358	3/2/2021	24	7	29.09	Yes	32.25	3.16
359	3/2/2021	24	8	28.63	Yes	32.25	3.62
360	3/2/2021	24	9	28.63	Yes	32.25	3.62
361	3/2/2021	24	10	28.86	Yes	32.25	3.39
362	3/2/2021	24	11	28.74	Yes	32.25	3.51
363	3/2/2021	24	12	28.70	Yes	32.25	3.55
364	3/3/2021	1	1	28.79	Yes	32.25	3.46
365	3/3/2021	1	2	29.54	Yes	32.25	2.71
366	3/3/2021	1	3	29.23	Yes	32.25	3.02
367	3/3/2021	1	4	30.34	Yes	32.25	1.91
368	3/3/2021	1	5	30.34	Yes	32.25	1.91
369	3/3/2021	1	6	30.34	Yes	32.25	1.91
370	3/3/2021	1	7	29.97	Yes	32.25	2.28
371	3/3/2021	1	8	30.83	Yes	32.25	1.42
372	3/3/2021	1	9	29.23	Yes	32.25	3.02
373	3/3/2021	1	10	29.52	Yes	32.25	2.73
374	3/3/2021	1	11	29.21	Yes	32.25	3.04
375	3/3/2021	1	12	29.52	Yes	32.25	2.73
376	3/3/2021	2	1	30.16	Yes	32.25	2.09



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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
377	3/3/2021	2	2	29.70	Yes	32.25	2.55
378	3/3/2021	2	3	30.37	Yes	32.25	1.88
379	3/3/2021	2	4	30.38	Yes	32.25	1.87
380	3/3/2021	2	5	30.38	Yes	32.25	1.87
381	3/3/2021	2	6	32.28	Yes	32.25	-0.03
382	3/3/2021	2	7	29.92	Yes	32.25	2.33
383	3/3/2021	2	8	29.92	Yes	32.25	2.33
384	3/3/2021	2	9	29.83	Yes	32.25	2.42
385	3/3/2021	2	10	29.51	Yes	32.25	2.74
386	3/3/2021	2	11	29.51	Yes	32.25	2.74
387	3/3/2021	2	12	28.67	Yes	32.25	3.58
388	3/3/2021	3	1	29.91	Yes	32.25	2.34
389	3/3/2021	3	2	29.91	Yes	32.25	2.34
390	3/3/2021	3	3	30.04	Yes	32.25	2.21
391	3/3/2021	3	4	30.08	Yes	32.25	2.17
392	3/3/2021	3	5	30.21	Yes	32.25	2.04
393	3/3/2021	3	6	30.21	Yes	32.25	2.04
394	3/3/2021	3	7	29.99	Yes	32.25	2.26
395	3/3/2021	3	8	29.99	Yes	32.25	2.26
396	3/3/2021	3	9	30.00	Yes	32.25	2.25
397	3/3/2021	3	10	30.00	Yes	32.25	2.25
398	3/3/2021	3	11	29.93	Yes	32.25	2.32
399	3/3/2021	3	12	29.93	Yes	32.25	2.32
400	3/3/2021	4	1	30.12	Yes	32.25	2.13
401	3/3/2021	4	2	29.96	Yes	32.25	2.29
402	3/3/2021	4	3	29.96	Yes	32.25	2.29
403	3/3/2021	4	4	30.41	Yes	32.25	1.84
404	3/3/2021	4	5	30.41	Yes	32.25	1.84
405	3/3/2021	4	6	32.35	Yes	32.25	-0.10
406	3/3/2021	4	7	34.33	Yes	32.25	-2.08
407	3/3/2021	4	8	33.51	Yes	32.25	-1.26
408	3/3/2021	4	9	33.97	Yes	32.25	-1.72
409	3/3/2021	4	10	34.28	Yes	32.25	-2.03
410	3/3/2021	4	11	34.77	Yes	32.25	-2.52
411	3/3/2021	4	12	30.42	Yes	32.25	1.83
412	3/3/2021	5	1	28.99	Yes	32.25	3.26
413	3/3/2021	5	2	29.16	Yes	32.25	3.09
414	3/3/2021	5	3	30.28	Yes	32.25	1.97

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
415	3/3/2021	5	4	30.32	Yes	32.25	1.93
416	3/3/2021	5	5	31.42	Yes	32.25	0.83
417	3/3/2021	5	6	33.03	Yes	32.25	-0.78
418	3/3/2021	5	7	34.04	Yes	32.25	-1.79
419	3/3/2021	5	8	35.56	Yes	32.25	-3.31
420	3/3/2021	5	9	37.22	Yes	32.25	-4.97
421	3/3/2021	5	10	38.63	Yes	32.25	-6.38
422	3/3/2021	5	11	38.32	Yes	32.25	-6.07
423	3/3/2021	5	12	38.32	Yes	32.25	-6.07
424	3/3/2021	6	1	32.55	Yes	32.25	-0.30
425	3/3/2021	6	2	31.79	Yes	32.25	0.46
426	3/3/2021	6	3	35.22	Yes	32.25	-2.97
427	3/3/2021	6	4	36.78	Yes	32.25	-4.53
428	3/3/2021	6	5	36.79	Yes	32.25	-4.54
429	3/3/2021	6	6	37.50	Yes	32.25	-5.25
430	3/3/2021	6	7	38.65	Yes	32.25	-6.40
431	3/3/2021	6	8	40.95	Yes	32.25	-8.70
432	3/3/2021	6	9	40.57	Yes	32.25	-8.32
433	3/3/2021	6	10	43.08	Yes	32.25	-10.83
434	3/3/2021	6	11	46.15	Yes	32.25	-13.90
435	3/3/2021	6	12	47.46	Yes	32.25	-15.21
436	3/3/2021	7	1	40.35	Yes	32.25	-8.10
437	3/3/2021	7	2	37.92	Yes	32.25	-5.67
438	3/3/2021	7	3	39.03	Yes	32.25	-6.78
439	3/3/2021	7	4	38.52	Yes	32.25	-6.27
440	3/3/2021	7	5	40.75	Yes	32.25	-8.50
441	3/3/2021	7	6	39.29	Yes	32.25	-7.04
442	3/3/2021	7	7	38.33	Yes	32.25	-6.08
443	3/3/2021	7	8	36.60	Yes	32.25	-4.35
444	3/3/2021	7	9	36.50	Yes	32.25	-4.25
445	3/3/2021	7	10	35.80	Yes	32.25	-3.55
446	3/3/2021	7	11	32.92	Yes	32.25	-0.67
447	3/3/2021	7	12	34.32	Yes	32.25	-2.07
448	3/3/2021	8	1	33.05	Yes	34.03	0.98
449	3/3/2021	8	2	31.14	Yes	34.03	2.89
450	3/3/2021	8	3	31.04	Yes	34.03	2.99
451	3/3/2021	8	4	33.33	Yes	34.03	0.70
452	3/3/2021	8	5	30.87	Yes	34.03	3.16

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
453	3/3/2021	8	6	26.50	Yes	34.03	7.53
454	3/3/2021	8	7	25.71	Yes	34.03	8.32
455	3/3/2021	8	8	26.11	Yes	34.03	7.92
456	3/3/2021	8	9	25.65	Yes	34.03	8.38
457	3/3/2021	8	10	24.13	Yes	34.03	9.90
458	3/3/2021	8	11	23.57	Yes	34.03	10.46
459	3/3/2021	8	12	22.53	Yes	34.03	11.50
460	3/3/2021	9	1	8.29	Yes	34.03	25.74
461	3/3/2021	9	2	6.45	Yes	34.03	27.58
462	3/3/2021	9	3	13.50	Yes	34.03	20.53
463	3/3/2021	9	4	-21.28	Yes	34.03	55.31
464	3/3/2021	9	5	3.44	Yes	34.03	30.59
465	3/3/2021	9	6	4.08	Yes	34.03	29.95
466	3/3/2021	9	7	22.41	Yes	34.03	11.62
467	3/3/2021	9	8	23.85	Yes	34.03	10.18
468	3/3/2021	9	9	23.90	Yes	34.03	10.13
469	3/3/2021	9	10	-2.06	Yes	31.39	33.45
470	3/3/2021	9	11	-1.04	Yes	31.39	32.43
471	3/3/2021	9	12	-2.85	Yes	31.39	34.24
472	3/3/2021	10	1	-5.64	Yes	31.39	37.03
473	3/3/2021	10	2	-15.04	Yes	31.39	46.43
474	3/3/2021	10	3	-7.76	Yes	31.39	39.15
475	3/3/2021	10	4	-10.48	Yes	31.39	41.87
476	3/3/2021	10	5	-14.82	Yes	31.39	46.21
477	3/3/2021	10	6	-20.03	Yes	31.39	51.42
478	3/3/2021	15	10	27.02	Yes	34.03	7.01
479	3/3/2021	15	11	28.13	Yes	34.03	5.90
480	3/3/2021	15	12	28.27	Yes	34.03	5.76
481	3/3/2021	16	1	28.15	Yes	34.03	5.88
482	3/3/2021	16	2	28.15	Yes	34.03	5.88
483	3/3/2021	16	3	28.17	Yes	34.03	5.86
484	3/3/2021	16	4	26.64	Yes	34.03	7.39
485	3/3/2021	16	5	26.83	Yes	34.03	7.20
486	3/3/2021	16	6	28.54	Yes	34.03	5.49
487	3/3/2021	16	7	40.62	Yes	34.03	-6.59
488	3/3/2021	16	8	36.15	Yes	34.03	-2.12
489	3/3/2021	16	9	40.32	Yes	34.03	-6.29
490	3/3/2021	16	10	51.72	Yes	34.03	-17.69

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491	3/3/2021	16	11	58.36	Yes	34.03	-24.33
492	3/3/2021	16	12	57.91	Yes	34.03	-23.88
493	3/3/2021	17	1	31.19	Yes	34.03	2.84
494	3/3/2021	17	2	35.83	Yes	34.03	-1.80
495	3/3/2021	17	3	31.32	Yes	34.03	2.71
496	3/4/2021	20	7	43.52	Yes	33.32	-10.20
497	3/4/2021	20	8	42.68	Yes	33.32	-9.36
498	3/4/2021	20	9	42.46	Yes	33.32	-9.14
499	3/4/2021	20	10	41.73	Yes	33.32	-8.41
500	3/4/2021	20	11	42.34	Yes	33.32	-9.02
501	3/4/2021	20	12	42.92	Yes	33.32	-9.60
502	3/4/2021	21	1	45.03	Yes	33.32	-11.71
503	3/4/2021	21	2	45.88	Yes	33.32	-12.56
504	3/4/2021	21	3	44.88	Yes	33.32	-11.56
505	3/4/2021	21	4	44.45	Yes	33.32	-11.13
506	3/4/2021	21	5	44.45	Yes	33.32	-11.13
507	3/4/2021	21	6	45.08	Yes	33.32	-11.76
508	3/4/2021	21	7	48.17	Yes	33.32	-14.85
509	3/4/2021	21	8	45.10	Yes	33.32	-11.78
510	3/4/2021	21	9	44.29	Yes	33.32	-10.97
511	3/4/2021	21	10	44.63	Yes	33.32	-11.31
512	3/4/2021	21	11	41.68	Yes	33.32	-8.36
513	3/4/2021	21	12	41.83	Yes	33.32	-8.51
514	3/4/2021	22	1	44.55	Yes	33.32	-11.23
515	3/4/2021	22	2	44.31	Yes	33.32	-10.99
516	3/4/2021	22	3	45.28	Yes	33.32	-11.96
517	3/4/2021	22	4	42.21	Yes	33.32	-8.89
518	3/4/2021	22	5	41.86	Yes	33.32	-8.54
519	3/4/2021	22	6	39.83	Yes	33.32	-6.51
520	3/4/2021	22	7	37.61	Yes	33.32	-4.29
521	3/4/2021	22	8	38.30	Yes	33.32	-4.98
522	3/4/2021	22	9	37.20	Yes	33.32	-3.88
523	3/4/2021	22	10	37.50	Yes	33.32	-4.18
524	3/4/2021	22	11	35.82	Yes	33.32	-2.50
525	3/4/2021	22	12	32.66	Yes	33.32	0.66
526	3/4/2021	23	1	55.07	Yes	33.32	-21.75
527	3/4/2021	23	2	45.84	Yes	33.32	-12.52
528	3/4/2021	23	3	37.43	Yes	33.32	-4.11

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
529	3/4/2021	23	4	33.72	Yes	33.32	-0.40
530	3/4/2021	23	5	33.72	Yes	33.32	-0.40
531	3/4/2021	23	6	33.86	Yes	33.32	-0.54
532	3/4/2021	23	7	33.32	Yes	33.32	0.00
533	3/4/2021	23	8	34.21	Yes	33.32	-0.89
534	3/4/2021	23	9	31.40	Yes	33.32	1.92
535	3/4/2021	23	10	30.46	Yes	33.32	2.86
536	3/4/2021	23	11	30.39	Yes	33.32	2.93
537	3/4/2021	23	12	30.46	Yes	33.32	2.86
538	3/4/2021	24	1	32.24	Yes	33.32	1.08
539	3/4/2021	24	2	32.01	Yes	33.32	1.31
540	3/4/2021	24	3	30.19	Yes	33.32	3.13
541	3/4/2021	24	4	29.24	Yes	33.32	4.08
542	3/4/2021	24	5	29.14	Yes	33.32	4.18
543	3/4/2021	24	6	29.67	Yes	33.32	3.65
544	3/4/2021	24	7	28.45	Yes	33.32	4.87
545	3/4/2021	24	8	28.45	Yes	33.32	4.87
546	3/4/2021	24	9	28.34	Yes	33.32	4.98
547	3/4/2021	24	10	29.60	Yes	33.32	3.72
548	3/4/2021	24	11	29.60	Yes	33.32	3.72
549	3/4/2021	24	12	29.25	Yes	33.32	4.07
550	3/5/2021	1	1	27.43	Yes	33.32	5.89
551	3/5/2021	1	2	27.85	Yes	33.32	5.47
552	3/5/2021	1	3	28.09	Yes	33.32	5.23
553	3/5/2021	1	4	28.15	Yes	33.32	5.17
554	3/5/2021	1	5	27.84	Yes	33.32	5.48
555	3/5/2021	1	6	27.45	Yes	33.32	5.87
556	3/5/2021	1	7	27.29	Yes	33.32	6.03
557	3/5/2021	1	8	27.03	Yes	33.32	6.29
558	3/5/2021	1	9	27.03	Yes	33.32	6.29
559	3/5/2021	1	10	28.53	Yes	33.32	4.79
560	3/5/2021	1	11	28.25	Yes	33.32	5.07
561	3/5/2021	1	12	28.15	Yes	33.32	5.17
562	3/5/2021	2	1	26.70	Yes	33.32	6.62
563	3/5/2021	2	2	27.95	Yes	33.32	5.37
564	3/5/2021	2	3	28.53	Yes	33.32	4.79
565	3/5/2021	2	4	30.27	Yes	33.32	3.05
566	3/5/2021	2	5	29.52	Yes	33.32	3.80

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
567	3/5/2021	2	6	29.48	Yes	33.32	3.84
568	3/5/2021	2	7	28.02	Yes	33.32	5.30
569	3/5/2021	2	8	28.16	Yes	33.32	5.16
570	3/5/2021	2	9	28.02	Yes	33.32	5.30
571	3/5/2021	2	10	28.34	Yes	33.32	4.98
572	3/5/2021	2	11	28.22	Yes	33.32	5.10
573	3/5/2021	2	12	27.51	Yes	33.32	5.81
574	3/5/2021	3	1	27.49	Yes	33.32	5.83
575	3/5/2021	3	2	26.98	Yes	33.32	6.34
576	3/5/2021	3	3	26.96	Yes	33.32	6.36
577	3/5/2021	3	4	27.47	Yes	33.32	5.85
578	3/5/2021	3	5	28.02	Yes	33.32	5.30
579	3/5/2021	3	6	27.53	Yes	33.32	5.79
580	3/5/2021	3	7	27.61	Yes	33.32	5.71
581	3/5/2021	3	8	27.94	Yes	33.32	5.38
582	3/5/2021	3	9	27.69	Yes	33.32	5.63
583	3/5/2021	3	10	27.95	Yes	33.32	5.37
584	3/5/2021	3	11	28.11	Yes	33.32	5.21
585	3/5/2021	3	12	28.31	Yes	33.32	5.01
586	3/5/2021	4	1	27.84	Yes	33.32	5.48
587	3/5/2021	4	2	27.84	Yes	33.32	5.48
588	3/5/2021	4	3	27.54	Yes	33.32	5.78
589	3/5/2021	4	4	27.39	Yes	33.32	5.93
590	3/5/2021	4	5	28.39	Yes	33.32	4.93
591	3/5/2021	4	6	27.50	Yes	33.32	5.82
592	3/5/2021	4	7	27.53	Yes	33.32	5.79
593	3/5/2021	4	8	28.31	Yes	33.32	5.01
594	3/5/2021	4	9	28.31	Yes	33.32	5.01
595	3/5/2021	4	10	28.31	Yes	33.32	5.01
596	3/5/2021	4	11	28.12	Yes	33.32	5.20
597	3/5/2021	4	12	27.68	Yes	33.32	5.64
598	3/5/2021	5	1	28.54	Yes	33.32	4.78
599	3/5/2021	5	2	28.15	Yes	33.32	5.17
600	3/5/2021	5	3	28.70	Yes	33.32	4.62
601	3/5/2021	5	4	28.54	Yes	33.32	4.78
602	3/5/2021	5	5	28.57	Yes	33.32	4.75
603	3/5/2021	5	6	29.15	Yes	33.32	4.17
604	3/5/2021	5	7	29.19	Yes	33.32	4.13

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
605	3/5/2021	5	8	29.13	Yes	33.32	4.19
606	3/5/2021	5	9	30.02	Yes	33.32	3.30
607	3/5/2021	5	10	31.24	Yes	33.32	2.08
608	3/5/2021	5	11	30.14	Yes	33.32	3.18
609	3/5/2021	5	12	29.34	Yes	33.32	3.98
610	3/5/2021	6	1	31.22	Yes	33.32	2.10
611	3/5/2021	6	2	29.01	Yes	33.32	4.31
612	3/5/2021	6	3	30.13	Yes	33.32	3.19
613	3/5/2021	6	4	31.23	Yes	33.32	2.09
614	3/5/2021	6	5	33.04	Yes	33.32	0.28
615	3/5/2021	6	6	35.34	Yes	33.32	-2.02
616	3/5/2021	6	7	33.66	Yes	33.32	-0.34
617	3/5/2021	6	8	30.82	Yes	33.32	2.50
618	3/5/2021	6	9	34.35	Yes	33.32	-1.03
619	3/5/2021	6	10	35.11	Yes	33.32	-1.79
620	3/5/2021	6	11	37.06	Yes	33.32	-3.74
621	3/5/2021	6	12	36.07	Yes	33.32	-2.75
622	3/5/2021	7	1	34.44	Yes	33.32	-1.12
623	3/5/2021	7	2	33.62	Yes	33.32	-0.30
624	3/5/2021	7	3	31.67	Yes	33.32	1.65
625	3/5/2021	7	4	31.59	Yes	33.32	1.73
626	3/5/2021	7	5	32.90	Yes	33.32	0.42
627	3/5/2021	7	6	34.27	Yes	33.32	-0.95
628	3/5/2021	7	7	34.27	Yes	33.32	-0.95
629	3/5/2021	7	8	31.74	Yes	33.32	1.58
630	3/5/2021	7	9	28.35	Yes	33.32	4.97
631	3/5/2021	22	4	29.57	Yes	32.45	2.88
632	3/5/2021	22	5	29.22	Yes	32.45	3.23
633	3/5/2021	22	6	29.57	Yes	32.45	2.88
634	3/5/2021	22	7	31.23	Yes	32.45	1.22
635	3/5/2021	22	8	29.86	Yes	32.45	2.59
636	3/5/2021	22	9	29.86	Yes	32.45	2.59
637	3/5/2021	22	10	29.25	Yes	32.45	3.20
638	3/5/2021	22	11	28.61	Yes	32.45	3.84
639	3/5/2021	22	12	28.78	Yes	32.45	3.67
640	3/5/2021	23	1	29.17	Yes	32.45	3.28
641	3/5/2021	23	2	30.80	Yes	32.45	1.65
642	3/5/2021	23	3	30.80	Yes	32.45	1.65

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
643	3/5/2021	23	4	28.85	Yes	32.45	3.60
644	3/5/2021	23	5	29.46	Yes	32.45	2.99
645	3/5/2021	23	6	29.80	Yes	32.45	2.65
646	3/5/2021	23	7	28.94	Yes	32.45	3.51
647	3/5/2021	23	8	29.46	Yes	32.45	2.99
648	3/5/2021	23	9	28.64	Yes	32.45	3.81
649	3/5/2021	23	10	28.60	Yes	32.45	3.85
650	3/5/2021	23	11	28.64	Yes	32.45	3.81
651	3/5/2021	23	12	27.42	Yes	32.45	5.03
652	3/5/2021	24	1	26.18	Yes	32.45	6.27
653	3/5/2021	24	2	25.96	Yes	32.45	6.49
654	3/5/2021	24	3	23.49	Yes	32.45	8.96
655	3/5/2021	24	4	17.46	Yes	32.45	14.99
656	3/5/2021	24	5	20.25	Yes	32.45	12.20
657	3/5/2021	24	6	19.59	Yes	32.45	12.86
658	3/5/2021	24	7	26.82	Yes	32.45	5.63
659	3/5/2021	24	8	27.24	Yes	32.45	5.21
660	3/5/2021	24	9	26.38	Yes	32.45	6.07
661	3/5/2021	24	10	25.63	Yes	32.45	6.82
662	3/5/2021	24	11	26.07	Yes	32.45	6.38
663	3/5/2021	24	12	25.64	Yes	32.45	6.81
664	3/6/2021	1	1	25.19	Yes	32.44	7.25
665	3/6/2021	1	2	25.86	Yes	32.44	6.58
666	3/6/2021	1	3	25.80	Yes	32.44	6.64
667	3/6/2021	1	4	26.67	Yes	32.44	5.77
668	3/6/2021	1	5	26.67	Yes	32.44	5.77
669	3/6/2021	1	6	27.32	Yes	32.44	5.12
670	3/6/2021	1	7	26.81	Yes	32.44	5.63
671	3/6/2021	1	8	26.83	Yes	32.44	5.61
672	3/6/2021	1	9	26.59	Yes	32.44	5.85
673	3/6/2021	1	10	26.52	Yes	32.44	5.92
674	3/6/2021	1	11	26.51	Yes	32.44	5.93
675	3/6/2021	1	12	26.32	Yes	32.44	6.12
676	3/6/2021	2	1	29.79	Yes	32.44	2.65
677	3/6/2021	2	2	29.35	Yes	32.44	3.09
678	3/6/2021	2	3	28.25	Yes	32.44	4.19
679	3/6/2021	2	4	28.98	Yes	32.44	3.46
680	3/6/2021	2	5	28.47	Yes	32.44	3.97



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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
681	3/6/2021	2	6	28.22	Yes	32.44	4.22
682	3/6/2021	2	7	27.81	Yes	32.44	4.63
683	3/6/2021	2	8	27.71	Yes	32.44	4.73
684	3/6/2021	2	9	26.71	Yes	32.44	5.73
685	3/6/2021	2	10	26.60	Yes	32.44	5.84
686	3/6/2021	2	11	26.17	Yes	32.44	6.27
687	3/6/2021	2	12	25.43	Yes	32.44	7.01
688	3/6/2021	3	1	25.38	Yes	32.44	7.06
689	3/6/2021	3	2	24.92	Yes	32.44	7.52
690	3/6/2021	3	3	23.31	Yes	32.44	9.13
691	3/6/2021	3	4	22.43	Yes	32.44	10.01
692	3/6/2021	3	5	18.52	Yes	32.44	13.92
693	3/6/2021	3	6	18.52	Yes	32.44	13.92
694	3/6/2021	3	7	22.44	Yes	32.44	10.00
695	3/6/2021	3	8	22.30	Yes	32.44	10.14
696	3/6/2021	3	9	24.71	Yes	32.44	7.73
697	3/6/2021	3	10	24.75	Yes	32.44	7.69
698	3/6/2021	3	11	22.44	Yes	32.44	10.00
699	3/6/2021	3	12	24.73	Yes	32.44	7.71
700	3/6/2021	4	1	27.02	Yes	32.44	5.42
701	3/6/2021	4	2	27.03	Yes	32.44	5.41
702	3/6/2021	4	3	26.66	Yes	32.44	5.78
703	3/6/2021	4	4	26.01	Yes	32.44	6.43
704	3/6/2021	4	5	25.52	Yes	32.44	6.92
705	3/6/2021	4	6	25.05	Yes	32.44	7.39
706	3/6/2021	4	7	25.03	Yes	32.44	7.41
707	3/6/2021	4	8	24.93	Yes	32.44	7.51
708	3/6/2021	4	9	25.03	Yes	32.44	7.41
709	3/6/2021	4	10	25.58	Yes	32.44	6.86
710	3/6/2021	4	11	25.14	Yes	32.44	7.30
711	3/6/2021	4	12	25.08	Yes	32.44	7.36
712	3/6/2021	5	1	25.23	Yes	32.44	7.21
713	3/6/2021	5	2	24.99	Yes	32.44	7.45
714	3/6/2021	5	3	25.23	Yes	32.44	7.21
715	3/6/2021	5	4	25.32	Yes	32.44	7.12
716	3/6/2021	5	5	25.32	Yes	32.44	7.12
717	3/6/2021	5	6	25.32	Yes	32.44	7.12
718	3/6/2021	5	7	25.15	Yes	32.44	7.29

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719	3/6/2021	5	8	25.15	Yes	32.44	7.29
720	3/6/2021	5	9	25.15	Yes	32.44	7.29
721	3/6/2021	5	10	24.45	Yes	32.44	7.99
722	3/6/2021	5	11	22.23	Yes	32.44	10.21
723	3/6/2021	5	12	21.83	Yes	32.44	10.61
724	3/6/2021	6	1	19.07	Yes	32.44	13.37
725	3/6/2021	6	2	20.13	Yes	32.44	12.31
726	3/6/2021	6	3	21.41	Yes	32.44	11.03
727	3/6/2021	6	4	21.49	Yes	32.44	10.95
728	3/6/2021	6	5	21.49	Yes	32.44	10.95
729	3/6/2021	6	6	21.49	Yes	32.44	10.95
730	3/6/2021	6	7	21.39	Yes	32.44	11.05
731	3/6/2021	6	8	21.39	Yes	32.44	11.05
732	3/6/2021	6	9	21.51	Yes	32.44	10.93
733	3/6/2021	6	10	21.49	Yes	32.44	10.95
734	3/6/2021	6	11	21.49	Yes	32.44	10.95
735	3/6/2021	6	12	25.18	Yes	32.44	7.26
736	3/6/2021	7	1	25.81	Yes	32.44	6.63
737	3/6/2021	7	2	28.84	Yes	32.44	3.60
738	3/6/2021	7	3	27.83	Yes	32.44	4.61
739	3/6/2021	7	4	25.62	Yes	32.44	6.82
740	3/6/2021	7	5	26.37	Yes	32.44	6.07
741	3/6/2021	7	6	26.45	Yes	32.44	5.99
742	3/6/2021	7	7	26.07	Yes	32.44	6.37
743	3/6/2021	7	8	23.55	Yes	32.44	8.89
744	3/6/2021	7	9	23.45	Yes	32.44	8.99
745	3/8/2021	18	1	23.30	Yes	35.74	12.44
746	3/8/2021	18	2	23.30	Yes	35.74	12.44
747	3/8/2021	18	3	23.93	Yes	35.74	11.81
748	3/8/2021	18	4	31.81	Yes	35.74	3.93
749	3/8/2021	18	5	34.57	Yes	35.74	1.17
750	3/8/2021	18	6	36.31	Yes	35.74	-0.57
751	3/8/2021	18	7	41.90	Yes	35.74	-6.16
752	3/8/2021	18	8	52.09	Yes	35.74	-16.35
753	3/8/2021	18	9	79.00	Yes	35.74	-43.26
754	3/8/2021	18	10	99.54	Yes	35.74	-63.80
755	3/8/2021	18	11	130.00	Yes	35.74	-94.26
756	3/8/2021	18	12	150.00	Yes	35.74	-114.26

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757	3/8/2021	19	1	125.00	Yes	35.74	-89.26
758	3/8/2021	19	2	80.00	Yes	35.74	-44.26
759	3/8/2021	19	3	62.40	Yes	35.74	-26.66
760	3/8/2021	19	4	72.00	Yes	35.74	-36.26
761	3/8/2021	19	5	80.00	Yes	35.74	-44.26
762	3/8/2021	19	6	64.71	Yes	35.74	-28.97
763	3/8/2021	19	7	51.99	Yes	35.74	-16.25
764	3/8/2021	19	8	51.99	Yes	35.74	-16.25
765	3/8/2021	19	9	55.74	Yes	35.74	-20.00
766	3/8/2021	19	10	49.77	Yes	35.74	-14.03
767	3/8/2021	19	11	49.77	Yes	35.74	-14.03
768	3/8/2021	19	12	51.99	Yes	35.74	-16.25
769	3/8/2021	20	1	50.63	Yes	35.74	-14.89
770	3/8/2021	20	2	50.63	Yes	35.74	-14.89
771	3/8/2021	20	3	47.99	Yes	35.74	-12.25
772	3/8/2021	20	4	45.99	Yes	35.74	-10.25
773	3/8/2021	20	5	45.99	Yes	35.74	-10.25
774	3/8/2021	20	6	45.12	Yes	35.74	-9.38
775	3/8/2021	20	7	45.07	Yes	35.74	-9.33
776	3/8/2021	20	8	45.99	Yes	35.74	-10.25
777	3/8/2021	20	9	45.48	Yes	35.74	-9.74
778	3/8/2021	20	10	44.23	Yes	35.74	-8.49
779	3/8/2021	20	11	44.67	Yes	35.74	-8.93
780	3/8/2021	20	12	41.82	Yes	35.74	-6.08
781	3/8/2021	21	1	64.98	Yes	35.74	-29.24
782	3/8/2021	21	2	56.51	Yes	35.74	-20.77
783	3/8/2021	21	3	64.88	Yes	35.74	-29.14
784	3/8/2021	21	4	63.37	Yes	35.74	-27.63
785	3/8/2021	21	5	51.85	Yes	35.74	-16.11
786	3/8/2021	21	6	46.50	Yes	35.74	-10.76
787	3/8/2021	21	7	46.68	Yes	35.74	-10.94
788	3/8/2021	21	8	46.81	Yes	35.74	-11.07
789	3/8/2021	21	9	42.80	Yes	35.74	-7.06
790	3/8/2021	21	10	40.00	Yes	35.74	-4.26
791	3/8/2021	21	11	39.79	Yes	35.74	-4.05
792	3/8/2021	21	12	40.00	Yes	35.74	-4.26
793	3/8/2021	22	1	46.52	Yes	35.74	-10.78
794	3/8/2021	22	2	46.45	Yes	35.74	-10.71

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795	3/8/2021	22	3	44.82	Yes	35.74	-9.08
796	3/8/2021	22	4	42.79	Yes	35.74	-7.05
797	3/8/2021	22	5	41.90	Yes	35.74	-6.16
798	3/8/2021	22	6	39.98	Yes	35.74	-4.24
799	3/8/2021	22	7	40.81	Yes	35.74	-5.07
800	3/8/2021	22	8	37.43	Yes	35.74	-1.69
801	3/8/2021	22	9	37.43	Yes	35.74	-1.69
802	3/8/2021	22	10	31.28	Yes	35.74	4.46
803	3/8/2021	22	11	33.57	Yes	35.74	2.17
804	3/8/2021	22	12	31.68	Yes	35.74	4.06
805	3/8/2021	23	1	42.64	Yes	35.74	-6.90
806	3/8/2021	23	2	41.80	Yes	35.74	-6.06
807	3/8/2021	23	3	39.81	Yes	35.74	-4.07
808	3/8/2021	23	4	39.81	Yes	35.74	-4.07
809	3/8/2021	23	5	38.01	Yes	35.74	-2.27
810	3/8/2021	23	6	35.90	Yes	35.74	-0.16
811	3/8/2021	23	7	34.29	Yes	35.74	1.45
812	3/8/2021	23	8	31.95	Yes	35.74	3.79
813	3/8/2021	23	9	30.90	Yes	35.74	4.84
814	3/8/2021	23	10	29.37	Yes	35.74	6.37
815	3/8/2021	23	11	29.15	Yes	35.74	6.59
816	3/8/2021	23	12	28.89	Yes	35.74	6.85
817	3/8/2021	24	1	30.75	Yes	35.74	4.99
818	3/8/2021	24	2	30.77	Yes	35.74	4.97
819	3/8/2021	24	3	31.01	Yes	35.74	4.73
820	3/8/2021	24	4	30.84	Yes	35.74	4.90
821	3/8/2021	24	5	30.90	Yes	35.74	4.84
822	3/8/2021	24	6	30.77	Yes	35.74	4.97
823	3/8/2021	24	7	28.94	Yes	35.74	6.80
824	3/8/2021	24	8	28.66	Yes	35.74	7.08
825	3/8/2021	24	9	28.59	Yes	35.74	7.15
826	3/8/2021	24	10	27.94	Yes	35.74	7.80
827	3/8/2021	24	11	27.42	Yes	35.74	8.32
828	3/8/2021	24	12	27.22	Yes	35.74	8.52
829	3/9/2021	1	1	28.94	Yes	35.75	6.81
830	3/9/2021	1	2	30.40	Yes	35.75	5.35
831	3/9/2021	1	3	30.00	Yes	35.75	5.75
832	3/9/2021	1	4	26.97	Yes	35.75	8.78

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833	3/9/2021	1	5	27.11	Yes	35.75	8.64
834	3/9/2021	1	6	27.35	Yes	35.75	8.40
835	3/9/2021	1	7	30.00	Yes	35.75	5.75
836	3/9/2021	1	8	29.18	Yes	35.75	6.57
837	3/9/2021	1	9	29.40	Yes	35.75	6.35
838	3/9/2021	1	10	31.10	Yes	35.75	4.65
839	3/9/2021	1	11	30.40	Yes	35.75	5.35
840	3/9/2021	1	12	30.00	Yes	35.75	5.75
841	3/9/2021	2	1	31.31	Yes	35.75	4.44
842	3/9/2021	2	2	31.43	Yes	35.75	4.32
843	3/9/2021	2	3	31.43	Yes	35.75	4.32
844	3/9/2021	2	4	31.59	Yes	35.75	4.16
845	3/9/2021	2	5	31.31	Yes	35.75	4.44
846	3/9/2021	2	6	31.10	Yes	35.75	4.65
847	3/9/2021	2	7	27.46	Yes	35.75	8.29
848	3/9/2021	2	8	27.46	Yes	35.75	8.29
849	3/9/2021	2	9	28.99	Yes	35.75	6.76
850	3/9/2021	2	10	27.48	Yes	35.75	8.27
851	3/9/2021	2	11	27.43	Yes	35.75	8.32
852	3/9/2021	2	12	27.43	Yes	35.75	8.32
853	3/9/2021	3	1	31.10	Yes	35.75	4.65
854	3/9/2021	3	2	30.83	Yes	35.75	4.92
855	3/9/2021	3	3	30.40	Yes	35.75	5.35
856	3/9/2021	3	4	30.35	Yes	35.75	5.40
857	3/9/2021	3	5	30.00	Yes	35.75	5.75
858	3/9/2021	3	6	30.00	Yes	35.75	5.75
859	3/9/2021	3	7	27.19	Yes	35.75	8.56
860	3/9/2021	3	8	27.20	Yes	35.75	8.55
861	3/9/2021	3	9	27.19	Yes	35.75	8.56
862	3/9/2021	3	10	27.26	Yes	35.75	8.49
863	3/9/2021	3	11	27.22	Yes	35.75	8.53
864	3/9/2021	3	12	27.08	Yes	35.75	8.67
865	3/9/2021	4	1	29.18	Yes	35.75	6.57
866	3/9/2021	4	2	29.27	Yes	35.75	6.48
867	3/9/2021	4	3	29.31	Yes	35.75	6.44
868	3/9/2021	4	4	30.35	Yes	35.75	5.40
869	3/9/2021	4	5	30.35	Yes	35.75	5.40
870	3/9/2021	4	6	30.90	Yes	35.75	4.85

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871	3/9/2021	4	7	28.37	Yes	35.75	7.38
872	3/9/2021	4	8	28.33	Yes	35.75	7.42
873	3/9/2021	4	9	29.19	Yes	35.75	6.56
874	3/9/2021	4	10	28.37	Yes	35.75	7.38
875	3/9/2021	4	11	30.77	Yes	35.75	4.98
876	3/9/2021	4	12	30.82	Yes	35.75	4.93
877	3/9/2021	5	1	31.59	Yes	35.75	4.16
878	3/9/2021	5	2	33.21	Yes	35.75	2.54
879	3/9/2021	5	3	33.21	Yes	35.75	2.54
880	3/9/2021	5	4	34.27	Yes	35.75	1.48
881	3/9/2021	5	5	34.74	Yes	35.75	1.01
882	3/9/2021	5	6	38.34	Yes	35.75	-2.59
883	3/9/2021	5	7	38.68	Yes	35.75	-2.93
884	3/9/2021	5	8	38.78	Yes	35.75	-3.03
885	3/9/2021	5	9	39.81	Yes	35.75	-4.06
886	3/9/2021	5	10	39.81	Yes	35.75	-4.06
887	3/9/2021	5	11	39.81	Yes	35.75	-4.06
888	3/9/2021	5	12	40.00	Yes	35.75	-4.25
889	3/9/2021	6	1	33.02	Yes	35.75	2.73
890	3/9/2021	6	2	32.70	Yes	35.75	3.05
891	3/9/2021	6	3	33.02	Yes	35.75	2.73
892	3/9/2021	6	4	33.02	Yes	35.75	2.73
893	3/9/2021	6	5	33.02	Yes	35.75	2.73
894	3/9/2021	6	6	35.75	Yes	35.75	0.00
895	3/9/2021	6	7	36.92	Yes	35.75	-1.17
896	3/9/2021	6	8	40.73	Yes	35.75	-4.98
897	3/9/2021	6	9	40.75	Yes	35.75	-5.00
898	3/9/2021	6	10	40.00	Yes	35.75	-4.25
899	3/9/2021	6	11	39.81	Yes	35.75	-4.06
900	3/9/2021	6	12	40.75	Yes	35.75	-5.00
901	3/9/2021	7	1	34.25	Yes	35.75	1.50
902	3/9/2021	7	2	33.02	Yes	35.75	2.73
903	3/9/2021	7	3	33.02	Yes	35.75	2.73
904	3/9/2021	7	4	31.60	Yes	35.75	4.15
905	3/9/2021	7	5	32.81	Yes	35.75	2.94
906	3/9/2021	7	6	31.89	Yes	35.75	3.86
907	3/9/2021	7	7	31.43	Yes	35.75	4.32
908	3/9/2021	7	8	29.66	Yes	35.75	6.09

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909	3/9/2021	7	9	28.94	Yes	35.75	6.81
910	3/9/2021	7	10	27.78	Yes	35.75	7.97
911	3/9/2021	7	11	27.99	Yes	35.75	7.76
912	3/9/2021	7	12	30.40	Yes	35.75	5.35
913	3/9/2021	8	1	34.65	Yes	31.71	-2.94
914	3/9/2021	8	2	35.34	Yes	31.71	-3.63
915	3/9/2021	8	3	34.35	Yes	31.71	-2.64
916	3/9/2021	17	1	-0.45	Yes	30.82	31.27
917	3/9/2021	17	2	-0.72	Yes	30.82	31.54
918	3/9/2021	17	3	-0.92	Yes	30.82	31.74
919	3/9/2021	17	4	-1.52	Yes	30.82	32.34
920	3/9/2021	17	5	-1.91	Yes	30.82	32.73
921	3/9/2021	17	6	0.64	Yes	30.82	30.18
922	3/9/2021	17	7	1.44	Yes	30.82	29.38
923	3/9/2021	17	8	7.93	Yes	30.82	22.89
924	3/9/2021	17	9	8.89	Yes	30.82	21.93
925	3/9/2021	17	10	27.37	Yes	30.82	3.45
926	3/9/2021	17	11	52.50	Yes	30.82	-21.68
927	3/9/2021	17	12	43.07	Yes	30.82	-12.25
928	3/9/2021	18	1	25.00	Yes	30.82	5.82
929	3/9/2021	18	2	23.00	Yes	30.82	7.82
930	3/9/2021	18	3	23.07	Yes	30.82	7.75
931	3/9/2021	18	4	26.30	Yes	30.82	4.52
932	3/9/2021	18	5	27.72	Yes	30.82	3.10
933	3/9/2021	18	6	30.30	Yes	30.82	0.52
934	3/9/2021	18	7	34.00	Yes	30.82	-3.18
935	3/9/2021	18	8	34.78	Yes	30.82	-3.96
936	3/9/2021	18	9	36.19	Yes	30.82	-5.37
937	3/9/2021	18	10	36.92	Yes	30.82	-6.10
938	3/9/2021	18	11	46.45	Yes	30.82	-15.63
939	3/9/2021	18	12	41.10	Yes	30.82	-10.28
940	3/9/2021	19	1	31.83	Yes	30.82	-1.01
941	3/9/2021	19	2	31.50	Yes	30.82	-0.68
942	3/9/2021	19	3	32.52	Yes	30.82	-1.70
943	3/9/2021	19	4	36.39	Yes	30.82	-5.57
944	3/9/2021	19	5	36.51	Yes	30.82	-5.69
945	3/9/2021	19	6	36.52	Yes	30.82	-5.70
946	3/9/2021	19	7	35.44	Yes	30.82	-4.62

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947	3/9/2021	19	8	35.09	Yes	30.82	-4.27
948	3/9/2021	19	9	32.85	Yes	30.82	-2.03
949	3/9/2021	19	10	31.79	Yes	30.82	-0.97
950	3/9/2021	19	11	32.29	Yes	30.82	-1.47
951	3/9/2021	19	12	31.81	Yes	30.82	-0.99
952	3/9/2021	20	1	35.26	Yes	30.82	-4.44
953	3/9/2021	20	2	35.05	Yes	30.82	-4.23
954	3/9/2021	20	3	33.85	Yes	30.82	-3.03
955	3/9/2021	20	4	31.53	Yes	30.82	-0.71
956	3/9/2021	20	5	30.85	Yes	30.82	-0.03
957	3/9/2021	20	6	30.59	Yes	30.82	0.23
958	3/9/2021	20	7	30.88	Yes	30.82	-0.06
959	3/9/2021	20	8	30.88	Yes	30.82	-0.06
960	3/9/2021	20	9	31.55	Yes	30.82	-0.73
961	3/9/2021	20	10	30.82	Yes	30.82	0.00
962	3/9/2021	20	11	30.82	Yes	30.82	0.00
963	3/9/2021	20	12	29.87	Yes	30.82	0.95
964	3/9/2021	21	1	34.98	Yes	30.82	-4.16
965	3/9/2021	21	2	35.83	Yes	30.82	-5.01
966	3/9/2021	21	3	35.64	Yes	30.82	-4.82
967	3/9/2021	21	4	35.59	Yes	30.82	-4.77
968	3/9/2021	21	5	36.93	Yes	30.82	-6.11
969	3/9/2021	21	6	37.60	Yes	30.82	-6.78
970	3/9/2021	21	7	37.85	Yes	30.82	-7.03
971	3/9/2021	21	8	38.20	Yes	30.82	-7.38
972	3/9/2021	21	9	39.38	Yes	30.82	-8.56
973	3/9/2021	21	10	50.78	Yes	30.82	-19.96
974	3/9/2021	21	11	45.23	Yes	30.82	-14.41
975	3/9/2021	21	12	41.40	Yes	30.82	-10.58
976	3/9/2021	22	1	79.25	Yes	30.82	-48.43
977	3/9/2021	22	2	66.11	Yes	30.82	-35.29
978	3/9/2021	22	3	89.31	Yes	30.82	-58.49
979	3/9/2021	22	4	46.25	Yes	30.82	-15.43
980	3/9/2021	22	5	62.87	Yes	30.82	-32.05
981	3/9/2021	22	6	38.38	Yes	30.82	-7.56
982	3/9/2021	22	7	37.65	Yes	30.82	-6.83
983	3/9/2021	22	8	37.57	Yes	30.82	-6.75
984	3/9/2021	22	9	37.17	Yes	30.82	-6.35



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985	3/9/2021	22	10	38.37	Yes	30.82	-7.55
986	3/9/2021	22	11	36.80	Yes	30.82	-5.98
987	3/9/2021	22	12	38.73	Yes	30.82	-7.91
988	3/9/2021	23	1	45.43	Yes	30.82	-14.61
989	3/9/2021	23	2	46.31	Yes	30.82	-15.49
990	3/9/2021	23	3	49.13	Yes	30.82	-18.31
991	3/9/2021	23	4	45.00	Yes	30.82	-14.18
992	3/9/2021	23	5	44.96	Yes	30.82	-14.14
993	3/9/2021	23	6	41.71	Yes	30.82	-10.89
994	3/9/2021	23	7	41.32	Yes	30.82	-10.50
995	3/9/2021	23	8	35.47	Yes	30.82	-4.65
996	3/9/2021	23	9	35.39	Yes	30.82	-4.57
997	3/9/2021	23	10	34.88	Yes	30.82	-4.06
998	3/9/2021	23	11	34.30	Yes	30.82	-3.48
999	3/9/2021	23	12	34.30	Yes	30.82	-3.48
1000	3/9/2021	24	1	37.59	Yes	30.82	-6.77
1001	3/9/2021	24	2	35.58	Yes	30.82	-4.76
1002	3/9/2021	24	3	35.48	Yes	30.82	-4.66
1003	3/9/2021	24	4	35.17	Yes	30.82	-4.35
1004	3/9/2021	24	5	35.17	Yes	30.82	-4.35
1005	3/9/2021	24	6	35.17	Yes	30.82	-4.35
1006	3/9/2021	24	7	33.52	Yes	30.82	-2.70
1007	3/9/2021	24	8	31.98	Yes	30.82	-1.16
1008	3/9/2021	24	9	31.98	Yes	30.82	-1.16
1009	3/9/2021	24	10	31.34	Yes	30.82	-0.52
1010	3/9/2021	24	11	33.50	Yes	30.82	-2.68
1011	3/9/2021	24	12	33.61	Yes	30.82	-2.79
1012	3/10/2021	1	1	32.46	Yes	30.82	-1.64
1013	3/10/2021	1	2	34.24	Yes	30.82	-3.42
1014	3/10/2021	1	3	33.38	Yes	30.82	-2.56
1015	3/10/2021	1	4	31.36	Yes	30.82	-0.54
1016	3/10/2021	1	5	31.45	Yes	30.82	-0.63
1017	3/10/2021	1	6	31.36	Yes	30.82	-0.54
1018	3/10/2021	1	7	32.04	Yes	30.82	-1.22
1019	3/10/2021	1	8	31.70	Yes	30.82	-0.88
1020	3/10/2021	1	9	31.60	Yes	30.82	-0.78
1021	3/10/2021	1	10	31.29	Yes	30.82	-0.47
1022	3/10/2021	1	11	31.10	Yes	30.82	-0.28

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1023	3/10/2021	1	12	30.74	Yes	30.82	0.08
1024	3/10/2021	2	1	31.07	Yes	30.82	-0.25
1025	3/10/2021	2	2	31.07	Yes	30.82	-0.25
1026	3/10/2021	2	3	30.52	Yes	30.82	0.30
1027	3/10/2021	2	4	30.61	Yes	30.82	0.21
1028	3/10/2021	2	5	31.10	Yes	30.82	-0.28
1029	3/10/2021	2	6	31.10	Yes	30.82	-0.28
1030	3/10/2021	2	7	31.12	Yes	30.82	-0.30
1031	3/10/2021	2	8	31.10	Yes	30.82	-0.28
1032	3/10/2021	2	9	31.09	Yes	30.82	-0.27
1033	3/10/2021	2	10	33.12	Yes	30.82	-2.30
1034	3/10/2021	2	11	31.91	Yes	30.82	-1.09
1035	3/10/2021	2	12	33.45	Yes	30.82	-2.63
1036	3/10/2021	3	1	34.38	Yes	30.82	-3.56
1037	3/10/2021	3	2	34.38	Yes	30.82	-3.56
1038	3/10/2021	3	3	34.38	Yes	30.82	-3.56
1039	3/10/2021	3	4	34.38	Yes	30.82	-3.56
1040	3/10/2021	3	5	38.79	Yes	30.82	-7.97
1041	3/10/2021	3	6	41.66	Yes	30.82	-10.84
1042	3/10/2021	3	7	37.97	Yes	30.82	-7.15
1043	3/10/2021	3	8	33.34	Yes	30.82	-2.52
1044	3/10/2021	3	9	33.34	Yes	30.82	-2.52
1045	3/10/2021	3	10	34.32	Yes	30.82	-3.50
1046	3/10/2021	3	11	34.30	Yes	30.82	-3.48
1047	3/10/2021	3	12	32.54	Yes	30.82	-1.72
1048	3/10/2021	4	1	34.26	Yes	30.82	-3.44
1049	3/10/2021	4	2	32.99	Yes	30.82	-2.17
1050	3/10/2021	4	3	34.36	Yes	30.82	-3.54
1051	3/10/2021	4	4	34.41	Yes	30.82	-3.59
1052	3/10/2021	4	5	34.41	Yes	30.82	-3.59
1053	3/10/2021	4	6	34.47	Yes	30.82	-3.65
1054	3/10/2021	4	7	34.53	Yes	30.82	-3.71
1055	3/10/2021	4	8	35.68	Yes	30.82	-4.86
1056	3/10/2021	4	9	35.52	Yes	30.82	-4.70
1057	3/10/2021	4	10	37.21	Yes	30.82	-6.39
1058	3/10/2021	4	11	37.42	Yes	30.82	-6.60
1059	3/10/2021	4	12	35.51	Yes	30.82	-4.69
1060	3/10/2021	5	1	33.83	Yes	30.82	-3.01

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1061	3/10/2021	5	2	34.88	Yes	30.82	-4.06
1062	3/10/2021	5	3	31.30	Yes	30.82	-0.48
1063	3/10/2021	5	4	34.52	Yes	30.82	-3.70
1064	3/10/2021	5	5	33.98	Yes	30.82	-3.16
1065	3/10/2021	5	6	33.99	Yes	30.82	-3.17
1066	3/10/2021	5	7	34.23	Yes	30.82	-3.41
1067	3/10/2021	5	8	34.71	Yes	30.82	-3.89
1068	3/10/2021	5	9	37.95	Yes	30.82	-7.13
1069	3/10/2021	5	10	43.35	Yes	30.82	-12.53
1070	3/10/2021	5	11	41.83	Yes	30.82	-11.01
1071	3/10/2021	5	12	36.98	Yes	30.82	-6.16
1072	3/10/2021	6	1	38.07	Yes	30.82	-7.25
1073	3/10/2021	6	2	37.08	Yes	30.82	-6.26
1074	3/10/2021	6	3	37.54	Yes	30.82	-6.72
1075	3/10/2021	6	4	37.60	Yes	30.82	-6.78
1076	3/10/2021	6	5	38.96	Yes	30.82	-8.14
1077	3/10/2021	6	6	39.00	Yes	30.82	-8.18
1078	3/10/2021	6	7	38.07	Yes	30.82	-7.25
1079	3/10/2021	6	8	39.00	Yes	30.82	-8.18
1080	3/10/2021	6	9	38.96	Yes	30.82	-8.14
1081	3/10/2021	6	10	45.00	Yes	30.82	-14.18
1082	3/10/2021	6	11	49.00	Yes	30.82	-18.18
1083	3/10/2021	6	12	53.34	Yes	30.82	-22.52
1084	3/10/2021	7	1	45.79	Yes	30.82	-14.97
1085	3/10/2021	7	2	40.45	Yes	30.82	-9.63
1086	3/10/2021	7	3	39.51	Yes	30.82	-8.69
1087	3/10/2021	7	4	34.72	Yes	30.82	-3.90
1088	3/10/2021	7	5	34.72	Yes	30.82	-3.90
1089	3/10/2021	7	6	34.72	Yes	30.82	-3.90
1090	3/10/2021	7	7	34.72	Yes	30.82	-3.90
1091	3/10/2021	7	8	34.72	Yes	30.82	-3.90
1092	3/10/2021	7	9	34.72	Yes	30.82	-3.90
1093	3/10/2021	7	10	41.47	Yes	30.82	-10.65
1094	3/10/2021	7	11	38.10	Yes	30.82	-7.28
1095	3/10/2021	7	12	39.11	Yes	30.82	-8.29
1096	3/11/2021	8	1	71.69	Yes	33.54	-38.15
1097	3/11/2021	8	2	57.97	Yes	33.54	-24.43
1098	3/11/2021	8	3	44.69	Yes	33.54	-11.15

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1099	3/11/2021	8	7	33.91	Yes	33.54	-0.37
1100	3/11/2021	8	8	31.01	Yes	33.54	2.53
1101	3/11/2021	8	9	32.17	Yes	33.54	1.37
1102	3/11/2021	8	10	27.75	Yes	33.54	5.79
1103	3/11/2021	8	11	27.75	Yes	33.54	5.79
1104	3/11/2021	8	12	29.00	Yes	33.54	4.54
1105	3/11/2021	9	1	34.53	Yes	33.54	-0.99
1106	3/11/2021	9	2	35.84	Yes	33.54	-2.30
1107	3/11/2021	9	3	32.90	Yes	33.54	0.64
1108	3/11/2021	9	4	33.47	Yes	33.54	0.07
1109	3/11/2021	9	5	32.99	Yes	33.54	0.55
1110	3/11/2021	9	6	31.29	Yes	33.54	2.25
1111	3/11/2021	9	7	27.89	Yes	33.54	5.65
1112	3/11/2021	9	8	27.36	Yes	33.54	6.18
1113	3/11/2021	9	9	28.86	Yes	33.54	4.68
1114	3/11/2021	9	10	26.06	Yes	33.54	7.48
1115	3/11/2021	9	11	26.42	Yes	33.54	7.12
1116	3/11/2021	9	12	23.62	Yes	33.54	9.92
1117	3/11/2021	10	1	24.17	Yes	33.54	9.37
1118	3/11/2021	10	2	27.83	Yes	33.54	5.71
1119	3/11/2021	10	3	22.55	Yes	33.54	10.99
1120	3/11/2021	10	4	15.52	Yes	33.54	18.02
1121	3/11/2021	10	5	22.04	Yes	33.54	11.50
1122	3/11/2021	10	6	21.75	Yes	33.54	11.79
1123	3/11/2021	10	7	24.16	Yes	33.54	9.38
1124	3/11/2021	10	8	23.71	Yes	33.54	9.83
1125	3/11/2021	10	9	21.35	Yes	33.54	12.19
1126	3/11/2021	10	10	8.39	Yes	33.54	25.15
1127	3/11/2021	10	11	16.26	Yes	33.54	17.28
1128	3/11/2021	10	12	13.55	Yes	33.54	19.99
1129	3/11/2021	11	1	7.28	Yes	33.54	26.26
1130	3/11/2021	11	2	16.69	Yes	33.54	16.85
1131	3/11/2021	11	3	-0.35	Yes	33.54	33.89
1132	3/11/2021	11	4	-0.29	Yes	33.54	33.83
1133	3/11/2021	11	5	-0.27	Yes	33.54	33.81
1134	3/11/2021	11	6	-2.22	Yes	33.54	35.76
1135	3/11/2021	11	7	-2.06	Yes	33.54	35.60
1136	3/11/2021	11	8	-2.10	Yes	33.54	35.64

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1137	3/11/2021	11	9	-2.14	Yes	33.54	35.68
1138	3/11/2021	11	10	-2.08	Yes	33.54	35.62
1139	3/11/2021	11	11	-2.07	Yes	33.54	35.61
1140	3/11/2021	11	12	4.09	Yes	33.54	29.45
1141	3/11/2021	12	1	23.78	Yes	33.54	9.76
1142	3/11/2021	12	2	18.07	Yes	33.54	15.47
1143	3/11/2021	12	3	23.06	Yes	33.54	10.48
1144	3/11/2021	12	4	23.56	Yes	33.54	9.98
1145	3/11/2021	12	5	6.00	Yes	33.54	27.54
1146	3/11/2021	12	6	10.84	Yes	33.54	22.70
1147	3/11/2021	12	7	-0.30	Yes	33.54	33.84
1148	3/11/2021	12	8	-0.32	Yes	33.54	33.86
1149	3/11/2021	12	9	-0.31	Yes	33.54	33.85
1150	3/11/2021	12	12	0.14	Yes	33.54	33.40
1151	3/11/2021	13	1	4.81	Yes	33.54	28.73
1152	3/11/2021	13	2	19.01	Yes	33.54	14.53
1153	3/11/2021	13	3	20.22	Yes	33.54	13.32
1154	3/11/2021	13	4	19.93	Yes	33.54	13.61
1155	3/11/2021	13	5	19.04	Yes	33.54	14.50
1156	3/11/2021	13	6	18.47	Yes	33.54	15.07
1157	3/11/2021	13	7	17.74	Yes	33.54	15.80
1158	3/11/2021	13	8	18.13	Yes	33.54	15.41
1159	3/11/2021	13	9	19.46	Yes	33.54	14.08
1160	3/11/2021	13	10	21.83	Yes	33.54	11.71
1161	3/11/2021	13	11	25.35	Yes	33.54	8.19
1162	3/11/2021	13	12	23.37	Yes	33.54	10.17
1163	3/11/2021	14	1	22.79	Yes	33.54	10.75
1164	3/11/2021	14	2	21.40	Yes	33.54	12.14
1165	3/11/2021	14	3	22.79	Yes	33.54	10.75
1166	3/11/2021	14	4	20.16	Yes	33.54	13.38
1167	3/11/2021	14	5	19.69	Yes	33.54	13.85
1168	3/11/2021	14	7	21.68	Yes	33.54	11.86
1169	3/11/2021	14	8	25.54	Yes	33.54	8.00
1170	3/11/2021	14	9	25.48	Yes	33.54	8.06
1171	3/11/2021	14	10	25.09	Yes	33.54	8.45
1172	3/11/2021	14	11	22.07	Yes	33.54	11.47
1173	3/11/2021	14	12	23.74	Yes	33.54	9.80
1174	3/11/2021	15	1	24.14	Yes	33.54	9.40

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1175	3/11/2021	15	2	31.97	Yes	33.54	1.57
1176	3/11/2021	15	3	19.44	Yes	33.54	14.10
1177	3/11/2021	15	4	27.83	Yes	33.54	5.71
1178	3/11/2021	15	5	26.37	Yes	33.54	7.17
1179	3/11/2021	15	6	21.55	Yes	33.54	11.99
1180	3/11/2021	15	7	27.34	Yes	33.54	6.20
1181	3/11/2021	15	8	27.87	Yes	33.54	5.67
1182	3/11/2021	15	9	21.92	Yes	33.54	11.62
1183	3/11/2021	15	10	26.81	Yes	33.54	6.73
1184	3/11/2021	15	11	11.24	Yes	33.54	22.30
1185	3/11/2021	15	12	25.40	Yes	33.54	8.14
1186	3/11/2021	16	1	-0.54	Yes	33.54	34.08
1187	3/11/2021	16	2	10.24	Yes	33.54	23.30
1188	3/11/2021	16	3	7.96	Yes	33.54	25.58
1189	3/11/2021	16	4	13.39	Yes	33.54	20.15
1190	3/11/2021	16	5	6.69	Yes	33.54	26.85
1191	3/11/2021	16	6	13.51	Yes	33.54	20.03
1192	3/11/2021	16	7	28.21	Yes	33.54	5.33
1193	3/11/2021	16	8	27.52	Yes	33.54	6.02
1194	3/11/2021	16	9	30.11	Yes	33.54	3.43
1195	3/11/2021	16	10	32.57	Yes	33.54	0.97
1196	3/11/2021	16	11	28.79	Yes	33.54	4.75
1197	3/11/2021	16	12	27.70	Yes	33.54	5.84
1198	3/11/2021	17	1	22.39	Yes	33.54	11.15
1199	3/11/2021	17	2	24.41	Yes	33.54	9.13
1200	3/11/2021	17	3	25.44	Yes	33.54	8.10
1201	3/11/2021	17	4	27.09	Yes	33.54	6.45
1202	3/11/2021	17	5	28.62	Yes	33.54	4.92
1203	3/11/2021	17	6	32.65	Yes	33.54	0.89
1204	3/11/2021	17	7	31.80	Yes	33.54	1.74
1205	3/11/2021	17	8	40.24	Yes	33.54	-6.70
1206	3/11/2021	17	9	40.58	Yes	33.54	-7.04
1207	3/11/2021	17	10	45.77	Yes	33.54	-12.23
1208	3/11/2021	17	11	44.91	Yes	33.54	-11.37
1209	3/11/2021	17	12	40.47	Yes	33.54	-6.93
1210	3/11/2021	18	1	29.72	Yes	33.54	3.82
1211	3/11/2021	18	2	28.76	Yes	33.54	4.78
1212	3/11/2021	18	3	28.47	Yes	33.54	5.07

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1213	3/11/2021	18	4	30.73	Yes	33.54	2.81
1214	3/11/2021	18	5	31.64	Yes	33.54	1.90
1215	3/11/2021	18	6	32.75	Yes	33.54	0.79
1216	3/11/2021	18	7	34.17	Yes	33.54	-0.63
1217	3/11/2021	18	8	40.54	Yes	33.54	-7.00
1218	3/11/2021	18	9	42.86	Yes	33.54	-9.32
1219	3/11/2021	18	10	43.17	Yes	33.54	-9.63
1220	3/11/2021	18	11	48.78	Yes	33.54	-15.24
1221	3/11/2021	18	12	48.00	Yes	33.54	-14.46
1222	3/11/2021	19	1	42.27	Yes	33.54	-8.73
1223	3/11/2021	19	2	37.89	Yes	33.54	-4.35
1224	3/11/2021	19	3	40.93	Yes	33.54	-7.39
1225	3/11/2021	19	4	37.65	Yes	33.54	-4.11
1226	3/11/2021	19	5	37.05	Yes	33.54	-3.51
1227	3/11/2021	19	6	37.05	Yes	33.54	-3.51
1228	3/11/2021	19	7	37.11	Yes	33.54	-3.57
1229	3/11/2021	19	8	36.27	Yes	33.54	-2.73
1230	3/11/2021	19	9	36.27	Yes	33.54	-2.73
1231	3/11/2021	19	10	36.24	Yes	33.54	-2.70
1232	3/11/2021	19	11	37.22	Yes	33.54	-3.68
1233	3/11/2021	19	12	38.89	Yes	33.54	-5.35
1234	3/11/2021	20	1	46.05	Yes	33.54	-12.51
1235	3/11/2021	20	2	46.86	Yes	33.54	-13.32
1236	3/11/2021	20	3	45.99	Yes	33.54	-12.45
1237	3/11/2021	20	4	48.18	Yes	33.54	-14.64
1238	3/11/2021	20	5	46.50	Yes	33.54	-12.96
1239	3/11/2021	20	6	43.94	Yes	33.54	-10.40
1240	3/11/2021	20	7	43.94	Yes	33.54	-10.40
1241	3/11/2021	20	8	43.94	Yes	33.54	-10.40
1242	3/11/2021	20	9	43.94	Yes	33.54	-10.40
1243	3/11/2021	20	10	43.94	Yes	33.54	-10.40
1244	3/11/2021	20	11	43.94	Yes	33.54	-10.40
1245	3/11/2021	20	12	43.94	Yes	33.54	-10.40
1246	3/11/2021	21	1	46.93	Yes	33.54	-13.39
1247	3/11/2021	21	2	47.07	Yes	33.54	-13.53
1248	3/11/2021	21	3	45.95	Yes	33.54	-12.41
1249	3/11/2021	21	4	53.46	Yes	33.54	-19.92
1250	3/11/2021	21	5	51.77	Yes	33.54	-18.23

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1251	3/11/2021	21	6	44.74	Yes	33.54	-11.20
1252	3/11/2021	21	7	43.87	Yes	33.54	-10.33
1253	3/11/2021	21	8	42.64	Yes	33.54	-9.10
1254	3/11/2021	21	9	42.64	Yes	33.54	-9.10
1255	3/11/2021	21	10	41.24	Yes	33.54	-7.70
1256	3/11/2021	21	11	41.24	Yes	33.54	-7.70
1257	3/11/2021	21	12	41.47	Yes	33.54	-7.93
1258	3/11/2021	22	1	45.21	Yes	33.54	-11.67
1259	3/11/2021	22	2	51.89	Yes	33.54	-18.35
1260	3/11/2021	22	3	50.21	Yes	33.54	-16.67
1261	3/11/2021	22	4	46.83	Yes	33.54	-13.29
1262	3/11/2021	22	5	46.42	Yes	33.54	-12.88
1263	3/11/2021	22	6	44.52	Yes	33.54	-10.98
1264	3/11/2021	22	7	52.48	Yes	33.54	-18.94
1265	3/11/2021	22	8	42.65	Yes	33.54	-9.11
1266	3/11/2021	22	9	55.16	Yes	33.54	-21.62
1267	3/11/2021	22	10	42.35	Yes	33.54	-8.81
1268	3/11/2021	22	11	40.62	Yes	33.54	-7.08
1269	3/11/2021	22	12	40.62	Yes	33.54	-7.08
1270	3/11/2021	23	1	50.84	Yes	33.54	-17.30
1271	3/11/2021	23	2	48.02	Yes	33.54	-14.48
1272	3/11/2021	23	3	49.32	Yes	33.54	-15.78
1273	3/11/2021	23	4	42.78	Yes	33.54	-9.24
1274	3/11/2021	23	5	40.94	Yes	33.54	-7.40
1275	3/11/2021	23	6	40.77	Yes	33.54	-7.23
1276	3/11/2021	23	7	40.38	Yes	33.54	-6.84
1277	3/11/2021	23	8	40.46	Yes	33.54	-6.92
1278	3/11/2021	23	9	40.38	Yes	33.54	-6.84
1279	3/11/2021	23	10	37.66	Yes	33.54	-4.12
1280	3/11/2021	23	11	36.10	Yes	33.54	-2.56
1281	3/11/2021	23	12	37.66	Yes	33.54	-4.12
1282	3/11/2021	24	1	37.11	Yes	33.54	-3.57
1283	3/11/2021	24	2	39.71	Yes	33.54	-6.17
1284	3/11/2021	24	3	34.60	Yes	33.54	-1.06
1285	3/11/2021	24	4	35.78	Yes	33.54	-2.24
1286	3/11/2021	24	5	34.70	Yes	33.54	-1.16
1287	3/11/2021	24	6	33.95	Yes	33.54	-0.41
1288	3/11/2021	24	7	33.53	Yes	33.54	0.01



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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1289	3/11/2021	24	8	33.53	Yes	33.54	0.01
1290	3/11/2021	24	9	33.53	Yes	33.54	0.01
1291	3/11/2021	24	10	32.41	Yes	33.54	1.13
1292	3/11/2021	24	11	32.79	Yes	33.54	0.75
1293	3/11/2021	24	12	32.11	Yes	33.54	1.43
1294	3/12/2021	1	1	31.46	Yes	33.54	2.08
1295	3/12/2021	1	2	32.40	Yes	33.54	1.14
1296	3/12/2021	1	3	33.56	Yes	33.54	-0.02
1297	3/12/2021	1	4	32.07	Yes	33.54	1.47
1298	3/12/2021	1	5	31.39	Yes	33.54	2.15
1299	3/12/2021	1	6	31.41	Yes	33.54	2.13
1300	3/12/2021	1	7	31.40	Yes	33.54	2.14
1301	3/12/2021	1	8	31.23	Yes	33.54	2.31
1302	3/12/2021	1	9	31.06	Yes	33.54	2.48
1303	3/12/2021	1	10	29.97	Yes	33.54	3.57
1304	3/12/2021	1	11	29.97	Yes	33.54	3.57
1305	3/12/2021	1	12	29.97	Yes	33.54	3.57
1306	3/12/2021	2	1	30.03	Yes	33.54	3.51
1307	3/12/2021	2	2	30.59	Yes	33.54	2.95
1308	3/12/2021	2	3	31.06	Yes	33.54	2.48
1309	3/12/2021	2	4	31.02	Yes	33.54	2.52
1310	3/12/2021	2	5	31.26	Yes	33.54	2.28
1311	3/12/2021	2	6	31.00	Yes	33.54	2.54
1312	3/12/2021	2	7	31.54	Yes	33.54	2.00
1313	3/12/2021	2	8	31.30	Yes	33.54	2.24
1314	3/12/2021	2	9	31.30	Yes	33.54	2.24
1315	3/12/2021	2	10	31.34	Yes	33.54	2.20
1316	3/12/2021	2	11	31.25	Yes	33.54	2.29
1317	3/12/2021	2	12	30.92	Yes	33.54	2.62
1318	3/12/2021	3	1	31.38	Yes	33.54	2.16
1319	3/12/2021	3	2	30.43	Yes	33.54	3.11
1320	3/12/2021	3	3	31.00	Yes	33.54	2.54
1321	3/12/2021	3	4	31.45	Yes	33.54	2.09
1322	3/12/2021	3	5	31.39	Yes	33.54	2.15
1323	3/12/2021	3	6	31.06	Yes	33.54	2.48
1324	3/12/2021	3	7	31.33	Yes	33.54	2.21
1325	3/12/2021	3	8	31.32	Yes	33.54	2.22
1326	3/12/2021	3	9	31.09	Yes	33.54	2.45

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1327	3/12/2021	3	10	30.81	Yes	33.54	2.73
1328	3/12/2021	3	11	30.81	Yes	33.54	2.73
1329	3/12/2021	3	12	30.87	Yes	33.54	2.67
1330	3/12/2021	4	1	30.35	Yes	33.54	3.19
1331	3/12/2021	4	2	30.35	Yes	33.54	3.19
1332	3/12/2021	4	3	31.30	Yes	33.54	2.24
1333	3/12/2021	4	4	31.44	Yes	33.54	2.10
1334	3/12/2021	4	5	31.44	Yes	33.54	2.10
1335	3/12/2021	4	6	31.39	Yes	33.54	2.15
1336	3/12/2021	4	7	32.39	Yes	33.54	1.15
1337	3/12/2021	4	8	32.89	Yes	33.54	0.65
1338	3/12/2021	4	9	32.64	Yes	33.54	0.90
1339	3/12/2021	4	10	32.81	Yes	33.54	0.73
1340	3/12/2021	4	11	32.81	Yes	33.54	0.73
1341	3/12/2021	4	12	32.81	Yes	33.54	0.73
1342	3/12/2021	5	1	31.40	Yes	33.54	2.14
1343	3/12/2021	5	2	31.40	Yes	33.54	2.14
1344	3/12/2021	5	3	31.82	Yes	33.54	1.72
1345	3/12/2021	5	4	33.53	Yes	33.54	0.01
1346	3/12/2021	5	5	33.02	Yes	33.54	0.52
1347	3/12/2021	5	6	33.57	Yes	33.54	-0.03
1348	3/12/2021	5	7	45.19	Yes	33.54	-11.65
1349	3/12/2021	5	8	45.19	Yes	33.54	-11.65
1350	3/12/2021	5	9	49.99	Yes	33.54	-16.45
1351	3/12/2021	5	10	53.05	Yes	33.54	-19.51
1352	3/12/2021	5	11	50.36	Yes	33.54	-16.82
1353	3/12/2021	5	12	44.41	Yes	33.54	-10.87
1354	3/12/2021	6	1	32.98	Yes	33.54	0.56
1355	3/12/2021	6	2	32.13	Yes	33.54	1.41
1356	3/12/2021	6	3	32.95	Yes	33.54	0.59
1357	3/12/2021	6	4	35.53	Yes	33.54	-1.99
1358	3/12/2021	6	5	38.24	Yes	33.54	-4.70
1359	3/12/2021	6	6	40.52	Yes	33.54	-6.98
1360	3/12/2021	6	7	40.51	Yes	33.54	-6.97
1361	3/12/2021	6	8	43.80	Yes	33.54	-10.26
1362	3/12/2021	6	9	55.00	Yes	33.54	-21.46
1363	3/12/2021	6	10	55.36	Yes	33.54	-21.82
1364	3/12/2021	6	11	62.72	Yes	33.54	-29.18

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1365	3/12/2021	6	12	63.98	Yes	33.54	-30.44
1366	3/12/2021	7	1	51.04	Yes	33.54	-17.50
1367	3/12/2021	7	2	55.38	Yes	33.54	-21.84
1368	3/12/2021	7	3	55.43	Yes	33.54	-21.89
1369	3/12/2021	7	4	43.55	Yes	33.54	-10.01
1370	3/12/2021	7	5	43.53	Yes	33.54	-9.99
1371	3/12/2021	7	6	39.73	Yes	33.54	-6.19
1372	3/12/2021	7	7	34.81	Yes	33.54	-1.27
1373	3/12/2021	7	8	33.67	Yes	33.54	-0.13
1374	3/12/2021	7	9	33.10	Yes	33.54	0.44
1375	3/12/2021	7	10	31.94	Yes	33.54	1.60
1376	3/12/2021	7	11	28.54	Yes	33.54	5.00
1377	3/12/2021	7	12	29.29	Yes	33.54	4.25

## Appendix C: Exceptional Dispatch Bid Mitigation Analysis

The ISO did not have any cost savings for the exceptional dispatch bid mitigation for March 2021.

**Table 10: Bid Mitigation Analysis for March 2021**

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
NONTMOD	0	\$ 0	\$ 0	\$ 0
Total	0	\$ 0	\$ 0	\$ 0