

July 15, 2021

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

**Re: California Independent System Operator Corporation
Docket Nos. ER08-1178-000 and EL08-88-000
April 2021 Exceptional Dispatch Reports (Charts 1 and 2)**

Dear Secretary Bose:

The California Independent System Operator Corporation (CAISO) submits both its May 2021 (Chart 1) and May 2021 (Chart 2) Exceptional Dispatch reports as required by the Commission in the September 2, 2009 and May 4, 2010 orders. Because the necessary information is available, the CAISO is issuing the Chart 1 and Chart 2 reports on the 15th of the month. Previously, the Chart 2 report was filed on the 30th of the month.

Each report provides information that the Commission directed be included, as set forth in the September 2, 2009 and May 4, 2010 orders. The Chart 1 report (Attachment A), includes exceptional dispatch information except for cost data and the degree of mitigation and price impact analyses. The Chart 2 report (Attachment B), includes all of the information in the Chart 1 report as well as cost data and the degree of mitigation and price impact analyses.

Respectfully submitted,

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ATTACHMENT A

**May 2021 Exceptional Dispatch Report
Chart 1 data**



Exceptional Dispatch Report

Table 1: May 2021

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Introduction

This report is filed pursuant to FERC's September 2, 2009, and May 4, 2010, orders in Docket No. ER08-1178. These orders require two monthly Exceptional Dispatch reports—one issued on the 15th of each month and one originally issued on the 30th of each month. Both Table 1 and Table 2 reports will be issued on the 15th of each month due to the availability of necessary data. This report provides data on the frequency and reasons for Exceptional Dispatches issued in May 2021.

The Nature of Exceptional Dispatch

The CAISO can issue exceptional dispatch instructions for a resource as a pre-day-ahead unit commitment, which may also include a post-day-ahead unit commitment, or a real-time exceptional dispatch.¹ A pre-day-ahead commitment is an exceptional dispatch instruction that commits a resource at or above its physical minimum operating level in the day-ahead market. A post-day-ahead market commitment is an exceptional dispatch instruction that commits a resource at or above its physical minimum operating level in the real-time market. A real-time exceptional dispatch instruction is a dispatch of a resource at or above its physical minimum operating point. A real-time exceptional dispatch above the resource day-ahead award is an incremental exceptional dispatch instruction and an exceptional dispatch below the day-ahead award is 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.

Many of the exceptional dispatches listed below in Table 1, were to satisfy either a local area or system reliability requirements, and are classified into local generation requirements; transmission management requirements; non-modeled transmission outages or other non-modeled constraints or requirements; and intertie emergency assistance. All of the transmission procedures are available on the CAISO website.²

Additional reasons for exceptional dispatch instructions in May 2021 unrelated to generation or transmission operating procedures included Software Limitation. Software Limitation is used when an exceptional dispatch instruction was used 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

¹ The CAISO can issue exceptional dispatch instructions subject to authority of the CAISO Tariff Section 34.11 and in accordance with CAISO Operating Procedure 2330 (formerly M-402).

² A list of all of the CAISO's publicly available Operating Procedures are available at the following link: <http://www.caiso.com/thegrid/operations/opsdoc/index.html>

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 established to prevent instability, uncontrolled separation or cascading as described in operating procedure 3100. System Operating Limits (SOL) are the facility ratings, system voltage limits, transient stability limits, and voltage stability limits used in the operating horizon – any of which can be the most restrictive limit at any point in time, pre – or post – contingency. Control Points (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 May 2021, which are self explanatory.

The data in Table 1 is based on a template specified in the September 2009 order.³ Each entry in Attachment A 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; and (6) End Time.

The MW column shows the range of exceptional dispatch instructions in MW for the classification. The Commitment column specifies if there was a unit commitment for the classification. The INC/DEC column specifies if there was an incremental dispatch or a decremental dispatch from the IFM schedule. The Begin Time column shows the start of exceptional dispatch for the classification and the End Time column shows the end of exceptional dispatch for the classification. The column Hours is the difference between end time and begin time rounded up to the next hour. The data shown is further explained by way of example in Attachment A.

Table 1 indicates there were 272 exceptional dispatches in May 2021, as compared to 233 exceptional dispatches in April 2021. Exceptional dispatches issued for the following reasons accounted for approximately 92 percent of the

³ The data in Table 1 is principally SLIC information supplemented with data from the Market Quality System (MQS). It is the most accurate currently available and it is worth noting that this data has been through the T+38B initial statement process wherein many unresolved issues are fixed. The CAISO believes that this data will correlate well with the settlements data that will be available when the CAISO files the Table 2 report for the reporting period.

total exceptional dispatches during the reporting period: planned transmission outages, reliability assessment, and unit testing. Exceptional dispatches with the reason “Reliability Assessment” were due to Real Time Contingency Analysis, Voltage Stability Analysis, and operating procedure number 7110 (along with 7230, 7320, and 7690). Reliability Assessment is the reason as explained in the operator procedure 2330C⁴ 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.

⁴ The operator procedure 2330C - <http://www.aiso.com/Documents/2330C.pdf>

Table 1: Exceptional Dispatches in May 2021

**California Independent System Operator Corporation
Exceptional Dispatch Report
July 15, 2021**

Chart 1: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/2021

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
1	RT	Incomplete or Inaccurate Transmission	PGAE	Fresno	5/28/2021	20	No	INC	3	21:15	0:00
2	RT	Load Forecast Uncertainty	PGAE	NA	5/30/2021	62	No	INC	8	14:30	22:00
3	RT	Load Forecast Uncertainty	PGAE	NA	5/31/2021	62 - 110	No	INC	8	14:00	22:00
4	RT	Load Forecast Uncertainty	SCE	LA Basin	5/30/2021	20	No	INC	10	14:00	0:00
5	RT	Load Forecast Uncertainty	SCE	LA Basin	5/31/2021	10 -20	No	INC	24	0:00	0:00
6	RT	Market Disruption	SCE	LA Basin	5/20/2021	285	No	INC	1	17:00	18:00
7	RT	Planned Transmission Outage	PGAE	Bay Area	5/1/2021	250	No	INC	1	8:30	9:30
8	RT	Planned Transmission Outage	PGAE	Bay Area	5/11/2021	23	No	INC	10	12:40	22:00
9	RT	Planned Transmission Outage	PGAE	Fresno	5/21/2021	40	No	INC	7	5:00	12:00
10	RT	Planned Transmission Outage	PGAE	Humboldt	5/1/2021	15	No	DEC	16	8:30	0:00
11	RT	Planned Transmission Outage	PGAE	Humboldt	5/1/2021	15 - 30	No	INC	24	0:00	0:00
12	RT	Planned Transmission Outage	PGAE	Humboldt	5/2/2021	15 - 30	No	INC	2	0:00	1:30
13	RT	Planned Transmission Outage	PGAE	Humboldt	5/5/2021	28	No	DEC	5	15:00	20:00
14	RT	Planned Transmission Outage	PGAE	Humboldt	5/5/2021	28	No	INC	1	14:40	15:00
15	RT	Planned Transmission Outage	PGAE	Humboldt	5/9/2021	48 - 64	No	DEC	7	17:30	0:00
16	RT	Planned Transmission Outage	PGAE	Humboldt	5/9/2021	64	No	INC	2	17:30	19:00
17	RT	Planned Transmission Outage	PGAE	Humboldt	5/10/2021	30 - 56	No	DEC	6	17:00	23:00
18	RT	Planned Transmission Outage	PGAE	Humboldt	5/10/2021	30 - 56	No	INC	19	5:00	0:00
19	RT	Planned Transmission Outage	PGAE	Humboldt	5/11/2021	30 - 45	No	INC	3	0:00	2:15
20	RT	Planned Transmission Outage	PGAE	Humboldt	5/13/2021	42	No	INC	7	12:20	19:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
21	RT	Planned Transmission Outage	PGAE	Humboldt	5/17/2021	30	No	INC	3	21:40	0:00
22	RT	Planned Transmission Outage	PGAE	Humboldt	5/18/2021	30	No	INC	22	0:00	21:30
23	RT	Planned Transmission Outage	PGAE	Humboldt	5/31/2021	30	No	DEC	5	19:05	0:00
24	RT	Planned Transmission Outage	PGAE	NCNB	5/1/2021	50	No	DEC	2	19:00	21:00
25	RT	Planned Transmission Outage	PGAE	NCNB	5/1/2021	50	No	INC	16	7:25	23:00
26	RT	Planned Transmission Outage	PGAE	NCNB	5/3/2021	30 - 45	No	DEC	14	8:00	22:00
27	RT	Planned Transmission Outage	PGAE	NCNB	5/3/2021	10 - 50	No	INC	17	7:00	0:00
28	RT	Planned Transmission Outage	PGAE	NCNB	5/4/2021	50	No	DEC	8	7:00	15:00
29	RT	Planned Transmission Outage	PGAE	NCNB	5/4/2021	45 - 50	No	INC	24	0:00	0:00
30	RT	Planned Transmission Outage	PGAE	NCNB	5/5/2021	45 - 50	No	DEC	24	0:00	0:00
31	RT	Planned Transmission Outage	PGAE	NCNB	5/6/2021	45 - 50	No	DEC	24	0:00	0:00
32	RT	Planned Transmission Outage	PGAE	NCNB	5/6/2021	45	No	INC	3	16:00	19:00
33	RT	Planned Transmission Outage	PGAE	NCNB	5/7/2021	50	No	DEC	24	0:00	0:00
34	RT	Planned Transmission Outage	PGAE	NCNB	5/7/2021	50	No	INC	1	19:00	20:00
35	RT	Planned Transmission Outage	PGAE	NCNB	5/8/2021	40 - 50	No	DEC	24	0:00	0:00
36	RT	Planned Transmission Outage	PGAE	NCNB	5/8/2021	40 - 45	No	INC	15	5:00	20:00
37	RT	Planned Transmission Outage	PGAE	NCNB	5/9/2021	45	No	DEC	22	0:00	22:00
38	RT	Planned Transmission Outage	PGAE	NCNB	5/9/2021	45	No	INC	23	1:00	0:00
39	RT	Planned Transmission Outage	PGAE	NCNB	5/10/2021	45 - 60	No	DEC	24	0:00	0:00
40	RT	Planned Transmission Outage	PGAE	NCNB	5/11/2021	50	No	DEC	15	7:00	22:00
41	RT	Planned Transmission Outage	PGAE	NCNB	5/11/2021	50	No	INC	24	0:00	0:00
42	RT	Planned Transmission Outage	PGAE	NCNB	5/12/2021	50 - 55	No	DEC	24	0:00	0:00
43	RT	Planned Transmission Outage	PGAE	NCNB	5/12/2021	50 - 55	No	INC	18	4:00	22:00
44	RT	Planned Transmission Outage	PGAE	NCNB	5/13/2021	50	No	DEC	16	7:00	23:00
45	RT	Planned Transmission Outage	PGAE	NCNB	5/13/2021	50	No	INC	24	0:00	0:00
46	RT	Planned Transmission Outage	PGAE	NCNB	5/14/2021	50	No	DEC	16	6:00	22:00
47	RT	Planned Transmission Outage	PGAE	NCNB	5/14/2021	50	No	INC	24	0:00	0:00
48	RT	Planned Transmission Outage	PGAE	NCNB	5/15/2021	50	No	DEC	24	0:00	0:00
49	RT	Planned Transmission Outage	PGAE	NCNB	5/15/2021	50	No	INC	21	2:00	23:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
50	RT	Planned Transmission Outage	PGAE	NCNB	5/16/2021	50	No	DEC	15	6:00	21:00
51	RT	Planned Transmission Outage	PGAE	NCNB	5/16/2021	50	No	INC	24	0:00	0:00
52	RT	Planned Transmission Outage	PGAE	NCNB	5/17/2021	50	No	DEC	23	1:00	0:00
53	RT	Planned Transmission Outage	PGAE	NCNB	5/17/2021	50	No	INC	7	0:00	7:00
54	RT	Planned Transmission Outage	PGAE	NCNB	5/18/2021	50	No	DEC	24	0:00	0:00
55	RT	Planned Transmission Outage	PGAE	NCNB	5/18/2021	50	No	INC	4	18:00	22:00
56	RT	Planned Transmission Outage	PGAE	NCNB	5/19/2021	45 - 50	No	DEC	24	0:00	0:00
57	RT	Planned Transmission Outage	PGAE	NCNB	5/20/2021	45 - 75	No	DEC	24	0:00	0:00
58	RT	Planned Transmission Outage	PGAE	NCNB	5/20/2021	45 - 75	No	INC	5	18:00	23:00
59	RT	Planned Transmission Outage	PGAE	NCNB	5/21/2021	75	No	DEC	1	0:00	1:00
60	RT	Planned Transmission Outage	PGAE	NCNB	5/21/2021	75	No	INC	1	1:00	2:00
61	RT	Planned Transmission Outage	PGAE	NCNB	5/23/2021	45 - 55	No	DEC	6	17:00	22:45
62	RT	Planned Transmission Outage	PGAE	NCNB	5/23/2021	45 - 55	No	INC	11	13:35	0:00
63	RT	Planned Transmission Outage	PGAE	NCNB	5/24/2021	50	No	DEC	14	6:00	20:00
64	RT	Planned Transmission Outage	PGAE	NCNB	5/24/2021	50 - 55	No	INC	24	0:00	0:00
65	RT	Planned Transmission Outage	PGAE	NCNB	5/25/2021	50 - 55	No	DEC	15	0:00	15:00
66	RT	Planned Transmission Outage	PGAE	NCNB	5/25/2021	50 - 55	No	INC	23	1:00	0:00
67	RT	Planned Transmission Outage	PGAE	NCNB	5/26/2021	50	No	DEC	9	6:00	15:00
68	RT	Planned Transmission Outage	PGAE	NCNB	5/26/2021	50	No	INC	18	0:00	18:00
69	RT	Planned Transmission Outage	PGAE	NCNB	5/29/2021	55	No	DEC	23	1:35	0:00
70	RT	Planned Transmission Outage	PGAE	NCNB	5/29/2021	55	No	INC	16	6:00	22:00
71	RT	Planned Transmission Outage	PGAE	NCNB	5/30/2021	55	No	DEC	15	8:00	23:00
72	RT	Planned Transmission Outage	PGAE	NCNB	5/30/2021	55	No	INC	24	0:00	0:00
73	RT	Planned Transmission Outage	PGAE	NCNB	5/31/2021	55	No	DEC	12	8:00	19:15
74	RT	Planned Transmission Outage	PGAE	NCNB	5/31/2021	55	No	INC	8	0:00	8:00
75	RT	Planned Transmission Outage	PGAE	Sierra	5/3/2021	20	No	INC	3	21:30	0:00
76	RT	Planned Transmission Outage	PGAE	Sierra	5/4/2021	47	No	DEC	2	19:00	21:00
77	RT	Planned Transmission Outage	PGAE	Sierra	5/4/2021	20 - 47	Yes	INC	6	18:10	0:00
78	RT	Planned Transmission Outage	PGAE	Sierra	5/5/2021	20 - 47	No	DEC	3	18:00	21:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
79	RT	Planned Transmission Outage	PGAE	Sierra	5/5/2021	20 - 47	Yes	INC	24	0:00	0:00
80	RT	Planned Transmission Outage	PGAE	Sierra	5/6/2021	25	Yes	INC	3	0:00	3:00
81	RT	Planned Transmission Outage	PGAE	Sierra	5/10/2021	20 - 49	No	INC	10	14:45	0:00
82	RT	Planned Transmission Outage	PGAE	Sierra	5/11/2021	40 - 47	No	DEC	5	17:00	22:00
83	RT	Planned Transmission Outage	PGAE	Sierra	5/11/2021	5 - 47	Yes	INC	24	0:00	0:00
84	RT	Planned Transmission Outage	PGAE	Sierra	5/12/2021	47 - 49	No	DEC	6	16:00	22:00
85	RT	Planned Transmission Outage	PGAE	Sierra	5/12/2021	7 - 49	No	INC	14	10:00	0:00
86	RT	Planned Transmission Outage	PGAE	Sierra	5/13/2021	20 - 47	No	DEC	6	16:00	22:00
87	RT	Planned Transmission Outage	PGAE	Sierra	5/13/2021	3 - 49	No	INC	24	0:00	23:45
88	RT	Planned Transmission Outage	PGAE	Sierra	5/14/2021	40 - 45	No	DEC	5	17:00	22:00
89	RT	Planned Transmission Outage	PGAE	Sierra	5/14/2021	40 - 50	No	INC	3	15:45	18:15
90	RT	Planned Transmission Outage	PGAE	Sierra	5/15/2021	20	No	INC	2	18:45	20:45
91	RT	Planned Transmission Outage	PGAE	Sierra	5/16/2021	45	No	INC	7	17:05	0:00
92	RT	Planned Transmission Outage	PGAE	Sierra	5/17/2021	45 - 47	No	DEC	3	19:00	22:00
93	RT	Planned Transmission Outage	PGAE	Sierra	5/17/2021	20 - 47	Yes	INC	24	0:00	0:00
94	RT	Planned Transmission Outage	PGAE	Sierra	5/18/2021	20 - 40	No	DEC	4	18:00	22:00
95	RT	Planned Transmission Outage	PGAE	Sierra	5/18/2021	20 - 47	No	INC	24	0:00	0:00
96	RT	Planned Transmission Outage	PGAE	Sierra	5/19/2021	20	No	DEC	3	19:35	22:00
97	RT	Planned Transmission Outage	PGAE	Sierra	5/19/2021	20 - 40	Yes	INC	23	0:00	22:45
98	RT	Planned Transmission Outage	PGAE	Sierra	5/20/2021	20 - 42	Yes	INC	16	7:30	23:00
99	RT	Planned Transmission Outage	PGAE	Sierra	5/21/2021	20	No	DEC	2	20:00	22:00
100	RT	Planned Transmission Outage	PGAE	Sierra	5/21/2021	20	No	INC	5	19:40	0:00
101	RT	Planned Transmission Outage	PGAE	Sierra	5/23/2021	40	No	DEC	2	15:00	17:00
102	RT	Planned Transmission Outage	PGAE	Sierra	5/23/2021	42	Yes	INC	2	21:40	23:15
103	RT	Planned Transmission Outage	PGAE	Sierra	5/27/2021	20	No	INC	22	1:00	23:00
104	RT	Planned Transmission Outage	PGAE	Sierra	5/28/2021	20	No	DEC	3	19:00	22:00
105	RT	Planned Transmission Outage	PGAE	Sierra	5/28/2021	20 - 35	No	INC	15	9:00	0:00
106	RT	Planned Transmission Outage	PGAE	Sierra	5/29/2021	20	Yes	INC	1	0:00	0:30
107	RT	Planned Transmission Outage	PGAE	Sierra	5/30/2021	20 - 40	No	DEC	3	19:40	22:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
108	RT	Planned Transmission Outage	PGAE	Sierra	5/30/2021	20 - 40	No	INC	2	22:00	0:00
109	RT	Planned Transmission Outage	PGAE	Sierra	5/31/2021	20 - 40	No	INC	8	0:00	8:00
110	RT	Planned Transmission Outage	PGAE	Stockton	5/27/2021	140	No	DEC	10	6:50	16:00
111	RT	Planned Transmission Outage	PGAE	Stockton	5/30/2021	40	No	DEC	22	2:25	0:00
112	RT	Planned Transmission Outage	PGAE	Stockton	5/31/2021	40	No	DEC	22	0:00	22:00
113	RT	Planned Transmission Outage	SCE	LA Basin	5/14/2021	46 - 47	No	DEC	2	19:00	21:00
114	RT	Planned Transmission Outage	SCE	LA Basin	5/14/2021	46 - 47	No	INC	14	5:30	19:00
115	RT	Planned Transmission Outage	SCE	LA Basin	5/18/2021	47	No	INC	7	6:00	12:15
116	RT	Planned Transmission Outage	SCE	NA	5/1/2021	34	No	DEC	5	19:20	0:00
117	RT	Planned Transmission Outage	SCE	NA	5/13/2021	410	No	DEC	3	5:55	8:00
118	RT	Planned Transmission Outage	SCE	NA	5/13/2021	350 - 410	No	INC	6	8:00	13:15
119	RT	Planned Transmission Outage	SCE	NA	5/14/2021	450	No	DEC	1	21:45	21:50
120	RT	Planned Transmission Outage	SCE	NA	5/16/2021	2 - 57	No	DEC	13	10:35	23:30
121	RT	Planned Transmission Outage	SDGE	San Diego-IV	5/15/2021	225	No	INC	11	7:00	17:15
122	RT	Ramping Capacity	PGAE	Humboldt	5/7/2021	15	No	DEC	7	0:00	6:15
123	RT	Ramping Capacity	PGAE	Humboldt	5/7/2021	30	No	INC	7	0:00	6:15
124	RT	Ramping Capacity	PGAE	Sierra	5/25/2021	40	No	DEC	1	21:45	22:00
125	RT	Ramping Capacity	PGAE	Sierra	5/25/2021	40	No	INC	2	22:00	0:00
126	RT	Ramping Capacity	PGAE	Sierra	5/26/2021	20	No	INC	1	17:05	18:00
127	RT	Reliability Assessment	PGAE	Bay Area	5/1/2021	22 - 24	No	INC	10	11:40	21:00
128	RT	Reliability Assessment	PGAE	Bay Area	5/3/2021	22	No	INC	12	12:05	0:00
129	RT	Reliability Assessment	PGAE	Bay Area	5/4/2021	0	No	DEC	5	17:00	22:00
130	RT	Reliability Assessment	PGAE	Bay Area	5/4/2021	22	No	INC	14	10:30	0:00
131	RT	Reliability Assessment	PGAE	Bay Area	5/5/2021	22	No	DEC	1	19:45	20:00
132	RT	Reliability Assessment	PGAE	Bay Area	5/5/2021	22	No	INC	4	20:00	0:00
133	RT	Reliability Assessment	PGAE	Bay Area	5/6/2021	22	No	INC	15	9:00	0:00
134	RT	Reliability Assessment	PGAE	Bay Area	5/10/2021	22 - 24	No	INC	11	11:40	22:00
135	RT	Reliability Assessment	PGAE	Bay Area	5/13/2021	22	No	DEC	4	17:00	21:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
136	RT	Reliability Assessment	PGAE	Bay Area	5/13/2021	22	No	INC	8	14:15	22:00
137	RT	Reliability Assessment	PGAE	Bay Area	5/14/2021	22	No	INC	7	17:30	0:00
138	RT	Reliability Assessment	PGAE	Bay Area	5/15/2021	22	No	INC	2	0:00	2:00
139	RT	Reliability Assessment	PGAE	Bay Area	5/31/2021	22	No	DEC	3	18:05	21:00
140	RT	Reliability Assessment	PGAE	Bay Area	5/31/2021	22	No	INC	3	21:00	23:30
141	RT	Reliability Assessment	PGAE	Humboldt	5/2/2021	15 - 30	No	INC	23	1:15	0:00
142	RT	Reliability Assessment	PGAE	Humboldt	5/3/2021	15	No	DEC	5	18:00	23:00
143	RT	Reliability Assessment	PGAE	Humboldt	5/3/2021	15 - 30	No	INC	24	0:00	0:00
144	RT	Reliability Assessment	PGAE	Humboldt	5/4/2021	15 - 30	No	DEC	23	0:00	23:00
145	RT	Reliability Assessment	PGAE	Humboldt	5/4/2021	15 - 30	No	INC	24	0:00	0:00
146	RT	Reliability Assessment	PGAE	Humboldt	5/5/2021	15 - 30	No	DEC	9	14:00	23:00
147	RT	Reliability Assessment	PGAE	Humboldt	5/5/2021	15 - 30	No	INC	24	0:00	0:00
148	RT	Reliability Assessment	PGAE	Humboldt	5/6/2021	15 - 30	No	DEC	22	0:30	22:00
149	RT	Reliability Assessment	PGAE	Humboldt	5/6/2021	15 - 30	No	INC	24	0:00	0:00
150	RT	Reliability Assessment	PGAE	Humboldt	5/7/2021	15	No	DEC	18	6:15	0:00
151	RT	Reliability Assessment	PGAE	Humboldt	5/7/2021	30	No	INC	18	6:15	0:00
152	RT	Reliability Assessment	PGAE	Humboldt	5/8/2021	15 - 32	No	DEC	23	0:00	23:00
153	RT	Reliability Assessment	PGAE	Humboldt	5/8/2021	15 - 30	No	INC	24	0:00	0:00
154	RT	Reliability Assessment	PGAE	Humboldt	5/9/2021	15 - 30	No	DEC	24	0:00	0:00
155	RT	Reliability Assessment	PGAE	Humboldt	5/9/2021	15 - 30	No	INC	18	0:00	18:00
156	RT	Reliability Assessment	PGAE	Humboldt	5/10/2021	15 - 30	No	INC	6	0:00	5:30
157	RT	Reliability Assessment	PGAE	Humboldt	5/11/2021	15 - 60	No	DEC	21	1:55	22:00
158	RT	Reliability Assessment	PGAE	Humboldt	5/11/2021	30 - 60	No	INC	23	1:55	0:00
159	RT	Reliability Assessment	PGAE	Humboldt	5/12/2021	15 - 30	No	DEC	20	2:45	22:00
160	RT	Reliability Assessment	PGAE	Humboldt	5/12/2021	15 - 45	No	INC	24	0:00	0:00
161	RT	Reliability Assessment	PGAE	Humboldt	5/13/2021	15	No	DEC	19	4:00	23:00
162	RT	Reliability Assessment	PGAE	Humboldt	5/13/2021	15 - 30	No	INC	24	0:00	0:00
163	RT	Reliability Assessment	PGAE	Humboldt	5/14/2021	15	No	DEC	23	0:00	23:00
164	RT	Reliability Assessment	PGAE	Humboldt	5/14/2021	15 - 30	No	INC	24	0:00	0:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
165	RT	Reliability Assessment	PGAE	Humboldt	5/15/2021	15	No	DEC	22	0:00	22:00
166	RT	Reliability Assessment	PGAE	Humboldt	5/15/2021	15 - 30	No	INC	24	0:00	0:00
167	RT	Reliability Assessment	PGAE	Humboldt	5/16/2021	15	No	DEC	1	1:00	2:00
168	RT	Reliability Assessment	PGAE	Humboldt	5/16/2021	15 - 30	No	INC	24	0:00	0:00
169	RT	Reliability Assessment	PGAE	Humboldt	5/17/2021	30	No	INC	19	5:20	0:00
170	RT	Reliability Assessment	PGAE	Humboldt	5/18/2021	30	No	INC	24	0:00	0:00
171	RT	Reliability Assessment	PGAE	Humboldt	5/19/2021	15	No	DEC	21	0:45	21:00
172	RT	Reliability Assessment	PGAE	Humboldt	5/19/2021	15 - 30	No	INC	24	0:00	0:00
173	RT	Reliability Assessment	PGAE	Humboldt	5/20/2021	30 - 45	No	INC	24	0:00	0:00
174	RT	Reliability Assessment	PGAE	Humboldt	5/21/2021	15 - 45	No	INC	24	0:00	0:00
175	RT	Reliability Assessment	PGAE	Humboldt	5/22/2021	15 - 30	No	DEC	22	2:30	0:00
176	RT	Reliability Assessment	PGAE	Humboldt	5/22/2021	30	No	INC	24	0:00	0:00
177	RT	Reliability Assessment	PGAE	Humboldt	5/23/2021	15	No	DEC	8	0:00	8:00
178	RT	Reliability Assessment	PGAE	Humboldt	5/23/2021	15 - 30	No	INC	24	0:00	0:00
179	RT	Reliability Assessment	PGAE	Humboldt	5/24/2021	15	No	DEC	24	0:45	0:00
180	RT	Reliability Assessment	PGAE	Humboldt	5/24/2021	15 - 30	No	INC	24	0:00	0:00
181	RT	Reliability Assessment	PGAE	Humboldt	5/25/2021	15	No	DEC	24	0:00	0:00
182	RT	Reliability Assessment	PGAE	Humboldt	5/25/2021	15 - 30	No	INC	24	0:00	0:00
183	RT	Reliability Assessment	PGAE	Humboldt	5/26/2021	15 - 30	No	DEC	20	4:30	0:00
184	RT	Reliability Assessment	PGAE	Humboldt	5/26/2021	15 - 30	No	INC	24	0:00	0:00
185	RT	Reliability Assessment	PGAE	Humboldt	5/27/2021	15	No	DEC	24	0:00	0:00
186	RT	Reliability Assessment	PGAE	Humboldt	5/27/2021	30	No	INC	24	0:00	0:00
187	RT	Reliability Assessment	PGAE	Humboldt	5/28/2021	15 - 30	No	DEC	24	0:00	0:00
188	RT	Reliability Assessment	PGAE	Humboldt	5/28/2021	15 - 30	No	INC	24	0:00	0:00
189	RT	Reliability Assessment	PGAE	Humboldt	5/29/2021	15	No	DEC	24	0:00	0:00
190	RT	Reliability Assessment	PGAE	Humboldt	5/29/2021	15	No	INC	24	0:00	0:00
191	RT	Reliability Assessment	PGAE	Humboldt	5/30/2021	15	No	DEC	22	0:00	22:00
192	RT	Reliability Assessment	PGAE	Humboldt	5/30/2021	15 - 45	No	INC	24	0:00	0:00
193	RT	Reliability Assessment	PGAE	Humboldt	5/31/2021	15 - 30	No	DEC	20	2:45	22:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
194	RT	Reliability Assessment	PGAE	Humboldt	5/31/2021	30 - 45	No	INC	16	0:00	16:00
195	RT	Reliability Assessment	PGAE	NCNB	5/16/2021	60	No	DEC	1	23:35	0:00
196	RT	Reliability Assessment	PGAE	NCNB	5/17/2021	60	No	DEC	23	1:00	0:00
197	RT	Reliability Assessment	PGAE	NCNB	5/17/2021	60	No	INC	7	0:00	7:00
198	RT	Reliability Assessment	PGAE	NCNB	5/18/2021	60	No	DEC	24	0:00	0:00
199	RT	Reliability Assessment	PGAE	NCNB	5/18/2021	60	No	INC	1	18:00	19:00
200	RT	Reliability Assessment	PGAE	NCNB	5/19/2021	60	No	DEC	24	0:00	0:00
201	RT	Reliability Assessment	PGAE	NCNB	5/19/2021	60	No	INC	1	20:00	21:00
202	RT	Reliability Assessment	PGAE	NCNB	5/20/2021	60 - 70	No	DEC	18	0:00	18:00
203	RT	Reliability Assessment	PGAE	NCNB	5/20/2021	70	No	INC	4	18:00	21:15
204	RT	Reliability Assessment	PGAE	Sierra	5/5/2021	20	No	INC	5	12:25	16:30
205	RT	Reliability Assessment	PGAE	Sierra	5/8/2021	8.8 - 10.2	No	INC	3	10:00	13:00
206	RT	Reliability Assessment	PGAE	Sierra	5/17/2021	17 - 45	No	DEC	3	21:35	0:00
207	RT	Reliability Assessment	PGAE	Sierra	5/18/2021	17	No	DEC	2	0:00	1:30
208	RT	Reliability Assessment	PGAE	Sierra	5/18/2021	24 - 45	No	INC	2	0:00	1:30
209	RT	Reliability Assessment	PGAE	Sierra	5/24/2021	42	No	DEC	1	21:45	22:00
210	RT	Reliability Assessment	PGAE	Sierra	5/24/2021	42	No	INC	2	22:00	23:15
211	RT	Reliability Assessment	PGAE	Sierra	5/26/2021	0	No	DEC	3	19:00	22:00
212	RT	Reliability Assessment	PGAE	Sierra	5/31/2021	20 - 40	No	DEC	5	18:00	23:00
213	RT	Reliability Assessment	PGAE	Sierra	5/31/2021	11 - 40	No	INC	9	15:55	0:00
214	RT	Reliability Assessment	SCE	NA	5/1/2021	460	No	INC	5	0:00	4:15
215	RT	Reliability Assessment	SCE	NA	5/2/2021	37 - 42	No	DEC	5	18:30	23:00
216	RT	Reliability Assessment	SCE	NA	5/2/2021	42 - 52	No	INC	1	23:00	0:00
217	RT	Reliability Assessment	SCE	NA	5/3/2021	52	No	INC	1	0:00	1:00
218	RT	Reliability Assessment	SCE	NA	5/18/2021	78	No	INC	1	15:30	16:15
219	RT	Software Limitation	PGAE	Bay Area	5/30/2021	24 - 100	No	INC	3	19:30	22:00
220	RT	Software Limitation	PGAE	NA	5/5/2021	48.95	No	DEC	1	17:00	18:00
221	RT	Software Limitation	PGAE	NA	5/5/2021	48.95	No	INC	3	14:35	17:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
222	RT	Software Limitation	PGAE	NA	5/14/2021	48.95	No	INC	6	13:15	19:00
223	RT	Software Limitation	SCE	Big Creek-Ventura	5/1/2021	0	No	INC	1	23:25	23:30
224	RT	Unit Testing	PGAE	Bay Area	5/3/2021	250 - 290	No	INC	2	8:35	10:00
225	RT	Unit Testing	PGAE	Fresno	5/27/2021	3	No	DEC	2	11:30	13:00
226	RT	Unit Testing	PGAE	Sierra	5/29/2021	287	No	INC	1	15:30	15:50
227	RT	Unit Testing	PGAE	NA	5/5/2021	5	No	INC	4	9:00	13:00
228	RT	Unit Testing	PGAE	NA	5/6/2021	100	No	INC	2	12:55	14:00
229	RT	Unit Testing	PGAE	NA	5/21/2021	245	No	INC	2	4:35	6:00
230	RT	Unit Testing	SCE	Big Creek-Ventura	5/3/2021	100 - 741	No	INC	9	15:00	0:00
231	RT	Unit Testing	SCE	Big Creek-Ventura	5/4/2021	100	No	INC	16	0:00	16:00
232	RT	Unit Testing	SCE	Big Creek-Ventura	5/12/2021	0	No	INC	1	2:30	3:00
233	RT	Unit Testing	SCE	LA Basin	5/25/2021	93	No	INC	1	12:00	12:10
234	RT	Unit Testing	SCE	LA Basin	5/26/2021	250	No	INC	4	2:35	6:00
235	RT	Unit Testing	SCE	NA	5/1/2021	14 - 45	No	INC	13	6:00	19:00
236	RT	Unit Testing	SCE	NA	5/2/2021	14 - 45	No	INC	13	6:00	19:00
237	RT	Unit Testing	SCE	NA	5/3/2021	25 - 76	No	INC	13	6:00	19:00
238	RT	Unit Testing	SCE	NA	5/4/2021	34.35 - 104.72	No	INC	13	6:00	19:00
239	RT	Unit Testing	SCE	NA	5/5/2021	34.35 - 104.72	No	INC	13	6:00	19:00
240	RT	Unit Testing	SCE	NA	5/6/2021	34.35 - 104.72	No	INC	13	6:00	19:00
241	RT	Unit Testing	SCE	NA	5/7/2021	35 - 105	No	INC	13	6:00	19:00
242	RT	Unit Testing	SCE	NA	5/8/2021	35 - 105	No	INC	13	6:00	19:00
243	RT	Unit Testing	SCE	NA	5/9/2021	26 - 77	No	INC	13	6:00	19:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
244	RT	Unit Testing	SCE	NA	5/10/2021	26 - 77	No	INC	13	6:00	19:00
245	RT	Unit Testing	SCE	NA	5/11/2021	26 - 77	No	INC	13	6:00	19:00
246	RT	Unit Testing	SCE	NA	5/12/2021	26 - 77	No	INC	13	6:00	19:00
247	RT	Unit Testing	SCE	NA	5/13/2021	26 - 77	No	INC	13	6:00	19:00
248	RT	Unit Testing	SCE	NA	5/14/2021	26 - 475	No	INC	13	6:00	19:00
249	RT	Unit Testing	SCE	NA	5/15/2021	26 - 77	No	INC	13	6:00	19:00
250	RT	Unit Testing	SCE	NA	5/16/2021	25 - 73	No	INC	13	6:00	19:00
251	RT	Unit Testing	SCE	NA	5/17/2021	25 - 73	No	INC	13	6:00	19:00
252	RT	Unit Testing	SCE	NA	5/18/2021	24.14 - 73.58	No	INC	13	5:00	18:00
253	RT	Unit Testing	SCE	NA	5/19/2021	31.57 - 96.23	No	INC	13	5:00	18:00
254	RT	Unit Testing	SCE	NA	5/20/2021	46.42 - 141.51	No	INC	13	5:00	18:00
255	RT	Unit Testing	SCE	NA	5/21/2021	46.42 - 141.51	No	INC	13	6:00	19:00
256	RT	Unit Testing	SCE	NA	5/22/2021	46.42 - 141.51	No	INC	13	5:00	18:00
257	RT	Unit Testing	SCE	NA	5/23/2021	36.21 - 110.38	No	INC	13	5:00	18:00
258	RT	Unit Testing	SCE	NA	5/24/2021	39.92 - 121.7	No	INC	13	5:00	18:00
259	RT	Unit Testing	SCE	NA	5/25/2021	39.92 - 121.7	No	INC	13	5:00	18:00
260	RT	Unit Testing	SCE	NA	5/26/2021	43.26 - 140	No	INC	13	5:00	18:00
261	RT	Unit Testing	SCE	NA	5/27/2021	49 - 140	No	INC	13	5:00	18:00
262	RT	Unit Testing	SCE	NA	5/28/2021	49 - 140	No	INC	13	6:00	19:00
263	RT	Unit Testing	SCE	NA	5/29/2021	49.21 - 140	No	INC	13	5:00	18:00
264	RT	Unit Testing	SCE	NA	5/30/2021	42 - 130	No	INC	13	6:00	19:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
265	RT	Unit Testing	SCE	NA	5/31/2021	43 - 130	No	INC	13	6:00	19:00
266	RT	Unit Testing	SDGE	San Diego-IV	5/7/2021	490	No	INC	2	11:50	13:00
267	RT	Unit Testing	SDGE	San Diego-IV	5/8/2021	575	No	INC	1	22:20	22:30
268	RT	Unit Testing	SDGE	San Diego-IV	5/11/2021	44.27	No	INC	1	19:55	20:00
269	RT	Voltage Support	PGAE	Fresno	5/1/2021	-312	No	DEC	4	17:00	20:30
270	RT	Voltage Support	PGAE	Sierra	5/22/2021	20	No	DEC	3	19:00	22:00
271	RT	Voltage Support	PGAE	Sierra	5/22/2021	20	No	INC	5	18:40	23:00
272	RT	Voltage Support	SCE	NA	5/18/2021	78	No	INC	5	15:05	20:00

Appendix A: Explanation by Example

All examples listed below are based on fictitious data.

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 physical minimum (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 as shown in Table 2. Generally, exceptional dispatches prior to the day-ahead market are commitments to minimum load. Here the dispatch levels are all at minimum load.

Table 2: Instructions Prior to Day-Ahead Market

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch Level (MW)	Reason
01-Jul-09	DA	A	SCE	LA BASIN	05:00	10:00	50	7630
01-Jul-09	DA	B	SCE	LA BASIN	08:00	20:00	30	7630
01-Jul-09	DA	C	SCE	LA BASIN	09:00	23:00	20	7630

This data is summarized as shown in Table 3, which is the prescribed format specified in the FERC order on September 02, 2009. This summary classifies the data by reason, resource location, local reliability area, and trade date. The MW column in Table 3 is the range of MW; in this case the minimum instruction MW is 20 MW for resource C which occurs from hours ending 21 through 23. The maximum instruction occurs in hour ending 10. In this hour resource A is committed at 50 MW, resource B is committed at 30 MW and resource C is committed at 20 MW. This adds up to 100 MW. The MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. Commitments are broken out separately from energy dispatches. In the day-ahead, however the exceptional dispatches are nearly always just commitments, as in this example. The Begin Time column shows hour ending 5 as this was the hour ending for first dispatch of the day, and the End Time column shows hour ending 23, as this was the hour with last dispatch. It is also possible there might be hours between the begin time and the end time where there might not be exceptional dispatch instructions for the given reason, meaning that the range between the begin time and end time can include null hours with no dispatch.

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
1	DA	7630	SCE	LA Basin	1-Jul-09	20-100	Yes	N/A	19	05:00	23:00

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 ending 7 through 11 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 ending 8 through 9 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 that 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.

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
01-Jul-09	RT	A	PG&E	Humboldt	06:00	11:00	30	0	Yes	INC	30	7110
01-Jul-09	RT	B	PG&E	Humboldt	07:00	09:00	40	20	No	INC	20	7110
01-Jul-09	RT	C	PG&E	Humboldt	12:00	15:00	50	50	No	INC	0	7110
01-Jul-09	RT	C	PG&E	Humboldt	16:00	20:00	50	40	No	INC	10	7110

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 then 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 that there might be hours between the begin time and end time where there were no exceptional dispatch instructions for the given reason.

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
1	RT	7110	PG&E	Humboldt	1-Jul-09	0-50	Yes	INC	15	06:00	20:00

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.

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
01-Jul-09	RT	A	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	7430
01-Jul-09	RT	B	PG&E	Fresno	07:00	09:00	40	60	No	DEC	20	7430
01-Jul-09	RT	C	PG&E	Fresno	10:00	14:00	40	50	No	DEC	10	7430

This data is summarized according to FERC convention as shown in Table 7. This summary classifies the data by reason, resource location, local reliability area, and trade date. Please note that inc and dec 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.

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
1	RT	7430	PG&E	Fresno	1-Jul-09	20	Yes	INC	6	15:00	20:00
1	RT	7430	PG&E	Fresno	1-Jul-09	10-20	Yes	DEC	8	07:00	14:00

ATTACHMENT B

**May 2021 Exceptional Dispatch Report
Chart 2 data**



Exceptional Dispatch Report

Table 2: May 2021

Market Analysis and Forecasting

July 15, 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 15th of each month and one originally issued on the 30th of each month. Both Table 1 and Table 2 reports will be issued on the 15th 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 May 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 May is presented in Appendix B. This report also includes mitigation analysis for May 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 May 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 publically on the CAISO website; however, all of the transmission procedures are available on the CAISO website.¹

Additional reasons for exceptional dispatch instructions in May 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 established to prevent instability, uncontrolled separation or cascading as described in operating procedure 3100. System Operating Limits (SOL) are the facility ratings, system voltage limits, transient stability limits, and voltage stability limits used in the operating horizon – any of which can be the most restrictive limit at any point in time, pre – or post – contingency. Control Points (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 May 2021, which are self-explanatory.

The data in Table 1 is based on a template specified in the September 2009 order.² This table contains all the information published in Table 1 of the first report for May 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:

¹ 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>

² 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.³
- 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).⁴
- The CC6482 column shows the real-time excess cost for the classification.⁵
- The CC6488 column shows the real-time exceptional dispatch uplift settlement for the classification.⁶ The CC6620 shows the bid cost recovery payment for the classification. This cost is shown for all pre-day-ahead unit commitments only.

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

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

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

⁶ 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 7230, 7320, and 7690). Reliability Assessment is the reason as explained in the operator procedure 2330C⁷ 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.

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

Table 1: Exceptional Dispatches in May 2021

**California Independent System Operator Corporation
Exceptional Dispatch Report
July 15, 2021**

Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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	Incomplete or Inaccurate Transmission	PGAE	Fresno	5/28/2021	20	No	INC	3	21:15	0:00	8.08	0.00	0.00	-416.51	3.88	-145.65	0.00	0.00	-1854.84	0.00
2	RT	Load Forecast Uncertainty	PGAE	NA	5/30/2021	62	No	INC	8	14:30	22:00	13.73	35962.58	21763.93	-495.64	0.00	0.00	0.00	0.00	0.00	0.00
3	RT	Load Forecast Uncertainty	PGAE	NA	5/31/2021	62 - 110	No	INC	8	14:00	22:00	76.14	67961.76	31381.73	-5027.01	0.00	0.00	0.00	0.00	0.00	0.00
4	RT	Load Forecast Uncertainty	SCE	LA Basin	5/30/2021	20	No	INC	10	14:00	0:00	0.00	20974.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	RT	Load Forecast Uncertainty	SCE	LA Basin	5/31/2021	10 - 20	No	INC	24	0:00	0:00	37.89	68935.71	38259.16	-2350.52	0.00	0.00	0.00	0.00	0.00	0.00
6	RT	Market Disruption	SCE	LA Basin	5/20/2021	285	No	INC	1	17:00	18:00	135.97	5908.30	0.00	-3287.64	122.91	-2943.64	0.00	-403.05	0.00	0.00
7	RT	Planned Transmission Outage	PGAE	Bay Area	5/1/2021	250	No	INC	1	8:30	9:30	43.67	0.00	0.00	-620.60	51.25	-763.43	0.00	0.00	-747.04	0.00
8	RT	Planned Transmission Outage	PGAE	Bay Area	5/11/2021	23	No	INC	10	12:40	22:00	12.68	0.00	0.00	-1565.19	2.00	-185.50	0.00	0.00	-107.34	0.00
9	RT	Planned Transmission Outage	PGAE	Fresno	5/21/2021	40	No	INC	7	5:00	12:00	14.99	1954.15	0.00	-743.64	17.16	-812.05	0.00	0.00	-	10744.93
10	RT	Planned Transmission Outage	PGAE	Humboldt	5/1/2021	15	No	DEC	16	8:30	0:00	7.49	-165.94	0.00	-136.27	0.08	-0.49	0.00	0.00	-0.48	0.00
11	RT	Planned Transmission Outage	PGAE	Humboldt	5/1/2021	15 - 30	No	INC	24	0:00	0:00	-11.60	15266.89	0.00	29.54	0.00	0.00	0.00	0.00	-36.80	0.00
12	RT	Planned Transmission Outage	PGAE	Humboldt	5/2/2021	15 - 30	No	INC	2	0:00	1:30	0.00	995.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	RT	Planned Transmission Outage	PGAE	Humboldt	5/5/2021	28	No	DEC	5	15:00	20:00	-0.63	-5848.51	0.00	48.36	0.00	0.00	0.00	0.00	-3120.47	0.00
14	RT	Planned Transmission Outage	PGAE	Humboldt	5/5/2021	28	No	INC	1	14:40	15:00	-1.39	0.00	0.00	101.21	0.00	0.00	0.00	0.00	0.00	0.00
15	RT	Planned Transmission Outage	PGAE	Humboldt	5/9/2021	48 - 64	No	DEC	7	17:30	0:00	1.71	-4764.08	0.00	144.53	0.00	0.00	0.00	0.00	-404.93	0.00
16	RT	Planned Transmission Outage	PGAE	Humboldt	5/9/2021	64	No	INC	2	17:30	19:00	1.76	162.32	0.00	-36.06	0.00	0.00	0.00	0.00	0.00	0.00
17	RT	Planned Transmission Outage	PGAE	Humboldt	5/10/2021	30 - 56	No	DEC	6	17:00	23:00	1.42	-3825.87	0.00	-47.69	-0.43	0.00	21.88	0.00	-1538.25	0.00

**California Independent System Operator Corporation
Exceptional Dispatch Report
July 15, 2021**

Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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
18	RT	Planned Transmission Outage	PGAE	Humboldt	5/10/2021	30 - 56	No	INC	19	5:00	0:00	11.89	-3246.29	0.00	-354.28	-0.35	0.00	9.28	0.00	-3.35	0.00
19	RT	Planned Transmission Outage	PGAE	Humboldt	5/11/2021	30 - 45	No	INC	3	0:00	2:15	0.46	6021.05	0.00	-17.79	0.00	0.00	0.00	0.00	0.00	0.00
20	RT	Planned Transmission Outage	PGAE	Humboldt	5/13/2021	42	No	INC	7	12:20	19:00	-1.78	0.00	0.00	61.10	0.00	0.00	0.00	0.00	0.00	0.00
21	RT	Planned Transmission Outage	PGAE	Humboldt	5/17/2021	30	No	INC	3	21:40	0:00	0.00	1566.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	RT	Planned Transmission Outage	PGAE	Humboldt	5/18/2021	30	No	INC	22	0:00	21:30	-80.50	12451.45	0.00	2675.05	-1.96	0.00	99.03	0.00	-60.91	0.00
23	RT	Planned Transmission Outage	PGAE	Humboldt	5/31/2021	30	No	DEC	5	19:05	0:00	-2.43	-5321.05	1164.95	233.12	-1.64	0.00	181.25	0.00	-382.35	0.00
24	RT	Planned Transmission Outage	PGAE	NCNB	5/1/2021	50	No	DEC	2	19:00	21:00	-1.74	0.00	0.00	-25.96	0.00	0.00	0.00	0.00	-1.59	0.00
25	RT	Planned Transmission Outage	PGAE	NCNB	5/1/2021	50	No	INC	16	7:25	23:00	-62.96	0.00	0.00	359.32	0.00	0.00	0.00	0.00	0.00	0.00
26	RT	Planned Transmission Outage	PGAE	NCNB	5/3/2021	30 - 45	No	DEC	14	8:00	22:00	4.35	0.00	0.00	-181.25	0.00	0.00	0.00	0.00	-	16522.49
27	RT	Planned Transmission Outage	PGAE	NCNB	5/3/2021	10 - 50	No	INC	17	7:00	0:00	-16.43	0.00	0.00	497.03	-13.07	0.00	385.48	0.00	-82.43	0.00
28	RT	Planned Transmission Outage	PGAE	NCNB	5/4/2021	50	No	DEC	8	7:00	15:00	0.24	0.00	0.00	-27.30	0.00	0.00	0.00	0.00	-2994.26	0.00
29	RT	Planned Transmission Outage	PGAE	NCNB	5/4/2021	45 - 50	No	INC	24	0:00	0:00	14.96	0.00	0.00	-85.33	-2.50	0.00	99.69	0.00	-56.34	0.00
30	RT	Planned Transmission Outage	PGAE	NCNB	5/5/2021	45 - 50	No	DEC	24	0:00	0:00	-4.85	0.00	0.00	408.62	-2.92	0.00	216.93	0.00	-	70579.75
31	RT	Planned Transmission Outage	PGAE	NCNB	5/6/2021	45 - 50	No	DEC	24	0:00	0:00	-23.91	0.00	0.00	876.30	-21.64	0.00	864.04	0.00	-	45572.30
32	RT	Planned Transmission Outage	PGAE	NCNB	5/6/2021	45	No	INC	3	16:00	19:00	-1.70	0.00	0.00	37.62	0.00	0.00	0.00	0.00	0.00	0.00
33	RT	Planned Transmission Outage	PGAE	NCNB	5/7/2021	50	No	DEC	24	0:00	0:00	-6.95	0.00	0.00	68.33	-2.58	0.00	69.99	0.00	-	25969.10
34	RT	Planned Transmission Outage	PGAE	NCNB	5/7/2021	50	No	INC	1	19:00	20:00	-0.05	0.00	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00
35	RT	Planned Transmission Outage	PGAE	NCNB	5/8/2021	40 - 50	No	DEC	24	0:00	0:00	-11.86	0.00	0.00	325.06	-6.05	0.00	181.79	0.00	-	12945.95

**California Independent System Operator Corporation
Exceptional Dispatch Report
July 15, 2021**

Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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	
36	RT	Planned Transmission Outage	PGAE	NCNB	5/8/2021	40 - 45	No	INC	15	5:00	20:00	-73.21	0.00	0.00	-462.70	-4.40	0.00	-6.94	0.00	-4.22	0.00	
37	RT	Planned Transmission Outage	PGAE	NCNB	5/9/2021	45	No	DEC	22	0:00	22:00	-3.59	0.00	0.00	568.55	0.00	0.00	0.00	0.00	-	10434.32	0.00
38	RT	Planned Transmission Outage	PGAE	NCNB	5/9/2021	45	No	INC	23	1:00	0:00	0.10	0.00	0.00	-1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	RT	Planned Transmission Outage	PGAE	NCNB	5/10/2021	45 - 60	No	DEC	24	0:00	0:00	0.26	0.00	0.00	12.05	-2.27	0.00	100.37	0.00	-	55932.03	0.00
40	RT	Planned Transmission Outage	PGAE	NCNB	5/11/2021	50	No	DEC	15	7:00	22:00	-23.37	0.00	0.00	249.14	-13.64	0.00	309.57	0.00	-	35846.41	0.00
41	RT	Planned Transmission Outage	PGAE	NCNB	5/11/2021	50	No	INC	24	0:00	0:00	0.16	0.00	0.00	-25.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	RT	Planned Transmission Outage	PGAE	NCNB	5/12/2021	50 - 55	No	DEC	24	0:00	0:00	-29.91	0.00	0.00	755.61	-19.91	0.00	641.44	0.00	-	27873.79	0.00
43	RT	Planned Transmission Outage	PGAE	NCNB	5/12/2021	50 - 55	No	INC	18	4:00	22:00	5.38	0.00	0.00	89.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	RT	Planned Transmission Outage	PGAE	NCNB	5/13/2021	50	No	DEC	16	7:00	23:00	-1.69	0.00	0.00	60.72	0.00	0.00	0.00	0.00	-	21331.61	0.00
45	RT	Planned Transmission Outage	PGAE	NCNB	5/13/2021	50	No	INC	24	0:00	0:00	1.68	0.00	0.00	-64.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	RT	Planned Transmission Outage	PGAE	NCNB	5/14/2021	50	No	DEC	16	6:00	22:00	-1.24	0.00	0.00	39.71	0.00	0.00	0.00	0.00	-	20982.29	0.00
47	RT	Planned Transmission Outage	PGAE	NCNB	5/14/2021	50	No	INC	24	0:00	0:00	0.88	0.00	0.00	-11.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	RT	Planned Transmission Outage	PGAE	NCNB	5/15/2021	50	No	DEC	24	0:00	0:00	-3.08	0.00	0.00	190.98	0.00	0.00	0.00	0.00	-	17210.04	0.00
49	RT	Planned Transmission Outage	PGAE	NCNB	5/15/2021	50	No	INC	21	2:00	23:00	0.56	0.00	0.00	-18.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	RT	Planned Transmission Outage	PGAE	NCNB	5/16/2021	50	No	DEC	15	6:00	21:00	-1.24	0.00	0.00	48.48	0.00	0.00	0.00	0.00	-	16827.89	0.00
51	RT	Planned Transmission Outage	PGAE	NCNB	5/16/2021	50	No	INC	24	0:00	0:00	2.50	0.00	0.00	-70.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	RT	Planned Transmission Outage	PGAE	NCNB	5/17/2021	50	No	DEC	23	1:00	0:00	-4.09	0.00	0.00	123.96	0.00	0.00	0.00	0.00	-	23040.44	0.00
53	RT	Planned Transmission Outage	PGAE	NCNB	5/17/2021	50	No	INC	7	0:00	7:00	-2.33	0.00	0.00	62.76	-2.82	0.00	78.55	0.00	-119.87	0.00	

**California Independent System Operator Corporation
Exceptional Dispatch Report
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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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		
54	RT	Planned Transmission Outage	PGAE	NCNB	5/18/2021	50	No	DEC	24	0:00	0:00	-0.84	0.00	0.00	27.37	0.00	0.00	0.00	0.00	0.00	-	34248.84	0.00
55	RT	Planned Transmission Outage	PGAE	NCNB	5/18/2021	50	No	INC	4	18:00	22:00	-0.10	0.00	0.00	8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	RT	Planned Transmission Outage	PGAE	NCNB	5/19/2021	45 - 50	No	DEC	24	0:00	0:00	-25.07	0.00	0.00	992.77	-20.47	0.00	980.32	0.00	0.00	-	42055.76	0.00
57	RT	Planned Transmission Outage	PGAE	NCNB	5/20/2021	45 - 75	No	DEC	24	0:00	0:00	-0.42	0.00	0.00	23.53	0.00	0.00	0.00	0.00	0.00	-	29923.05	0.00
58	RT	Planned Transmission Outage	PGAE	NCNB	5/20/2021	45 - 75	No	INC	5	18:00	23:00	15.22	0.00	0.00	-629.75	0.00	0.00	0.00	0.00	0.00	-53.84	0.00	
59	RT	Planned Transmission Outage	PGAE	NCNB	5/21/2021	75	No	DEC	1	0:00	1:00	-4.02	0.00	0.00	-60.24	0.00	0.00	0.00	0.00	0.00	-0.69	0.00	
60	RT	Planned Transmission Outage	PGAE	NCNB	5/21/2021	75	No	INC	1	1:00	2:00	-2.27	0.00	0.00	-34.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
61	RT	Planned Transmission Outage	PGAE	NCNB	5/23/2021	45 - 55	No	DEC	6	17:00	22:45	-0.17	0.00	0.00	6.16	-0.21	0.00	7.04	0.00	0.00	-284.06	0.00	
62	RT	Planned Transmission Outage	PGAE	NCNB	5/23/2021	45 - 55	No	INC	11	13:35	0:00	22.35	0.00	0.00	-89.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
63	RT	Planned Transmission Outage	PGAE	NCNB	5/24/2021	50	No	DEC	14	6:00	20:00	-7.33	0.00	0.00	218.69	-6.19	0.00	200.58	0.00	0.00	-3659.60	0.00	
64	RT	Planned Transmission Outage	PGAE	NCNB	5/24/2021	50 - 55	No	INC	24	0:00	0:00	-2.41	0.00	0.00	-77.52	-0.70	0.00	-3.72	0.00	0.00	-6.73	0.00	
65	RT	Planned Transmission Outage	PGAE	NCNB	5/25/2021	50 - 55	No	DEC	15	0:00	15:00	-18.19	0.00	0.00	817.63	-20.00	0.00	783.10	0.00	0.00	-1177.87	0.00	
66	RT	Planned Transmission Outage	PGAE	NCNB	5/25/2021	50 - 55	No	INC	23	1:00	0:00	-59.63	0.00	0.00	2414.96	-64.66	0.00	2584.33	0.00	0.00	-106.47	0.00	
67	RT	Planned Transmission Outage	PGAE	NCNB	5/26/2021	50	No	DEC	9	6:00	15:00	-0.41	0.00	0.00	19.53	0.00	0.00	0.00	0.00	0.00	-4874.41	0.00	
68	RT	Planned Transmission Outage	PGAE	NCNB	5/26/2021	50	No	INC	18	0:00	18:00	9.08	0.00	0.00	-318.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
69	RT	Planned Transmission Outage	PGAE	NCNB	5/29/2021	55	No	DEC	23	1:35	0:00	-19.04	0.00	0.00	488.23	-16.96	0.00	438.01	0.00	0.00	-	17677.79	0.00
70	RT	Planned Transmission Outage	PGAE	NCNB	5/29/2021	55	No	INC	16	6:00	22:00	-10.72	0.00	0.00	-86.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
71	RT	Planned Transmission Outage	PGAE	NCNB	5/30/2021	55	No	DEC	15	8:00	23:00	-0.81	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	-	10783.71	0.00

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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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	
72	RT	Planned Transmission Outage	PGAE	NCNB	5/30/2021	55	No	INC	24	0:00	0:00	-4.67	0.00	0.00	81.53	0.00	0.00	0.00	0.00	0.00	0.00	
73	RT	Planned Transmission Outage	PGAE	NCNB	5/31/2021	55	No	DEC	12	8:00	19:15	5.81	0.00	0.00	-2613.31	0.00	0.00	0.00	0.00	-	19897.20	0.00
74	RT	Planned Transmission Outage	PGAE	NCNB	5/31/2021	55	No	INC	8	0:00	8:00	0.04	0.00	0.00	-1.11	0.00	0.00	0.00	0.00	0.00	0.00	
75	RT	Planned Transmission Outage	PGAE	Sierra	5/3/2021	20	No	INC	3	21:30	0:00	-11.52	4869.25	200.50	508.90	0.00	0.00	0.00	0.00	0.00	0.00	
76	RT	Planned Transmission Outage	PGAE	Sierra	5/4/2021	47	No	DEC	2	19:00	21:00	6.38	0.00	0.00	-295.38	1.13	-54.57	0.00	0.00	-7.53	0.00	
77	RT	Planned Transmission Outage	PGAE	Sierra	5/4/2021	20 - 47	Yes	INC	6	18:10	0:00	22.28	24665.00	0.00	-908.42	11.25	-475.24	0.00	0.00	-1140.28	0.00	
78	RT	Planned Transmission Outage	PGAE	Sierra	5/5/2021	20 - 47	No	DEC	3	18:00	21:00	-0.96	0.00	0.00	114.92	-6.68	-112.85	554.02	0.00	-101.16	0.00	
79	RT	Planned Transmission Outage	PGAE	Sierra	5/5/2021	20 - 47	Yes	INC	24	0:00	0:00	-10.24	25278.82	0.00	-1285.54	6.75	-195.83	0.00	0.00	-2727.29	0.00	
80	RT	Planned Transmission Outage	PGAE	Sierra	5/6/2021	25	Yes	INC	3	0:00	3:00	0.00	5908.74	0.00	0.00	0.00	0.00	0.00	0.00	-195.48	0.00	
81	RT	Planned Transmission Outage	PGAE	Sierra	5/10/2021	20 - 49	No	INC	10	14:45	0:00	-21.27	58963.23	4614.68	959.42	3.96	795.97	0.00	0.00	-1738.82	0.00	
82	RT	Planned Transmission Outage	PGAE	Sierra	5/11/2021	40 - 47	No	DEC	5	17:00	22:00	10.29	-604.98	0.00	-5049.23	0.00	0.00	0.00	0.00	0.00	0.00	
83	RT	Planned Transmission Outage	PGAE	Sierra	5/11/2021	5 - 47	Yes	INC	24	0:00	0:00	111.96	55136.82	2014.59	1355.04	14.48	-1843.86	11428.06	0.00	-	13951.93	0.00
84	RT	Planned Transmission Outage	PGAE	Sierra	5/12/2021	47 - 49	No	DEC	6	16:00	22:00	19.81	0.00	0.00	-1294.20	13.50	-508.42	0.00	0.00	-238.38	0.00	
85	RT	Planned Transmission Outage	PGAE	Sierra	5/12/2021	7 - 49	No	INC	14	10:00	0:00	46.54	35737.57	0.00	6528.74	55.76	-2196.11	0.00	0.00	-9324.55	0.00	
86	RT	Planned Transmission Outage	PGAE	Sierra	5/13/2021	20 - 47	No	DEC	6	16:00	22:00	-3.52	0.00	0.00	276.06	7.57	-278.02	0.00	0.00	-154.20	0.00	
87	RT	Planned Transmission Outage	PGAE	Sierra	5/13/2021	3 - 49	No	INC	24	0:00	23:45	7.38	8998.36	0.00	-1124.58	9.64	-356.29	0.00	0.00	-684.24	0.00	
88	RT	Planned Transmission Outage	PGAE	Sierra	5/14/2021	40 - 45	No	DEC	5	17:00	22:00	-17.15	-627.28	0.00	882.79	0.00	0.00	0.00	0.00	0.00	0.00	
89	RT	Planned Transmission Outage	PGAE	Sierra	5/14/2021	40 - 50	No	INC	3	15:45	18:15	42.45	507.24	0.00	-1300.77	40.49	-1263.04	0.00	0.00	-1850.14	0.00	

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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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
90	RT	Planned Transmission Outage	PGAE	Sierra	5/15/2021	20	No	INC	2	18:45	20:45	-0.55	3926.64	232.78	30.98	0.00	0.00	0.00	0.00	0.00	0.00
91	RT	Planned Transmission Outage	PGAE	Sierra	5/16/2021	45	No	INC	7	17:05	0:00	8.46	13579.70	436.48	-310.67	6.87	-226.00	0.00	0.00	-1687.60	0.00
92	RT	Planned Transmission Outage	PGAE	Sierra	5/17/2021	45 - 47	No	DEC	3	19:00	22:00	-2.84	0.00	0.00	692.14	-5.93	-25.15	1023.01	0.00	-550.30	0.00
93	RT	Planned Transmission Outage	PGAE	Sierra	5/17/2021	20 - 47	Yes	INC	24	0:00	0:00	21.13	9325.77	0.00	-895.57	14.52	-339.42	329.94	0.00	-1236.89	0.00
94	RT	Planned Transmission Outage	PGAE	Sierra	5/18/2021	20 - 40	No	DEC	4	18:00	22:00	-19.96	0.00	0.00	594.08	0.00	0.00	0.00	0.00	0.00	0.00
95	RT	Planned Transmission Outage	PGAE	Sierra	5/18/2021	20 - 47	No	INC	24	0:00	0:00	-29.43	35302.87	0.00	1229.32	0.00	0.00	0.00	0.00	0.00	0.00
96	RT	Planned Transmission Outage	PGAE	Sierra	5/19/2021	20	No	DEC	3	19:35	22:00	-13.36	0.00	0.00	716.19	0.00	0.00	0.00	0.00	0.00	0.00
97	RT	Planned Transmission Outage	PGAE	Sierra	5/19/2021	20 - 40	Yes	INC	23	0:00	22:45	9.15	3899.74	0.00	-656.86	0.00	0.00	0.00	0.00	0.00	0.00
98	RT	Planned Transmission Outage	PGAE	Sierra	5/20/2021	20 - 42	Yes	INC	16	7:30	23:00	0.64	8221.87	423.56	-36.48	0.00	0.00	0.00	0.00	-17.09	0.00
99	RT	Planned Transmission Outage	PGAE	Sierra	5/21/2021	20	No	DEC	2	20:00	22:00	-8.04	0.00	0.00	397.52	0.00	0.00	0.00	0.00	0.00	0.00
100	RT	Planned Transmission Outage	PGAE	Sierra	5/21/2021	20	No	INC	5	19:40	0:00	-20.64	6575.67	229.65	1417.42	0.00	0.00	0.00	0.00	0.00	0.00
101	RT	Planned Transmission Outage	PGAE	Sierra	5/23/2021	40	No	DEC	2	15:00	17:00	-4.29	0.00	0.00	2.21	-4.29	0.00	2.21	0.00	0.00	0.00
102	RT	Planned Transmission Outage	PGAE	Sierra	5/23/2021	42	Yes	INC	2	21:40	23:15	1.75	4197.24	0.00	-56.41	0.00	0.00	0.00	0.00	0.00	0.00
103	RT	Planned Transmission Outage	PGAE	Sierra	5/27/2021	20	No	INC	22	1:00	23:00	1.21	13415.15	0.00	60.73	0.00	0.00	0.00	0.00	0.00	0.00
104	RT	Planned Transmission Outage	PGAE	Sierra	5/28/2021	20	No	DEC	3	19:00	22:00	-11.90	0.00	0.00	511.42	0.00	0.00	0.00	0.00	0.00	0.00
105	RT	Planned Transmission Outage	PGAE	Sierra	5/28/2021	20 - 35	No	INC	15	9:00	0:00	-1.44	34183.31	0.00	-710.56	1.67	-72.96	0.00	0.00	-10.61	0.00
106	RT	Planned Transmission Outage	PGAE	Sierra	5/29/2021	20	Yes	INC	1	0:00	0:30	0.00	962.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	RT	Planned Transmission Outage	PGAE	Sierra	5/30/2021	20 - 40	No	DEC	3	19:40	22:00	-42.51	0.00	0.00	1722.89	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/May/2021 - 31/May/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
108	RT	Planned Transmission Outage	PGAE	Sierra	5/30/2021	20 - 40	No	INC	2	22:00	0:00	3.97	8499.02	0.00	-199.65	0.00	0.00	0.00	0.00	0.00	0.00
109	RT	Planned Transmission Outage	PGAE	Sierra	5/31/2021	20 - 40	No	INC	8	0:00	8:00	0.00	33921.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	RT	Planned Transmission Outage	PGAE	Stockton	5/27/2021	140	No	DEC	10	6:50	16:00	-32.34	-56615.23	0.00	752.82	-42.69	0.00	1125.68	0.00	-1115.96	0.00
111	RT	Planned Transmission Outage	PGAE	Stockton	5/30/2021	40	No	DEC	22	2:25	0:00	-5.88	0.00	0.00	83.86	-5.88	0.00	83.86	0.00	-2161.65	0.00
112	RT	Planned Transmission Outage	PGAE	Stockton	5/31/2021	40	No	DEC	22	0:00	22:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3963.17	0.00
113	RT	Planned Transmission Outage	SCE	LA Basin	5/14/2021	46 - 47	No	DEC	2	19:00	21:00	-62.32	0.00	47.26	3335.19	-69.33	0.00	3629.73	0.00	-5281.21	0.00
114	RT	Planned Transmission Outage	SCE	LA Basin	5/14/2021	46 - 47	No	INC	14	5:30	19:00	-102.24	55526.22	390.88	4050.51	-61.14	-8.13	2227.77	0.00	-451.49	0.00
115	RT	Planned Transmission Outage	SCE	LA Basin	5/18/2021	47	No	INC	7	6:00	12:15	-14.21	25285.76	711.29	290.24	0.00	0.00	0.00	0.00	-708.88	0.00
116	RT	Planned Transmission Outage	SCE	NA	5/1/2021	34	No	DEC	5	19:20	0:00	-16.33	0.00	0.00	513.70	-16.33	0.00	513.70	0.00	-2802.87	0.00
117	RT	Planned Transmission Outage	SCE	NA	5/13/2021	410	No	DEC	3	5:55	8:00	1.11	-12217.70	0.00	87.84	0.00	0.00	0.00	0.00	0.00	0.00
118	RT	Planned Transmission Outage	SCE	NA	5/13/2021	350 - 410	No	INC	6	8:00	13:15	4.62	0.00	0.00	-186.92	0.00	0.00	0.00	0.00	0.00	0.00
119	RT	Planned Transmission Outage	SCE	NA	5/14/2021	450	No	DEC	1	21:45	21:50	-0.69	-410.14	0.00	25.09	0.00	0.00	0.00	0.00	0.00	0.00
120	RT	Planned Transmission Outage	SCE	NA	5/16/2021	2 - 57	No	DEC	13	10:35	23:30	28.44	0.00	0.00	3969.68	-12.41	0.00	-608.40	0.00	-173.39	0.00
121	RT	Planned Transmission Outage	SDGE	San Diego-IV	5/15/2021	225	No	INC	11	7:00	17:15	-3.89	75781.72	0.00	-317.42	0.00	0.00	0.00	0.00	0.00	0.00
122	RT	Ramping Capacity	PGAE	Humboldt	5/7/2021	15	No	DEC	7	0:00	6:15	-0.63	0.00	0.00	8.64	0.00	0.00	0.00	0.00	0.00	0.00
123	RT	Ramping Capacity	PGAE	Humboldt	5/7/2021	30	No	INC	7	0:00	6:15	-7.84	7410.75	0.00	192.13	0.00	0.00	0.00	0.00	0.00	0.00
124	RT	Ramping Capacity	PGAE	Sierra	5/25/2021	40	No	DEC	1	21:45	22:00	0.90	0.00	0.00	-36.17	0.00	0.00	0.00	0.00	0.00	0.00
125	RT	Ramping Capacity	PGAE	Sierra	5/25/2021	40	No	INC	2	22:00	0:00	6.04	4647.02	0.00	-397.56	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	Ramping Capacity	PGAE	Sierra	5/26/2021	20	No	INC	1	17:05	18:00	-1.90	1782.52	0.00	58.45	0.00	0.00	0.00	0.00	0.00	0.00
127	RT	Reliability Assessment	PGAE	Bay Area	5/1/2021	22 - 24	No	INC	10	11:40	21:00	11.88	0.00	0.00	-139.25	0.81	-6.75	0.00	0.00	0.00	0.00
128	RT	Reliability Assessment	PGAE	Bay Area	5/3/2021	22	No	INC	12	12:05	0:00	9.22	0.00	0.00	-238.18	0.00	0.00	0.00	0.00	0.00	0.00
129	RT	Reliability Assessment	PGAE	Bay Area	5/4/2021	0	No	DEC	5	17:00	22:00	-5.92	-34301.33	0.00	466.43	0.00	0.00	0.00	0.00	0.00	0.00
130	RT	Reliability Assessment	PGAE	Bay Area	5/4/2021	22	No	INC	14	10:30	0:00	301.56	0.00	0.00	-14531.37	0.00	0.00	0.00	0.00	0.00	0.00
131	RT	Reliability Assessment	PGAE	Bay Area	5/5/2021	22	No	DEC	1	19:45	20:00	0.93	0.00	0.00	-415.98	0.00	0.00	0.00	0.00	0.00	0.00
132	RT	Reliability Assessment	PGAE	Bay Area	5/5/2021	22	No	INC	4	20:00	0:00	-0.03	0.00	0.00	2.41	0.00	0.00	0.00	0.00	0.00	0.00
133	RT	Reliability Assessment	PGAE	Bay Area	5/6/2021	22	No	INC	15	9:00	0:00	-0.04	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00
134	RT	Reliability Assessment	PGAE	Bay Area	5/10/2021	22 - 24	No	INC	11	11:40	22:00	234.65	0.00	0.00	-16257.03	7.30	-706.70	0.00	0.00	0.00	0.00
135	RT	Reliability Assessment	PGAE	Bay Area	5/13/2021	22	No	DEC	4	17:00	21:00	1.92	0.00	0.00	-79.84	0.00	0.00	0.00	0.00	0.00	0.00
136	RT	Reliability Assessment	PGAE	Bay Area	5/13/2021	22	No	INC	8	14:15	22:00	6.04	0.00	0.00	-416.98	0.00	0.00	0.00	0.00	0.00	0.00
137	RT	Reliability Assessment	PGAE	Bay Area	5/14/2021	22	No	INC	7	17:30	0:00	9.25	0.00	0.00	-330.39	0.00	0.00	0.00	0.00	0.00	0.00
138	RT	Reliability Assessment	PGAE	Bay Area	5/15/2021	22	No	INC	2	0:00	2:00	-0.04	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00
139	RT	Reliability Assessment	PGAE	Bay Area	5/31/2021	22	No	DEC	3	18:05	21:00	6.53	0.00	0.00	-736.61	0.00	0.00	0.00	0.00	0.00	0.00
140	RT	Reliability Assessment	PGAE	Bay Area	5/31/2021	22	No	INC	3	21:00	23:30	0.25	0.00	0.00	-14.58	0.00	0.00	0.00	0.00	0.00	0.00
141	RT	Reliability Assessment	PGAE	Humboldt	5/2/2021	15 - 30	No	INC	23	1:15	0:00	-11.02	25057.53	0.00	-84.33	0.00	0.00	0.00	0.00	0.00	0.00
142	RT	Reliability Assessment	PGAE	Humboldt	5/3/2021	15	No	DEC	5	18:00	23:00	2.20	2323.21	0.00	-97.64	0.00	0.00	0.00	0.00	0.00	0.00
143	RT	Reliability Assessment	PGAE	Humboldt	5/3/2021	15 - 30	No	INC	24	0:00	0:00	-0.59	27380.73	0.00	12.31	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	
144	RT	Reliability Assessment	PGAE	Humboldt	5/4/2021	15 - 30	No	DEC	23	0:00	23:00	-10.30	-9751.26	0.00	52.81	0.00	0.00	0.00	0.00	0.00	0.00	
145	RT	Reliability Assessment	PGAE	Humboldt	5/4/2021	15 - 30	No	INC	24	0:00	0:00	-2.22	14484.71	0.00	29.49	0.00	0.00	0.00	0.00	0.00	0.00	
146	RT	Reliability Assessment	PGAE	Humboldt	5/5/2021	15 - 30	No	DEC	9	14:00	23:00	6.91	-7575.56	0.00	-330.37	0.00	0.00	0.00	0.00	0.00	-3120.47	0.00
147	RT	Reliability Assessment	PGAE	Humboldt	5/5/2021	15 - 30	No	INC	24	0:00	0:00	-2.18	6347.33	0.00	115.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	RT	Reliability Assessment	PGAE	Humboldt	5/6/2021	15 - 30	No	DEC	22	0:30	22:00	-31.86	-4202.17	0.00	1566.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	RT	Reliability Assessment	PGAE	Humboldt	5/6/2021	15 - 30	No	INC	24	0:00	0:00	-83.94	11089.91	0.00	1609.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	RT	Reliability Assessment	PGAE	Humboldt	5/7/2021	15	No	DEC	18	6:15	0:00	-20.95	0.00	0.00	34.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	RT	Reliability Assessment	PGAE	Humboldt	5/7/2021	30	No	INC	18	6:15	0:00	-98.19	6737.05	0.00	923.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	RT	Reliability Assessment	PGAE	Humboldt	5/8/2021	15 - 32	No	DEC	23	0:00	23:00	-1.92	9251.90	0.00	65.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	RT	Reliability Assessment	PGAE	Humboldt	5/8/2021	15 - 30	No	INC	24	0:00	0:00	-28.57	9089.62	0.00	-172.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	RT	Reliability Assessment	PGAE	Humboldt	5/9/2021	15 - 30	No	DEC	24	0:00	0:00	-4.03	-8334.99	0.00	61.32	0.00	0.00	0.00	0.00	0.00	-404.93	0.00
155	RT	Reliability Assessment	PGAE	Humboldt	5/9/2021	15 - 30	No	INC	18	0:00	18:00	4.30	1947.77	0.00	-107.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	RT	Reliability Assessment	PGAE	Humboldt	5/10/2021	15 - 30	No	INC	6	0:00	5:30	6.72	3246.30	0.00	-192.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	RT	Reliability Assessment	PGAE	Humboldt	5/11/2021	15 - 60	No	DEC	21	1:55	22:00	-60.56	-502.66	0.00	2695.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	RT	Reliability Assessment	PGAE	Humboldt	5/11/2021	30 - 60	No	INC	23	1:55	0:00	-31.07	10035.07	0.00	1158.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	RT	Reliability Assessment	PGAE	Humboldt	5/12/2021	15 - 30	No	DEC	20	2:45	22:00	1.43	0.00	0.00	-79.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	RT	Reliability Assessment	PGAE	Humboldt	5/12/2021	15 - 45	No	INC	24	0:00	0:00	-14.56	10286.94	0.00	476.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	RT	Reliability Assessment	PGAE	Humboldt	5/13/2021	15	No	DEC	19	4:00	23:00	-3.82	9989.52	0.00	127.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**California Independent System Operator Corporation
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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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
162	RT	Reliability Assessment	PGAE	Humboldt	5/13/2021	15 - 30	No	INC	24	0:00	0:00	-31.40	12010.51	0.00	983.97	0.00	0.00	0.00	0.00	0.00	0.00
163	RT	Reliability Assessment	PGAE	Humboldt	5/14/2021	15	No	DEC	23	0:00	23:00	1.75	9914.47	0.00	-63.74	0.00	0.00	0.00	0.00	0.00	0.00
164	RT	Reliability Assessment	PGAE	Humboldt	5/14/2021	15 - 30	No	INC	24	0:00	0:00	2.27	6181.99	0.00	-107.76	0.00	0.00	0.00	0.00	0.00	0.00
165	RT	Reliability Assessment	PGAE	Humboldt	5/15/2021	15	No	DEC	22	0:00	22:00	1.36	0.00	0.00	-99.08	0.00	0.00	0.00	0.00	0.00	0.00
166	RT	Reliability Assessment	PGAE	Humboldt	5/15/2021	15 - 30	No	INC	24	0:00	0:00	1.36	25516.01	0.00	-42.79	0.00	0.00	0.00	0.00	0.00	0.00
167	RT	Reliability Assessment	PGAE	Humboldt	5/16/2021	15	No	DEC	1	1:00	2:00	0.68	0.00	0.00	-26.19	0.00	0.00	0.00	0.00	0.00	0.00
168	RT	Reliability Assessment	PGAE	Humboldt	5/16/2021	15 - 30	No	INC	24	0:00	0:00	1.25	3357.37	0.00	-39.63	0.00	0.00	0.00	0.00	0.00	0.00
169	RT	Reliability Assessment	PGAE	Humboldt	5/17/2021	30	No	INC	19	5:20	0:00	11.14	31503.27	0.00	-429.02	0.00	0.00	0.00	0.00	0.00	0.00
170	RT	Reliability Assessment	PGAE	Humboldt	5/18/2021	30	No	INC	24	0:00	0:00	1.53	6138.04	0.00	-107.79	-0.18	0.00	2.27	0.00	0.00	0.00
171	RT	Reliability Assessment	PGAE	Humboldt	5/19/2021	15	No	DEC	21	0:45	21:00	196.09	-40263.59	0.00	-5590.03	0.00	0.00	0.00	0.00	0.00	0.00
172	RT	Reliability Assessment	PGAE	Humboldt	5/19/2021	15 - 30	No	INC	24	0:00	0:00	173.45	-350.09	0.00	-4886.60	-0.82	0.00	10.58	0.00	0.00	0.00
173	RT	Reliability Assessment	PGAE	Humboldt	5/20/2021	30 - 45	No	INC	24	0:00	0:00	22.90	-16752.37	0.00	-639.59	0.00	0.00	0.00	0.00	0.00	0.00
174	RT	Reliability Assessment	PGAE	Humboldt	5/21/2021	15 - 45	No	INC	24	0:00	0:00	2.99	49797.15	0.00	-589.39	0.00	0.00	0.00	0.00	0.00	0.00
175	RT	Reliability Assessment	PGAE	Humboldt	5/22/2021	15 - 30	No	DEC	22	2:30	0:00	-0.39	-3734.33	0.00	-32.88	0.00	0.00	0.00	0.00	0.00	0.00
176	RT	Reliability Assessment	PGAE	Humboldt	5/22/2021	30	No	INC	24	0:00	0:00	-0.62	13603.39	0.00	-45.68	0.00	0.00	0.00	0.00	0.00	0.00
177	RT	Reliability Assessment	PGAE	Humboldt	5/23/2021	15	No	DEC	8	0:00	8:00	0.17	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
178	RT	Reliability Assessment	PGAE	Humboldt	5/23/2021	15 - 30	No	INC	24	0:00	0:00	27.63	32349.52	0.00	-729.37	13.01	-159.10	0.00	0.00	0.00	0.00
179	RT	Reliability Assessment	PGAE	Humboldt	5/24/2021	15	No	DEC	24	0:45	0:00	2.36	0.00	0.00	-51.76	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/May/2021 - 31/May/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
180	RT	Reliability Assessment	PGAE	Humboldt	5/24/2021	15 - 30	No	INC	24	0:00	0:00	48.61	20405.08	0.00	-1645.91	0.00	0.00	0.00	0.00	0.00	0.00
181	RT	Reliability Assessment	PGAE	Humboldt	5/25/2021	15	No	DEC	24	0:00	0:00	2.03	0.00	0.00	-74.37	0.00	0.00	0.00	0.00	0.00	0.00
182	RT	Reliability Assessment	PGAE	Humboldt	5/25/2021	15 - 30	No	INC	24	0:00	0:00	23.00	21664.32	0.00	-1013.03	0.00	0.00	0.00	0.00	0.00	0.00
183	RT	Reliability Assessment	PGAE	Humboldt	5/26/2021	15 - 30	No	DEC	20	4:30	0:00	-1.24	-10142.71	0.00	74.67	0.00	0.00	0.00	0.00	0.00	0.00
184	RT	Reliability Assessment	PGAE	Humboldt	5/26/2021	15 - 30	No	INC	24	0:00	0:00	7.30	15000.53	0.00	-283.25	0.00	0.00	0.00	0.00	0.00	0.00
185	RT	Reliability Assessment	PGAE	Humboldt	5/27/2021	15	No	DEC	24	0:00	0:00	-0.68	3275.85	0.00	37.13	0.00	0.00	0.00	0.00	0.00	0.00
186	RT	Reliability Assessment	PGAE	Humboldt	5/27/2021	30	No	INC	24	0:00	0:00	2.35	28172.31	0.00	-126.76	0.00	0.00	0.00	0.00	0.00	0.00
187	RT	Reliability Assessment	PGAE	Humboldt	5/28/2021	15 - 30	No	DEC	24	0:00	0:00	-2.72	-18313.33	0.00	97.91	0.00	0.00	0.00	0.00	0.00	0.00
188	RT	Reliability Assessment	PGAE	Humboldt	5/28/2021	15 - 30	No	INC	24	0:00	0:00	2.20	22381.36	0.00	-10.93	0.33	-4.05	0.00	0.00	0.00	0.00
189	RT	Reliability Assessment	PGAE	Humboldt	5/29/2021	15	No	DEC	24	0:00	0:00	-3.58	0.00	0.00	-11.57	0.00	0.00	0.00	0.00	0.00	0.00
190	RT	Reliability Assessment	PGAE	Humboldt	5/29/2021	15	No	INC	24	0:00	0:00	-4.66	13165.60	0.00	16.94	0.00	0.00	0.00	0.00	0.00	0.00
191	RT	Reliability Assessment	PGAE	Humboldt	5/30/2021	15	No	DEC	22	0:00	22:00	-1.52	-6748.10	730.75	55.22	0.00	0.00	0.00	0.00	0.00	0.00
192	RT	Reliability Assessment	PGAE	Humboldt	5/30/2021	15 - 45	No	INC	24	0:00	0:00	0.01	11848.95	0.00	-55.26	1.50	-18.22	0.00	0.00	0.00	0.00
193	RT	Reliability Assessment	PGAE	Humboldt	5/31/2021	15 - 30	No	DEC	20	2:45	22:00	-0.68	822.84	0.00	-36.78	0.00	0.00	0.00	0.00	0.00	0.00
194	RT	Reliability Assessment	PGAE	Humboldt	5/31/2021	30 - 45	No	INC	16	0:00	16:00	6.90	8063.85	0.00	-509.16	0.00	0.00	0.00	0.00	0.00	0.00
195	RT	Reliability Assessment	PGAE	NCNB	5/16/2021	60	No	DEC	1	23:35	0:00	-5.58	0.00	0.00	-109.81	-6.33	0.00	-94.88	0.00	0.00	0.00
196	RT	Reliability Assessment	PGAE	NCNB	5/17/2021	60	No	DEC	23	1:00	0:00	-22.04	0.00	0.00	-328.79	-22.00	0.00	-330.00	0.00	0.00	0.00
197	RT	Reliability Assessment	PGAE	NCNB	5/17/2021	60	No	INC	7	0:00	7:00	-12.75	0.00	0.00	80.23	-9.00	0.00	9.00	0.00	0.00	0.00

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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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
198	RT	Reliability Assessment	PGAE	NCNB	5/18/2021	60	No	DEC	24	0:00	0:00	-0.38	0.00	0.00	29.33	0.00	0.00	0.00	0.00	0.00	0.00
199	RT	Reliability Assessment	PGAE	NCNB	5/18/2021	60	No	INC	1	18:00	19:00	-1.42	0.00	0.00	67.29	0.00	0.00	0.00	0.00	0.00	0.00
200	RT	Reliability Assessment	PGAE	NCNB	5/19/2021	60	No	DEC	24	0:00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	RT	Reliability Assessment	PGAE	NCNB	5/19/2021	60	No	INC	1	20:00	21:00	-18.00	0.00	0.00	18.00	-18.00	0.00	18.00	0.00	0.00	0.00
202	RT	Reliability Assessment	PGAE	NCNB	5/20/2021	60 - 70	No	DEC	18	0:00	18:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	RT	Reliability Assessment	PGAE	NCNB	5/20/2021	70	No	INC	4	18:00	21:15	7.28	0.00	0.00	-326.87	0.00	0.00	0.00	0.00	0.00	0.00
204	RT	Reliability Assessment	PGAE	Sierra	5/5/2021	20	No	INC	5	12:25	16:30	-3.48	3914.14	0.00	236.26	6.75	-195.83	0.00	0.00	-137.55	0.00
205	RT	Reliability Assessment	PGAE	Sierra	5/8/2021	8.8 - 10.2	No	INC	3	10:00	13:00	5.99	52.75	0.00	61.21	0.00	0.00	0.00	0.00	0.00	0.00
206	RT	Reliability Assessment	PGAE	Sierra	5/17/2021	17 - 45	No	DEC	3	21:35	0:00	-12.83	0.00	0.00	-8735.29	-12.48	0.00	-8554.55	0.00	0.00	0.00
207	RT	Reliability Assessment	PGAE	Sierra	5/18/2021	17	No	DEC	2	0:00	1:30	0.34	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00
208	RT	Reliability Assessment	PGAE	Sierra	5/18/2021	24 - 45	No	INC	2	0:00	1:30	-1.22	0.00	0.00	-427.50	0.00	0.00	0.00	0.00	0.00	0.00
209	RT	Reliability Assessment	PGAE	Sierra	5/24/2021	42	No	DEC	1	21:45	22:00	1.05	0.00	0.00	-32.84	0.00	0.00	0.00	0.00	0.00	0.00
210	RT	Reliability Assessment	PGAE	Sierra	5/24/2021	42	No	INC	2	22:00	23:15	0.58	4197.24	0.00	-35.48	0.00	0.00	0.00	0.00	0.00	0.00
211	RT	Reliability Assessment	PGAE	Sierra	5/26/2021	0	No	DEC	3	19:00	22:00	0.00	-5833.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	RT	Reliability Assessment	PGAE	Sierra	5/31/2021	20 - 40	No	DEC	5	18:00	23:00	-11.30	0.00	0.00	689.73	0.00	0.00	0.00	0.00	0.00	0.00
213	RT	Reliability Assessment	PGAE	Sierra	5/31/2021	11 - 40	No	INC	9	15:55	0:00	1.86	10539.57	0.00	-801.53	0.66	-39.73	0.00	0.00	0.00	0.00
214	RT	Reliability Assessment	SCE	NA	5/1/2021	460	No	INC	5	0:00	4:15	23.88	6291.84	0.00	-602.87	0.00	0.00	0.00	0.00	0.00	0.00
215	RT	Reliability Assessment	SCE	NA	5/2/2021	37 - 42	No	DEC	5	18:30	23:00	-11.71	0.00	0.00	-717.55	-13.60	0.00	-772.41	0.00	0.00	0.00

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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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
216	RT	Reliability Assessment	SCE	NA	5/2/2021	42 - 52	No	INC	1	23:00	0:00	-0.28	0.00	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00
217	RT	Reliability Assessment	SCE	NA	5/3/2021	52	No	INC	1	0:00	1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	RT	Reliability Assessment	SCE	NA	5/18/2021	78	No	INC	1	15:30	16:15	-4.43	0.00	0.00	-7.11	-5.00	0.00	-0.05	0.00	0.00	0.00
219	RT	Software Limitation	PGAE	Bay Area	5/30/2021	24 - 100	No	INC	3	19:30	22:00	-286.71	0.00	0.00	11503.23	0.00	0.00	0.00	0.00	0.00	0.00
220	RT	Software Limitation	PGAE	NA	5/5/2021	48.95	No	DEC	1	17:00	18:00	11.56	1396.39	0.00	-347.40	0.00	0.00	0.00	0.00	0.00	0.00
221	RT	Software Limitation	PGAE	NA	5/5/2021	48.95	No	INC	3	14:35	17:00	60.64	2792.78	0.00	-1588.85	0.00	0.00	0.00	0.00	0.00	0.00
222	RT	Software Limitation	PGAE	NA	5/14/2021	48.95	No	INC	6	13:15	19:00	-37.77	29316.87	1095.49	973.99	0.00	0.00	0.00	0.00	0.00	0.00
223	RT	Software Limitation	SCE	Big Creek-Ventura	5/1/2021	0	No	INC	1	23:25	23:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	RT	Unit Testing	PGAE	Bay Area	5/3/2021	250 - 290	No	INC	2	8:35	10:00	-22.73	0.00	0.00	677.12	0.00	0.00	0.00	0.00	0.00	0.00
225	RT	Unit Testing	PGAE	Fresno	5/27/2021	3	No	DEC	2	11:30	13:00	-1.92	0.00	0.00	1.06	-2.86	0.00	1.12	0.00	0.00	0.00
226	RT	Unit Testing	PGAE	Sierra	5/29/2021	287	No	INC	1	15:30	15:50	-39.94	0.00	0.00	666.34	1.04	-40.97	0.00	0.00	0.00	0.00
227	RT	Unit Testing	PGAE	NA	5/5/2021	5	No	INC	4	9:00	13:00	-2.04	0.00	0.00	58.55	0.00	0.00	0.00	0.00	0.00	0.00
228	RT	Unit Testing	PGAE	NA	5/6/2021	100	No	INC	2	12:55	14:00	100.59	0.00	0.00	-2514.19	2.10	-81.67	0.00	0.00	0.00	0.00
229	RT	Unit Testing	PGAE	NA	5/21/2021	245	No	INC	2	4:35	6:00	58.49	2583.58	0.00	-1948.64	0.00	0.00	0.00	0.00	0.00	0.00
230	RT	Unit Testing	SCE	Big Creek-Ventura	5/3/2021	100 - 741	No	INC	9	15:00	0:00	-119.07	0.00	0.00	2234.39	72.51	-3580.16	0.00	0.00	0.00	0.00
231	RT	Unit Testing	SCE	Big Creek-Ventura	5/4/2021	100	No	INC	16	0:00	16:00	74.78	186860.21	0.00	-2372.82	0.00	0.00	0.00	0.00	0.00	0.00
232	RT	Unit Testing	SCE	Big Creek-Ventura	5/12/2021	0	No	INC	1	2:30	3:00	-0.63	0.00	0.00	20.38	0.00	0.00	0.00	0.00	0.00	0.00
233	RT	Unit Testing	SCE	LA Basin	5/25/2021	93	No	INC	1	12:00	12:10	2.34	0.00	0.00	-68.96	2.34	-68.96	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
234	RT	Unit Testing	SCE	LA Basin	5/26/2021	250	No	INC	4	2:35	6:00	119.58	0.00	0.00	-4181.59	82.83	-3160.09	0.00	0.00	0.00	0.00
235	RT	Unit Testing	SCE	NA	5/1/2021	14 - 45	No	INC	13	6:00	19:00	518.54	0.00	0.00	-7991.11	517.92	-7980.34	0.00	0.00	0.00	0.00
236	RT	Unit Testing	SCE	NA	5/2/2021	14 - 45	No	INC	13	6:00	19:00	523.12	0.00	0.00	-1424.97	518.12	-1349.50	0.00	0.00	0.00	0.00
237	RT	Unit Testing	SCE	NA	5/3/2021	25 - 76	No	INC	13	6:00	19:00	904.48	0.00	0.00	-13373.37	877.58	-12869.96	0.00	0.00	0.00	0.00
238	RT	Unit Testing	SCE	NA	5/4/2021	34.35 - 104.72	No	INC	13	6:00	19:00	1228.86	0.00	0.00	-25677.59	1209.28	-25086.34	0.00	0.00	0.00	0.00
239	RT	Unit Testing	SCE	NA	5/5/2021	34.35 - 104.72	No	INC	13	6:00	19:00	1223.53	0.00	0.00	-27822.27	1209.12	-27440.20	0.00	0.00	0.00	0.00
240	RT	Unit Testing	SCE	NA	5/6/2021	34.35 - 104.72	No	INC	13	6:00	19:00	1215.40	0.00	0.00	-21019.88	1208.96	-20865.80	0.00	0.00	0.00	0.00
241	RT	Unit Testing	SCE	NA	5/7/2021	35 - 105	No	INC	13	6:00	19:00	1222.67	0.00	0.00	-5596.61	1215.72	-5541.93	0.00	0.00	0.00	0.00
242	RT	Unit Testing	SCE	NA	5/8/2021	35 - 105	No	INC	13	6:00	19:00	1221.77	0.00	0.00	-3194.03	1215.67	-3140.68	0.00	0.00	0.00	0.00
243	RT	Unit Testing	SCE	NA	5/9/2021	26 - 77	No	INC	13	6:00	19:00	905.72	0.00	0.00	-6658.14	892.61	-6355.01	0.00	0.00	0.00	0.00
244	RT	Unit Testing	SCE	NA	5/10/2021	26 - 77	No	INC	13	6:00	19:00	907.74	0.00	0.00	-13177.76	892.64	-12829.81	0.00	0.00	0.00	0.00
245	RT	Unit Testing	SCE	NA	5/11/2021	26 - 77	No	INC	13	6:00	19:00	905.75	0.00	0.00	-14120.84	890.65	-13709.00	0.00	0.00	0.00	0.00
246	RT	Unit Testing	SCE	NA	5/12/2021	26 - 77	No	INC	13	6:00	19:00	906.07	0.00	0.00	-21630.42	890.35	-21164.75	0.00	0.00	0.00	0.00
247	RT	Unit Testing	SCE	NA	5/13/2021	26 - 77	No	INC	13	6:00	19:00	905.65	0.00	0.00	-22090.53	890.35	-21602.20	0.00	0.00	0.00	0.00
248	RT	Unit Testing	SCE	NA	5/14/2021	26 - 475	No	INC	13	6:00	19:00	933.35	-3285.01	0.00	-18943.21	914.56	-18384.82	0.00	0.00	0.00	0.00
249	RT	Unit Testing	SCE	NA	5/15/2021	26 - 77	No	INC	13	6:00	19:00	913.43	0.00	0.00	-5640.67	890.49	-5114.23	0.00	0.00	0.00	0.00

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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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
250	RT	Unit Testing	SCE	NA	5/16/2021	25 - 73	No	INC	13	6:00	19:00	893.59	0.00	0.00	-4505.00	845.69	-4081.49	0.00	0.00	0.00	0.00
251	RT	Unit Testing	SCE	NA	5/17/2021	25 - 73	No	INC	13	6:00	19:00	886.37	0.00	0.00	-12190.44	845.62	-11509.17	0.00	0.00	0.00	0.00
252	RT	Unit Testing	SCE	NA	5/18/2021	24.14 - 73.58	No	INC	13	5:00	18:00	912.62	0.00	0.00	-6998.61	849.85	-6141.70	0.00	0.00	0.00	0.00
253	RT	Unit Testing	SCE	NA	5/19/2021	31.57 - 96.23	No	INC	13	5:00	18:00	1128.39	0.00	0.00	-22858.74	1110.70	-22382.80	0.00	0.00	0.00	0.00
254	RT	Unit Testing	SCE	NA	5/20/2021	46.42 - 141.51	No	INC	13	5:00	18:00	1634.78	0.00	0.00	-26477.71	1632.84	-26425.38	0.00	0.00	0.00	0.00
255	RT	Unit Testing	SCE	NA	5/21/2021	46.42 - 141.51	No	INC	13	6:00	19:00	1655.40	0.00	0.00	-13294.78	1633.50	-12955.06	0.00	0.00	0.00	0.00
256	RT	Unit Testing	SCE	NA	5/22/2021	46.42 - 141.51	No	INC	13	5:00	18:00	1694.28	0.00	0.00	-5666.80	1634.31	-5573.28	0.00	0.00	0.00	0.00
257	RT	Unit Testing	SCE	NA	5/23/2021	36.21 - 110.38	No	INC	13	5:00	18:00	1352.47	0.00	0.00	-3808.34	1275.09	-4107.46	0.00	0.00	0.00	0.00
258	RT	Unit Testing	SCE	NA	5/24/2021	39.92 - 121.7	No	INC	13	5:00	18:00	1485.43	0.00	0.00	-15524.01	1405.84	-13991.52	0.00	0.00	0.00	0.00
259	RT	Unit Testing	SCE	NA	5/25/2021	39.92 - 121.7	No	INC	13	5:00	18:00	1478.40	0.00	0.00	-28726.53	1405.80	-26768.10	0.00	0.00	0.00	0.00
260	RT	Unit Testing	SCE	NA	5/26/2021	43.26 - 140	No	INC	13	5:00	18:00	1618.55	0.00	0.00	-36013.05	1550.86	-34640.94	0.00	0.00	0.00	0.00
261	RT	Unit Testing	SCE	NA	5/27/2021	49 - 140	No	INC	13	5:00	18:00	1711.70	0.00	0.00	-23586.64	1639.82	-22152.83	0.00	0.00	0.00	0.00
262	RT	Unit Testing	SCE	NA	5/28/2021	49 - 140	No	INC	13	6:00	19:00	1677.99	0.00	0.00	-29720.46	1634.13	-28655.42	0.00	0.00	0.00	0.00
263	RT	Unit Testing	SCE	NA	5/29/2021	49.21 - 140	No	INC	13	5:00	18:00	1713.73	0.00	0.00	-19917.89	1640.38	-18363.07	0.00	0.00	0.00	0.00

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Chart 2: Table of Exceptional Dispatches for Period 01/May/2021 - 31/May/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
264	RT	Unit Testing	SCE	NA	5/30/2021	42 - 130	No	INC	13	6:00	19:00	1555.46	0.00	0.00	-17824.36	1501.66	-16507.21	0.00	0.00	0.00	0.00
265	RT	Unit Testing	SCE	NA	5/31/2021	43 - 130	No	INC	13	6:00	19:00	1558.32	0.00	0.00	-37256.66	1509.54	-35691.10	0.00	0.00	0.00	0.00
266	RT	Unit Testing	SDGE	San Diego-IV	5/7/2021	490	No	INC	2	11:50	13:00	120.39	-13605.18	0.00	-5319.32	120.54	-5319.32	0.00	0.00	0.00	0.00
267	RT	Unit Testing	SDGE	San Diego-IV	5/8/2021	575	No	INC	1	22:20	22:30	0.00	-1708.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268	RT	Unit Testing	SDGE	San Diego-IV	5/11/2021	44.27	No	INC	1	19:55	20:00	3.44	205.61	0.00	-170.57	1.37	-77.65	0.00	0.00	0.00	0.00
269	RT	Voltage Support	PGAE	Fresno	5/1/2021	-312	No	DEC	4	17:00	20:30	60.29	0.00	0.00	1321.74	0.00	0.00	0.00	0.00	0.00	0.00
270	RT	Voltage Support	PGAE	Sierra	5/22/2021	20	No	DEC	3	19:00	22:00	20.20	0.00	0.00	-2877.63	0.00	0.00	0.00	0.00	0.00	0.00
271	RT	Voltage Support	PGAE	Sierra	5/22/2021	20	No	INC	5	18:40	23:00	6.99	1935.20	0.00	-1941.33	0.00	0.00	0.00	0.00	0.00	0.00
272	RT	Voltage Support	SCE	NA	5/18/2021	78	No	INC	5	15:05	20:00	-8.85	0.00	0.00	-85.34	-13.15	0.00	49.08	0.00	-46.14	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 costs⁸. Only those quantities which relate to pre-day-ahead unit commitments are shown in this table.

⁸ 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.

Table 2: Instructions Prior to Day-Ahead Market

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

This data is summarized as shown in Table 3, which is the prescribed format specified in the FERC order on September 02, 2009. This summary classifies the data by reason, resource location, local reliability area, and trade date. The MW column in Table 3 is the range of MW; in this case the minimum instruction MW is 20 MW for resource C which occurs from hours ending 21 through 23. The maximum instruction occurs in hour ending 10. In this hour resource A is committed at 50 MW, resource B is committed at 30 MW and resource C is committed at 20 MW. This adds up to 100 MW. The MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. Commitments are broken out separately from energy dispatches. In the day-ahead however, the exceptional dispatches are nearly always just commitments, as in this example. The Begin Time column shows hour ending 5 as this was the hour ending for first dispatch of the day, and the End Time column shows hour ending 23, as this was the hour with last dispatch. It is also possible there might be hours between the begin time and the end time where there might not be exceptional dispatch instructions for the given 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	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 given reason. Both volume and cost information columns are the summation for all the respective columns for resources A, B and C. For instance, the Total volume (MWh) column is calculated as summation of 180,60,0 and 50, which are the individual volumes (MWh) for resources A, B and C for time periods shown in Table 4.

Table 5: FERC Summary of ED Instructions in RTM

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

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

Example 3: Decremental Exceptional Dispatch Instructions in RTM

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

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

Table 6: Decremental Exceptional Dispatch Instructions in RTM

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

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

Table 7: FERC Summary of Decremental ED Instructions in RTM

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

Appendix B: Price Impact Analysis

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

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

Exceptional dispatch information: constrained level, constraint type, start of exceptional dispatch instruction and end of exceptional dispatch instruction.
 Real-Time LMPs for each of the five minute intervals for the month.
 Real-Time hourly bid set for each trade hour.
 Day-Ahead award for the resources.

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

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

Table 8 shows the price impact analysis information for node A, which is in the PG&E area. This table shows all the five minute intervals in which the resource at PNode A was issued an exceptional dispatch instruction and was eligible to set the price. Out of the 8,928 five-minute intervals in May, this resource was issued exceptional dispatch instructions in 6,896 five-minute intervals. This resource was eligible to set the LMP in 6,896 intervals. Out of the 6,896 intervals, resource calculated LMP was larger than the market LMP in 275 intervals. In the 275 intervals, the average increase in five minute LMP was \$9.35/MWh. Out of the 6,896 intervals, resource calculated LMP was less than the market LMP in 6,621 intervals. In the 6,621 intervals, the average decrease in five minute LMP was \$42.22/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 \$40.17/MWh

Table 9 shows the price impact analysis information for node B, which is in the SCE area. This table shows all the five minute intervals in which the resource at PNode B was issued an exceptional dispatch instruction and was eligible to set the price. Out of the 8,928 five-minute intervals in May, this resource was issued exceptional dispatch instructions in 12 five-minute intervals. This resource was eligible to set the LMP in 12 intervals. Out of the 12 intervals, resource calculated LMP was larger than the market LMP in 12 intervals. In the 12 intervals, the average increase in five minute LMP was \$4.91/MWh. Out of the 12 intervals, resource calculated LMP was less than the market LMP in 0 intervals. This implies that if the CAISO could model the constraint for this exceptional dispatch, then this resource and all other pricing nodes associated with that constraint would observe an average increase of \$4.91/MWh

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

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	5/1/2021	8	6	35.08	Yes	26.83	-8.25
2	5/1/2021	8	7	26.05	Yes	26.83	0.78
3	5/1/2021	8	8	22.73	Yes	26.83	4.10
4	5/1/2021	8	9	21.43	Yes	26.83	5.40
5	5/1/2021	8	10	21.17	Yes	26.83	5.66
6	5/1/2021	8	11	21.68	Yes	26.83	5.15
7	5/1/2021	8	12	21.62	Yes	26.83	5.21
8	5/1/2021	9	1	21.48	Yes	22.48	1.00
9	5/1/2021	9	2	21.48	Yes	22.48	1.00
10	5/1/2021	9	3	21.48	Yes	22.48	1.00
11	5/1/2021	9	4	21.52	Yes	22.48	0.96
12	5/1/2021	9	5	21.51	Yes	22.48	0.97
13	5/1/2021	9	6	21.21	Yes	22.48	1.27
14	5/1/2021	9	7	21.44	Yes	22.48	1.04
15	5/1/2021	9	8	21.38	Yes	22.48	1.10
16	5/1/2021	9	9	19.67	Yes	22.48	2.81
17	5/1/2021	9	10	15.85	Yes	22.48	6.63
18	5/1/2021	9	11	5.28	Yes	22.48	17.20
19	5/1/2021	9	12	15.34	Yes	22.48	7.14
20	5/1/2021	10	1	19.42	Yes	24.08	4.66
21	5/1/2021	10	2	19.39	Yes	24.08	4.69
22	5/1/2021	10	3	19.42	Yes	20.25	0.83
23	5/1/2021	10	4	19.27	Yes	24.08	4.81
24	5/1/2021	10	5	19.31	Yes	24.08	4.77
25	5/1/2021	10	6	19.51	Yes	24.08	4.57
26	5/1/2021	10	7	19.45	Yes	24.08	4.63
27	5/1/2021	10	8	18.97	Yes	24.08	5.11
28	5/1/2021	10	9	18.78	Yes	24.08	5.30
29	5/1/2021	10	10	17.73	Yes	24.08	6.35
30	5/1/2021	10	11	17.73	Yes	24.08	6.35
31	5/1/2021	10	12	19.64	Yes	24.08	4.44
32	5/1/2021	11	1	20.43	Yes	21.71	1.28
33	5/1/2021	11	2	18.89	Yes	21.71	2.82
34	5/1/2021	11	3	18.10	Yes	21.71	3.61

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
35	5/1/2021	11	4	15.81	Yes	21.71	5.90
36	5/1/2021	11	5	15.37	Yes	15.36	-0.01
37	5/1/2021	11	6	11.22	Yes	11.18	-0.04
38	5/1/2021	11	7	-0.01	Yes	9.96	9.97
39	5/1/2021	11	8	15.73	Yes	9.31	-6.42
40	5/1/2021	11	9	16.66	Yes	9.31	-7.35
41	5/1/2021	11	10	9.31	Yes	9.31	0.00
42	5/1/2021	11	11	-0.01	Yes	13.43	13.44
43	5/1/2021	11	12	-0.01	Yes	9.31	9.32
44	5/1/2021	12	1	-0.01	Yes	9.31	9.32
45	5/1/2021	12	2	-0.01	Yes	9.31	9.32
46	5/1/2021	12	3	-0.01	Yes	9.31	9.32
47	5/1/2021	12	4	-0.01	Yes	9.31	9.32
48	5/1/2021	12	5	-0.01	Yes	9.31	9.32
49	5/1/2021	12	6	-0.01	Yes	9.31	9.32
50	5/1/2021	12	7	-0.01	Yes	18.07	18.08
51	5/1/2021	12	8	-0.01	Yes	18.07	18.08
52	5/1/2021	12	9	-0.01	Yes	18.07	18.08
53	5/1/2021	12	10	-0.01	Yes	18.07	18.08
54	5/1/2021	12	11	-0.01	Yes	18.07	18.08
55	5/1/2021	12	12	-0.01	Yes	18.07	18.08
56	5/1/2021	13	1	4.58	Yes	9.31	4.73
57	5/1/2021	13	2	-0.01	Yes	9.31	9.32
58	5/1/2021	13	3	-0.01	Yes	9.31	9.32
59	5/1/2021	13	4	-0.01	Yes	9.31	9.32
60	5/1/2021	13	5	-0.01	Yes	9.31	9.32
61	5/1/2021	13	6	-0.01	Yes	9.31	9.32
62	5/1/2021	13	7	-0.01	Yes	9.31	9.32
63	5/1/2021	13	8	-0.01	Yes	9.31	9.32
64	5/1/2021	13	9	-0.01	Yes	9.31	9.32
65	5/1/2021	13	10	-0.01	Yes	17.8	17.81
66	5/1/2021	13	11	12.69	Yes	17.8	5.11
67	5/1/2021	13	12	14.58	Yes	17.8	3.22
68	5/1/2021	14	1	5.17	Yes	9.31	4.14
69	5/1/2021	14	2	2.46	Yes	12.08	9.62
70	5/1/2021	14	3	5.17	Yes	12.08	6.91
71	5/1/2021	14	4	13.17	Yes	12.08	-1.09
72	5/1/2021	14	5	5.12	Yes	12.08	6.96

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
73	5/1/2021	14	6	5.13	Yes	12.08	6.95
74	5/1/2021	14	7	13.24	Yes	12.08	-1.16
75	5/1/2021	14	8	15.05	Yes	12.08	-2.97
76	5/1/2021	14	9	14.15	Yes	12.08	-2.07
77	5/1/2021	14	10	11.09	Yes	12.08	0.99
78	5/1/2021	14	11	11.09	Yes	12.08	0.99
79	5/1/2021	14	12	11.09	Yes	12.08	0.99
80	5/1/2021	15	1	10.39	Yes	11.37	0.98
81	5/1/2021	15	2	10.39	Yes	11.37	0.98
82	5/1/2021	15	3	10.39	Yes	11.37	0.98
83	5/1/2021	15	4	10.39	Yes	11.37	0.98
84	5/1/2021	15	5	5.26	Yes	11.37	6.11
85	5/1/2021	15	6	10.39	Yes	11.37	0.98
86	5/1/2021	15	7	10.38	Yes	11.37	0.99
87	5/1/2021	15	8	5.00	Yes	11.37	6.37
88	5/1/2021	15	9	5.24	Yes	11.37	6.13
89	5/1/2021	15	10	10.39	Yes	11.37	0.98
90	5/1/2021	15	11	10.39	Yes	11.37	0.98
91	5/1/2021	15	12	10.39	Yes	11.37	0.98
92	5/1/2021	16	1	5.24	Yes	12.95	7.71
93	5/1/2021	16	2	11.15	Yes	12.95	1.80
94	5/1/2021	16	3	0.00	Yes	12.95	12.95
95	5/1/2021	16	4	5.00	Yes	12.95	7.95
96	5/1/2021	16	5	7.50	Yes	12.95	5.45
97	5/1/2021	16	6	11.97	Yes	12.95	0.98
98	5/1/2021	16	7	11.97	Yes	12.95	0.98
99	5/1/2021	16	8	11.97	Yes	12.95	0.98
100	5/1/2021	16	9	11.97	Yes	12.95	0.98
101	5/1/2021	16	10	11.97	Yes	12.95	0.98
102	5/1/2021	16	11	11.97	Yes	12.95	0.98
103	5/1/2021	16	12	5.28	Yes	12.95	7.67
104	5/1/2021	17	1	-0.01	Yes	17.7	17.71
105	5/1/2021	17	2	-0.01	Yes	17.7	17.71
106	5/1/2021	17	3	-0.01	Yes	17.7	17.71
107	5/1/2021	17	4	13.35	Yes	17.7	4.35
108	5/1/2021	17	5	15.65	Yes	17.7	2.05
109	5/1/2021	17	6	15.32	Yes	17.7	2.38
110	5/1/2021	17	7	15.19	Yes	17.7	2.51

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
111	5/1/2021	17	8	14.74	Yes	17.7	2.96
112	5/1/2021	17	9	16.23	Yes	17.7	1.47
113	5/1/2021	17	10	16.34	Yes	17.7	1.36
114	5/1/2021	17	11	16.72	Yes	17.7	0.98
115	5/1/2021	17	12	16.72	Yes	17.7	0.98
116	5/1/2021	18	1	0.25	Yes	24.99	24.74
117	5/1/2021	18	2	0.00	Yes	24.99	24.99
118	5/1/2021	18	3	0.25	Yes	24.99	24.74
119	5/1/2021	18	4	7.88	Yes	24.99	17.11
120	5/1/2021	18	5	13.75	Yes	24.99	11.24
121	5/1/2021	18	6	17.07	Yes	24.99	7.92
122	5/1/2021	18	7	18.73	Yes	24.99	6.26
123	5/1/2021	18	8	19.57	Yes	24.99	5.42
124	5/1/2021	18	9	20.87	Yes	24.99	4.12
125	5/1/2021	18	10	21.26	Yes	24.99	3.73
126	5/1/2021	18	11	23.29	Yes	24.99	1.70
127	5/1/2021	18	12	21.33	Yes	24.99	3.66
128	5/1/2021	19	1	17.79	Yes	38.72	20.93
129	5/1/2021	19	2	16.60	Yes	38.72	22.12
130	5/1/2021	19	3	17.03	Yes	38.72	21.69
131	5/1/2021	19	4	21.12	Yes	38.72	17.60
132	5/1/2021	19	5	21.76	Yes	38.72	16.96
133	5/1/2021	19	6	26.69	Yes	38.72	12.03
134	5/1/2021	19	7	35.18	Yes	38.72	3.54
135	5/1/2021	19	8	37.25	Yes	38.72	1.47
136	5/1/2021	19	9	37.06	Yes	38.72	1.66
137	5/1/2021	19	10	36.45	Yes	38.72	2.27
138	5/1/2021	19	11	28.71	Yes	38.72	10.01
139	5/1/2021	19	12	36.99	Yes	38.72	1.73
140	5/1/2021	20	1	-14.94	Yes	-15	-0.06
141	5/1/2021	20	2	-14.95	Yes	-15	-0.05
142	5/1/2021	20	3	-14.95	Yes	-15	-0.05
143	5/1/2021	20	4	-14.95	Yes	-15	-0.05
144	5/1/2021	20	5	-14.95	Yes	-15	-0.05
145	5/1/2021	20	6	-14.95	Yes	-15	-0.05
146	5/1/2021	20	7	-14.95	Yes	-15	-0.05
147	5/1/2021	20	8	-14.95	Yes	-15	-0.05
148	5/1/2021	20	9	-14.95	Yes	-15	-0.05

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
149	5/1/2021	20	10	-14.94	Yes	-15	-0.06
150	5/1/2021	20	11	-14.94	Yes	-15	-0.06
151	5/1/2021	20	12	-14.94	Yes	-15	-0.06
152	5/1/2021	21	1	-14.94	Yes	-15	-0.06
153	5/1/2021	21	2	-14.94	Yes	-15	-0.06
154	5/1/2021	21	3	-14.94	Yes	-15	-0.06
155	5/1/2021	21	4	-14.95	Yes	-15	-0.05
156	5/1/2021	21	5	-14.95	Yes	-15	-0.05
157	5/1/2021	21	6	-14.95	Yes	-15	-0.05
158	5/1/2021	21	7	-14.95	Yes	-15	-0.05
159	5/1/2021	21	8	-14.95	Yes	-15	-0.05
160	5/1/2021	21	9	-14.95	Yes	-15	-0.05
161	5/1/2021	21	10	-14.96	Yes	-15	-0.04
162	5/1/2021	21	11	-14.96	Yes	-15	-0.04
163	5/1/2021	21	12	-14.96	Yes	-15	-0.04
164	5/1/2021	22	1	32.90	Yes	36.43	3.53
165	5/1/2021	22	2	32.82	Yes	36.43	3.61
166	5/1/2021	22	3	32.21	Yes	36.43	4.22
167	5/1/2021	22	4	32.76	Yes	36.43	3.67
168	5/1/2021	22	5	31.95	Yes	36.43	4.48
169	5/1/2021	22	6	31.63	Yes	36.43	4.80
170	5/1/2021	22	7	34.96	Yes	36.43	1.47
171	5/1/2021	22	8	33.37	Yes	36.43	3.06
172	5/1/2021	22	9	32.68	Yes	36.43	3.75
173	5/1/2021	22	10	32.69	Yes	36.43	3.74
174	5/1/2021	22	11	32.31	Yes	36.43	4.12
175	5/1/2021	22	12	31.09	Yes	36.43	5.34
176	5/1/2021	23	1	28.16	Yes	29.11	0.95
177	5/1/2021	23	2	28.16	Yes	29.11	0.95
178	5/1/2021	23	3	28.16	Yes	29.11	0.95
179	5/1/2021	23	4	28.16	Yes	29.11	0.95
180	5/1/2021	23	5	28.16	Yes	29.11	0.95
181	5/1/2021	23	6	27.64	Yes	29.11	1.47
182	5/1/2021	23	7	28.11	Yes	29.11	1.00
183	5/1/2021	23	8	25.51	Yes	29.11	3.60
184	5/1/2021	23	9	25.41	Yes	29.11	3.70
185	5/1/2021	23	10	24.58	Yes	29.11	4.53
186	5/1/2021	23	11	24.58	Yes	29.11	4.53

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
187	5/1/2021	23	12	22.75	Yes	29.11	6.36
188	5/3/2021	8	1	34.75	Yes	22.18	-12.57
189	5/3/2021	8	2	32.93	Yes	22.18	-10.75
190	5/3/2021	8	3	31.39	Yes	22.18	-9.21
191	5/3/2021	8	4	30.92	Yes	22.18	-8.74
192	5/3/2021	8	5	28.37	Yes	22.18	-6.19
193	5/3/2021	8	6	28.19	Yes	22.18	-6.01
194	5/3/2021	8	7	26.13	Yes	22.18	-3.95
195	5/3/2021	8	8	25.57	Yes	22.18	-3.39
196	5/3/2021	8	9	20.98	Yes	22.18	1.20
197	5/3/2021	8	10	19.18	Yes	22.18	3.00
198	5/3/2021	8	11	18.42	Yes	22.18	3.76
199	5/3/2021	8	12	17.88	Yes	22.18	4.30
200	5/3/2021	9	1	22.59	Yes	-14.99	-37.58
201	5/3/2021	9	2	22.60	Yes	-14.99	-37.59
202	5/3/2021	9	3	21.75	Yes	-14.99	-36.74
203	5/3/2021	9	4	19.18	Yes	-14.99	-34.17
204	5/3/2021	9	5	18.74	Yes	-14.99	-33.73
205	5/3/2021	9	6	18.10	Yes	-14.99	-33.09
206	5/3/2021	9	7	17.06	Yes	-14.99	-32.05
207	5/3/2021	9	8	15.00	Yes	-14.99	-29.99
208	5/3/2021	9	9	15.00	Yes	-14.99	-29.99
209	5/3/2021	9	10	10.00	Yes	-14.99	-24.99
210	5/3/2021	9	11	10.00	Yes	-14.99	-24.99
211	5/3/2021	9	12	15.00	Yes	-14.99	-29.99
212	5/3/2021	10	1	19.31	Yes	-14.99	-34.30
213	5/3/2021	10	2	20.82	Yes	-14.99	-35.81
214	5/3/2021	10	3	21.55	Yes	-14.99	-36.54
215	5/3/2021	10	4	27.98	Yes	-14.99	-42.97
216	5/3/2021	10	5	27.78	Yes	-14.99	-42.77
217	5/3/2021	10	6	27.48	Yes	-14.99	-42.47
218	5/3/2021	10	7	19.31	Yes	-14.99	-34.30
219	5/3/2021	10	8	18.88	Yes	-14.99	-33.87
220	5/3/2021	10	9	17.71	Yes	-14.99	-32.70
221	5/3/2021	10	10	20.98	Yes	-14.99	-35.97
222	5/3/2021	10	11	19.93	Yes	-14.99	-34.92
223	5/3/2021	10	12	19.61	Yes	-14.99	-34.60
224	5/3/2021	11	1	21.39	Yes	-14.99	-36.38

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
225	5/3/2021	11	2	21.72	Yes	-14.99	-36.71
226	5/3/2021	11	3	22.44	Yes	-14.99	-37.43
227	5/3/2021	11	4	22.26	Yes	-14.99	-37.25
228	5/3/2021	11	5	21.76	Yes	-14.99	-36.75
229	5/3/2021	11	6	22.55	Yes	-14.99	-37.54
230	5/3/2021	11	7	21.99	Yes	-14.99	-36.98
231	5/3/2021	11	8	21.84	Yes	-14.99	-36.83
232	5/3/2021	11	9	22.34	Yes	-14.99	-37.33
233	5/3/2021	11	10	22.34	Yes	-14.99	-37.33
234	5/3/2021	11	11	22.36	Yes	-14.99	-37.35
235	5/3/2021	11	12	22.85	Yes	-14.99	-37.84
236	5/3/2021	12	1	17.71	Yes	-14.99	-32.70
237	5/3/2021	12	2	18.34	Yes	-14.99	-33.33
238	5/3/2021	12	3	18.68	Yes	-14.99	-33.67
239	5/3/2021	12	4	21.16	Yes	-14.99	-36.15
240	5/3/2021	12	5	22.11	Yes	-14.99	-37.10
241	5/3/2021	12	6	21.20	Yes	-14.99	-36.19
242	5/3/2021	12	7	21.78	Yes	-14.99	-36.77
243	5/3/2021	12	8	21.15	Yes	-14.99	-36.14
244	5/3/2021	12	9	20.78	Yes	-14.99	-35.77
245	5/3/2021	12	10	20.65	Yes	-14.99	-35.64
246	5/3/2021	12	11	20.63	Yes	-14.99	-35.62
247	5/3/2021	12	12	20.91	Yes	-14.99	-35.90
248	5/3/2021	13	1	23.46	Yes	-14.99	-38.45
249	5/3/2021	13	2	24.77	Yes	-14.99	-39.76
250	5/3/2021	13	3	24.58	Yes	-14.99	-39.57
251	5/3/2021	13	4	24.76	Yes	-14.99	-39.75
252	5/3/2021	13	5	24.76	Yes	-14.99	-39.75
253	5/3/2021	13	6	23.93	Yes	-14.99	-38.92
254	5/3/2021	13	7	22.89	Yes	-14.99	-37.88
255	5/3/2021	13	8	22.68	Yes	-14.99	-37.67
256	5/3/2021	13	9	22.61	Yes	-14.99	-37.60
257	5/3/2021	13	10	22.96	Yes	-14.99	-37.95
258	5/3/2021	13	11	22.80	Yes	-14.99	-37.79
259	5/3/2021	13	12	22.21	Yes	-14.99	-37.20
260	5/3/2021	14	1	21.35	Yes	-14.99	-36.34
261	5/3/2021	14	2	22.86	Yes	-14.99	-37.85
262	5/3/2021	14	3	22.94	Yes	-14.99	-37.93

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
263	5/3/2021	14	4	23.89	Yes	-14.99	-38.88
264	5/3/2021	14	5	22.72	Yes	-14.99	-37.71
265	5/3/2021	14	6	24.68	Yes	-14.99	-39.67
266	5/3/2021	14	7	19.16	Yes	-14.99	-34.15
267	5/3/2021	14	8	19.16	Yes	-14.99	-34.15
268	5/3/2021	14	9	23.63	Yes	-14.99	-38.62
269	5/3/2021	14	10	19.29	Yes	-14.99	-34.28
270	5/3/2021	14	11	19.46	Yes	-14.99	-34.45
271	5/3/2021	14	12	19.94	Yes	-14.99	-34.93
272	5/3/2021	15	1	22.14	Yes	-14.99	-37.13
273	5/3/2021	15	2	26.83	Yes	-14.99	-41.82
274	5/3/2021	15	3	27.85	Yes	-14.99	-42.84
275	5/3/2021	15	4	26.87	Yes	-14.99	-41.86
276	5/3/2021	15	5	26.68	Yes	-14.99	-41.67
277	5/3/2021	15	6	27.96	Yes	-14.99	-42.95
278	5/3/2021	15	7	26.98	Yes	-14.99	-41.97
279	5/3/2021	15	8	28.25	Yes	-14.99	-43.24
280	5/3/2021	15	9	28.98	Yes	-14.99	-43.97
281	5/3/2021	15	10	28.36	Yes	-14.99	-43.35
282	5/3/2021	15	11	29.07	Yes	-14.99	-44.06
283	5/3/2021	15	12	28.51	Yes	-14.99	-43.50
284	5/3/2021	16	1	26.81	Yes	-14.99	-41.80
285	5/3/2021	16	2	24.85	Yes	-14.99	-39.84
286	5/3/2021	16	3	25.11	Yes	-14.99	-40.10
287	5/3/2021	16	4	26.38	Yes	-14.99	-41.37
288	5/3/2021	16	5	25.34	Yes	-14.99	-40.33
289	5/3/2021	16	6	27.10	Yes	-14.99	-42.09
290	5/3/2021	16	7	19.56	Yes	-14.99	-34.55
291	5/3/2021	16	8	20.08	Yes	-14.99	-35.07
292	5/3/2021	16	9	21.40	Yes	-14.99	-36.39
293	5/3/2021	16	10	19.72	Yes	-14.99	-34.71
294	5/3/2021	16	11	21.13	Yes	-14.99	-36.12
295	5/3/2021	16	12	20.49	Yes	-14.99	-35.48
296	5/3/2021	17	1	17.45	Yes	-14.99	-32.44
297	5/3/2021	17	2	15.41	Yes	-14.99	-30.40
298	5/3/2021	17	3	22.23	Yes	-14.99	-37.22
299	5/3/2021	17	4	22.33	Yes	-14.99	-37.32
300	5/3/2021	17	5	23.13	Yes	-14.99	-38.12

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
301	5/3/2021	17	6	20.91	Yes	-14.99	-35.90
302	5/3/2021	17	7	26.38	Yes	-14.99	-41.37
303	5/3/2021	17	8	27.80	Yes	-14.99	-42.79
304	5/3/2021	17	9	27.69	Yes	-14.99	-42.68
305	5/3/2021	17	10	27.12	Yes	-14.99	-42.11
306	5/3/2021	17	11	26.10	Yes	-14.99	-41.09
307	5/3/2021	17	12	27.73	Yes	-14.99	-42.72
308	5/3/2021	18	1	22.31	Yes	-14.99	-37.30
309	5/3/2021	18	2	22.05	Yes	-14.99	-37.04
310	5/3/2021	18	3	23.38	Yes	-14.99	-38.37
311	5/3/2021	18	4	20.84	Yes	-14.99	-35.83
312	5/3/2021	18	5	22.47	Yes	-14.99	-37.46
313	5/3/2021	18	6	23.96	Yes	-14.99	-38.95
314	5/3/2021	18	7	24.74	Yes	-14.99	-39.73
315	5/3/2021	18	8	29.22	Yes	-14.99	-44.21
316	5/3/2021	18	9	32.28	Yes	-14.99	-47.27
317	5/3/2021	18	10	32.15	Yes	-14.99	-47.14
318	5/3/2021	18	11	32.95	Yes	-14.99	-47.94
319	5/3/2021	18	12	31.43	Yes	-14.99	-46.42
320	5/3/2021	19	1	25.42	Yes	-14.99	-40.41
321	5/3/2021	19	2	25.79	Yes	-14.99	-40.78
322	5/3/2021	19	3	27.64	Yes	-14.99	-42.63
323	5/3/2021	19	4	29.06	Yes	-14.99	-44.05
324	5/3/2021	19	5	31.81	Yes	-14.99	-46.80
325	5/3/2021	19	6	34.10	Yes	-14.99	-49.09
326	5/3/2021	19	7	32.72	Yes	-14.99	-47.71
327	5/3/2021	19	8	34.50	Yes	-14.99	-49.49
328	5/3/2021	19	9	42.87	Yes	-14.99	-57.86
329	5/3/2021	19	10	42.58	Yes	-14.99	-57.57
330	5/3/2021	19	11	66.64	Yes	-14.99	-81.63
331	5/3/2021	19	12	68.72	Yes	-14.99	-83.71
332	5/3/2021	20	1	38.87	Yes	-14.99	-53.86
333	5/3/2021	20	2	41.80	Yes	-14.99	-56.79
334	5/3/2021	20	3	43.66	Yes	-14.99	-58.65
335	5/3/2021	20	4	43.49	Yes	-14.99	-58.48
336	5/3/2021	20	5	43.62	Yes	-14.99	-58.61
337	5/3/2021	20	6	44.21	Yes	-14.99	-59.20
338	5/3/2021	20	7	44.30	Yes	-14.99	-59.29

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
339	5/3/2021	20	8	45.48	Yes	-14.99	-60.47
340	5/3/2021	20	9	47.23	Yes	-14.99	-62.22
341	5/3/2021	20	10	46.87	Yes	-14.99	-61.86
342	5/3/2021	20	11	47.95	Yes	-14.99	-62.94
343	5/3/2021	20	12	45.83	Yes	-14.99	-60.82
344	5/3/2021	21	1	49.67	Yes	-14.99	-64.66
345	5/3/2021	21	2	43.71	Yes	-14.99	-58.70
346	5/3/2021	21	3	43.23	Yes	-14.99	-58.22
347	5/3/2021	21	4	43.48	Yes	-14.99	-58.47
348	5/3/2021	21	5	43.78	Yes	-14.99	-58.77
349	5/3/2021	21	6	43.48	Yes	-14.99	-58.47
350	5/3/2021	21	7	42.71	Yes	-14.99	-57.70
351	5/3/2021	21	8	42.71	Yes	-14.99	-57.70
352	5/3/2021	21	9	41.33	Yes	-14.99	-56.32
353	5/3/2021	21	10	41.04	Yes	-14.99	-56.03
354	5/3/2021	21	11	41.04	Yes	-14.99	-56.03
355	5/3/2021	21	12	41.96	Yes	-14.99	-56.95
356	5/3/2021	22	1	55.67	Yes	-14.99	-70.66
357	5/3/2021	22	2	51.43	Yes	-14.99	-66.42
358	5/3/2021	22	3	44.66	Yes	-14.99	-59.65
359	5/3/2021	22	4	43.52	Yes	-14.99	-58.51
360	5/3/2021	22	5	42.29	Yes	-14.99	-57.28
361	5/3/2021	22	6	41.35	Yes	-14.99	-56.34
362	5/3/2021	22	7	70.95	Yes	-14.99	-85.94
363	5/3/2021	22	8	55.50	Yes	-14.99	-70.49
364	5/3/2021	22	9	54.65	Yes	-14.99	-69.64
365	5/3/2021	22	10	38.92	Yes	-14.99	-53.91
366	5/3/2021	22	11	24.92	Yes	-14.99	-39.91
367	5/3/2021	22	12	12.02	Yes	-14.99	-27.01
368	5/3/2021	23	1	8.88	Yes	-14.99	-23.87
369	5/3/2021	23	2	17.29	Yes	-14.99	-32.28
370	5/3/2021	23	3	40.43	Yes	-14.99	-55.42
371	5/3/2021	23	4	41.36	Yes	-14.99	-56.35
372	5/3/2021	23	5	40.33	Yes	-14.99	-55.32
373	5/3/2021	23	6	39.44	Yes	-14.99	-54.43
374	5/3/2021	23	7	38.90	Yes	-14.99	-53.89
375	5/3/2021	23	8	36.28	Yes	-14.99	-51.27
376	5/3/2021	23	9	36.56	Yes	-14.99	-51.55

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
377	5/3/2021	23	10	35.13	Yes	-14.99	-50.12
378	5/3/2021	23	11	34.27	Yes	-14.99	-49.26
379	5/3/2021	23	12	34.96	Yes	-14.99	-49.95
380	5/3/2021	24	1	32.54	Yes	24.94	-7.60
381	5/3/2021	24	2	32.56	Yes	24.94	-7.62
382	5/3/2021	24	3	32.58	Yes	24.94	-7.64
383	5/3/2021	24	4	32.07	Yes	24.94	-7.13
384	5/3/2021	24	5	32.28	Yes	24.94	-7.34
385	5/3/2021	24	6	32.01	Yes	24.94	-7.07
386	5/3/2021	24	7	30.93	Yes	24.94	-5.99
387	5/3/2021	24	8	30.81	Yes	24.94	-5.87
388	5/3/2021	24	9	30.33	Yes	24.94	-5.39
389	5/3/2021	24	10	29.71	Yes	24.94	-4.77
390	5/3/2021	24	11	29.61	Yes	24.94	-4.67
391	5/3/2021	24	12	29.54	Yes	24.94	-4.60
392	5/4/2021	1	1	31.10	Yes	16.41	-14.69
393	5/4/2021	1	2	32.08	Yes	16.41	-15.67
394	5/4/2021	1	3	32.08	Yes	16.41	-15.67
395	5/4/2021	1	4	31.56	Yes	16.41	-15.15
396	5/4/2021	1	5	32.02	Yes	16.41	-15.61
397	5/4/2021	1	6	31.56	Yes	16.41	-15.15
398	5/4/2021	1	7	30.45	Yes	16.41	-14.04
399	5/4/2021	1	8	30.51	Yes	16.41	-14.10
400	5/4/2021	1	9	30.45	Yes	16.41	-14.04
401	5/4/2021	1	10	29.84	Yes	16.41	-13.43
402	5/4/2021	1	11	29.86	Yes	16.41	-13.45
403	5/4/2021	1	12	30.00	Yes	16.41	-13.59
404	5/4/2021	2	1	32.91	Yes	16.17	-16.74
405	5/4/2021	2	2	33.93	Yes	16.17	-17.76
406	5/4/2021	2	3	33.46	Yes	16.17	-17.29
407	5/4/2021	2	4	32.75	Yes	16.17	-16.58
408	5/4/2021	2	5	31.95	Yes	16.17	-15.78
409	5/4/2021	2	6	31.52	Yes	16.17	-15.35
410	5/4/2021	2	7	31.25	Yes	16.17	-15.08
411	5/4/2021	2	8	31.03	Yes	16.17	-14.86
412	5/4/2021	2	9	31.12	Yes	16.17	-14.95
413	5/4/2021	2	10	30.84	Yes	16.17	-14.67
414	5/4/2021	2	11	30.52	Yes	16.17	-14.35

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
415	5/4/2021	2	12	30.51	Yes	16.17	-14.34
416	5/4/2021	3	1	41.10	Yes	17.33	-23.77
417	5/4/2021	3	2	40.97	Yes	17.33	-23.64
418	5/4/2021	3	3	40.83	Yes	17.33	-23.50
419	5/4/2021	3	4	40.99	Yes	17.33	-23.66
420	5/4/2021	3	5	41.08	Yes	17.33	-23.75
421	5/4/2021	3	6	40.72	Yes	17.33	-23.39
422	5/4/2021	3	7	40.51	Yes	17.33	-23.18
423	5/4/2021	3	8	40.04	Yes	17.33	-22.71
424	5/4/2021	3	9	39.42	Yes	17.33	-22.09
425	5/4/2021	3	10	39.95	Yes	17.33	-22.62
426	5/4/2021	3	11	39.76	Yes	17.33	-22.43
427	5/4/2021	3	12	39.57	Yes	17.33	-22.24
428	5/4/2021	4	1	40.37	Yes	16.33	-24.04
429	5/4/2021	4	2	40.32	Yes	16.33	-23.99
430	5/4/2021	4	3	40.36	Yes	16.33	-24.03
431	5/4/2021	4	4	39.95	Yes	16.33	-23.62
432	5/4/2021	4	5	39.99	Yes	16.33	-23.66
433	5/4/2021	4	6	40.27	Yes	16.33	-23.94
434	5/4/2021	4	7	40.30	Yes	16.33	-23.97
435	5/4/2021	4	8	41.36	Yes	16.33	-25.03
436	5/4/2021	4	9	41.36	Yes	16.33	-25.03
437	5/4/2021	4	10	42.12	Yes	16.33	-25.79
438	5/4/2021	4	11	43.03	Yes	16.33	-26.70
439	5/4/2021	4	12	42.12	Yes	16.33	-25.79
440	5/4/2021	5	1	39.46	Yes	20.02	-19.44
441	5/4/2021	5	2	39.31	Yes	20.02	-19.29
442	5/4/2021	5	3	39.46	Yes	20.02	-19.44
443	5/4/2021	5	4	39.85	Yes	20.02	-19.83
444	5/4/2021	5	5	39.74	Yes	20.02	-19.72
445	5/4/2021	5	6	39.85	Yes	20.02	-19.83
446	5/4/2021	5	7	39.94	Yes	20.02	-19.92
447	5/4/2021	5	8	39.94	Yes	20.02	-19.92
448	5/4/2021	5	9	39.94	Yes	20.02	-19.92
449	5/4/2021	5	10	40.32	Yes	20.02	-20.30
450	5/4/2021	5	11	40.23	Yes	20.02	-20.21
451	5/4/2021	5	12	40.23	Yes	20.02	-20.21
452	5/4/2021	6	1	40.59	Yes	20.21	-20.38

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
453	5/4/2021	6	2	39.42	Yes	20.21	-19.21
454	5/4/2021	6	3	39.35	Yes	20.21	-19.14
455	5/4/2021	6	4	40.41	Yes	20.21	-20.20
456	5/4/2021	6	5	41.35	Yes	20.21	-21.14
457	5/4/2021	6	6	41.35	Yes	20.21	-21.14
458	5/4/2021	6	7	40.49	Yes	20.21	-20.28
459	5/4/2021	6	8	40.79	Yes	20.21	-20.58
460	5/4/2021	6	9	42.63	Yes	20.21	-22.42
461	5/4/2021	6	10	44.99	Yes	20.21	-24.78
462	5/4/2021	6	11	51.43	Yes	20.21	-31.22
463	5/4/2021	6	12	53.55	Yes	20.21	-33.34
464	5/4/2021	7	1	78.30	Yes	21.54	-56.76
465	5/4/2021	7	2	82.47	Yes	21.54	-60.93
466	5/4/2021	7	3	88.73	Yes	21.54	-67.19
467	5/4/2021	7	4	79.88	Yes	21.54	-58.34
468	5/4/2021	7	5	78.97	Yes	21.54	-57.43
469	5/4/2021	7	6	74.53	Yes	21.54	-52.99
470	5/4/2021	7	7	73.00	Yes	21.54	-51.46
471	5/4/2021	7	8	72.79	Yes	21.54	-51.25
472	5/4/2021	7	9	71.22	Yes	21.54	-49.68
473	5/4/2021	7	10	69.89	Yes	21.54	-48.35
474	5/4/2021	7	11	67.43	Yes	21.54	-45.89
475	5/4/2021	7	12	66.52	Yes	21.54	-44.98
476	5/4/2021	8	1	348.32	Yes	-15	-363.32
477	5/4/2021	8	2	130.95	Yes	-15	-145.95
478	5/4/2021	8	3	115.98	Yes	-15	-130.98
479	5/4/2021	8	4	110.26	Yes	-15	-125.26
480	5/4/2021	8	5	95.96	Yes	-15	-110.96
481	5/4/2021	8	6	93.48	Yes	-15	-108.48
482	5/4/2021	8	7	37.73	Yes	-15	-52.73
483	5/4/2021	8	8	25.65	Yes	-15	-40.65
484	5/4/2021	8	9	25.65	Yes	-15	-40.65
485	5/4/2021	8	10	67.20	Yes	-15	-82.20
486	5/4/2021	8	11	62.36	Yes	-15	-77.36
487	5/4/2021	8	12	33.59	Yes	-15	-48.59
488	5/4/2021	9	1	81.53	Yes	-15	-96.53
489	5/4/2021	9	2	81.02	Yes	-15	-96.02
490	5/4/2021	9	3	79.40	Yes	-15	-94.40

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
491	5/4/2021	9	4	82.04	Yes	-15	-97.04
492	5/4/2021	9	5	82.19	Yes	-15	-97.19
493	5/4/2021	9	6	87.43	Yes	-15	-102.43
494	5/4/2021	9	7	66.11	Yes	-15	-81.11
495	5/4/2021	9	8	67.02	Yes	-15	-82.02
496	5/4/2021	9	9	69.87	Yes	-15	-84.87
497	5/4/2021	9	10	77.93	Yes	-15	-92.93
498	5/4/2021	9	11	80.25	Yes	-15	-95.25
499	5/4/2021	9	12	80.75	Yes	-15	-95.75
500	5/4/2021	10	1	21.76	Yes	-15	-36.76
501	5/4/2021	10	2	28.64	Yes	-15	-43.64
502	5/4/2021	10	3	42.31	Yes	-15	-57.31
503	5/4/2021	10	4	30.26	Yes	-15	-45.26
504	5/4/2021	10	5	28.25	Yes	-15	-43.25
505	5/4/2021	10	6	26.24	Yes	-15	-41.24
506	5/4/2021	10	7	29.03	Yes	-15	-44.03
507	5/4/2021	10	8	27.04	Yes	-15	-42.04
508	5/4/2021	10	9	23.78	Yes	-15	-38.78
509	5/4/2021	10	10	27.92	Yes	-15	-42.92
510	5/4/2021	10	11	27.14	Yes	-15	-42.14
511	5/4/2021	10	12	25.98	Yes	-15	-40.98
512	5/4/2021	11	1	29.72	Yes	5.54	-24.18
513	5/4/2021	11	2	28.06	Yes	5.54	-22.52
514	5/4/2021	11	3	28.57	Yes	5.54	-23.03
515	5/4/2021	11	4	28.67	Yes	5.54	-23.13
516	5/4/2021	11	5	29.36	Yes	5.54	-23.82
517	5/4/2021	11	6	33.42	Yes	5.54	-27.88
518	5/4/2021	11	7	29.49	Yes	5.54	-23.95
519	5/4/2021	11	8	32.07	Yes	5.54	-26.53
520	5/4/2021	11	9	34.45	Yes	5.54	-28.91
521	5/4/2021	11	10	30.90	Yes	5.54	-25.36
522	5/4/2021	11	11	32.24	Yes	5.54	-26.70
523	5/4/2021	11	12	32.17	Yes	5.54	-26.63
524	5/4/2021	12	1	50.52	Yes	4.05	-46.47
525	5/4/2021	12	2	54.74	Yes	4.05	-50.69
526	5/4/2021	12	3	54.78	Yes	4.05	-50.73
527	5/4/2021	12	4	51.80	Yes	4.05	-47.75
528	5/4/2021	12	5	51.73	Yes	4.05	-47.68

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
529	5/4/2021	12	6	53.32	Yes	4.05	-49.27
530	5/4/2021	12	7	53.28	Yes	4.05	-49.23
531	5/4/2021	12	8	54.44	Yes	4.05	-50.39
532	5/4/2021	12	9	55.38	Yes	4.05	-51.33
533	5/4/2021	12	10	51.88	Yes	4.05	-47.83
534	5/4/2021	12	11	57.45	Yes	4.05	-53.40
535	5/4/2021	12	12	56.41	Yes	4.05	-52.36
536	5/4/2021	13	1	67.04	Yes	6.93	-60.11
537	5/4/2021	13	2	72.78	Yes	6.93	-65.85
538	5/4/2021	13	3	72.60	Yes	6.93	-65.67
539	5/4/2021	13	4	70.91	Yes	6.93	-63.98
540	5/4/2021	13	5	70.82	Yes	6.93	-63.89
541	5/4/2021	13	6	72.33	Yes	6.93	-65.40
542	5/4/2021	13	7	30.61	Yes	6.93	-23.68
543	5/4/2021	13	8	32.00	Yes	6.93	-25.07
544	5/4/2021	13	9	31.65	Yes	6.93	-24.72
545	5/4/2021	13	10	26.60	Yes	6.93	-19.67
546	5/4/2021	13	11	28.77	Yes	6.93	-21.84
547	5/4/2021	13	12	28.52	Yes	6.93	-21.59
548	5/4/2021	14	1	23.42	Yes	-15	-38.42
549	5/4/2021	14	2	23.73	Yes	-15	-38.73
550	5/4/2021	14	3	25.17	Yes	-15	-40.17
551	5/4/2021	14	4	31.99	Yes	-15	-46.99
552	5/4/2021	14	5	31.83	Yes	-15	-46.83
553	5/4/2021	14	6	31.78	Yes	-15	-46.78
554	5/4/2021	14	7	32.05	Yes	-15	-47.05
555	5/4/2021	14	8	32.66	Yes	-15	-47.66
556	5/4/2021	14	9	32.05	Yes	-15	-47.05
557	5/4/2021	14	10	40.02	Yes	-15	-55.02
558	5/4/2021	14	11	36.74	Yes	-15	-51.74
559	5/4/2021	14	12	37.74	Yes	-15	-52.74
560	5/4/2021	15	1	34.90	Yes	-15	-49.90
561	5/4/2021	15	2	33.21	Yes	-15	-48.21
562	5/4/2021	15	3	32.53	Yes	-15	-47.53
563	5/4/2021	15	4	65.20	Yes	-15	-80.20
564	5/4/2021	15	5	55.74	Yes	-15	-70.74
565	5/4/2021	15	6	70.60	Yes	-15	-85.60
566	5/4/2021	15	7	70.60	Yes	-15	-85.60

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567	5/4/2021	15	8	70.60	Yes	-15	-85.60
568	5/4/2021	15	9	70.60	Yes	-15	-85.60
569	5/4/2021	15	10	65.57	Yes	-15	-80.57
570	5/4/2021	15	11	58.96	Yes	-15	-73.96
571	5/4/2021	15	12	61.96	Yes	-15	-76.96
572	5/4/2021	16	1	38.84	Yes	17.68	-21.16
573	5/4/2021	16	2	41.13	Yes	17.68	-23.45
574	5/4/2021	16	3	48.10	Yes	17.68	-30.42
575	5/4/2021	16	4	59.69	Yes	17.68	-42.01
576	5/4/2021	16	5	55.42	Yes	17.68	-37.74
577	5/4/2021	16	6	55.42	Yes	17.68	-37.74
578	5/4/2021	16	7	63.21	Yes	17.68	-45.53
579	5/4/2021	16	8	58.74	Yes	17.68	-41.06
580	5/4/2021	16	9	66.93	Yes	17.68	-49.25
581	5/4/2021	16	10	59.04	Yes	17.68	-41.36
582	5/4/2021	16	11	60.65	Yes	17.68	-42.97
583	5/4/2021	16	12	58.87	Yes	17.68	-41.19
584	5/4/2021	17	1	59.84	Yes	14.65	-45.19
585	5/4/2021	17	2	57.99	Yes	14.65	-43.34
586	5/4/2021	17	3	59.26	Yes	14.65	-44.61
587	5/4/2021	17	4	78.59	Yes	14.65	-63.94
588	5/4/2021	17	5	76.39	Yes	14.65	-61.74
589	5/4/2021	17	6	77.43	Yes	14.65	-62.78
590	5/4/2021	17	7	71.24	Yes	14.65	-56.59
591	5/4/2021	17	8	71.59	Yes	14.65	-56.94
592	5/4/2021	17	9	71.81	Yes	14.65	-57.16
593	5/4/2021	17	10	76.19	Yes	14.65	-61.54
594	5/4/2021	17	11	76.18	Yes	14.65	-61.53
595	5/4/2021	17	12	93.76	Yes	14.65	-79.11
596	5/4/2021	18	1	-87.54	Yes	20.09	107.63
597	5/4/2021	18	2	-87.50	Yes	20.09	107.59
598	5/4/2021	18	3	-90.16	Yes	20.09	110.25
599	5/4/2021	18	4	-90.88	Yes	20.09	110.97
600	5/4/2021	18	5	-96.08	Yes	20.09	116.17
601	5/4/2021	18	6	-92.84	Yes	20.09	112.93
602	5/4/2021	18	7	-97.77	Yes	20.09	117.86
603	5/4/2021	18	8	22.75	Yes	20.09	-2.66
604	5/4/2021	18	9	25.40	Yes	20.09	-5.31

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
605	5/4/2021	18	10	-48.48	Yes	20.09	68.57
606	5/4/2021	18	11	-25.91	Yes	20.09	46.00
607	5/4/2021	18	12	-82.60	Yes	20.09	102.69
608	5/4/2021	19	1	34.32	Yes	30.66	-3.66
609	5/4/2021	19	2	35.34	Yes	30.66	-4.68
610	5/4/2021	19	3	36.47	Yes	30.66	-5.81
611	5/4/2021	19	4	35.56	Yes	30.66	-4.90
612	5/4/2021	19	5	38.25	Yes	30.66	-7.59
613	5/4/2021	19	6	40.96	Yes	30.66	-10.30
614	5/4/2021	19	7	40.60	Yes	30.66	-9.94
615	5/4/2021	19	8	50.45	Yes	30.66	-19.79
616	5/4/2021	19	9	54.34	Yes	30.66	-23.68
617	5/4/2021	19	10	59.75	Yes	30.66	-29.09
618	5/4/2021	19	11	64.47	Yes	30.66	-33.81
619	5/4/2021	19	12	63.78	Yes	30.66	-33.12
620	5/4/2021	20	1	54.57	Yes	30.66	-23.91
621	5/4/2021	20	2	57.31	Yes	30.66	-26.65
622	5/4/2021	20	3	61.42	Yes	30.66	-30.76
623	5/4/2021	20	4	58.27	Yes	30.66	-27.61
624	5/4/2021	20	5	60.70	Yes	30.66	-30.04
625	5/4/2021	20	6	60.95	Yes	30.66	-30.29
626	5/4/2021	20	7	53.66	Yes	30.66	-23.00
627	5/4/2021	20	8	50.58	Yes	30.66	-19.92
628	5/4/2021	20	9	50.63	Yes	30.66	-19.97
629	5/4/2021	20	10	50.20	Yes	30.66	-19.54
630	5/4/2021	20	11	51.72	Yes	30.66	-21.06
631	5/4/2021	20	12	50.20	Yes	30.66	-19.54
632	5/4/2021	21	1	47.47	Yes	30.66	-16.81
633	5/4/2021	21	2	51.76	Yes	30.66	-21.10
634	5/4/2021	21	3	45.83	Yes	30.66	-15.17
635	5/4/2021	21	4	60.42	Yes	30.66	-29.76
636	5/4/2021	21	5	57.80	Yes	30.66	-27.14
637	5/4/2021	21	6	52.16	Yes	30.66	-21.50
638	5/4/2021	21	7	65.53	Yes	30.66	-34.87
639	5/4/2021	21	8	52.12	Yes	30.66	-21.46
640	5/4/2021	21	9	50.94	Yes	30.66	-20.28
641	5/4/2021	21	10	54.45	Yes	30.66	-23.79
642	5/4/2021	21	11	50.55	Yes	30.66	-19.89

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
643	5/4/2021	21	12	54.47	Yes	30.66	-23.81
644	5/4/2021	22	1	69.31	Yes	30.66	-38.65
645	5/4/2021	22	2	63.89	Yes	30.66	-33.23
646	5/4/2021	22	3	63.74	Yes	30.66	-33.08
647	5/4/2021	22	4	70.18	Yes	30.66	-39.52
648	5/4/2021	22	5	70.05	Yes	30.66	-39.39
649	5/4/2021	22	6	69.99	Yes	30.66	-39.33
650	5/4/2021	22	7	57.10	Yes	30.66	-26.44
651	5/4/2021	22	8	51.38	Yes	30.66	-20.72
652	5/4/2021	22	9	42.42	Yes	30.66	-11.76
653	5/4/2021	22	10	78.61	Yes	30.66	-47.95
654	5/4/2021	22	11	66.64	Yes	30.66	-35.98
655	5/4/2021	22	12	61.84	Yes	30.66	-31.18
656	5/4/2021	23	1	49.45	Yes	30.66	-18.79
657	5/4/2021	23	2	49.98	Yes	30.66	-19.32
658	5/4/2021	23	3	49.74	Yes	30.66	-19.08
659	5/4/2021	23	4	49.46	Yes	30.66	-18.80
660	5/4/2021	23	5	46.94	Yes	30.66	-16.28
661	5/4/2021	23	6	43.31	Yes	30.66	-12.65
662	5/4/2021	23	7	48.98	Yes	30.66	-18.32
663	5/4/2021	23	8	40.04	Yes	30.66	-9.38
664	5/4/2021	23	9	38.29	Yes	30.66	-7.63
665	5/4/2021	23	10	36.53	Yes	30.66	-5.87
666	5/4/2021	23	11	33.36	Yes	30.66	-2.70
667	5/4/2021	23	12	32.11	Yes	30.66	-1.45
668	5/4/2021	24	1	34.49	Yes	22.22	-12.27
669	5/4/2021	24	2	34.49	Yes	22.22	-12.27
670	5/4/2021	24	3	34.36	Yes	22.22	-12.14
671	5/4/2021	24	4	27.62	Yes	22.22	-5.40
672	5/4/2021	24	5	27.62	Yes	22.22	-5.40
673	5/4/2021	24	6	26.93	Yes	22.22	-4.71
674	5/4/2021	24	7	26.59	Yes	22.22	-4.37
675	5/4/2021	24	8	24.02	Yes	22.22	-1.80
676	5/4/2021	24	9	23.98	Yes	22.22	-1.76
677	5/4/2021	24	10	24.11	Yes	22.22	-1.89
678	5/4/2021	24	11	24.11	Yes	22.22	-1.89
679	5/4/2021	24	12	25.00	Yes	22.22	-2.78
680	5/5/2021	1	1	35.92	Yes	-15	-50.92

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
681	5/5/2021	1	2	37.37	Yes	-15	-52.37
682	5/5/2021	1	3	47.20	Yes	-15	-62.20
683	5/5/2021	1	4	41.18	Yes	-15	-56.18
684	5/5/2021	1	5	40.60	Yes	-15	-55.60
685	5/5/2021	1	6	41.18	Yes	-15	-56.18
686	5/5/2021	1	7	40.75	Yes	-15	-55.75
687	5/5/2021	1	8	39.06	Yes	-15	-54.06
688	5/5/2021	1	9	39.04	Yes	-15	-54.04
689	5/5/2021	1	10	39.44	Yes	-15	-54.44
690	5/5/2021	1	11	38.04	Yes	-15	-53.04
691	5/5/2021	1	12	37.46	Yes	-15	-52.46
692	5/5/2021	2	1	40.33	Yes	-15	-55.33
693	5/5/2021	2	2	41.51	Yes	-15	-56.51
694	5/5/2021	2	3	39.46	Yes	-15	-54.46
695	5/5/2021	2	4	39.75	Yes	-15	-54.75
696	5/5/2021	2	5	38.51	Yes	-15	-53.51
697	5/5/2021	2	6	37.08	Yes	-15	-52.08
698	5/5/2021	2	7	38.22	Yes	-15	-53.22
699	5/5/2021	2	8	35.98	Yes	-15	-50.98
700	5/5/2021	2	9	35.81	Yes	-15	-50.81
701	5/5/2021	2	10	33.78	Yes	-15	-48.78
702	5/5/2021	2	11	33.78	Yes	-15	-48.78
703	5/5/2021	2	12	33.42	Yes	-15	-48.42
704	5/5/2021	3	1	76.46	Yes	-15	-91.46
705	5/5/2021	3	2	75.27	Yes	-15	-90.27
706	5/5/2021	3	3	74.23	Yes	-15	-89.23
707	5/5/2021	3	4	74.05	Yes	-15	-89.05
708	5/5/2021	3	5	73.89	Yes	-15	-88.89
709	5/5/2021	3	6	75.25	Yes	-15	-90.25
710	5/5/2021	3	7	74.90	Yes	-15	-89.90
711	5/5/2021	3	8	75.34	Yes	-15	-90.34
712	5/5/2021	3	9	73.87	Yes	-15	-88.87
713	5/5/2021	3	10	75.59	Yes	-15	-90.59
714	5/5/2021	3	11	74.77	Yes	-15	-89.77
715	5/5/2021	3	12	73.80	Yes	-15	-88.80
716	5/5/2021	4	1	74.82	Yes	-15	-89.82
717	5/5/2021	4	2	73.74	Yes	-15	-88.74
718	5/5/2021	4	3	75.43	Yes	-15	-90.43

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
719	5/5/2021	4	4	74.13	Yes	-15	-89.13
720	5/5/2021	4	5	74.02	Yes	-15	-89.02
721	5/5/2021	4	6	74.69	Yes	-15	-89.69
722	5/5/2021	4	7	75.31	Yes	-15	-90.31
723	5/5/2021	4	8	75.31	Yes	-15	-90.31
724	5/5/2021	4	9	75.31	Yes	-15	-90.31
725	5/5/2021	4	10	75.23	Yes	-15	-90.23
726	5/5/2021	4	11	75.37	Yes	-15	-90.37
727	5/5/2021	4	12	78.11	Yes	-15	-93.11
728	5/5/2021	5	1	74.82	Yes	-15	-89.82
729	5/5/2021	5	2	75.83	Yes	-15	-90.83
730	5/5/2021	5	3	75.83	Yes	-15	-90.83
731	5/5/2021	5	4	77.13	Yes	-15	-92.13
732	5/5/2021	5	5	76.15	Yes	-15	-91.15
733	5/5/2021	5	6	76.15	Yes	-15	-91.15
734	5/5/2021	5	7	76.14	Yes	-15	-91.14
735	5/5/2021	5	8	76.14	Yes	-15	-91.14
736	5/5/2021	5	9	76.14	Yes	-15	-91.14
737	5/5/2021	5	10	75.07	Yes	-15	-90.07
738	5/5/2021	5	11	78.02	Yes	-15	-93.02
739	5/5/2021	5	12	77.59	Yes	-15	-92.59
740	5/5/2021	6	1	74.04	Yes	-15	-89.04
741	5/5/2021	6	2	73.95	Yes	-15	-88.95
742	5/5/2021	6	3	74.86	Yes	-15	-89.86
743	5/5/2021	6	4	77.01	Yes	-15	-92.01
744	5/5/2021	6	5	77.01	Yes	-15	-92.01
745	5/5/2021	6	6	79.22	Yes	-15	-94.22
746	5/5/2021	6	7	92.77	Yes	-15	-107.77
747	5/5/2021	6	8	104.12	Yes	-15	-119.12
748	5/5/2021	6	9	104.12	Yes	-15	-119.12
749	5/5/2021	6	10	112.49	Yes	-15	-127.49
750	5/5/2021	6	11	103.09	Yes	-15	-118.09
751	5/5/2021	6	12	93.87	Yes	-15	-108.87
752	5/5/2021	7	1	121.47	Yes	-15	-136.47
753	5/5/2021	7	2	109.66	Yes	-15	-124.66
754	5/5/2021	7	3	104.07	Yes	-15	-119.07
755	5/5/2021	7	4	90.97	Yes	-15	-105.97
756	5/5/2021	7	5	91.38	Yes	-15	-106.38

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
757	5/5/2021	7	6	75.42	Yes	-15	-90.42
758	5/5/2021	7	7	55.06	Yes	-15	-70.06
759	5/5/2021	7	8	54.98	Yes	-15	-69.98
760	5/5/2021	7	9	47.26	Yes	-15	-62.26
761	5/5/2021	7	10	43.68	Yes	-15	-58.68
762	5/5/2021	7	11	42.30	Yes	-15	-57.30
763	5/5/2021	7	12	42.07	Yes	-15	-57.07
764	5/5/2021	8	1	52.04	Yes	-15	-67.04
765	5/5/2021	8	2	55.59	Yes	-15	-70.59
766	5/5/2021	8	3	56.37	Yes	-15	-71.37
767	5/5/2021	8	4	53.75	Yes	-15	-68.75
768	5/5/2021	8	5	77.30	Yes	-15	-92.30
769	5/5/2021	8	6	74.09	Yes	-15	-89.09
770	5/5/2021	8	7	45.93	Yes	-15	-60.93
771	5/5/2021	8	8	42.93	Yes	-15	-57.93
772	5/5/2021	8	9	30.10	Yes	-15	-45.10
773	5/5/2021	8	10	43.36	Yes	-15	-58.36
774	5/5/2021	8	11	41.07	Yes	-15	-56.07
775	5/5/2021	8	12	42.47	Yes	-15	-57.47
776	5/5/2021	9	1	65.65	Yes	-15	-80.65
777	5/5/2021	9	2	67.37	Yes	-15	-82.37
778	5/5/2021	9	3	75.71	Yes	-15	-90.71
779	5/5/2021	9	4	79.52	Yes	-15	-94.52
780	5/5/2021	9	5	78.56	Yes	-15	-93.56
781	5/5/2021	9	6	79.30	Yes	-15	-94.30
782	5/5/2021	9	7	78.02	Yes	-15	-93.02
783	5/5/2021	9	8	76.27	Yes	-15	-91.27
784	5/5/2021	9	9	74.49	Yes	-15	-89.49
785	5/5/2021	9	10	74.05	Yes	-15	-89.05
786	5/5/2021	9	11	73.34	Yes	-15	-88.34
787	5/5/2021	9	12	68.55	Yes	-15	-83.55
788	5/5/2021	10	1	68.81	Yes	-15	-83.81
789	5/5/2021	10	2	69.39	Yes	-15	-84.39
790	5/5/2021	10	3	70.99	Yes	-15	-85.99
791	5/5/2021	10	4	71.04	Yes	-15	-86.04
792	5/5/2021	10	5	72.77	Yes	-15	-87.77
793	5/5/2021	10	6	75.73	Yes	-15	-90.73
794	5/5/2021	10	7	69.90	Yes	-15	-84.90

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795	5/5/2021	10	8	68.41	Yes	-15	-83.41
796	5/5/2021	10	9	72.33	Yes	-15	-87.33
797	5/5/2021	10	10	75.75	Yes	-15	-90.75
798	5/5/2021	10	11	76.85	Yes	-15	-91.85
799	5/5/2021	10	12	76.65	Yes	-15	-91.65
800	5/5/2021	11	1	77.78	Yes	-15	-92.78
801	5/5/2021	11	2	77.48	Yes	-15	-92.48
802	5/5/2021	11	3	77.82	Yes	-15	-92.82
803	5/5/2021	11	4	68.22	Yes	-15	-83.22
804	5/5/2021	11	5	74.83	Yes	-15	-89.83
805	5/5/2021	11	6	74.95	Yes	-15	-89.95
806	5/5/2021	11	7	72.04	Yes	-15	-87.04
807	5/5/2021	11	8	73.77	Yes	-15	-88.77
808	5/5/2021	11	9	74.56	Yes	-15	-89.56
809	5/5/2021	11	10	73.27	Yes	-15	-88.27
810	5/5/2021	11	11	72.35	Yes	-15	-87.35
811	5/5/2021	11	12	70.69	Yes	-15	-85.69
812	5/5/2021	12	1	71.02	Yes	-15	-86.02
813	5/5/2021	12	2	75.95	Yes	-15	-90.95
814	5/5/2021	12	3	76.66	Yes	-15	-91.66
815	5/5/2021	12	4	73.93	Yes	-15	-88.93
816	5/5/2021	12	5	75.33	Yes	-15	-90.33
817	5/5/2021	12	6	78.03	Yes	-15	-93.03
818	5/5/2021	12	7	77.79	Yes	-15	-92.79
819	5/5/2021	12	8	78.84	Yes	-15	-93.84
820	5/5/2021	12	9	77.96	Yes	-15	-92.96
821	5/5/2021	12	10	76.39	Yes	-15	-91.39
822	5/5/2021	12	11	77.72	Yes	-15	-92.72
823	5/5/2021	12	12	75.72	Yes	-15	-90.72
824	5/5/2021	13	1	83.97	Yes	-15	-98.97
825	5/5/2021	13	2	80.55	Yes	-15	-95.55
826	5/5/2021	13	3	90.20	Yes	-15	-105.20
827	5/5/2021	13	4	80.79	Yes	-15	-95.79
828	5/5/2021	13	5	79.29	Yes	-15	-94.29
829	5/5/2021	13	6	88.33	Yes	-15	-103.33
830	5/5/2021	13	7	72.35	Yes	-15	-87.35
831	5/5/2021	13	8	73.67	Yes	-15	-88.67
832	5/5/2021	13	9	75.33	Yes	-15	-90.33

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833	5/5/2021	13	10	83.76	Yes	-15	-98.76
834	5/5/2021	13	11	85.77	Yes	-15	-100.77
835	5/5/2021	13	12	152.22	Yes	-15	-167.22
836	5/5/2021	14	1	31.34	Yes	-15	-46.34
837	5/5/2021	14	2	27.02	Yes	-15	-42.02
838	5/5/2021	14	3	27.49	Yes	-15	-42.49
839	5/5/2021	14	4	39.17	Yes	-15	-54.17
840	5/5/2021	14	5	38.77	Yes	-15	-53.77
841	5/5/2021	14	6	35.61	Yes	-15	-50.61
842	5/5/2021	14	7	30.87	Yes	-15	-45.87
843	5/5/2021	14	8	31.70	Yes	-15	-46.70
844	5/5/2021	14	9	31.85	Yes	-15	-46.85
845	5/5/2021	14	10	32.70	Yes	-15	-47.70
846	5/5/2021	14	11	32.09	Yes	-15	-47.09
847	5/5/2021	14	12	32.80	Yes	-15	-47.80
848	5/5/2021	15	1	30.48	Yes	-15	-45.48
849	5/5/2021	15	2	30.34	Yes	-15	-45.34
850	5/5/2021	15	3	30.50	Yes	-15	-45.50
851	5/5/2021	15	4	33.83	Yes	-15	-48.83
852	5/5/2021	15	5	36.61	Yes	-15	-51.61
853	5/5/2021	15	6	37.70	Yes	-15	-52.70
854	5/5/2021	15	7	39.96	Yes	-15	-54.96
855	5/5/2021	15	8	42.10	Yes	-15	-57.10
856	5/5/2021	15	9	40.97	Yes	-15	-55.97
857	5/5/2021	15	10	70.24	Yes	-15	-85.24
858	5/5/2021	15	11	67.76	Yes	-15	-82.76
859	5/5/2021	15	12	63.09	Yes	-15	-78.09
860	5/5/2021	16	1	80.27	Yes	-15	-95.27
861	5/5/2021	16	2	72.46	Yes	-15	-87.46
862	5/5/2021	16	3	72.31	Yes	-15	-87.31
863	5/5/2021	16	4	74.36	Yes	-15	-89.36
864	5/5/2021	16	5	74.49	Yes	-15	-89.49
865	5/5/2021	16	6	74.54	Yes	-15	-89.54
866	5/5/2021	16	7	49.76	Yes	-15	-64.76
867	5/5/2021	16	8	58.69	Yes	-15	-73.69
868	5/5/2021	16	9	52.25	Yes	-15	-67.25
869	5/5/2021	16	10	68.40	Yes	-15	-83.40
870	5/5/2021	16	11	71.82	Yes	-15	-86.82

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871	5/5/2021	16	12	73.94	Yes	-15	-88.94
872	5/5/2021	17	1	75.91	Yes	-15	-90.91
873	5/5/2021	17	2	75.16	Yes	-15	-90.16
874	5/5/2021	17	3	74.33	Yes	-15	-89.33
875	5/5/2021	17	4	71.18	Yes	-15	-86.18
876	5/5/2021	17	5	73.12	Yes	-15	-88.12
877	5/5/2021	17	6	76.43	Yes	-15	-91.43
878	5/5/2021	17	7	43.10	Yes	-15	-58.10
879	5/5/2021	17	8	42.30	Yes	-15	-57.30
880	5/5/2021	17	9	42.99	Yes	-15	-57.99
881	5/5/2021	17	10	52.38	Yes	-15	-67.38
882	5/5/2021	17	11	52.38	Yes	-15	-67.38
883	5/5/2021	17	12	62.71	Yes	-15	-77.71
884	5/5/2021	18	1	44.55	Yes	-15	-59.55
885	5/5/2021	18	2	44.53	Yes	-15	-59.53
886	5/5/2021	18	3	47.69	Yes	-15	-62.69
887	5/5/2021	18	4	52.04	Yes	-15	-67.04
888	5/5/2021	18	5	52.03	Yes	-15	-67.03
889	5/5/2021	18	6	54.47	Yes	-15	-69.47
890	5/5/2021	18	7	54.47	Yes	-15	-69.47
891	5/5/2021	18	8	56.26	Yes	-15	-71.26
892	5/5/2021	18	9	60.13	Yes	-15	-75.13
893	5/5/2021	18	10	78.36	Yes	-15	-93.36
894	5/5/2021	18	11	121.23	Yes	-15	-136.23
895	5/5/2021	18	12	89.29	Yes	-15	-104.29
896	5/5/2021	19	1	62.12	Yes	-15	-77.12
897	5/5/2021	19	2	53.45	Yes	-15	-68.45
898	5/5/2021	19	3	51.17	Yes	-15	-66.17
899	5/5/2021	19	4	52.98	Yes	-15	-67.98
900	5/5/2021	19	5	56.43	Yes	-15	-71.43
901	5/5/2021	19	6	66.51	Yes	-15	-81.51
902	5/5/2021	19	7	50.14	Yes	-15	-65.14
903	5/5/2021	19	8	56.00	Yes	-15	-71.00
904	5/5/2021	19	9	57.59	Yes	-15	-72.59
905	5/5/2021	19	10	75.01	Yes	-15	-90.01
906	5/5/2021	19	11	99.26	Yes	-15	-114.26
907	5/5/2021	19	12	100.09	Yes	-15	-115.09
908	5/5/2021	20	1	76.53	Yes	-15	-91.53

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909	5/5/2021	20	2	89.32	Yes	-15	-104.32
910	5/5/2021	20	3	123.27	Yes	-15	-138.27
911	5/5/2021	20	4	110.57	Yes	-15	-125.57
912	5/5/2021	20	5	120.16	Yes	-15	-135.16
913	5/5/2021	20	6	116.76	Yes	-15	-131.76
914	5/5/2021	20	7	68.26	Yes	-15	-83.26
915	5/5/2021	20	8	63.42	Yes	-15	-78.42
916	5/5/2021	20	9	62.23	Yes	-15	-77.23
917	5/5/2021	20	10	68.51	Yes	-15	-83.51
918	5/5/2021	20	11	63.97	Yes	-15	-78.97
919	5/5/2021	20	12	59.97	Yes	-15	-74.97
920	5/5/2021	21	1	61.72	Yes	-15	-76.72
921	5/5/2021	21	2	61.38	Yes	-15	-76.38
922	5/5/2021	21	3	59.89	Yes	-15	-74.89
923	5/5/2021	21	4	61.81	Yes	-15	-76.81
924	5/5/2021	21	5	75.81	Yes	-15	-90.81
925	5/5/2021	21	6	71.24	Yes	-15	-86.24
926	5/5/2021	21	7	60.29	Yes	-15	-75.29
927	5/5/2021	21	8	58.76	Yes	-15	-73.76
928	5/5/2021	21	9	57.94	Yes	-15	-72.94
929	5/5/2021	21	10	73.20	Yes	-15	-88.20
930	5/5/2021	21	11	67.92	Yes	-15	-82.92
931	5/5/2021	21	12	64.92	Yes	-15	-79.92
932	5/5/2021	22	1	75.10	Yes	-15	-90.10
933	5/5/2021	22	2	65.76	Yes	-15	-80.76
934	5/5/2021	22	3	63.70	Yes	-15	-78.70
935	5/5/2021	22	4	53.81	Yes	-15	-68.81
936	5/5/2021	22	5	56.09	Yes	-15	-71.09
937	5/5/2021	22	6	56.73	Yes	-15	-71.73
938	5/5/2021	22	7	52.78	Yes	-15	-67.78
939	5/5/2021	22	8	58.35	Yes	-15	-73.35
940	5/5/2021	22	9	48.26	Yes	-15	-63.26
941	5/5/2021	22	10	48.59	Yes	-15	-63.59
942	5/5/2021	22	11	48.55	Yes	-15	-63.55
943	5/5/2021	22	12	42.68	Yes	-15	-57.68
944	5/5/2021	23	1	53.64	Yes	-15	-68.64
945	5/5/2021	23	2	53.64	Yes	-15	-68.64
946	5/5/2021	23	3	51.17	Yes	-15	-66.17

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947	5/5/2021	23	4	49.07	Yes	-15	-64.07
948	5/5/2021	23	5	47.89	Yes	-15	-62.89
949	5/5/2021	23	6	44.67	Yes	-15	-59.67
950	5/5/2021	23	7	45.48	Yes	-15	-60.48
951	5/5/2021	23	8	39.73	Yes	-15	-54.73
952	5/5/2021	23	9	37.96	Yes	-15	-52.96
953	5/5/2021	23	10	37.55	Yes	-15	-52.55
954	5/5/2021	23	11	37.55	Yes	-15	-52.55
955	5/5/2021	23	12	36.88	Yes	-15	-51.88
956	5/5/2021	24	1	41.67	Yes	-15	-56.67
957	5/5/2021	24	2	41.54	Yes	-15	-56.54
958	5/5/2021	24	3	38.35	Yes	-15	-53.35
959	5/5/2021	24	4	43.64	Yes	-15	-58.64
960	5/5/2021	24	5	42.99	Yes	-15	-57.99
961	5/5/2021	24	6	40.80	Yes	-15	-55.80
962	5/5/2021	24	7	37.17	Yes	-15	-52.17
963	5/5/2021	24	8	35.96	Yes	-15	-50.96
964	5/5/2021	24	9	35.27	Yes	-15	-50.27
965	5/5/2021	24	10	34.02	Yes	-15	-49.02
966	5/5/2021	24	11	33.38	Yes	-15	-48.38
967	5/5/2021	24	12	33.38	Yes	-15	-48.38
968	5/6/2021	1	1	34.93	Yes	-15	-49.93
969	5/6/2021	1	2	36.89	Yes	-15	-51.89
970	5/6/2021	1	3	34.91	Yes	-15	-49.91
971	5/6/2021	1	4	36.17	Yes	-15	-51.17
972	5/6/2021	1	5	38.79	Yes	-15	-53.79
973	5/6/2021	1	6	37.92	Yes	-15	-52.92
974	5/6/2021	1	7	34.68	Yes	-15	-49.68
975	5/6/2021	1	8	33.69	Yes	-15	-48.69
976	5/6/2021	1	9	34.03	Yes	-15	-49.03
977	5/6/2021	1	10	33.21	Yes	-15	-48.21
978	5/6/2021	1	11	33.29	Yes	-15	-48.29
979	5/6/2021	1	12	33.22	Yes	-15	-48.22
980	5/6/2021	2	1	36.91	Yes	-15	-51.91
981	5/6/2021	2	2	40.66	Yes	-15	-55.66
982	5/6/2021	2	3	41.20	Yes	-15	-56.20
983	5/6/2021	2	4	37.75	Yes	-15	-52.75
984	5/6/2021	2	5	36.20	Yes	-15	-51.20

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985	5/6/2021	2	6	34.55	Yes	-15	-49.55
986	5/6/2021	2	7	33.03	Yes	-15	-48.03
987	5/6/2021	2	8	32.68	Yes	-15	-47.68
988	5/6/2021	2	9	32.41	Yes	-15	-47.41
989	5/6/2021	2	10	32.51	Yes	-15	-47.51
990	5/6/2021	2	11	32.03	Yes	-15	-47.03
991	5/6/2021	2	12	31.81	Yes	-15	-46.81
992	5/6/2021	3	1	62.27	Yes	-15	-77.27
993	5/6/2021	3	2	62.32	Yes	-15	-77.32
994	5/6/2021	3	3	62.30	Yes	-15	-77.30
995	5/6/2021	3	4	60.32	Yes	-15	-75.32
996	5/6/2021	3	5	60.29	Yes	-15	-75.29
997	5/6/2021	3	6	59.89	Yes	-15	-74.89
998	5/6/2021	3	7	59.78	Yes	-15	-74.78
999	5/6/2021	3	8	59.56	Yes	-15	-74.56
1000	5/6/2021	3	9	58.67	Yes	-15	-73.67
1001	5/6/2021	3	10	58.86	Yes	-15	-73.86
1002	5/6/2021	3	11	58.51	Yes	-15	-73.51
1003	5/6/2021	3	12	58.14	Yes	-15	-73.14
1004	5/6/2021	4	1	60.21	Yes	-15	-75.21
1005	5/6/2021	4	2	59.28	Yes	-15	-74.28
1006	5/6/2021	4	3	59.28	Yes	-15	-74.28
1007	5/6/2021	4	4	58.06	Yes	-15	-73.06
1008	5/6/2021	4	5	58.06	Yes	-15	-73.06
1009	5/6/2021	4	6	58.37	Yes	-15	-73.37
1010	5/6/2021	4	7	57.55	Yes	-15	-72.55
1011	5/6/2021	4	8	57.30	Yes	-15	-72.30
1012	5/6/2021	4	9	57.49	Yes	-15	-72.49
1013	5/6/2021	4	10	56.61	Yes	-15	-71.61
1014	5/6/2021	4	11	56.52	Yes	-15	-71.52
1015	5/6/2021	4	12	55.71	Yes	-15	-70.71
1016	5/6/2021	5	1	72.06	Yes	-15	-87.06
1017	5/6/2021	5	2	73.13	Yes	-15	-88.13
1018	5/6/2021	5	3	73.13	Yes	-15	-88.13
1019	5/6/2021	5	4	75.06	Yes	-15	-90.06
1020	5/6/2021	5	5	74.19	Yes	-15	-89.19
1021	5/6/2021	5	6	74.19	Yes	-15	-89.19
1022	5/6/2021	5	7	73.39	Yes	-15	-88.39

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1023	5/6/2021	5	8	73.39	Yes	-15	-88.39
1024	5/6/2021	5	9	75.13	Yes	-15	-90.13
1025	5/6/2021	5	10	75.07	Yes	-15	-90.07
1026	5/6/2021	5	11	75.19	Yes	-15	-90.19
1027	5/6/2021	5	12	75.22	Yes	-15	-90.22
1028	5/6/2021	6	1	74.42	Yes	-15	-89.42
1029	5/6/2021	6	2	72.15	Yes	-15	-87.15
1030	5/6/2021	6	3	74.42	Yes	-15	-89.42
1031	5/6/2021	6	4	71.88	Yes	-15	-86.88
1032	5/6/2021	6	5	75.86	Yes	-15	-90.86
1033	5/6/2021	6	6	76.14	Yes	-15	-91.14
1034	5/6/2021	6	7	74.26	Yes	-15	-89.26
1035	5/6/2021	6	8	74.26	Yes	-15	-89.26
1036	5/6/2021	6	9	75.04	Yes	-15	-90.04
1037	5/6/2021	6	10	74.34	Yes	-15	-89.34
1038	5/6/2021	6	11	75.92	Yes	-15	-90.92
1039	5/6/2021	6	12	62.27	Yes	-15	-77.27
1040	5/6/2021	7	1	75.19	Yes	-15	-90.19
1041	5/6/2021	7	2	76.71	Yes	-15	-91.71
1042	5/6/2021	7	3	76.71	Yes	-15	-91.71
1043	5/6/2021	7	4	78.51	Yes	-15	-93.51
1044	5/6/2021	7	5	78.29	Yes	-15	-93.29
1045	5/6/2021	7	6	74.73	Yes	-15	-89.73
1046	5/6/2021	7	7	73.85	Yes	-15	-88.85
1047	5/6/2021	7	8	73.08	Yes	-15	-88.08
1048	5/6/2021	7	9	71.99	Yes	-15	-86.99
1049	5/6/2021	7	10	70.87	Yes	-15	-85.87
1050	5/6/2021	7	11	70.87	Yes	-15	-85.87
1051	5/6/2021	7	12	67.99	Yes	-15	-82.99
1052	5/6/2021	8	1	71.67	Yes	-15	-86.67
1053	5/6/2021	8	2	72.54	Yes	-15	-87.54
1054	5/6/2021	8	3	72.54	Yes	-15	-87.54
1055	5/6/2021	8	4	72.92	Yes	-15	-87.92
1056	5/6/2021	8	5	66.59	Yes	-15	-81.59
1057	5/6/2021	8	6	60.15	Yes	-15	-75.15
1058	5/6/2021	8	7	58.05	Yes	-15	-73.05
1059	5/6/2021	8	8	58.16	Yes	-15	-73.16
1060	5/6/2021	8	9	56.56	Yes	-15	-71.56

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1061	5/6/2021	8	10	43.93	Yes	-15	-58.93
1062	5/6/2021	8	11	38.22	Yes	-15	-53.22
1063	5/6/2021	8	12	43.93	Yes	-15	-58.93
1064	5/6/2021	9	1	37.19	Yes	-15	-52.19
1065	5/6/2021	9	2	37.65	Yes	-15	-52.65
1066	5/6/2021	9	3	37.78	Yes	-15	-52.78
1067	5/6/2021	9	4	48.12	Yes	-15	-63.12
1068	5/6/2021	9	5	39.63	Yes	-15	-54.63
1069	5/6/2021	9	6	46.08	Yes	-15	-61.08
1070	5/6/2021	9	7	41.70	Yes	-15	-56.70
1071	5/6/2021	9	8	38.17	Yes	-15	-53.17
1072	5/6/2021	9	9	36.87	Yes	-15	-51.87
1073	5/6/2021	9	10	36.22	Yes	-15	-51.22
1074	5/6/2021	9	11	34.23	Yes	-15	-49.23
1075	5/6/2021	9	12	34.13	Yes	-15	-49.13
1076	5/6/2021	10	1	36.95	Yes	-15	-51.95
1077	5/6/2021	10	2	38.81	Yes	-15	-53.81
1078	5/6/2021	10	3	38.98	Yes	-15	-53.98
1079	5/6/2021	10	4	38.38	Yes	-15	-53.38
1080	5/6/2021	10	5	36.85	Yes	-15	-51.85
1081	5/6/2021	10	6	38.82	Yes	-15	-53.82
1082	5/6/2021	10	7	41.99	Yes	-15	-56.99
1083	5/6/2021	10	8	40.32	Yes	-15	-55.32
1084	5/6/2021	10	9	40.32	Yes	-15	-55.32
1085	5/6/2021	10	10	38.63	Yes	-15	-53.63
1086	5/6/2021	10	11	37.01	Yes	-15	-52.01
1087	5/6/2021	10	12	37.98	Yes	-15	-52.98
1088	5/6/2021	11	3	54.63	Yes	-15	-69.63
1089	5/6/2021	11	4	52.55	Yes	-15	-67.55
1090	5/6/2021	11	5	51.95	Yes	-15	-66.95
1091	5/6/2021	11	6	51.57	Yes	-15	-66.57
1092	5/6/2021	11	7	35.10	Yes	-15	-50.10
1093	5/6/2021	11	8	34.99	Yes	-15	-49.99
1094	5/6/2021	11	9	34.50	Yes	-15	-49.50
1095	5/6/2021	11	10	35.80	Yes	-15	-50.80
1096	5/6/2021	11	11	35.58	Yes	-15	-50.58
1097	5/6/2021	11	12	34.79	Yes	-15	-49.79
1098	5/6/2021	12	1	36.91	Yes	-15	-51.91

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1099	5/6/2021	12	2	36.34	Yes	-15	-51.34
1100	5/6/2021	12	3	35.52	Yes	-15	-50.52
1101	5/6/2021	12	4	34.33	Yes	-15	-49.33
1102	5/6/2021	12	5	34.91	Yes	-15	-49.91
1103	5/6/2021	12	6	34.70	Yes	-15	-49.70
1104	5/6/2021	12	7	32.98	Yes	-15	-47.98
1105	5/6/2021	12	8	33.15	Yes	-15	-48.15
1106	5/6/2021	12	9	33.56	Yes	-15	-48.56
1107	5/6/2021	12	10	34.97	Yes	-15	-49.97
1108	5/6/2021	12	11	34.22	Yes	-15	-49.22
1109	5/6/2021	12	12	33.94	Yes	-15	-48.94
1110	5/6/2021	13	1	35.47	Yes	-15	-50.47
1111	5/6/2021	13	2	39.26	Yes	-15	-54.26
1112	5/6/2021	13	3	53.14	Yes	-15	-68.14
1113	5/6/2021	13	4	23.44	Yes	-15	-38.44
1114	5/6/2021	13	5	24.22	Yes	-15	-39.22
1115	5/6/2021	13	6	25.38	Yes	-15	-40.38
1116	5/6/2021	13	7	22.45	Yes	-15	-37.45
1117	5/6/2021	13	8	21.59	Yes	-15	-36.59
1118	5/6/2021	13	9	24.00	Yes	-15	-39.00
1119	5/6/2021	13	10	23.66	Yes	-15	-38.66
1120	5/6/2021	13	11	23.99	Yes	-15	-38.99
1121	5/6/2021	13	12	23.66	Yes	-15	-38.66
1122	5/6/2021	14	1	22.52	Yes	-15	-37.52
1123	5/6/2021	14	2	23.54	Yes	-15	-38.54
1124	5/6/2021	14	3	25.41	Yes	-15	-40.41
1125	5/6/2021	14	4	25.83	Yes	-15	-40.83
1126	5/6/2021	14	5	25.98	Yes	-15	-40.98
1127	5/6/2021	14	6	25.83	Yes	-15	-40.83
1128	5/6/2021	14	7	23.40	Yes	-15	-38.40
1129	5/6/2021	14	8	25.48	Yes	-15	-40.48
1130	5/6/2021	14	9	25.49	Yes	-15	-40.49
1131	5/6/2021	14	10	25.83	Yes	-15	-40.83
1132	5/6/2021	14	11	26.45	Yes	-15	-41.45
1133	5/6/2021	14	12	26.77	Yes	-15	-41.77
1134	5/6/2021	15	1	25.64	Yes	-15	-40.64
1135	5/6/2021	15	2	25.64	Yes	-15	-40.64
1136	5/6/2021	15	3	24.40	Yes	-15	-39.40

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1137	5/6/2021	15	4	25.81	Yes	-15	-40.81
1138	5/6/2021	15	5	25.81	Yes	-15	-40.81
1139	5/6/2021	15	6	25.81	Yes	-15	-40.81
1140	5/6/2021	15	7	26.10	Yes	-15	-41.10
1141	5/6/2021	15	8	26.15	Yes	-15	-41.15
1142	5/6/2021	15	9	25.80	Yes	-15	-40.80
1143	5/6/2021	15	10	26.45	Yes	-15	-41.45
1144	5/6/2021	15	11	25.85	Yes	-15	-40.85
1145	5/6/2021	15	12	24.37	Yes	-15	-39.37
1146	5/6/2021	16	1	23.77	Yes	-15	-38.77
1147	5/6/2021	16	2	21.20	Yes	-15	-36.20
1148	5/6/2021	16	3	19.94	Yes	-15	-34.94
1149	5/6/2021	16	4	20.09	Yes	-15	-35.09
1150	5/6/2021	16	5	19.95	Yes	-15	-34.95
1151	5/6/2021	16	6	18.44	Yes	-15	-33.44
1152	5/6/2021	16	7	16.19	Yes	-15	-31.19
1153	5/6/2021	16	8	17.85	Yes	-15	-32.85
1154	5/6/2021	16	9	18.49	Yes	-15	-33.49
1155	5/6/2021	16	10	18.58	Yes	-15	-33.58
1156	5/6/2021	16	11	19.82	Yes	-15	-34.82
1157	5/6/2021	16	12	20.14	Yes	-15	-35.14
1158	5/6/2021	17	1	19.80	Yes	12.62	-7.18
1159	5/6/2021	17	2	18.40	Yes	12.62	-5.78
1160	5/6/2021	17	3	17.36	Yes	12.62	-4.74
1161	5/6/2021	17	4	17.70	Yes	12.62	-5.08
1162	5/6/2021	17	5	18.58	Yes	12.62	-5.96
1163	5/6/2021	17	6	18.80	Yes	12.62	-6.18
1164	5/6/2021	17	7	19.64	Yes	12.62	-7.02
1165	5/6/2021	17	8	20.62	Yes	12.62	-8.00
1166	5/6/2021	17	9	20.62	Yes	12.62	-8.00
1167	5/6/2021	17	10	21.13	Yes	12.62	-8.51
1168	5/6/2021	17	11	19.79	Yes	12.62	-7.17
1169	5/6/2021	17	12	16.23	Yes	12.62	-3.61
1170	5/6/2021	18	1	12.36	Yes	-15	-27.36
1171	5/6/2021	18	2	12.21	Yes	-15	-27.21
1172	5/6/2021	18	3	13.69	Yes	-15	-28.69
1173	5/6/2021	18	4	18.90	Yes	-15	-33.90
1174	5/6/2021	18	5	20.86	Yes	-15	-35.86

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1175	5/6/2021	18	6	24.36	Yes	-15	-39.36
1176	5/6/2021	18	7	22.84	Yes	-15	-37.84
1177	5/6/2021	18	8	24.86	Yes	-15	-39.86
1178	5/6/2021	18	9	24.86	Yes	-15	-39.86
1179	5/6/2021	18	10	28.31	Yes	-15	-43.31
1180	5/6/2021	18	11	28.00	Yes	-15	-43.00
1181	5/6/2021	18	12	28.31	Yes	-15	-43.31
1182	5/6/2021	19	1	30.65	Yes	19.89	-10.76
1183	5/6/2021	19	2	31.35	Yes	19.89	-11.46
1184	5/6/2021	19	3	31.99	Yes	19.89	-12.10
1185	5/6/2021	19	4	30.99	Yes	19.89	-11.10
1186	5/6/2021	19	5	31.99	Yes	19.89	-12.10
1187	5/6/2021	19	6	33.48	Yes	19.89	-13.59
1188	5/6/2021	19	7	35.45	Yes	19.89	-15.56
1189	5/6/2021	19	8	36.23	Yes	19.89	-16.34
1190	5/6/2021	19	9	37.54	Yes	19.89	-17.65
1191	5/6/2021	19	10	41.93	Yes	19.89	-22.04
1192	5/6/2021	19	11	44.35	Yes	19.89	-24.46
1193	5/6/2021	19	12	49.74	Yes	19.89	-29.85
1194	5/6/2021	20	1	33.39	Yes	-15	-48.39
1195	5/6/2021	20	2	34.98	Yes	-15	-49.98
1196	5/6/2021	20	3	37.27	Yes	-15	-52.27
1197	5/6/2021	20	4	41.21	Yes	-15	-56.21
1198	5/6/2021	20	5	41.21	Yes	-15	-56.21
1199	5/6/2021	20	6	41.22	Yes	-15	-56.22
1200	5/6/2021	20	7	40.09	Yes	-15	-55.09
1201	5/6/2021	20	8	42.16	Yes	-15	-57.16
1202	5/6/2021	20	9	40.55	Yes	-15	-55.55
1203	5/6/2021	20	10	40.89	Yes	-15	-55.89
1204	5/6/2021	20	11	39.96	Yes	-15	-54.96
1205	5/6/2021	20	12	36.74	Yes	-15	-51.74
1206	5/6/2021	21	1	42.54	Yes	-15	-57.54
1207	5/6/2021	21	2	49.11	Yes	-15	-64.11
1208	5/6/2021	21	3	46.63	Yes	-15	-61.63
1209	5/6/2021	21	4	46.60	Yes	-15	-61.60
1210	5/6/2021	21	5	44.42	Yes	-15	-59.42
1211	5/6/2021	21	6	44.42	Yes	-15	-59.42
1212	5/6/2021	21	7	44.46	Yes	-15	-59.46

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1213	5/6/2021	21	8	44.18	Yes	-15	-59.18
1214	5/6/2021	21	9	44.18	Yes	-15	-59.18
1215	5/6/2021	21	10	44.12	Yes	-15	-59.12
1216	5/6/2021	21	11	42.00	Yes	-15	-57.00
1217	5/6/2021	21	12	41.83	Yes	-15	-56.83
1218	5/6/2021	22	1	61.18	Yes	-15	-76.18
1219	5/6/2021	22	2	58.08	Yes	-15	-73.08
1220	5/6/2021	22	3	65.71	Yes	-15	-80.71
1221	5/6/2021	22	4	62.31	Yes	-15	-77.31
1222	5/6/2021	22	5	67.32	Yes	-15	-82.32
1223	5/6/2021	22	6	62.38	Yes	-15	-77.38
1224	5/6/2021	22	7	53.76	Yes	-15	-68.76
1225	5/6/2021	22	8	53.87	Yes	-15	-68.87
1226	5/6/2021	22	9	50.87	Yes	-15	-65.87
1227	5/6/2021	22	10	45.93	Yes	-15	-60.93
1228	5/6/2021	22	11	44.34	Yes	-15	-59.34
1229	5/6/2021	22	12	43.17	Yes	-15	-58.17
1230	5/6/2021	23	1	34.12	Yes	-15	-49.12
1231	5/6/2021	23	2	33.67	Yes	-15	-48.67
1232	5/6/2021	23	3	34.12	Yes	-15	-49.12
1233	5/6/2021	23	4	35.64	Yes	-15	-50.64
1234	5/6/2021	23	5	34.36	Yes	-15	-49.36
1235	5/6/2021	23	6	34.42	Yes	-15	-49.42
1236	5/6/2021	23	7	33.53	Yes	-15	-48.53
1237	5/6/2021	23	8	33.18	Yes	-15	-48.18
1238	5/6/2021	23	9	30.80	Yes	-15	-45.80
1239	5/6/2021	23	10	30.30	Yes	-15	-45.30
1240	5/6/2021	23	11	29.74	Yes	-15	-44.74
1241	5/6/2021	23	12	28.96	Yes	-15	-43.96
1242	5/6/2021	24	1	30.90	Yes	-15	-45.90
1243	5/6/2021	24	2	30.90	Yes	-15	-45.90
1244	5/6/2021	24	3	30.35	Yes	-15	-45.35
1245	5/6/2021	24	4	30.93	Yes	-15	-45.93
1246	5/6/2021	24	5	30.38	Yes	-15	-45.38
1247	5/6/2021	24	6	30.19	Yes	-15	-45.19
1248	5/6/2021	24	7	30.39	Yes	-15	-45.39
1249	5/6/2021	24	8	29.57	Yes	-15	-44.57
1250	5/6/2021	24	9	29.74	Yes	-15	-44.74

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1251	5/6/2021	24	10	27.55	Yes	-15	-42.55
1252	5/6/2021	24	11	27.00	Yes	-15	-42.00
1253	5/6/2021	24	12	27.00	Yes	-15	-42.00
1254	5/7/2021	1	1	27.20	Yes	-15	-42.20
1255	5/7/2021	1	2	28.41	Yes	-15	-43.41
1256	5/7/2021	1	3	27.49	Yes	-15	-42.49
1257	5/7/2021	1	4	27.53	Yes	-15	-42.53
1258	5/7/2021	1	5	25.86	Yes	-15	-40.86
1259	5/7/2021	1	6	25.80	Yes	-15	-40.80
1260	5/7/2021	1	7	26.30	Yes	-15	-41.30
1261	5/7/2021	1	8	26.30	Yes	-15	-41.30
1262	5/7/2021	1	9	27.51	Yes	-15	-42.51
1263	5/7/2021	1	10	27.47	Yes	-15	-42.47
1264	5/7/2021	1	11	27.47	Yes	-15	-42.47
1265	5/7/2021	1	12	26.52	Yes	-15	-41.52
1266	5/7/2021	2	1	29.11	Yes	-15	-44.11
1267	5/7/2021	2	2	28.93	Yes	-15	-43.93
1268	5/7/2021	2	3	29.11	Yes	-15	-44.11
1269	5/7/2021	2	4	27.97	Yes	-15	-42.97
1270	5/7/2021	2	5	28.15	Yes	-15	-43.15
1271	5/7/2021	2	6	27.97	Yes	-15	-42.97
1272	5/7/2021	2	7	27.18	Yes	-15	-42.18
1273	5/7/2021	2	8	26.43	Yes	-15	-41.43
1274	5/7/2021	2	9	25.94	Yes	-15	-40.94
1275	5/7/2021	2	10	25.64	Yes	-15	-40.64
1276	5/7/2021	2	11	25.79	Yes	-15	-40.79
1277	5/7/2021	2	12	25.23	Yes	-15	-40.23
1278	5/7/2021	3	1	26.24	Yes	-15	-41.24
1279	5/7/2021	3	2	26.82	Yes	-15	-41.82
1280	5/7/2021	3	3	28.81	Yes	-15	-43.81
1281	5/7/2021	3	4	28.18	Yes	-15	-43.18
1282	5/7/2021	3	5	28.18	Yes	-15	-43.18
1283	5/7/2021	3	6	27.48	Yes	-15	-42.48
1284	5/7/2021	3	7	27.30	Yes	-15	-42.30
1285	5/7/2021	3	8	27.35	Yes	-15	-42.35
1286	5/7/2021	3	9	26.92	Yes	-15	-41.92
1287	5/7/2021	3	10	26.73	Yes	-15	-41.73
1288	5/7/2021	3	11	26.66	Yes	-15	-41.66

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1289	5/7/2021	3	12	25.49	Yes	-15	-40.49
1290	5/7/2021	4	1	25.62	Yes	-15	-40.62
1291	5/7/2021	4	2	25.55	Yes	-15	-40.55
1292	5/7/2021	4	3	25.55	Yes	-15	-40.55
1293	5/7/2021	4	4	25.48	Yes	-15	-40.48
1294	5/7/2021	4	5	24.96	Yes	-15	-39.96
1295	5/7/2021	4	6	24.89	Yes	-15	-39.89
1296	5/7/2021	4	7	25.36	Yes	-15	-40.36
1297	5/7/2021	4	8	25.45	Yes	-15	-40.45
1298	5/7/2021	4	9	7.15	Yes	-15	-22.15
1299	5/7/2021	4	10	7.15	Yes	-15	-22.15
1300	5/7/2021	4	11	7.15	Yes	-15	-22.15
1301	5/7/2021	4	12	7.15	Yes	-15	-22.15
1302	5/7/2021	5	1	17.59	Yes	-15	-32.59
1303	5/7/2021	5	2	17.71	Yes	-15	-32.71
1304	5/7/2021	5	3	20.35	Yes	-15	-35.35
1305	5/7/2021	5	4	20.75	Yes	-15	-35.75
1306	5/7/2021	5	5	21.50	Yes	-15	-36.50
1307	5/7/2021	5	6	23.01	Yes	-15	-38.01
1308	5/7/2021	5	7	10.03	Yes	-15	-25.03
1309	5/7/2021	5	8	10.03	Yes	-15	-25.03
1310	5/7/2021	5	9	10.03	Yes	-15	-25.03
1311	5/7/2021	5	10	10.03	Yes	-15	-25.03
1312	5/7/2021	5	11	10.03	Yes	-15	-25.03
1313	5/7/2021	5	12	10.03	Yes	-15	-25.03
1314	5/7/2021	6	1	14.56	Yes	-15	-29.56
1315	5/7/2021	6	2	14.56	Yes	-15	-29.56
1316	5/7/2021	6	3	14.56	Yes	-15	-29.56
1317	5/7/2021	6	4	14.55	Yes	-15	-29.55
1318	5/7/2021	6	5	14.52	Yes	-15	-29.52
1319	5/7/2021	6	6	14.51	Yes	-15	-29.51
1320	5/7/2021	6	7	14.50	Yes	-15	-29.50
1321	5/7/2021	6	8	14.50	Yes	-15	-29.50
1322	5/7/2021	6	9	14.50	Yes	-15	-29.50
1323	5/7/2021	6	10	14.50	Yes	-15	-29.50
1324	5/7/2021	6	11	14.50	Yes	-15	-29.50
1325	5/7/2021	6	12	14.49	Yes	-15	-29.49
1326	5/7/2021	7	1	31.89	Yes	-15	-46.89

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1327	5/7/2021	7	2	32.50	Yes	-15	-47.50
1328	5/7/2021	7	3	32.62	Yes	-15	-47.62
1329	5/7/2021	7	4	32.25	Yes	-15	-47.25
1330	5/7/2021	7	5	31.63	Yes	-15	-46.63
1331	5/7/2021	7	6	31.14	Yes	-15	-46.14
1332	5/7/2021	7	7	28.88	Yes	-15	-43.88
1333	5/7/2021	7	8	27.87	Yes	-15	-42.87
1334	5/7/2021	7	9	27.28	Yes	-15	-42.28
1335	5/7/2021	7	10	27.00	Yes	-15	-42.00
1336	5/7/2021	7	11	26.57	Yes	-15	-41.57
1337	5/7/2021	7	12	24.16	Yes	-15	-39.16
1338	5/7/2021	8	1	28.15	Yes	-15	-43.15
1339	5/7/2021	8	2	28.15	Yes	-15	-43.15
1340	5/7/2021	8	3	27.90	Yes	-15	-42.90
1341	5/7/2021	8	4	21.94	Yes	-15	-36.94
1342	5/7/2021	8	5	20.11	Yes	-15	-35.11
1343	5/7/2021	8	6	19.12	Yes	-15	-34.12
1344	5/7/2021	8	7	21.22	Yes	-15	-36.22
1345	5/7/2021	8	8	20.95	Yes	-15	-35.95
1346	5/7/2021	8	9	24.41	Yes	-15	-39.41
1347	5/7/2021	8	10	23.58	Yes	-15	-38.58
1348	5/7/2021	8	11	24.78	Yes	-15	-39.78
1349	5/7/2021	8	12	22.68	Yes	-15	-37.68
1350	5/7/2021	9	1	22.82	Yes	-15	-37.82
1351	5/7/2021	9	2	23.23	Yes	-15	-38.23
1352	5/7/2021	9	3	27.26	Yes	-15	-42.26
1353	5/7/2021	9	4	27.29	Yes	-15	-42.29
1354	5/7/2021	9	5	27.56	Yes	-15	-42.56
1355	5/7/2021	9	6	28.43	Yes	-15	-43.43
1356	5/7/2021	9	7	23.05	Yes	-15	-38.05
1357	5/7/2021	9	8	23.16	Yes	-15	-38.16
1358	5/7/2021	9	9	22.27	Yes	-15	-37.27
1359	5/7/2021	9	10	21.65	Yes	-15	-36.65
1360	5/7/2021	9	11	22.12	Yes	-15	-37.12
1361	5/7/2021	9	12	17.31	Yes	-15	-32.31
1362	5/7/2021	10	1	30.01	Yes	-15	-45.01
1363	5/7/2021	10	2	30.44	Yes	-15	-45.44
1364	5/7/2021	10	3	38.03	Yes	-15	-53.03

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1365	5/7/2021	10	4	28.39	Yes	-15	-43.39
1366	5/7/2021	10	5	27.94	Yes	-15	-42.94
1367	5/7/2021	10	6	28.89	Yes	-15	-43.89
1368	5/7/2021	10	7	26.77	Yes	-15	-41.77
1369	5/7/2021	10	8	27.21	Yes	-15	-42.21
1370	5/7/2021	10	9	21.52	Yes	-15	-36.52
1371	5/7/2021	10	10	21.43	Yes	-15	-36.43
1372	5/7/2021	10	11	21.42	Yes	-15	-36.42
1373	5/7/2021	10	12	20.41	Yes	-15	-35.41
1374	5/7/2021	11	1	22.35	Yes	-15	-37.35
1375	5/7/2021	11	2	21.42	Yes	-15	-36.42
1376	5/7/2021	11	3	21.69	Yes	-15	-36.69
1377	5/7/2021	11	4	-0.01	Yes	-15	-14.99
1378	5/7/2021	11	5	-0.01	Yes	-15	-14.99
1379	5/7/2021	11	6	-0.01	Yes	-15	-14.99
1380	5/7/2021	11	7	-0.01	Yes	-15	-14.99
1381	5/7/2021	11	8	-0.01	Yes	-15	-14.99
1382	5/7/2021	11	9	-0.01	Yes	-15	-14.99
1383	5/7/2021	11	10	-0.01	Yes	-15	-14.99
1384	5/7/2021	11	11	-0.01	Yes	-15	-14.99
1385	5/7/2021	11	12	-0.01	Yes	-15	-14.99
1386	5/7/2021	12	1	-0.01	Yes	-15	-14.99
1387	5/7/2021	12	2	-0.01	Yes	-15	-14.99
1388	5/7/2021	12	3	-0.01	Yes	-15	-14.99
1389	5/7/2021	12	4	-0.01	Yes	-15	-14.99
1390	5/7/2021	12	5	-0.01	Yes	-15	-14.99
1391	5/7/2021	12	6	-0.01	Yes	-15	-14.99
1392	5/7/2021	12	7	-0.01	Yes	-15	-14.99
1393	5/7/2021	12	8	-0.01	Yes	-15	-14.99
1394	5/7/2021	12	9	-0.01	Yes	-15	-14.99
1395	5/7/2021	12	10	-0.01	Yes	-15	-14.99
1396	5/7/2021	12	11	-0.01	Yes	-15	-14.99
1397	5/7/2021	12	12	-0.01	Yes	-15	-14.99
1398	5/7/2021	13	1	-0.01	Yes	-15	-14.99
1399	5/7/2021	13	2	-0.01	Yes	-15	-14.99
1400	5/7/2021	13	3	-0.01	Yes	-15	-14.99
1401	5/7/2021	13	4	-0.01	Yes	-15	-14.99
1402	5/7/2021	13	5	0.25	Yes	-15	-15.25

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1403	5/7/2021	13	6	5.64	Yes	-15	-20.64
1404	5/7/2021	13	7	9.21	Yes	-15	-24.21
1405	5/7/2021	13	8	14.62	Yes	-15	-29.62
1406	5/7/2021	13	9	13.09	Yes	-15	-28.09
1407	5/7/2021	13	10	5.83	Yes	-15	-20.83
1408	5/7/2021	13	11	18.68	Yes	-15	-33.68
1409	5/7/2021	13	12	18.12	Yes	-15	-33.12
1410	5/7/2021	14	1	-0.01	Yes	-15	-14.99
1411	5/7/2021	14	2	-0.01	Yes	-15	-14.99
1412	5/7/2021	14	3	0.00	Yes	-15	-15.00
1413	5/7/2021	14	4	-0.01	Yes	-15	-14.99
1414	5/7/2021	14	5	-0.01	Yes	-15	-14.99
1415	5/7/2021	14	6	3.39	Yes	-15	-18.39
1416	5/7/2021	14	7	-0.01	Yes	-15	-14.99
1417	5/7/2021	14	8	-0.01	Yes	-15	-14.99
1418	5/7/2021	14	9	-0.01	Yes	-15	-14.99
1419	5/7/2021	14	10	-0.01	Yes	-15	-14.99
1420	5/7/2021	14	11	-0.01	Yes	-15	-14.99
1421	5/7/2021	14	12	3.28	Yes	-15	-18.28
1422	5/7/2021	15	1	-0.01	Yes	-15	-14.99
1423	5/7/2021	15	2	-0.01	Yes	-15	-14.99
1424	5/7/2021	15	3	-0.01	Yes	-15	-14.99
1425	5/7/2021	15	4	3.51	Yes	-15	-18.51
1426	5/7/2021	15	5	3.51	Yes	-15	-18.51
1427	5/7/2021	15	6	9.59	Yes	-15	-24.59
1428	5/7/2021	15	7	14.42	Yes	-15	-29.42
1429	5/7/2021	15	8	9.53	Yes	-15	-24.53
1430	5/7/2021	15	9	7.74	Yes	-15	-22.74
1431	5/7/2021	15	10	7.65	Yes	-15	-22.65
1432	5/7/2021	15	11	-0.01	Yes	-15	-14.99
1433	5/7/2021	15	12	-0.01	Yes	-15	-14.99
1434	5/7/2021	16	1	-0.01	Yes	-15	-14.99
1435	5/7/2021	16	2	-0.01	Yes	-15	-14.99
1436	5/7/2021	16	3	-0.01	Yes	-15	-14.99
1437	5/7/2021	16	4	-0.01	Yes	-15	-14.99
1438	5/7/2021	16	5	-0.01	Yes	-15	-14.99
1439	5/7/2021	16	6	-0.01	Yes	-15	-14.99
1440	5/7/2021	16	7	-0.01	Yes	-15	-14.99

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1441	5/7/2021	16	8	-0.01	Yes	-15	-14.99
1442	5/7/2021	16	9	-0.01	Yes	-15	-14.99
1443	5/7/2021	16	10	-0.01	Yes	-15	-14.99
1444	5/7/2021	16	11	-0.01	Yes	-15	-14.99
1445	5/7/2021	16	12	-0.01	Yes	-15	-14.99
1446	5/7/2021	17	1	-0.01	Yes	-15	-14.99
1447	5/7/2021	17	2	-0.01	Yes	-15	-14.99
1448	5/7/2021	17	3	-0.01	Yes	-15	-14.99
1449	5/7/2021	17	4	-0.01	Yes	-15	-14.99
1450	5/7/2021	17	5	-0.01	Yes	-15	-14.99
1451	5/7/2021	17	6	-0.01	Yes	-15	-14.99
1452	5/7/2021	17	7	-0.01	Yes	-15	-14.99
1453	5/7/2021	17	8	6.22	Yes	-15	-21.22
1454	5/7/2021	17	9	14.22	Yes	-15	-29.22
1455	5/7/2021	17	10	7.34	Yes	-15	-22.34
1456	5/7/2021	17	11	6.53	Yes	-15	-21.53
1457	5/7/2021	17	12	0.58	Yes	-15	-15.58
1458	5/7/2021	18	1	-0.01	Yes	-15	-14.99
1459	5/7/2021	18	2	-0.01	Yes	-15	-14.99
1460	5/7/2021	18	3	-0.01	Yes	-15	-14.99
1461	5/7/2021	18	4	-0.01	Yes	-15	-14.99
1462	5/7/2021	18	5	-0.01	Yes	-15	-14.99
1463	5/7/2021	18	6	-0.01	Yes	-15	-14.99
1464	5/7/2021	18	7	-0.01	Yes	-15	-14.99
1465	5/7/2021	18	8	-0.01	Yes	-15	-14.99
1466	5/7/2021	18	9	-0.01	Yes	-15	-14.99
1467	5/7/2021	18	10	0.11	Yes	-15	-15.11
1468	5/7/2021	18	11	7.32	Yes	-15	-22.32
1469	5/7/2021	18	12	6.66	Yes	-15	-21.66
1470	5/7/2021	19	1	0.00	Yes	-15	-15.00
1471	5/7/2021	19	2	3.28	Yes	-15	-18.28
1472	5/7/2021	19	3	8.63	Yes	-15	-23.63
1473	5/7/2021	19	4	11.04	Yes	-15	-26.04
1474	5/7/2021	19	5	19.70	Yes	-15	-34.70
1475	5/7/2021	19	6	22.50	Yes	-15	-37.50
1476	5/7/2021	19	7	31.17	Yes	-15	-46.17
1477	5/7/2021	19	8	34.63	Yes	-15	-49.63
1478	5/7/2021	19	9	35.89	Yes	-15	-50.89

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1479	5/7/2021	19	10	37.00	Yes	-15	-52.00
1480	5/7/2021	19	11	39.06	Yes	-15	-54.06
1481	5/7/2021	19	12	40.93	Yes	-15	-55.93
1482	5/7/2021	20	1	31.97	Yes	26.95	-5.02
1483	5/7/2021	20	2	29.48	Yes	26.95	-2.53
1484	5/7/2021	20	3	30.37	Yes	26.95	-3.42
1485	5/7/2021	20	4	33.66	Yes	26.95	-6.71
1486	5/7/2021	20	5	35.99	Yes	26.95	-9.04
1487	5/7/2021	20	6	34.88	Yes	26.95	-7.93
1488	5/7/2021	20	7	35.03	Yes	26.95	-8.08
1489	5/7/2021	20	8	36.25	Yes	26.95	-9.30
1490	5/7/2021	20	9	42.31	Yes	26.95	-15.36
1491	5/7/2021	20	10	42.79	Yes	26.95	-15.84
1492	5/7/2021	20	11	43.19	Yes	26.95	-16.24
1493	5/7/2021	20	12	45.46	Yes	26.95	-18.51
1494	5/7/2021	21	1	39.82	Yes	-15	-54.82
1495	5/7/2021	21	2	34.40	Yes	-15	-49.40
1496	5/7/2021	21	3	33.48	Yes	-15	-48.48
1497	5/7/2021	21	4	33.16	Yes	-15	-48.16
1498	5/7/2021	21	5	33.53	Yes	-15	-48.53
1499	5/7/2021	21	6	33.53	Yes	-15	-48.53
1500	5/7/2021	21	7	33.73	Yes	-15	-48.73
1501	5/7/2021	21	8	33.42	Yes	-15	-48.42
1502	5/7/2021	21	9	33.73	Yes	-15	-48.73
1503	5/7/2021	21	10	33.42	Yes	-15	-48.42
1504	5/7/2021	21	11	33.30	Yes	-15	-48.30
1505	5/7/2021	21	12	39.33	Yes	-15	-54.33
1506	5/7/2021	22	1	35.39	Yes	-15	-50.39
1507	5/7/2021	22	2	44.38	Yes	-15	-59.38
1508	5/7/2021	22	3	47.64	Yes	-15	-62.64
1509	5/7/2021	22	4	36.74	Yes	-15	-51.74
1510	5/7/2021	22	5	37.15	Yes	-15	-52.15
1511	5/7/2021	22	6	36.37	Yes	-15	-51.37
1512	5/7/2021	22	7	38.32	Yes	-15	-53.32
1513	5/7/2021	22	8	36.87	Yes	-15	-51.87
1514	5/7/2021	22	9	35.21	Yes	-15	-50.21
1515	5/7/2021	22	10	33.43	Yes	-15	-48.43
1516	5/7/2021	22	11	32.89	Yes	-15	-47.89

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1517	5/7/2021	22	12	32.48	Yes	-15	-47.48
1518	5/7/2021	23	1	38.37	Yes	-15	-53.37
1519	5/7/2021	23	2	38.37	Yes	-15	-53.37
1520	5/7/2021	23	3	36.00	Yes	-15	-51.00
1521	5/7/2021	23	4	33.68	Yes	-15	-48.68
1522	5/7/2021	23	5	34.01	Yes	-15	-49.01
1523	5/7/2021	23	6	33.88	Yes	-15	-48.88
1524	5/7/2021	23	7	31.82	Yes	-15	-46.82
1525	5/7/2021	23	8	31.32	Yes	-15	-46.32
1526	5/7/2021	23	9	31.31	Yes	-15	-46.31
1527	5/7/2021	23	10	30.23	Yes	-15	-45.23
1528	5/7/2021	23	11	30.60	Yes	-15	-45.60
1529	5/7/2021	23	12	27.23	Yes	-15	-42.23
1530	5/7/2021	24	1	39.68	Yes	-15	-54.68
1531	5/7/2021	24	2	34.17	Yes	-15	-49.17
1532	5/7/2021	24	3	32.67	Yes	-15	-47.67
1533	5/7/2021	24	4	29.71	Yes	-15	-44.71
1534	5/7/2021	24	5	30.62	Yes	-15	-45.62
1535	5/7/2021	24	6	30.43	Yes	-15	-45.43
1536	5/7/2021	24	7	31.30	Yes	-15	-46.30
1537	5/7/2021	24	8	30.01	Yes	-15	-45.01
1538	5/7/2021	24	9	30.13	Yes	-15	-45.13
1539	5/7/2021	24	10	28.86	Yes	-15	-43.86
1540	5/7/2021	24	11	27.93	Yes	-15	-42.93
1541	5/7/2021	24	12	26.21	Yes	-15	-41.21
1542	5/8/2021	1	1	28.05	Yes	-15	-43.05
1543	5/8/2021	1	2	30.34	Yes	-15	-45.34
1544	5/8/2021	1	3	35.20	Yes	-15	-50.20
1545	5/8/2021	1	4	30.34	Yes	-15	-45.34
1546	5/8/2021	1	5	29.68	Yes	-15	-44.68
1547	5/8/2021	1	6	33.27	Yes	-15	-48.27
1548	5/8/2021	1	7	40.87	Yes	-15	-55.87
1549	5/8/2021	1	8	46.18	Yes	-15	-61.18
1550	5/8/2021	1	9	41.32	Yes	-15	-56.32
1551	5/8/2021	1	10	40.50	Yes	-15	-55.50
1552	5/8/2021	1	11	38.22	Yes	-15	-53.22
1553	5/8/2021	1	12	35.60	Yes	-15	-50.60
1554	5/8/2021	2	1	37.33	Yes	-15	-52.33

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1555	5/8/2021	2	2	35.28	Yes	-15	-50.28
1556	5/8/2021	2	3	37.46	Yes	-15	-52.46
1557	5/8/2021	2	4	33.86	Yes	-15	-48.86
1558	5/8/2021	2	5	34.67	Yes	-15	-49.67
1559	5/8/2021	2	6	34.11	Yes	-15	-49.11
1560	5/8/2021	2	7	31.80	Yes	-15	-46.80
1561	5/8/2021	2	8	31.64	Yes	-15	-46.64
1562	5/8/2021	2	9	30.78	Yes	-15	-45.78
1563	5/8/2021	2	10	26.07	Yes	-15	-41.07
1564	5/8/2021	2	11	29.84	Yes	-15	-44.84
1565	5/8/2021	2	12	28.51	Yes	-15	-43.51
1566	5/8/2021	3	1	29.61	Yes	-15	-44.61
1567	5/8/2021	3	2	29.91	Yes	-15	-44.91
1568	5/8/2021	3	3	30.25	Yes	-15	-45.25
1569	5/8/2021	3	4	26.20	Yes	-15	-41.20
1570	5/8/2021	3	5	27.27	Yes	-15	-42.27
1571	5/8/2021	3	6	26.77	Yes	-15	-41.77
1572	5/8/2021	3	7	32.90	Yes	-15	-47.90
1573	5/8/2021	3	8	29.50	Yes	-15	-44.50
1574	5/8/2021	3	9	29.44	Yes	-15	-44.44
1575	5/8/2021	3	10	29.51	Yes	-15	-44.51
1576	5/8/2021	3	11	33.01	Yes	-15	-48.01
1577	5/8/2021	3	12	29.74	Yes	-15	-44.74
1578	5/8/2021	4	1	31.03	Yes	-15	-46.03
1579	5/8/2021	4	2	31.27	Yes	-15	-46.27
1580	5/8/2021	4	3	30.61	Yes	-15	-45.61
1581	5/8/2021	4	4	26.74	Yes	-15	-41.74
1582	5/8/2021	4	5	29.71	Yes	-15	-44.71
1583	5/8/2021	4	6	29.30	Yes	-15	-44.30
1584	5/8/2021	4	7	30.72	Yes	-15	-45.72
1585	5/8/2021	4	8	92.27	Yes	-15	-107.27
1586	5/8/2021	4	9	39.96	Yes	-15	-54.96
1587	5/8/2021	4	10	17.57	Yes	-15	-32.57
1588	5/8/2021	4	11	18.20	Yes	-15	-33.20
1589	5/8/2021	4	12	18.50	Yes	-15	-33.50
1590	5/8/2021	5	1	20.20	Yes	-15	-35.20
1591	5/8/2021	5	2	19.64	Yes	-15	-34.64
1592	5/8/2021	5	3	20.30	Yes	-15	-35.30

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1593	5/8/2021	5	4	18.67	Yes	-15	-33.67
1594	5/8/2021	5	5	18.82	Yes	-15	-33.82
1595	5/8/2021	5	6	19.06	Yes	-15	-34.06
1596	5/8/2021	5	7	19.62	Yes	-15	-34.62
1597	5/8/2021	5	8	19.10	Yes	-15	-34.10
1598	5/8/2021	5	9	19.09	Yes	-15	-34.09
1599	5/8/2021	5	10	19.09	Yes	-15	-34.09
1600	5/8/2021	5	11	19.52	Yes	-15	-34.52
1601	5/8/2021	5	12	19.55	Yes	-15	-34.55
1602	5/8/2021	6	1	19.05	Yes	14.82	-4.23
1603	5/8/2021	6	2	19.18	Yes	14.82	-4.36
1604	5/8/2021	6	3	24.09	Yes	14.82	-9.27
1605	5/8/2021	6	4	19.32	Yes	14.82	-4.50
1606	5/8/2021	6	5	23.34	Yes	14.82	-8.52
1607	5/8/2021	6	6	23.20	Yes	14.82	-8.38
1608	5/8/2021	6	7	23.12	Yes	14.82	-8.30
1609	5/8/2021	6	8	23.27	Yes	14.82	-8.45
1610	5/8/2021	6	9	23.54	Yes	14.82	-8.72
1611	5/8/2021	6	10	23.66	Yes	14.82	-8.84
1612	5/8/2021	6	11	25.35	Yes	14.82	-10.53
1613	5/8/2021	6	12	27.20	Yes	14.82	-12.38
1614	5/8/2021	7	1	26.34	Yes	-15	-41.34
1615	5/8/2021	7	2	28.12	Yes	-15	-43.12
1616	5/8/2021	7	3	28.12	Yes	-15	-43.12
1617	5/8/2021	7	4	27.35	Yes	-15	-42.35
1618	5/8/2021	7	5	25.73	Yes	-15	-40.73
1619	5/8/2021	7	6	23.49	Yes	-15	-38.49
1620	5/8/2021	7	7	24.01	Yes	-15	-39.01
1621	5/8/2021	7	8	13.38	Yes	-15	-28.38
1622	5/8/2021	7	9	12.59	Yes	-15	-27.59
1623	5/8/2021	7	10	3.16	Yes	-15	-18.16
1624	5/8/2021	7	11	0.00	Yes	-15	-15.00
1625	5/8/2021	7	12	0.00	Yes	-15	-15.00
1626	5/8/2021	8	1	15.98	Yes	-15	-30.98
1627	5/8/2021	8	2	16.78	Yes	-15	-31.78
1628	5/8/2021	8	3	17.20	Yes	-15	-32.20
1629	5/8/2021	8	4	4.80	Yes	-15	-19.80
1630	5/8/2021	8	5	0.00	Yes	-15	-15.00

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1631	5/8/2021	8	6	-0.01	Yes	-15	-14.99
1632	5/8/2021	8	7	-0.01	Yes	-15	-14.99
1633	5/8/2021	8	8	-0.01	Yes	-15	-14.99
1634	5/8/2021	8	9	-0.01	Yes	-15	-14.99
1635	5/8/2021	8	10	-0.01	Yes	-15	-14.99
1636	5/8/2021	8	11	-0.01	Yes	-15	-14.99
1637	5/8/2021	8	12	-0.01	Yes	-15	-14.99
1638	5/8/2021	9	1	-0.01	Yes	-15	-14.99
1639	5/8/2021	9	2	-0.01	Yes	-15	-14.99
1640	5/8/2021	9	3	-0.01	Yes	-15	-14.99
1641	5/8/2021	9	4	-0.01	Yes	-15	-14.99
1642	5/8/2021	9	5	-0.01	Yes	-15	-14.99
1643	5/8/2021	9	6	-0.01	Yes	-15	-14.99
1644	5/8/2021	9	7	-0.01	Yes	-15	-14.99
1645	5/8/2021	9	8	-0.01	Yes	-15	-14.99
1646	5/8/2021	9	9	-0.01	Yes	-15	-14.99
1647	5/8/2021	9	10	-0.01	Yes	-15	-14.99
1648	5/8/2021	9	11	-0.01	Yes	-15	-14.99
1649	5/8/2021	9	12	-0.01	Yes	-15	-14.99
1650	5/8/2021	10	1	-0.01	Yes	-0.36	-0.35
1651	5/8/2021	10	2	-0.01	Yes	-0.36	-0.35
1652	5/8/2021	10	3	-0.01	Yes	-0.36	-0.35
1653	5/8/2021	10	4	-0.01	Yes	-0.36	-0.35
1654	5/8/2021	10	5	-0.01	Yes	-0.36	-0.35
1655	5/8/2021	10	6	-0.01	Yes	-0.36	-0.35
1656	5/8/2021	10	7	-0.01	Yes	-0.36	-0.35
1657	5/8/2021	10	8	-0.01	Yes	-0.36	-0.35
1658	5/8/2021	10	9	-0.07	Yes	-0.36	-0.29
1659	5/8/2021	10	10	-0.07	Yes	-0.36	-0.29
1660	5/8/2021	10	11	-0.01	Yes	-0.36	-0.35
1661	5/8/2021	10	12	-0.01	Yes	-0.36	-0.35
1662	5/8/2021	11	1	-3.28	Yes	-3.28	0.00
1663	5/8/2021	11	2	-3.28	Yes	-3.28	0.00
1664	5/8/2021	11	3	-3.28	Yes	-3.28	0.00
1665	5/8/2021	11	4	-3.28	Yes	-3.28	0.00
1666	5/8/2021	11	5	-3.28	Yes	-3.28	0.00
1667	5/8/2021	11	6	-0.07	Yes	-3.28	-3.21
1668	5/8/2021	11	7	-1.99	Yes	-3.28	-1.29

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1669	5/8/2021	11	8	-1.99	Yes	-3.28	-1.29
1670	5/8/2021	11	9	-1.99	Yes	-3.28	-1.29
1671	5/8/2021	11	10	-1.97	Yes	-3.28	-1.31
1672	5/8/2021	11	11	-1.98	Yes	-3.28	-1.30
1673	5/8/2021	11	12	-1.98	Yes	-3.28	-1.30
1674	5/8/2021	12	1	-2.04	Yes	-1.25	0.79
1675	5/8/2021	12	2	-3.16	Yes	-1.25	1.91
1676	5/8/2021	12	3	-9.63	Yes	-1.25	8.38
1677	5/8/2021	12	4	-9.61	Yes	-1.25	8.36
1678	5/8/2021	12	5	-9.58	Yes	-1.25	8.33
1679	5/8/2021	12	6	-9.59	Yes	-1.25	8.34
1680	5/8/2021	12	7	-9.65	Yes	-1.25	8.40
1681	5/8/2021	12	8	-9.65	Yes	-1.25	8.40
1682	5/8/2021	12	9	-9.71	Yes	-1.25	8.46
1683	5/8/2021	12	10	-9.57	Yes	-1.25	8.32
1684	5/8/2021	12	11	-9.50	Yes	-1.25	8.25
1685	5/8/2021	12	12	-9.50	Yes	-1.25	8.25
1686	5/8/2021	13	1	-9.37	Yes	-1.25	8.12
1687	5/8/2021	13	2	-9.37	Yes	-1.25	8.12
1688	5/8/2021	13	3	-5.31	Yes	-1.25	4.06
1689	5/8/2021	13	4	-9.30	Yes	-1.25	8.05
1690	5/8/2021	13	5	-9.30	Yes	-1.25	8.05
1691	5/8/2021	13	6	-9.30	Yes	-1.25	8.05
1692	5/8/2021	13	7	-9.46	Yes	-1.25	8.21
1693	5/8/2021	13	8	-9.38	Yes	-1.25	8.13
1694	5/8/2021	13	9	-5.58	Yes	-1.25	4.33
1695	5/8/2021	13	10	-5.25	Yes	-1.25	4.00
1696	5/8/2021	13	11	-5.25	Yes	-1.25	4.00
1697	5/8/2021	13	12	-5.03	Yes	-1.25	3.78
1698	5/8/2021	14	1	-8.32	Yes	-1.25	7.07
1699	5/8/2021	14	2	-5.06	Yes	-1.25	3.81
1700	5/8/2021	14	3	-5.28	Yes	-1.25	4.03
1701	5/8/2021	14	4	-5.08	Yes	-1.25	3.83
1702	5/8/2021	14	5	-5.09	Yes	-1.25	3.84
1703	5/8/2021	14	6	-5.28	Yes	-1.25	4.03
1704	5/8/2021	14	7	-7.88	Yes	-1.25	6.63
1705	5/8/2021	14	8	-5.05	Yes	-1.25	3.80
1706	5/8/2021	14	9	-5.06	Yes	-1.25	3.81

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1707	5/8/2021	14	10	-4.12	Yes	-1.25	2.87
1708	5/8/2021	14	11	-4.12	Yes	-1.25	2.87
1709	5/8/2021	14	12	-5.10	Yes	-1.25	3.85
1710	5/8/2021	15	1	-5.30	Yes	7.44	12.74
1711	5/8/2021	15	2	-5.70	Yes	7.44	13.14
1712	5/8/2021	15	3	-5.30	Yes	7.44	12.74
1713	5/8/2021	15	4	-5.36	Yes	7.44	12.80
1714	5/8/2021	15	5	-5.89	Yes	7.44	13.33
1715	5/8/2021	15	6	-1.04	Yes	7.44	8.48
1716	5/8/2021	15	7	-0.01	Yes	7.44	7.45
1717	5/8/2021	15	8	-0.01	Yes	7.44	7.45
1718	5/8/2021	15	9	-0.01	Yes	7.44	7.45
1719	5/8/2021	15	10	-0.01	Yes	7.44	7.45
1720	5/8/2021	15	11	-0.01	Yes	7.44	7.45
1721	5/8/2021	15	12	-0.01	Yes	7.44	7.45
1722	5/8/2021	16	1	-8.15	Yes	-15	-6.85
1723	5/8/2021	16	2	-7.35	Yes	-15	-7.65
1724	5/8/2021	16	3	-7.48	Yes	-15	-7.52
1725	5/8/2021	16	4	-5.31	Yes	-15	-9.69
1726	5/8/2021	16	5	-5.26	Yes	-15	-9.74
1727	5/8/2021	16	6	-1.04	Yes	-15	-13.96
1728	5/8/2021	16	7	-1.04	Yes	-15	-13.96
1729	5/8/2021	16	8	-0.01	Yes	-15	-14.99
1730	5/8/2021	16	9	-0.01	Yes	-15	-14.99
1731	5/8/2021	16	10	-0.01	Yes	-15	-14.99
1732	5/8/2021	16	11	-0.01	Yes	-15	-14.99
1733	5/8/2021	16	12	-0.01	Yes	-15	-14.99
1734	5/8/2021	17	1	-4.62	Yes	-15	-10.38
1735	5/8/2021	17	2	-5.27	Yes	-15	-9.73
1736	5/8/2021	17	3	-4.62	Yes	-15	-10.38
1737	5/8/2021	17	4	-4.74	Yes	-15	-10.26
1738	5/8/2021	17	5	-1.08	Yes	-15	-13.92
1739	5/8/2021	17	6	-0.01	Yes	-15	-14.99
1740	5/8/2021	17	7	-0.01	Yes	-15	-14.99
1741	5/8/2021	17	8	-0.01	Yes	-15	-14.99
1742	5/8/2021	17	9	-0.01	Yes	-15	-14.99
1743	5/8/2021	17	10	-0.01	Yes	-15	-14.99
1744	5/8/2021	17	11	-0.01	Yes	-15	-14.99

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1745	5/8/2021	17	12	-0.01	Yes	-15	-14.99
1746	5/8/2021	18	1	-0.01	Yes	-15	-14.99
1747	5/8/2021	18	2	-0.01	Yes	-15	-14.99
1748	5/8/2021	18	3	0.00	Yes	-15	-15.00
1749	5/8/2021	18	4	-0.01	Yes	-15	-14.99
1750	5/8/2021	18	5	-0.01	Yes	-15	-14.99
1751	5/8/2021	18	6	-0.01	Yes	-15	-14.99
1752	5/8/2021	18	7	0.00	Yes	-15	-15.00
1753	5/8/2021	18	8	18.20	Yes	-15	-33.20
1754	5/8/2021	18	9	24.11	Yes	-15	-39.11
1755	5/8/2021	18	10	26.39	Yes	-15	-41.39
1756	5/8/2021	18	11	29.15	Yes	-15	-44.15
1757	5/8/2021	18	12	34.38	Yes	-15	-49.38
1758	5/8/2021	19	1	4.89	Yes	19.89	15.00
1759	5/8/2021	19	2	11.15	Yes	19.89	8.74
1760	5/8/2021	19	3	14.87	Yes	19.89	5.02
1761	5/8/2021	19	4	20.02	Yes	19.89	-0.13
1762	5/8/2021	19	5	25.56	Yes	19.89	-5.67
1763	5/8/2021	19	6	29.32	Yes	19.89	-9.43
1764	5/8/2021	19	7	30.40	Yes	19.89	-10.51
1765	5/8/2021	19	8	34.22	Yes	19.89	-14.33
1766	5/8/2021	19	9	36.47	Yes	19.89	-16.58
1767	5/8/2021	19	10	44.78	Yes	19.89	-24.89
1768	5/8/2021	19	11	66.33	Yes	19.89	-46.44
1769	5/8/2021	19	12	76.52	Yes	19.89	-56.63
1770	5/8/2021	20	1	33.64	Yes	26.95	-7.09
1771	5/8/2021	20	2	33.21	Yes	26.95	-6.26
1772	5/8/2021	20	3	34.66	Yes	26.95	-7.71
1773	5/8/2021	20	4	34.65	Yes	26.95	-7.70
1774	5/8/2021	20	5	35.03	Yes	26.95	-8.08
1775	5/8/2021	20	6	35.17	Yes	26.95	-8.22
1776	5/8/2021	20	7	35.17	Yes	26.95	-8.22
1777	5/8/2021	20	8	35.42	Yes	26.95	-8.47
1778	5/8/2021	20	9	35.40	Yes	26.95	-8.45
1779	5/8/2021	20	10	46.58	Yes	26.95	-19.63
1780	5/8/2021	20	11	48.21	Yes	26.95	-21.26
1781	5/8/2021	20	12	41.57	Yes	26.95	-14.62
1782	5/8/2021	21	1	50.27	Yes	-15	-65.27

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1783	5/8/2021	21	2	50.87	Yes	-15	-65.87
1784	5/8/2021	21	3	48.70	Yes	-15	-63.70
1785	5/8/2021	21	4	42.71	Yes	-15	-57.71
1786	5/8/2021	21	5	45.36	Yes	-15	-60.36
1787	5/8/2021	21	6	46.50	Yes	-15	-61.50
1788	5/8/2021	21	7	39.82	Yes	-15	-54.82
1789	5/8/2021	21	8	39.91	Yes	-15	-54.91
1790	5/8/2021	21	9	40.09	Yes	-15	-55.09
1791	5/8/2021	21	10	36.28	Yes	-15	-51.28
1792	5/8/2021	21	11	37.42	Yes	-15	-52.42
1793	5/8/2021	21	12	37.77	Yes	-15	-52.77
1794	5/8/2021	22	1	43.19	Yes	-15	-58.19
1795	5/8/2021	22	2	41.10	Yes	-15	-56.10
1796	5/8/2021	22	3	39.37	Yes	-15	-54.37
1797	5/8/2021	22	4	38.21	Yes	-15	-53.21
1798	5/8/2021	22	5	37.12	Yes	-15	-52.12
1799	5/8/2021	22	6	37.21	Yes	-15	-52.21
1800	5/8/2021	22	7	37.83	Yes	-15	-52.83
1801	5/8/2021	22	8	38.83	Yes	-15	-53.83
1802	5/8/2021	22	9	37.57	Yes	-15	-52.57
1803	5/8/2021	22	10	33.43	Yes	-15	-48.43
1804	5/8/2021	22	11	32.59	Yes	-15	-47.59
1805	5/8/2021	22	12	30.57	Yes	-15	-45.57
1806	5/8/2021	23	1	36.40	Yes	-15	-51.40
1807	5/8/2021	23	2	35.33	Yes	-15	-50.33
1808	5/8/2021	23	3	35.96	Yes	-15	-50.96
1809	5/8/2021	23	4	34.14	Yes	-15	-49.14
1810	5/8/2021	23	5	33.11	Yes	-15	-48.11
1811	5/8/2021	23	6	32.18	Yes	-15	-47.18
1812	5/8/2021	23	7	31.50	Yes	-15	-46.50
1813	5/8/2021	23	8	31.79	Yes	-15	-46.79
1814	5/8/2021	23	9	31.04	Yes	-15	-46.04
1815	5/8/2021	23	10	30.50	Yes	-15	-45.50
1816	5/8/2021	23	11	29.65	Yes	-15	-44.65
1817	5/8/2021	23	12	29.19	Yes	-15	-44.19
1818	5/8/2021	24	1	32.45	Yes	-15	-47.45
1819	5/8/2021	24	2	32.58	Yes	-15	-47.58
1820	5/8/2021	24	3	31.30	Yes	-15	-46.30

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1821	5/8/2021	24	4	30.60	Yes	-15	-45.60
1822	5/8/2021	24	5	30.26	Yes	-15	-45.26
1823	5/8/2021	24	6	29.24	Yes	-15	-44.24
1824	5/8/2021	24	7	28.13	Yes	-15	-43.13
1825	5/8/2021	24	8	28.56	Yes	-15	-43.56
1826	5/8/2021	24	9	27.94	Yes	-15	-42.94
1827	5/8/2021	24	10	25.94	Yes	-15	-40.94
1828	5/8/2021	24	11	25.87	Yes	-15	-40.87
1829	5/8/2021	24	12	26.42	Yes	-15	-41.42
1830	5/9/2021	1	1	28.17	Yes	-15	-43.17
1831	5/9/2021	1	2	28.76	Yes	-15	-43.76
1832	5/9/2021	1	3	27.81	Yes	-15	-42.81
1833	5/9/2021	1	4	26.60	Yes	-15	-41.60
1834	5/9/2021	1	5	26.59	Yes	-15	-41.59
1835	5/9/2021	1	6	26.14	Yes	-15	-41.14
1836	5/9/2021	1	7	25.22	Yes	-15	-40.22
1837	5/9/2021	1	8	25.77	Yes	-15	-40.77
1838	5/9/2021	1	9	25.30	Yes	-15	-40.30
1839	5/9/2021	1	10	24.69	Yes	-15	-39.69
1840	5/9/2021	1	11	24.53	Yes	-15	-39.53
1841	5/9/2021	1	12	24.53	Yes	-15	-39.53
1842	5/9/2021	2	1	24.97	Yes	-15	-39.97
1843	5/9/2021	2	2	26.07	Yes	-15	-41.07
1844	5/9/2021	2	3	26.13	Yes	-15	-41.13
1845	5/9/2021	2	4	25.93	Yes	-15	-40.93
1846	5/9/2021	2	5	25.47	Yes	-15	-40.47
1847	5/9/2021	2	6	25.42	Yes	-15	-40.42
1848	5/9/2021	2	7	25.50	Yes	-15	-40.50
1849	5/9/2021	2	8	25.06	Yes	-15	-40.06
1850	5/9/2021	2	9	24.39	Yes	-15	-39.39
1851	5/9/2021	2	10	25.61	Yes	-15	-40.61
1852	5/9/2021	2	11	25.16	Yes	-15	-40.16
1853	5/9/2021	2	12	25.59	Yes	-15	-40.59
1854	5/9/2021	3	1	26.97	Yes	-15	-41.97
1855	5/9/2021	3	2	26.82	Yes	-15	-41.82
1856	5/9/2021	3	3	26.38	Yes	-15	-41.38
1857	5/9/2021	3	4	26.04	Yes	-15	-41.04
1858	5/9/2021	3	5	25.82	Yes	-15	-40.82

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1859	5/9/2021	3	6	25.52	Yes	-15	-40.52
1860	5/9/2021	3	7	25.18	Yes	-15	-40.18
1861	5/9/2021	3	8	25.11	Yes	-15	-40.11
1862	5/9/2021	3	9	25.11	Yes	-15	-40.11
1863	5/9/2021	3	10	25.02	Yes	-15	-40.02
1864	5/9/2021	3	11	25.02	Yes	-15	-40.02
1865	5/9/2021	3	12	23.37	Yes	-15	-38.37
1866	5/9/2021	4	1	24.07	Yes	1	-23.07
1867	5/9/2021	4	2	24.07	Yes	1	-23.07
1868	5/9/2021	4	3	25.03	Yes	1	-24.03
1869	5/9/2021	4	4	25.08	Yes	1	-24.08
1870	5/9/2021	4	5	25.08	Yes	1	-24.08
1871	5/9/2021	4	6	25.08	Yes	1	-24.08
1872	5/9/2021	4	7	24.85	Yes	1	-23.85
1873	5/9/2021	4	8	24.85	Yes	1	-23.85
1874	5/9/2021	4	9	24.85	Yes	1	-23.85
1875	5/9/2021	4	10	25.46	Yes	1	-24.46
1876	5/9/2021	4	11	24.86	Yes	1	-23.86
1877	5/9/2021	4	12	26.33	Yes	1	-25.33
1878	5/9/2021	5	1	27.89	Yes	-15	-42.89
1879	5/9/2021	5	2	27.27	Yes	-15	-42.27
1880	5/9/2021	5	3	27.89	Yes	-15	-42.89
1881	5/9/2021	5	4	27.88	Yes	-15	-42.88
1882	5/9/2021	5	5	28.19	Yes	-15	-43.19
1883	5/9/2021	5	6	28.19	Yes	-15	-43.19
1884	5/9/2021	5	7	28.14	Yes	-15	-43.14
1885	5/9/2021	5	8	28.92	Yes	-15	-43.92
1886	5/9/2021	5	9	28.46	Yes	-15	-43.46
1887	5/9/2021	5	10	28.00	Yes	-15	-43.00
1888	5/9/2021	5	11	28.13	Yes	-15	-43.13
1889	5/9/2021	5	12	28.00	Yes	-15	-43.00
1890	5/9/2021	6	1	27.43	Yes	-15	-42.43
1891	5/9/2021	6	2	28.28	Yes	-15	-43.28
1892	5/9/2021	6	3	29.12	Yes	-15	-44.12
1893	5/9/2021	6	4	29.57	Yes	-15	-44.57
1894	5/9/2021	6	5	29.54	Yes	-15	-44.54
1895	5/9/2021	6	6	29.83	Yes	-15	-44.83
1896	5/9/2021	6	7	29.80	Yes	-15	-44.80

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1897	5/9/2021	6	8	29.27	Yes	-15	-44.27
1898	5/9/2021	6	9	28.05	Yes	-15	-43.05
1899	5/9/2021	6	10	28.03	Yes	-15	-43.03
1900	5/9/2021	6	11	28.03	Yes	-15	-43.03
1901	5/9/2021	6	12	27.97	Yes	-15	-42.97
1902	5/9/2021	7	1	36.52	Yes	-15	-51.52
1903	5/9/2021	7	2	35.41	Yes	-15	-50.41
1904	5/9/2021	7	3	35.23	Yes	-15	-50.23
1905	5/9/2021	7	4	32.82	Yes	-15	-47.82
1906	5/9/2021	7	5	31.16	Yes	-15	-46.16
1907	5/9/2021	7	6	31.16	Yes	-15	-46.16
1908	5/9/2021	7	7	27.90	Yes	-15	-42.90
1909	5/9/2021	7	8	30.06	Yes	-15	-45.06
1910	5/9/2021	7	9	24.64	Yes	-15	-39.64
1911	5/9/2021	7	10	24.90	Yes	-15	-39.90
1912	5/9/2021	7	11	24.85	Yes	-15	-39.85
1913	5/9/2021	7	12	24.02	Yes	-15	-39.02
1914	5/9/2021	8	1	28.80	Yes	-15	-43.80
1915	5/9/2021	8	2	29.31	Yes	-15	-44.31
1916	5/9/2021	8	3	29.74	Yes	-15	-44.74
1917	5/9/2021	8	4	24.27	Yes	-15	-39.27
1918	5/9/2021	8	5	22.57	Yes	-15	-37.57
1919	5/9/2021	8	6	20.87	Yes	-15	-35.87
1920	5/9/2021	8	7	19.69	Yes	-15	-34.69
1921	5/9/2021	8	8	18.55	Yes	-15	-33.55
1922	5/9/2021	8	9	8.07	Yes	-15	-23.07
1923	5/9/2021	8	10	15.13	Yes	-15	-30.13
1924	5/9/2021	8	11	16.57	Yes	-15	-31.57
1925	5/9/2021	8	12	-0.01	Yes	-15	-14.99
1926	5/9/2021	9	1	14.69	Yes	-15	-29.69
1927	5/9/2021	9	2	12.02	Yes	-15	-27.02
1928	5/9/2021	9	3	13.75	Yes	-15	-28.75
1929	5/9/2021	9	4	14.79	Yes	-15	-29.79
1930	5/9/2021	9	5	9.39	Yes	-15	-24.39
1931	5/9/2021	9	6	15.17	Yes	-15	-30.17
1932	5/9/2021	9	7	6.72	Yes	-15	-21.72
1933	5/9/2021	9	8	13.15	Yes	-15	-28.15
1934	5/9/2021	9	9	5.82	Yes	-15	-20.82

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1935	5/9/2021	9	10	5.42	Yes	-15	-20.42
1936	5/9/2021	9	11	0.99	Yes	-15	-15.99
1937	5/9/2021	9	12	0.76	Yes	-15	-15.76
1938	5/9/2021	10	1	17.80	Yes	-15	-32.80
1939	5/9/2021	10	2	17.26	Yes	-15	-32.26
1940	5/9/2021	10	3	13.39	Yes	-15	-28.39
1941	5/9/2021	10	4	4.68	Yes	-15	-19.68
1942	5/9/2021	10	5	1.30	Yes	-15	-16.30
1943	5/9/2021	10	6	4.96	Yes	-15	-19.96
1944	5/9/2021	10	7	0.26	Yes	-15	-15.26
1945	5/9/2021	10	8	0.24	Yes	-15	-15.24
1946	5/9/2021	10	9	0.23	Yes	-15	-15.23
1947	5/9/2021	10	10	-0.01	Yes	-15	-14.99
1948	5/9/2021	10	11	-0.01	Yes	-15	-14.99
1949	5/9/2021	10	12	-0.01	Yes	-15	-14.99
1950	5/9/2021	11	1	3.79	Yes	-15	-18.79
1951	5/9/2021	11	2	15.66	Yes	-15	-30.66
1952	5/9/2021	11	3	15.06	Yes	-15	-30.06
1953	5/9/2021	11	4	-0.01	Yes	-15	-14.99
1954	5/9/2021	11	5	-0.01	Yes	-15	-14.99
1955	5/9/2021	11	6	-0.01	Yes	-15	-14.99
1956	5/9/2021	11	7	-0.01	Yes	-15	-14.99
1957	5/9/2021	11	8	-0.01	Yes	-15	-14.99
1958	5/9/2021	11	9	-0.01	Yes	-15	-14.99
1959	5/9/2021	11	10	-0.01	Yes	-15	-14.99
1960	5/9/2021	11	11	-0.01	Yes	-15	-14.99
1961	5/9/2021	11	12	-0.01	Yes	-15	-14.99
1962	5/9/2021	12	1	-0.01	Yes	-15	-14.99
1963	5/9/2021	12	2	-0.01	Yes	-15	-14.99
1964	5/9/2021	12	3	-0.01	Yes	-15	-14.99
1965	5/9/2021	12	4	-0.01	Yes	-15	-14.99
1966	5/9/2021	12	5	-0.01	Yes	-15	-14.99
1967	5/9/2021	12	6	-0.01	Yes	-15	-14.99
1968	5/9/2021	12	7	-0.01	Yes	-15	-14.99
1969	5/9/2021	12	8	-0.01	Yes	-15	-14.99
1970	5/9/2021	12	9	-0.01	Yes	-15	-14.99
1971	5/9/2021	12	10	-0.01	Yes	-15	-14.99
1972	5/9/2021	12	11	-0.01	Yes	-15	-14.99

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1973	5/9/2021	12	12	-0.01	Yes	-15	-14.99
1974	5/9/2021	13	1	-0.01	Yes	-15	-14.99
1975	5/9/2021	13	2	-0.01	Yes	-15	-14.99
1976	5/9/2021	13	3	-0.01	Yes	-15	-14.99
1977	5/9/2021	13	4	-0.01	Yes	-15	-14.99
1978	5/9/2021	13	5	-0.01	Yes	-15	-14.99
1979	5/9/2021	13	6	-0.01	Yes	-15	-14.99
1980	5/9/2021	13	7	-0.01	Yes	-15	-14.99
1981	5/9/2021	13	8	-0.01	Yes	-15	-14.99
1982	5/9/2021	13	9	-0.01	Yes	-15	-14.99
1983	5/9/2021	13	10	-0.01	Yes	-15	-14.99
1984	5/9/2021	13	11	-0.01	Yes	-15	-14.99
1985	5/9/2021	13	12	-0.01	Yes	-15	-14.99
1986	5/9/2021	14	1	-0.01	Yes	-15	-14.99
1987	5/9/2021	14	2	-0.01	Yes	-15	-14.99
1988	5/9/2021	14	3	-0.01	Yes	-15	-14.99
1989	5/9/2021	14	4	-0.01	Yes	-15	-14.99
1990	5/9/2021	14	5	-0.01	Yes	-15	-14.99
1991	5/9/2021	14	6	0.00	Yes	-15	-15.00
1992	5/9/2021	14	7	-0.01	Yes	-15	-14.99
1993	5/9/2021	14	8	-0.01	Yes	-15	-14.99
1994	5/9/2021	14	9	6.29	Yes	-15	-21.29
1995	5/9/2021	14	10	6.29	Yes	-15	-21.29
1996	5/9/2021	14	11	12.93	Yes	-15	-27.93
1997	5/9/2021	14	12	13.75	Yes	-15	-28.75
1998	5/9/2021	15	1	12.97	Yes	-15	-27.97
1999	5/9/2021	15	2	12.99	Yes	-15	-27.99
2000	5/9/2021	15	3	16.13	Yes	-15	-31.13
2001	5/9/2021	15	4	18.35	Yes	-15	-33.35
2002	5/9/2021	15	5	22.47	Yes	-15	-37.47
2003	5/9/2021	15	6	23.95	Yes	-15	-38.95
2004	5/9/2021	15	7	23.27	Yes	-15	-38.27
2005	5/9/2021	15	8	24.53	Yes	-15	-39.53
2006	5/9/2021	15	9	25.60	Yes	-15	-40.60
2007	5/9/2021	15	10	26.94	Yes	-15	-41.94
2008	5/9/2021	15	11	26.87	Yes	-15	-41.87
2009	5/9/2021	15	12	27.61	Yes	-15	-42.61
2010	5/9/2021	16	1	14.70	Yes	-15	-29.70

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2011	5/9/2021	16	2	18.82	Yes	-15	-33.82
2012	5/9/2021	16	3	22.95	Yes	-15	-37.95
2013	5/9/2021	16	4	23.21	Yes	-15	-38.21
2014	5/9/2021	16	5	24.58	Yes	-15	-39.58
2015	5/9/2021	16	6	25.67	Yes	-15	-40.67
2016	5/9/2021	16	7	25.85	Yes	-15	-40.85
2017	5/9/2021	16	8	27.80	Yes	-15	-42.80
2018	5/9/2021	16	9	27.72	Yes	-15	-42.72
2019	5/9/2021	16	10	26.70	Yes	-15	-41.70
2020	5/9/2021	16	11	27.85	Yes	-15	-42.85
2021	5/9/2021	16	12	26.04	Yes	-15	-41.04
2022	5/9/2021	17	1	21.18	Yes	-15	-36.18
2023	5/9/2021	17	2	16.38	Yes	-15	-31.38
2024	5/9/2021	17	3	18.52	Yes	-15	-33.52
2025	5/9/2021	17	4	21.18	Yes	-15	-36.18
2026	5/9/2021	17	5	23.41	Yes	-15	-38.41
2027	5/9/2021	17	6	21.80	Yes	-15	-36.80
2028	5/9/2021	17	7	38.32	Yes	-15	-53.32
2029	5/9/2021	17	8	35.09	Yes	-15	-50.09
2030	5/9/2021	17	9	35.11	Yes	-15	-50.11
2031	5/9/2021	17	10	36.98	Yes	-15	-51.98
2032	5/9/2021	17	11	31.48	Yes	-15	-46.48
2033	5/9/2021	17	12	28.25	Yes	-15	-43.25
2034	5/9/2021	18	1	24.97	Yes	-15	-39.97
2035	5/9/2021	18	2	26.81	Yes	-15	-41.81
2036	5/9/2021	18	3	28.06	Yes	-15	-43.06
2037	5/9/2021	18	4	27.80	Yes	-15	-42.80
2038	5/9/2021	18	5	28.96	Yes	-15	-43.96
2039	5/9/2021	18	6	30.04	Yes	-15	-45.04
2040	5/9/2021	18	7	28.32	Yes	-15	-43.32
2041	5/9/2021	18	8	27.79	Yes	-15	-42.79
2042	5/9/2021	18	9	30.45	Yes	-15	-45.45
2043	5/9/2021	18	10	30.21	Yes	-15	-45.21
2044	5/9/2021	18	11	31.69	Yes	-15	-46.69
2045	5/9/2021	18	12	32.92	Yes	-15	-47.92
2046	5/9/2021	19	1	24.06	Yes	-15	-39.06
2047	5/9/2021	19	2	24.19	Yes	-15	-39.19
2048	5/9/2021	19	3	24.52	Yes	-15	-39.52

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2049	5/9/2021	19	4	25.52	Yes	-15	-40.52
2050	5/9/2021	19	5	28.36	Yes	-15	-43.36
2051	5/9/2021	19	6	36.72	Yes	-15	-51.72
2052	5/9/2021	19	7	33.24	Yes	-15	-48.24
2053	5/9/2021	19	8	40.00	Yes	-15	-55.00
2054	5/9/2021	19	9	73.50	Yes	-15	-88.50
2055	5/9/2021	19	10	44.67	Yes	-15	-59.67
2056	5/9/2021	19	11	75.00	Yes	-15	-90.00
2057	5/9/2021	19	12	500.00	Yes	-15	-515.00
2058	5/9/2021	20	1	43.18	Yes	-15	-58.18
2059	5/9/2021	20	2	45.40	Yes	-15	-60.40
2060	5/9/2021	20	3	53.65	Yes	-15	-68.65
2061	5/9/2021	20	4	60.21	Yes	-15	-75.21
2062	5/9/2021	20	5	72.88	Yes	-15	-87.88
2063	5/9/2021	20	6	82.70	Yes	-15	-97.70
2064	5/9/2021	20	7	67.32	Yes	-15	-82.32
2065	5/9/2021	20	8	58.20	Yes	-15	-73.20
2066	5/9/2021	20	9	57.36	Yes	-15	-72.36
2067	5/9/2021	20	10	55.87	Yes	-15	-70.87
2068	5/9/2021	20	11	68.98	Yes	-15	-83.98
2069	5/9/2021	20	12	67.96	Yes	-15	-82.96
2070	5/9/2021	21	1	65.31	Yes	-15	-80.31
2071	5/9/2021	21	2	60.89	Yes	-15	-75.89
2072	5/9/2021	21	3	55.85	Yes	-15	-70.85
2073	5/9/2021	21	4	54.29	Yes	-15	-69.29
2074	5/9/2021	21	5	49.16	Yes	-15	-64.16
2075	5/9/2021	21	6	48.24	Yes	-15	-63.24
2076	5/9/2021	21	7	43.44	Yes	-15	-58.44
2077	5/9/2021	21	8	40.83	Yes	-15	-55.83
2078	5/9/2021	21	9	40.59	Yes	-15	-55.59
2079	5/9/2021	21	10	41.87	Yes	-15	-56.87
2080	5/9/2021	21	11	43.24	Yes	-15	-58.24
2081	5/9/2021	21	12	41.45	Yes	-15	-56.45
2082	5/9/2021	22	1	49.27	Yes	-15	-64.27
2083	5/9/2021	22	2	48.04	Yes	-15	-63.04
2084	5/9/2021	22	3	46.27	Yes	-15	-61.27
2085	5/9/2021	22	4	48.64	Yes	-15	-63.64
2086	5/9/2021	22	5	44.25	Yes	-15	-59.25

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2087	5/9/2021	22	6	39.64	Yes	-15	-54.64
2088	5/9/2021	22	7	40.10	Yes	-15	-55.10
2089	5/9/2021	22	8	37.21	Yes	-15	-52.21
2090	5/9/2021	22	9	35.73	Yes	-15	-50.73
2091	5/9/2021	22	10	35.34	Yes	-15	-50.34
2092	5/9/2021	22	11	34.92	Yes	-15	-49.92
2093	5/9/2021	22	12	34.85	Yes	-15	-49.85
2094	5/9/2021	23	1	44.06	Yes	1	-43.06
2095	5/9/2021	23	2	42.89	Yes	1	-41.89
2096	5/9/2021	23	3	39.88	Yes	1	-38.88
2097	5/9/2021	23	4	38.20	Yes	1	-37.20
2098	5/9/2021	23	5	37.01	Yes	1	-36.01
2099	5/9/2021	23	6	36.94	Yes	1	-35.94
2100	5/9/2021	23	7	36.39	Yes	1	-35.39
2101	5/9/2021	23	8	36.03	Yes	1	-35.03
2102	5/9/2021	23	9	34.92	Yes	1	-33.92
2103	5/9/2021	23	10	32.71	Yes	1	-31.71
2104	5/9/2021	23	11	32.18	Yes	1	-31.18
2105	5/9/2021	23	12	31.28	Yes	1	-30.28
2106	5/9/2021	24	1	36.02	Yes	1	-35.02
2107	5/9/2021	24	2	36.29	Yes	1	-35.29
2108	5/9/2021	24	3	35.00	Yes	1	-34.00
2109	5/9/2021	24	4	33.45	Yes	1	-32.45
2110	5/9/2021	24	5	33.29	Yes	1	-32.29
2111	5/9/2021	24	6	32.54	Yes	1	-31.54
2112	5/9/2021	24	7	30.57	Yes	1	-29.57
2113	5/9/2021	24	8	29.84	Yes	1	-28.84
2114	5/9/2021	24	9	29.71	Yes	1	-28.71
2115	5/9/2021	24	10	29.30	Yes	1	-28.30
2116	5/9/2021	24	11	29.52	Yes	1	-28.52
2117	5/9/2021	24	12	28.58	Yes	1	-27.58
2118	5/10/2021	1	1	32.54	Yes	-15	-47.54
2119	5/10/2021	1	2	32.65	Yes	-15	-47.65
2120	5/10/2021	1	3	32.70	Yes	-15	-47.70
2121	5/10/2021	1	4	30.44	Yes	-15	-45.44
2122	5/10/2021	1	5	31.97	Yes	-15	-46.97
2123	5/10/2021	1	6	30.86	Yes	-15	-45.86
2124	5/10/2021	1	7	31.07	Yes	-15	-46.07

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2125	5/10/2021	1	8	31.26	Yes	-15	-46.26
2126	5/10/2021	1	9	30.83	Yes	-15	-45.83
2127	5/10/2021	1	10	30.05	Yes	-15	-45.05
2128	5/10/2021	1	11	30.05	Yes	-15	-45.05
2129	5/10/2021	1	12	29.47	Yes	-15	-44.47
2130	5/10/2021	2	1	29.50	Yes	-15	-44.50
2131	5/10/2021	2	2	29.22	Yes	-15	-44.22
2132	5/10/2021	2	3	29.22	Yes	-15	-44.22
2133	5/10/2021	2	4	27.05	Yes	-15	-42.05
2134	5/10/2021	2	5	27.05	Yes	-15	-42.05
2135	5/10/2021	2	6	27.85	Yes	-15	-42.85
2136	5/10/2021	2	7	26.11	Yes	-15	-41.11
2137	5/10/2021	2	8	26.11	Yes	-15	-41.11
2138	5/10/2021	2	9	26.08	Yes	-15	-41.08
2139	5/10/2021	2	10	26.36	Yes	-15	-41.36
2140	5/10/2021	2	11	26.01	Yes	-15	-41.01
2141	5/10/2021	2	12	27.15	Yes	-15	-42.15
2142	5/10/2021	3	1	27.96	Yes	-15	-42.96
2143	5/10/2021	3	2	28.16	Yes	-15	-43.16
2144	5/10/2021	3	3	27.85	Yes	-15	-42.85
2145	5/10/2021	3	4	27.61	Yes	-15	-42.61
2146	5/10/2021	3	5	27.61	Yes	-15	-42.61
2147	5/10/2021	3	6	27.27	Yes	-15	-42.27
2148	5/10/2021	3	7	26.54	Yes	-15	-41.54
2149	5/10/2021	3	8	26.16	Yes	-15	-41.16
2150	5/10/2021	3	9	25.62	Yes	-15	-40.62
2151	5/10/2021	3	10	26.42	Yes	-15	-41.42
2152	5/10/2021	3	11	26.48	Yes	-15	-41.48
2153	5/10/2021	3	12	27.70	Yes	-15	-42.70
2154	5/10/2021	4	1	27.11	Yes	-15	-42.11
2155	5/10/2021	4	2	27.11	Yes	-15	-42.11
2156	5/10/2021	4	3	25.97	Yes	-15	-40.97
2157	5/10/2021	4	4	25.97	Yes	-15	-40.97
2158	5/10/2021	4	5	25.66	Yes	-15	-40.66
2159	5/10/2021	4	6	25.99	Yes	-15	-40.99
2160	5/10/2021	4	7	26.15	Yes	-15	-41.15
2161	5/10/2021	4	8	26.15	Yes	-15	-41.15
2162	5/10/2021	4	9	26.15	Yes	-15	-41.15

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2163	5/10/2021	4	10	26.49	Yes	-15	-41.49
2164	5/10/2021	4	11	26.11	Yes	-15	-41.11
2165	5/10/2021	4	12	26.03	Yes	-15	-41.03
2166	5/10/2021	5	1	26.38	Yes	-15	-41.38
2167	5/10/2021	5	2	26.38	Yes	-15	-41.38
2168	5/10/2021	5	3	26.66	Yes	-15	-41.66
2169	5/10/2021	5	4	26.11	Yes	-15	-41.11
2170	5/10/2021	5	5	26.11	Yes	-15	-41.11
2171	5/10/2021	5	6	27.11	Yes	-15	-42.11
2172	5/10/2021	5	7	29.25	Yes	-15	-44.25
2173	5/10/2021	5	8	29.41	Yes	-15	-44.41
2174	5/10/2021	5	9	29.60	Yes	-15	-44.60
2175	5/10/2021	5	10	30.07	Yes	-15	-45.07
2176	5/10/2021	5	11	30.04	Yes	-15	-45.04
2177	5/10/2021	5	12	29.78	Yes	-15	-44.78
2178	5/10/2021	6	1	29.47	Yes	-15	-44.47
2179	5/10/2021	6	2	29.43	Yes	-15	-44.43
2180	5/10/2021	6	3	29.59	Yes	-15	-44.59
2181	5/10/2021	6	4	29.80	Yes	-15	-44.80
2182	5/10/2021	6	5	30.32	Yes	-15	-45.32
2183	5/10/2021	6	6	30.32	Yes	-15	-45.32
2184	5/10/2021	6	7	30.44	Yes	-15	-45.44
2185	5/10/2021	6	8	30.79	Yes	-15	-45.79
2186	5/10/2021	6	9	32.90	Yes	-15	-47.90
2187	5/10/2021	6	10	34.74	Yes	-15	-49.74
2188	5/10/2021	6	11	36.12	Yes	-15	-51.12
2189	5/10/2021	6	12	37.83	Yes	-15	-52.83
2190	5/10/2021	7	1	34.23	Yes	-15	-49.23
2191	5/10/2021	7	2	33.28	Yes	-15	-48.28
2192	5/10/2021	7	3	36.75	Yes	-15	-51.75
2193	5/10/2021	7	4	35.29	Yes	-15	-50.29
2194	5/10/2021	7	5	33.43	Yes	-15	-48.43
2195	5/10/2021	7	6	32.27	Yes	-15	-47.27
2196	5/10/2021	7	7	33.56	Yes	-15	-48.56
2197	5/10/2021	7	8	32.05	Yes	-15	-47.05
2198	5/10/2021	7	9	30.90	Yes	-15	-45.90
2199	5/10/2021	7	10	28.87	Yes	-15	-43.87
2200	5/10/2021	7	11	27.86	Yes	-15	-42.86

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2201	5/10/2021	7	12	27.23	Yes	-15	-42.23
2202	5/10/2021	8	1	45.13	Yes	-15	-60.13
2203	5/10/2021	8	2	37.56	Yes	-15	-52.56
2204	5/10/2021	8	3	40.72	Yes	-15	-55.72
2205	5/10/2021	8	4	42.87	Yes	-15	-57.87
2206	5/10/2021	8	5	44.09	Yes	-15	-59.09
2207	5/10/2021	8	6	33.06	Yes	-15	-48.06
2208	5/10/2021	8	7	35.79	Yes	-15	-50.79
2209	5/10/2021	8	8	36.20	Yes	-15	-51.20
2210	5/10/2021	8	9	35.47	Yes	-15	-50.47
2211	5/10/2021	8	10	42.95	Yes	-15	-57.95
2212	5/10/2021	8	11	43.09	Yes	-15	-58.09
2213	5/10/2021	8	12	39.60	Yes	-15	-54.60
2214	5/10/2021	9	1	47.86	Yes	-15	-62.86
2215	5/10/2021	9	2	49.14	Yes	-15	-64.14
2216	5/10/2021	9	3	49.57	Yes	-15	-64.57
2217	5/10/2021	9	4	45.71	Yes	-15	-60.71
2218	5/10/2021	9	5	47.31	Yes	-15	-62.31
2219	5/10/2021	9	6	49.88	Yes	-15	-64.88
2220	5/10/2021	9	7	29.07	Yes	-15	-44.07
2221	5/10/2021	9	8	35.83	Yes	-15	-50.83
2222	5/10/2021	9	9	33.84	Yes	-15	-48.84
2223	5/10/2021	9	10	38.44	Yes	-15	-53.44
2224	5/10/2021	9	11	37.42	Yes	-15	-52.42
2225	5/10/2021	9	12	33.47	Yes	-15	-48.47
2226	5/10/2021	10	1	40.08	Yes	-15	-55.08
2227	5/10/2021	10	2	41.10	Yes	-15	-56.10
2228	5/10/2021	10	3	39.52	Yes	-15	-54.52
2229	5/10/2021	10	4	42.91	Yes	-15	-57.91
2230	5/10/2021	10	5	42.33	Yes	-15	-57.33
2231	5/10/2021	10	6	53.10	Yes	-15	-68.10
2232	5/10/2021	10	7	35.43	Yes	-15	-50.43
2233	5/10/2021	10	8	35.93	Yes	-15	-50.93
2234	5/10/2021	10	9	35.50	Yes	-15	-50.50
2235	5/10/2021	10	10	34.03	Yes	-15	-49.03
2236	5/10/2021	10	11	35.83	Yes	-15	-50.83
2237	5/10/2021	10	12	37.32	Yes	-15	-52.32
2238	5/10/2021	11	1	50.12	Yes	-15	-65.12

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2239	5/10/2021	11	2	49.77	Yes	-15	-64.77
2240	5/10/2021	11	3	49.57	Yes	-15	-64.57
2241	5/10/2021	11	4	51.96	Yes	-15	-66.96
2242	5/10/2021	11	5	55.16	Yes	-15	-70.16
2243	5/10/2021	11	6	56.82	Yes	-15	-71.82
2244	5/10/2021	11	7	43.07	Yes	-15	-58.07
2245	5/10/2021	11	8	44.40	Yes	-15	-59.40
2246	5/10/2021	11	9	45.47	Yes	-15	-60.47
2247	5/10/2021	11	10	44.23	Yes	-15	-59.23
2248	5/10/2021	11	11	43.87	Yes	-15	-58.87
2249	5/10/2021	11	12	34.92	Yes	-15	-49.92
2250	5/10/2021	12	1	44.60	Yes	-15	-59.60
2251	5/10/2021	12	2	44.74	Yes	-15	-59.74
2252	5/10/2021	12	3	44.72	Yes	-15	-59.72
2253	5/10/2021	12	4	42.04	Yes	-15	-57.04
2254	5/10/2021	12	5	41.90	Yes	-15	-56.90
2255	5/10/2021	12	6	42.54	Yes	-15	-57.54
2256	5/10/2021	12	7	42.43	Yes	-15	-57.43
2257	5/10/2021	12	8	43.58	Yes	-15	-58.58
2258	5/10/2021	12	9	42.76	Yes	-15	-57.76
2259	5/10/2021	12	10	41.41	Yes	-15	-56.41
2260	5/10/2021	12	11	40.27	Yes	-15	-55.27
2261	5/10/2021	12	12	40.27	Yes	-15	-55.27
2262	5/10/2021	13	1	47.77	Yes	-15	-62.77
2263	5/10/2021	13	2	46.97	Yes	-15	-61.97
2264	5/10/2021	13	3	47.60	Yes	-15	-62.60
2265	5/10/2021	13	4	39.12	Yes	-15	-54.12
2266	5/10/2021	13	5	40.85	Yes	-15	-55.85
2267	5/10/2021	13	6	41.58	Yes	-15	-56.58
2268	5/10/2021	13	7	35.44	Yes	-15	-50.44
2269	5/10/2021	13	8	35.40	Yes	-15	-50.40
2270	5/10/2021	13	9	35.73	Yes	-15	-50.73
2271	5/10/2021	13	10	36.05	Yes	-15	-51.05
2272	5/10/2021	13	11	36.68	Yes	-15	-51.68
2273	5/10/2021	13	12	36.26	Yes	-15	-51.26
2274	5/10/2021	14	1	65.57	Yes	-15	-80.57
2275	5/10/2021	14	2	57.26	Yes	-15	-72.26
2276	5/10/2021	14	3	63.64	Yes	-15	-78.64

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2277	5/10/2021	14	4	78.05	Yes	-15	-93.05
2278	5/10/2021	14	5	86.26	Yes	-15	-101.26
2279	5/10/2021	14	6	91.19	Yes	-15	-106.19
2280	5/10/2021	14	7	45.19	Yes	-15	-60.19
2281	5/10/2021	14	8	50.84	Yes	-15	-65.84
2282	5/10/2021	14	9	50.87	Yes	-15	-65.87
2283	5/10/2021	14	10	59.24	Yes	-15	-74.24
2284	5/10/2021	14	11	62.23	Yes	-15	-77.23
2285	5/10/2021	14	12	58.84	Yes	-15	-73.84
2286	5/10/2021	15	1	53.07	Yes	-15	-68.07
2287	5/10/2021	15	2	56.40	Yes	-15	-71.40
2288	5/10/2021	15	3	56.26	Yes	-15	-71.26
2289	5/10/2021	15	4	65.49	Yes	-15	-80.49
2290	5/10/2021	15	5	61.54	Yes	-15	-76.54
2291	5/10/2021	15	6	68.91	Yes	-15	-83.91
2292	5/10/2021	15	7	51.31	Yes	-15	-66.31
2293	5/10/2021	15	8	52.15	Yes	-15	-67.15
2294	5/10/2021	15	9	54.31	Yes	-15	-69.31
2295	5/10/2021	15	10	64.19	Yes	-15	-79.19
2296	5/10/2021	15	11	65.59	Yes	-15	-80.59
2297	5/10/2021	15	12	68.25	Yes	-15	-83.25
2298	5/10/2021	16	1	61.13	Yes	-15	-76.13
2299	5/10/2021	16	2	58.33	Yes	-15	-73.33
2300	5/10/2021	16	3	63.41	Yes	-15	-78.41
2301	5/10/2021	16	4	43.09	Yes	-15	-58.09
2302	5/10/2021	16	5	46.19	Yes	-15	-61.19
2303	5/10/2021	16	6	50.57	Yes	-15	-65.57
2304	5/10/2021	16	7	41.56	Yes	-15	-56.56
2305	5/10/2021	16	8	41.62	Yes	-15	-56.62
2306	5/10/2021	16	9	31.27	Yes	-15	-46.27
2307	5/10/2021	16	10	34.22	Yes	-15	-49.22
2308	5/10/2021	16	11	50.43	Yes	-15	-65.43
2309	5/10/2021	16	12	50.85	Yes	-15	-65.85
2310	5/10/2021	17	1	35.22	Yes	-15	-50.22
2311	5/10/2021	17	2	35.29	Yes	-15	-50.29
2312	5/10/2021	17	3	35.87	Yes	-15	-50.87
2313	5/10/2021	17	4	37.75	Yes	-15	-52.75
2314	5/10/2021	17	5	42.79	Yes	-15	-57.79

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2315	5/10/2021	17	6	43.81	Yes	-15	-58.81
2316	5/10/2021	17	7	40.73	Yes	-15	-55.73
2317	5/10/2021	17	8	40.73	Yes	-15	-55.73
2318	5/10/2021	17	9	43.70	Yes	-15	-58.70
2319	5/10/2021	17	10	48.85	Yes	-15	-63.85
2320	5/10/2021	17	11	49.00	Yes	-15	-64.00
2321	5/10/2021	17	12	48.90	Yes	-15	-63.90
2322	5/10/2021	18	1	48.76	Yes	-15	-63.76
2323	5/10/2021	18	2	48.70	Yes	-15	-63.70
2324	5/10/2021	18	3	50.22	Yes	-15	-65.22
2325	5/10/2021	18	4	47.83	Yes	-15	-62.83
2326	5/10/2021	18	5	56.39	Yes	-15	-71.39
2327	5/10/2021	18	6	63.53	Yes	-15	-78.53
2328	5/10/2021	18	7	57.04	Yes	-15	-72.04
2329	5/10/2021	18	8	60.54	Yes	-15	-75.54
2330	5/10/2021	18	9	65.18	Yes	-15	-80.18
2331	5/10/2021	18	10	60.94	Yes	-15	-75.94
2332	5/10/2021	18	11	66.29	Yes	-15	-81.29
2333	5/10/2021	18	12	82.54	Yes	-15	-97.54
2334	5/10/2021	19	1	45.38	Yes	-15	-60.38
2335	5/10/2021	19	2	48.24	Yes	-15	-63.24
2336	5/10/2021	19	3	51.31	Yes	-15	-66.31
2337	5/10/2021	19	4	49.35	Yes	-15	-64.35
2338	5/10/2021	19	5	76.42	Yes	-15	-91.42
2339	5/10/2021	19	6	68.20	Yes	-15	-83.20
2340	5/10/2021	19	7	82.03	Yes	-15	-97.03
2341	5/10/2021	19	8	80.25	Yes	-15	-95.25
2342	5/10/2021	19	9	80.96	Yes	-15	-95.96
2343	5/10/2021	19	10	65.58	Yes	-15	-80.58
2344	5/10/2021	19	11	70.04	Yes	-15	-85.04
2345	5/10/2021	19	12	62.36	Yes	-15	-77.36
2346	5/10/2021	20	1	59.75	Yes	-15	-74.75
2347	5/10/2021	20	2	54.59	Yes	-15	-69.59
2348	5/10/2021	20	3	57.95	Yes	-15	-72.95
2349	5/10/2021	20	4	63.48	Yes	-15	-78.48
2350	5/10/2021	20	5	65.00	Yes	-15	-80.00
2351	5/10/2021	20	6	69.56	Yes	-15	-84.56
2352	5/10/2021	20	7	61.28	Yes	-15	-76.28

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2353	5/10/2021	20	8	55.77	Yes	-15	-70.77
2354	5/10/2021	20	9	57.98	Yes	-15	-72.98
2355	5/10/2021	20	10	55.37	Yes	-15	-70.37
2356	5/10/2021	20	11	55.37	Yes	-15	-70.37
2357	5/10/2021	20	12	56.31	Yes	-15	-71.31
2358	5/10/2021	21	1	56.21	Yes	-15	-71.21
2359	5/10/2021	21	2	56.21	Yes	-15	-71.21
2360	5/10/2021	21	3	56.09	Yes	-15	-71.09
2361	5/10/2021	21	4	63.08	Yes	-15	-78.08
2362	5/10/2021	21	5	59.15	Yes	-15	-74.15
2363	5/10/2021	21	6	56.83	Yes	-15	-71.83
2364	5/10/2021	21	7	55.66	Yes	-15	-70.66
2365	5/10/2021	21	8	55.51	Yes	-15	-70.51
2366	5/10/2021	21	9	51.43	Yes	-15	-66.43
2367	5/10/2021	21	10	48.40	Yes	-15	-63.40
2368	5/10/2021	21	11	44.07	Yes	-15	-59.07
2369	5/10/2021	21	12	42.89	Yes	-15	-57.89
2370	5/10/2021	22	1	55.24	Yes	-15	-70.24
2371	5/10/2021	22	2	55.23	Yes	-15	-70.23
2372	5/10/2021	22	3	52.64	Yes	-15	-67.64
2373	5/10/2021	22	4	54.09	Yes	-15	-69.09
2374	5/10/2021	22	5	46.89	Yes	-15	-61.89
2375	5/10/2021	22	6	45.45	Yes	-15	-60.45
2376	5/10/2021	22	7	51.98	Yes	-15	-66.98
2377	5/10/2021	22	8	45.89	Yes	-15	-60.89
2378	5/10/2021	22	9	45.22	Yes	-15	-60.22
2379	5/10/2021	22	10	41.88	Yes	-15	-56.88
2380	5/10/2021	22	11	41.88	Yes	-15	-56.88
2381	5/10/2021	22	12	41.88	Yes	-15	-56.88
2382	5/10/2021	23	1	45.66	Yes	-15	-60.66
2383	5/10/2021	23	2	47.83	Yes	-15	-62.83
2384	5/10/2021	23	3	45.69	Yes	-15	-60.69
2385	5/10/2021	23	4	45.13	Yes	-15	-60.13
2386	5/10/2021	23	5	43.61	Yes	-15	-58.61
2387	5/10/2021	23	6	41.53	Yes	-15	-56.53
2388	5/10/2021	23	7	46.65	Yes	-15	-61.65
2389	5/10/2021	23	8	43.35	Yes	-15	-58.35
2390	5/10/2021	23	9	40.00	Yes	-15	-55.00

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2391	5/10/2021	23	10	34.53	Yes	-15	-49.53
2392	5/10/2021	23	11	34.06	Yes	-15	-49.06
2393	5/10/2021	23	12	34.08	Yes	-15	-49.08
2394	5/10/2021	24	1	39.39	Yes	-15	-54.39
2395	5/10/2021	24	2	36.99	Yes	-15	-51.99
2396	5/10/2021	24	3	35.29	Yes	-15	-50.29
2397	5/10/2021	24	4	36.91	Yes	-15	-51.91
2398	5/10/2021	24	5	34.78	Yes	-15	-49.78
2399	5/10/2021	24	6	33.65	Yes	-15	-48.65
2400	5/10/2021	24	7	33.38	Yes	-15	-48.38
2401	5/10/2021	24	8	34.37	Yes	-15	-49.37
2402	5/10/2021	24	9	33.57	Yes	-15	-48.57
2403	5/10/2021	24	10	32.80	Yes	-15	-47.80
2404	5/10/2021	24	11	33.31	Yes	-15	-48.31
2405	5/10/2021	24	12	33.31	Yes	-15	-48.31
2406	5/11/2021	1	1	36.73	Yes	1	-35.73
2407	5/11/2021	1	2	36.59	Yes	1	-35.59
2408	5/11/2021	1	3	35.13	Yes	1	-34.13
2409	5/11/2021	1	4	36.51	Yes	1	-35.51
2410	5/11/2021	1	5	36.69	Yes	1	-35.69
2411	5/11/2021	1	6	33.63	Yes	1	-32.63
2412	5/11/2021	1	7	32.66	Yes	1	-31.66
2413	5/11/2021	1	8	32.00	Yes	1	-31.00
2414	5/11/2021	1	9	32.04	Yes	1	-31.04
2415	5/11/2021	1	10	30.66	Yes	1	-29.66
2416	5/11/2021	1	11	30.44	Yes	1	-29.44
2417	5/11/2021	1	12	30.30	Yes	1	-29.30
2418	5/11/2021	2	1	31.94	Yes	1	-30.94
2419	5/11/2021	2	2	31.82	Yes	1	-30.82
2420	5/11/2021	2	3	32.15	Yes	1	-31.15
2421	5/11/2021	2	4	31.90	Yes	1	-30.90
2422	5/11/2021	2	5	31.46	Yes	1	-30.46
2423	5/11/2021	2	6	32.04	Yes	1	-31.04
2424	5/11/2021	2	7	31.33	Yes	1	-30.33
2425	5/11/2021	2	8	31.11	Yes	1	-30.11
2426	5/11/2021	2	9	30.87	Yes	1	-29.87
2427	5/11/2021	2	10	30.33	Yes	1	-29.33
2428	5/11/2021	2	11	30.13	Yes	1	-29.13

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2429	5/11/2021	2	12	30.58	Yes	1	-29.58
2430	5/11/2021	3	1	30.17	Yes	1	-29.17
2431	5/11/2021	3	2	30.25	Yes	1	-29.25
2432	5/11/2021	3	3	30.16	Yes	1	-29.16
2433	5/11/2021	3	4	30.14	Yes	1	-29.14
2434	5/11/2021	3	5	30.25	Yes	1	-29.25
2435	5/11/2021	3	6	30.15	Yes	1	-29.15
2436	5/11/2021	3	7	31.05	Yes	1	-30.05
2437	5/11/2021	3	8	30.71	Yes	1	-29.71
2438	5/11/2021	3	9	30.84	Yes	1	-29.84
2439	5/11/2021	3	10	30.43	Yes	1	-29.43
2440	5/11/2021	3	11	30.26	Yes	1	-29.26
2441	5/11/2021	3	12	30.34	Yes	1	-29.34
2442	5/11/2021	4	1	30.01	Yes	1	-29.01
2443	5/11/2021	4	2	30.62	Yes	1	-29.62
2444	5/11/2021	4	3	30.62	Yes	1	-29.62
2445	5/11/2021	4	4	31.03	Yes	1	-30.03
2446	5/11/2021	4	5	30.80	Yes	1	-29.80
2447	5/11/2021	4	6	31.03	Yes	1	-30.03
2448	5/11/2021	4	7	32.39	Yes	1	-31.39
2449	5/11/2021	4	8	31.71	Yes	1	-30.71
2450	5/11/2021	4	9	33.17	Yes	1	-32.17
2451	5/11/2021	4	10	33.07	Yes	1	-32.07
2452	5/11/2021	4	11	32.66	Yes	1	-31.66
2453	5/11/2021	4	12	31.71	Yes	1	-30.71
2454	5/11/2021	5	1	31.12	Yes	1	-30.12
2455	5/11/2021	5	2	31.22	Yes	1	-30.22
2456	5/11/2021	5	3	31.71	Yes	1	-30.71
2457	5/11/2021	5	4	31.77	Yes	1	-30.77
2458	5/11/2021	5	5	32.12	Yes	1	-31.12
2459	5/11/2021	5	6	33.76	Yes	1	-32.76
2460	5/11/2021	5	7	33.73	Yes	1	-32.73
2461	5/11/2021	5	8	33.94	Yes	1	-32.94
2462	5/11/2021	5	9	34.35	Yes	1	-33.35
2463	5/11/2021	5	10	36.93	Yes	1	-35.93
2464	5/11/2021	5	11	38.96	Yes	1	-37.96
2465	5/11/2021	5	12	43.93	Yes	1	-42.93
2466	5/11/2021	6	1	1.09	Yes	1	-0.09

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2467	5/11/2021	6	2	1.08	Yes	1	-0.08
2468	5/11/2021	6	3	1.08	Yes	1	-0.08
2469	5/11/2021	6	4	38.01	Yes	1	-37.01
2470	5/11/2021	6	5	42.53	Yes	1	-41.53
2471	5/11/2021	6	6	42.95	Yes	1	-41.95
2472	5/11/2021	6	7	1.09	Yes	1	-0.09
2473	5/11/2021	6	8	1.10	Yes	1	-0.10
2474	5/11/2021	6	9	1.10	Yes	1	-0.10
2475	5/11/2021	6	10	1.09	Yes	1	-0.09
2476	5/11/2021	6	11	1.10	Yes	1	-0.10
2477	5/11/2021	6	12	1.12	Yes	1	-0.12
2478	5/11/2021	7	1	55.81	Yes	1	-54.81
2479	5/11/2021	7	2	44.72	Yes	1	-43.72
2480	5/11/2021	7	3	41.94	Yes	1	-40.94
2481	5/11/2021	7	4	44.95	Yes	1	-43.95
2482	5/11/2021	7	5	42.28	Yes	1	-41.28
2483	5/11/2021	7	6	39.53	Yes	1	-38.53
2484	5/11/2021	7	7	35.26	Yes	1	-34.26
2485	5/11/2021	7	8	33.95	Yes	1	-32.95
2486	5/11/2021	7	9	32.71	Yes	1	-31.71
2487	5/11/2021	7	10	32.36	Yes	1	-31.36
2488	5/11/2021	7	11	30.79	Yes	1	-29.79
2489	5/11/2021	7	12	30.57	Yes	1	-29.57
2490	5/11/2021	8	1	33.13	Yes	-15	-48.13
2491	5/11/2021	8	2	32.48	Yes	-15	-47.48
2492	5/11/2021	8	3	32.33	Yes	-15	-47.33
2493	5/11/2021	8	4	31.68	Yes	-15	-46.68
2494	5/11/2021	8	5	30.96	Yes	-15	-45.96
2495	5/11/2021	8	6	30.60	Yes	-15	-45.60
2496	5/11/2021	8	7	30.04	Yes	-15	-45.04
2497	5/11/2021	8	8	30.28	Yes	-15	-45.28
2498	5/11/2021	8	9	30.16	Yes	-15	-45.16
2499	5/11/2021	8	10	32.64	Yes	-15	-47.64
2500	5/11/2021	8	11	32.43	Yes	-15	-47.43
2501	5/11/2021	8	12	45.11	Yes	-15	-60.11
2502	5/11/2021	9	1	-14.95	Yes	-15	-0.05
2503	5/11/2021	9	2	-14.93	Yes	-15	-0.07
2504	5/11/2021	9	3	-14.90	Yes	-15	-0.10

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2505	5/11/2021	9	4	-14.90	Yes	-15	-0.10
2506	5/11/2021	9	5	53.26	Yes	-15	-68.26
2507	5/11/2021	9	6	53.26	Yes	-15	-68.26
2508	5/11/2021	9	7	39.71	Yes	-15	-54.71
2509	5/11/2021	9	8	38.38	Yes	-15	-53.38
2510	5/11/2021	9	9	36.43	Yes	-15	-51.43
2511	5/11/2021	9	10	40.33	Yes	-15	-55.33
2512	5/11/2021	9	11	42.05	Yes	-15	-57.05
2513	5/11/2021	9	12	40.33	Yes	-15	-55.33
2514	5/11/2021	10	1	39.60	Yes	-15	-54.60
2515	5/11/2021	10	2	39.60	Yes	-15	-54.60
2516	5/11/2021	10	3	39.60	Yes	-15	-54.60
2517	5/11/2021	10	4	40.00	Yes	-15	-55.00
2518	5/11/2021	10	5	41.47	Yes	-15	-56.47
2519	5/11/2021	10	6	32.41	Yes	-15	-47.41
2520	5/11/2021	10	7	34.71	Yes	-15	-49.71
2521	5/11/2021	10	8	40.32	Yes	-15	-55.32
2522	5/11/2021	10	9	39.15	Yes	-15	-54.15
2523	5/11/2021	10	10	39.73	Yes	-15	-54.73
2524	5/11/2021	10	11	40.29	Yes	-15	-55.29
2525	5/11/2021	10	12	44.00	Yes	-15	-59.00
2526	5/11/2021	11	1	40.87	Yes	-15	-55.87
2527	5/11/2021	11	2	41.42	Yes	-15	-56.42
2528	5/11/2021	11	3	39.59	Yes	-15	-54.59
2529	5/11/2021	11	4	44.57	Yes	-15	-59.57
2530	5/11/2021	11	5	44.29	Yes	-15	-59.29
2531	5/11/2021	11	6	37.03	Yes	-15	-52.03
2532	5/11/2021	11	7	43.70	Yes	-15	-58.70
2533	5/11/2021	11	8	42.45	Yes	-15	-57.45
2534	5/11/2021	11	9	45.66	Yes	-15	-60.66
2535	5/11/2021	11	10	42.83	Yes	-15	-57.83
2536	5/11/2021	11	11	44.30	Yes	-15	-59.30
2537	5/11/2021	11	12	37.47	Yes	-15	-52.47
2538	5/11/2021	12	1	39.88	Yes	-15	-54.88
2539	5/11/2021	12	2	41.47	Yes	-15	-56.47
2540	5/11/2021	12	3	39.73	Yes	-15	-54.73
2541	5/11/2021	12	4	38.41	Yes	-15	-53.41
2542	5/11/2021	12	5	38.49	Yes	-15	-53.49

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2543	5/11/2021	12	6	38.23	Yes	-15	-53.23
2544	5/11/2021	12	7	41.02	Yes	-15	-56.02
2545	5/11/2021	12	8	41.02	Yes	-15	-56.02
2546	5/11/2021	12	9	41.82	Yes	-15	-56.82
2547	5/11/2021	12	10	41.39	Yes	-15	-56.39
2548	5/11/2021	12	11	40.96	Yes	-15	-55.96
2549	5/11/2021	12	12	41.61	Yes	-15	-56.61
2550	5/11/2021	13	1	42.73	Yes	-15	-57.73
2551	5/11/2021	13	2	42.80	Yes	-15	-57.80
2552	5/11/2021	13	3	42.57	Yes	-15	-57.57
2553	5/11/2021	13	4	44.05	Yes	-15	-59.05
2554	5/11/2021	13	5	49.26	Yes	-15	-64.26
2555	5/11/2021	13	6	38.90	Yes	-15	-53.90
2556	5/11/2021	13	7	54.14	Yes	-15	-69.14
2557	5/11/2021	13	8	57.01	Yes	-15	-72.01
2558	5/11/2021	13	9	59.36	Yes	-15	-74.36
2559	5/11/2021	13	10	63.66	Yes	-15	-78.66
2560	5/11/2021	13	11	66.29	Yes	-15	-81.29
2561	5/11/2021	13	12	63.14	Yes	-15	-78.14
2562	5/11/2021	14	1	61.90	Yes	-15	-76.90
2563	5/11/2021	14	2	62.07	Yes	-15	-77.07
2564	5/11/2021	14	3	61.70	Yes	-15	-76.70
2565	5/11/2021	14	4	48.10	Yes	-15	-63.10
2566	5/11/2021	14	5	48.79	Yes	-15	-63.79
2567	5/11/2021	14	6	32.17	Yes	-15	-47.17
2568	5/11/2021	14	7	35.49	Yes	-15	-50.49
2569	5/11/2021	14	8	41.28	Yes	-15	-56.28
2570	5/11/2021	14	9	58.27	Yes	-15	-73.27
2571	5/11/2021	14	10	66.53	Yes	-15	-81.53
2572	5/11/2021	14	11	68.72	Yes	-15	-83.72
2573	5/11/2021	14	12	71.54	Yes	-15	-86.54
2574	5/11/2021	15	1	62.95	Yes	-15	-77.95
2575	5/11/2021	15	2	64.92	Yes	-15	-79.92
2576	5/11/2021	15	3	67.89	Yes	-15	-82.89
2577	5/11/2021	15	4	72.62	Yes	-15	-87.62
2578	5/11/2021	15	5	71.97	Yes	-15	-86.97
2579	5/11/2021	15	6	53.35	Yes	-15	-68.35
2580	5/11/2021	15	7	82.67	Yes	-15	-97.67

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2581	5/11/2021	15	8	72.35	Yes	-15	-87.35
2582	5/11/2021	15	9	79.67	Yes	-15	-94.67
2583	5/11/2021	15	10	77.97	Yes	-15	-92.97
2584	5/11/2021	15	11	78.76	Yes	-15	-93.76
2585	5/11/2021	15	12	86.55	Yes	-15	-101.55
2586	5/11/2021	16	1	38.15	Yes	-15	-53.15
2587	5/11/2021	16	2	39.55	Yes	-15	-54.55
2588	5/11/2021	16	3	40.70	Yes	-15	-55.70
2589	5/11/2021	16	4	42.19	Yes	-15	-57.19
2590	5/11/2021	16	5	48.98	Yes	-15	-63.98
2591	5/11/2021	16	6	48.74	Yes	-15	-63.74
2592	5/11/2021	16	7	46.77	Yes	-15	-61.77
2593	5/11/2021	16	8	48.59	Yes	-15	-63.59
2594	5/11/2021	16	9	50.98	Yes	-15	-65.98
2595	5/11/2021	16	10	50.97	Yes	-15	-65.97
2596	5/11/2021	16	11	77.62	Yes	-15	-92.62
2597	5/11/2021	16	12	80.36	Yes	-15	-95.36
2598	5/11/2021	17	1	58.39	Yes	-15	-73.39
2599	5/11/2021	17	2	49.18	Yes	-15	-64.18
2600	5/11/2021	17	3	48.90	Yes	-15	-63.90
2601	5/11/2021	17	4	48.90	Yes	-15	-63.90
2602	5/11/2021	17	5	52.38	Yes	-15	-67.38
2603	5/11/2021	17	6	58.20	Yes	-15	-73.20
2604	5/11/2021	17	7	58.97	Yes	-15	-73.97
2605	5/11/2021	17	8	64.10	Yes	-15	-79.10
2606	5/11/2021	17	9	65.04	Yes	-15	-80.04
2607	5/11/2021	17	10	63.65	Yes	-15	-78.65
2608	5/11/2021	17	11	66.75	Yes	-15	-81.75
2609	5/11/2021	17	12	66.12	Yes	-15	-81.12
2610	5/11/2021	18	1	56.89	Yes	-15	-71.89
2611	5/11/2021	18	2	50.18	Yes	-15	-65.18
2612	5/11/2021	18	3	48.37	Yes	-15	-63.37
2613	5/11/2021	18	4	46.87	Yes	-15	-61.87
2614	5/11/2021	18	5	47.97	Yes	-15	-62.97
2615	5/11/2021	18	6	49.12	Yes	-15	-64.12
2616	5/11/2021	18	7	63.41	Yes	-15	-78.41
2617	5/11/2021	18	8	63.38	Yes	-15	-78.38
2618	5/11/2021	18	9	47.07	Yes	-15	-62.07

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2619	5/11/2021	18	10	70.64	Yes	-15	-85.64
2620	5/11/2021	18	11	74.80	Yes	-15	-89.80
2621	5/11/2021	18	12	74.79	Yes	-15	-89.79
2622	5/11/2021	19	1	38.88	Yes	-15	-53.88
2623	5/11/2021	19	2	38.53	Yes	-15	-53.53
2624	5/11/2021	19	3	34.78	Yes	-15	-49.78
2625	5/11/2021	19	4	35.97	Yes	-15	-50.97
2626	5/11/2021	19	5	37.07	Yes	-15	-52.07
2627	5/11/2021	19	6	38.33	Yes	-15	-53.33
2628	5/11/2021	19	7	45.48	Yes	-15	-60.48
2629	5/11/2021	19	8	55.10	Yes	-15	-70.10
2630	5/11/2021	19	9	63.60	Yes	-15	-78.60
2631	5/11/2021	19	10	68.33	Yes	-15	-83.33
2632	5/11/2021	19	11	63.77	Yes	-15	-78.77
2633	5/11/2021	19	12	64.89	Yes	-15	-79.89
2634	5/11/2021	20	1	55.06	Yes	-15	-70.06
2635	5/11/2021	20	2	46.54	Yes	-15	-61.54
2636	5/11/2021	20	3	53.10	Yes	-15	-68.10
2637	5/11/2021	20	4	49.64	Yes	-15	-64.64
2638	5/11/2021	20	5	54.51	Yes	-15	-69.51
2639	5/11/2021	20	6	56.03	Yes	-15	-71.03
2640	5/11/2021	20	7	53.11	Yes	-15	-68.11
2641	5/11/2021	20	8	50.42	Yes	-15	-65.42
2642	5/11/2021	20	9	50.91	Yes	-15	-65.91
2643	5/11/2021	20	10	51.37	Yes	-15	-66.37
2644	5/11/2021	20	11	49.17	Yes	-15	-64.17
2645	5/11/2021	20	12	53.64	Yes	-15	-68.64
2646	5/11/2021	21	1	49.50	Yes	-15	-64.50
2647	5/11/2021	21	2	51.14	Yes	-15	-66.14
2648	5/11/2021	21	3	49.12	Yes	-15	-64.12
2649	5/11/2021	21	4	69.39	Yes	-15	-84.39
2650	5/11/2021	21	5	58.91	Yes	-15	-73.91
2651	5/11/2021	21	6	55.29	Yes	-15	-70.29
2652	5/11/2021	21	7	54.09	Yes	-15	-69.09
2653	5/11/2021	21	8	51.68	Yes	-15	-66.68
2654	5/11/2021	21	9	51.67	Yes	-15	-66.67
2655	5/11/2021	21	10	45.93	Yes	-15	-60.93
2656	5/11/2021	21	11	45.43	Yes	-15	-60.43

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2657	5/11/2021	21	12	44.28	Yes	-15	-59.28
2658	5/11/2021	22	1	55.64	Yes	-15	-70.64
2659	5/11/2021	22	2	55.65	Yes	-15	-70.65
2660	5/11/2021	22	3	55.64	Yes	-15	-70.64
2661	5/11/2021	22	4	69.92	Yes	-15	-84.92
2662	5/11/2021	22	5	63.89	Yes	-15	-78.89
2663	5/11/2021	22	6	54.59	Yes	-15	-69.59
2664	5/11/2021	22	7	53.80	Yes	-15	-68.80
2665	5/11/2021	22	8	53.71	Yes	-15	-68.71
2666	5/11/2021	22	9	49.56	Yes	-15	-64.56
2667	5/11/2021	22	10	47.66	Yes	-15	-62.66
2668	5/11/2021	22	11	47.66	Yes	-15	-62.66
2669	5/11/2021	22	12	46.38	Yes	-15	-61.38
2670	5/11/2021	23	1	53.04	Yes	1	-52.04
2671	5/11/2021	23	2	53.04	Yes	1	-52.04
2672	5/11/2021	23	3	50.30	Yes	1	-49.30
2673	5/11/2021	23	4	53.52	Yes	1	-52.52
2674	5/11/2021	23	5	50.32	Yes	1	-49.32
2675	5/11/2021	23	6	45.58	Yes	1	-44.58
2676	5/11/2021	23	7	45.43	Yes	1	-44.43
2677	5/11/2021	23	8	43.24	Yes	1	-42.24
2678	5/11/2021	23	9	41.06	Yes	1	-40.06
2679	5/11/2021	23	10	38.13	Yes	1	-37.13
2680	5/11/2021	23	11	36.79	Yes	1	-35.79
2681	5/11/2021	23	12	36.50	Yes	1	-35.50
2682	5/11/2021	24	1	39.76	Yes	1	-38.76
2683	5/11/2021	24	2	37.79	Yes	1	-36.79
2684	5/11/2021	24	3	37.70	Yes	1	-36.70
2685	5/11/2021	24	4	40.06	Yes	1	-39.06
2686	5/11/2021	24	5	38.08	Yes	1	-37.08
2687	5/11/2021	24	6	36.64	Yes	1	-35.64
2688	5/11/2021	24	7	36.27	Yes	1	-35.27
2689	5/11/2021	24	8	34.89	Yes	1	-33.89
2690	5/11/2021	24	9	34.58	Yes	1	-33.58
2691	5/11/2021	24	10	37.37	Yes	1	-36.37
2692	5/11/2021	24	11	38.24	Yes	1	-37.24
2693	5/11/2021	24	12	36.05	Yes	1	-35.05
2694	5/12/2021	1	1	46.36	Yes	-15	-61.36

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2695	5/12/2021	1	2	49.24	Yes	-15	-64.24
2696	5/12/2021	1	3	49.40	Yes	-15	-64.40
2697	5/12/2021	1	4	46.36	Yes	-15	-61.36
2698	5/12/2021	1	5	41.76	Yes	-15	-56.76
2699	5/12/2021	1	6	40.37	Yes	-15	-55.37
2700	5/12/2021	1	7	40.05	Yes	-15	-55.05
2701	5/12/2021	1	8	40.05	Yes	-15	-55.05
2702	5/12/2021	1	9	38.96	Yes	-15	-53.96
2703	5/12/2021	1	10	34.14	Yes	-15	-49.14
2704	5/12/2021	1	11	34.00	Yes	-15	-49.00
2705	5/12/2021	1	12	33.70	Yes	-15	-48.70
2706	5/12/2021	2	1	37.19	Yes	-15	-52.19
2707	5/12/2021	2	2	36.57	Yes	-15	-51.57
2708	5/12/2021	2	3	34.86	Yes	-15	-49.86
2709	5/12/2021	2	4	35.76	Yes	-15	-50.76
2710	5/12/2021	2	5	35.76	Yes	-15	-50.76
2711	5/12/2021	2	6	34.87	Yes	-15	-49.87
2712	5/12/2021	2	7	34.34	Yes	-15	-49.34
2713	5/12/2021	2	8	35.18	Yes	-15	-50.18
2714	5/12/2021	2	9	35.06	Yes	-15	-50.06
2715	5/12/2021	2	10	35.34	Yes	-15	-50.34
2716	5/12/2021	2	11	35.03	Yes	-15	-50.03
2717	5/12/2021	2	12	34.98	Yes	-15	-49.98
2718	5/12/2021	3	1	36.42	Yes	-15	-51.42
2719	5/12/2021	3	2	35.14	Yes	-15	-50.14
2720	5/12/2021	3	3	33.97	Yes	-15	-48.97
2721	5/12/2021	3	4	33.40	Yes	-15	-48.40
2722	5/12/2021	3	5	33.05	Yes	-15	-48.05
2723	5/12/2021	3	6	33.01	Yes	-15	-48.01
2724	5/12/2021	3	7	32.93	Yes	-15	-47.93
2725	5/12/2021	3	8	32.93	Yes	-15	-47.93
2726	5/12/2021	3	9	32.93	Yes	-15	-47.93
2727	5/12/2021	3	10	32.89	Yes	-15	-47.89
2728	5/12/2021	3	11	-14.94	Yes	-15	-0.06
2729	5/12/2021	3	12	-14.94	Yes	-15	-0.06
2730	5/12/2021	4	1	-14.94	Yes	-15	-0.06
2731	5/12/2021	4	2	-14.94	Yes	-15	-0.06
2732	5/12/2021	4	3	-14.94	Yes	-15	-0.06

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2733	5/12/2021	4	4	-14.94	Yes	-15	-0.06
2734	5/12/2021	4	5	-14.94	Yes	-15	-0.06
2735	5/12/2021	4	6	-14.94	Yes	-15	-0.06
2736	5/12/2021	4	7	-14.94	Yes	-15	-0.06
2737	5/12/2021	4	8	-14.94	Yes	-15	-0.06
2738	5/12/2021	4	9	-14.94	Yes	-15	-0.06
2739	5/12/2021	4	10	-14.94	Yes	-15	-0.06
2740	5/12/2021	4	11	-14.94	Yes	-15	-0.06
2741	5/12/2021	4	12	-14.93	Yes	-15	-0.07
2742	5/12/2021	5	1	33.15	Yes	-15	-48.15
2743	5/12/2021	5	2	34.35	Yes	-15	-49.35
2744	5/12/2021	5	3	34.54	Yes	-15	-49.54
2745	5/12/2021	5	4	34.57	Yes	-15	-49.57
2746	5/12/2021	5	5	34.78	Yes	-15	-49.78
2747	5/12/2021	5	6	34.73	Yes	-15	-49.73
2748	5/12/2021	5	7	34.76	Yes	-15	-49.76
2749	5/12/2021	5	8	34.87	Yes	-15	-49.87
2750	5/12/2021	5	9	35.85	Yes	-15	-50.85
2751	5/12/2021	5	10	38.98	Yes	-15	-53.98
2752	5/12/2021	5	11	37.23	Yes	-15	-52.23
2753	5/12/2021	5	12	35.41	Yes	-15	-50.41
2754	5/12/2021	6	1	-14.94	Yes	-15	-0.06
2755	5/12/2021	6	2	-14.94	Yes	-15	-0.06
2756	5/12/2021	6	3	-14.94	Yes	-15	-0.06
2757	5/12/2021	6	4	-14.94	Yes	-15	-0.06
2758	5/12/2021	6	5	-14.94	Yes	-15	-0.06
2759	5/12/2021	6	6	-14.93	Yes	-15	-0.07
2760	5/12/2021	6	7	-14.92	Yes	-15	-0.08
2761	5/12/2021	6	8	-14.92	Yes	-15	-0.08
2762	5/12/2021	6	9	-14.92	Yes	-15	-0.08
2763	5/12/2021	6	10	-14.92	Yes	-15	-0.08
2764	5/12/2021	6	11	-14.92	Yes	-15	-0.08
2765	5/12/2021	6	12	-14.92	Yes	-15	-0.08
2766	5/12/2021	7	1	46.48	Yes	-15	-61.48
2767	5/12/2021	7	2	43.62	Yes	-15	-58.62
2768	5/12/2021	7	3	42.90	Yes	-15	-57.90
2769	5/12/2021	7	4	39.80	Yes	-15	-54.80
2770	5/12/2021	7	5	35.94	Yes	-15	-50.94

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2771	5/12/2021	7	6	35.24	Yes	-15	-50.24
2772	5/12/2021	7	7	33.78	Yes	-15	-48.78
2773	5/12/2021	7	8	33.66	Yes	-15	-48.66
2774	5/12/2021	7	9	33.43	Yes	-15	-48.43
2775	5/12/2021	7	10	32.65	Yes	-15	-47.65
2776	5/12/2021	7	11	31.69	Yes	-15	-46.69
2777	5/12/2021	7	12	31.17	Yes	-15	-46.17
2778	5/12/2021	8	1	32.54	Yes	-15	-47.54
2779	5/12/2021	8	2	31.67	Yes	-15	-46.67
2780	5/12/2021	8	3	31.66	Yes	-15	-46.66
2781	5/12/2021	8	4	31.28	Yes	-15	-46.28
2782	5/12/2021	8	5	31.22	Yes	-15	-46.22
2783	5/12/2021	8	6	30.90	Yes	-15	-45.90
2784	5/12/2021	8	7	31.87	Yes	-15	-46.87
2785	5/12/2021	8	8	30.61	Yes	-15	-45.61
2786	5/12/2021	8	9	31.01	Yes	-15	-46.01
2787	5/12/2021	8	10	30.89	Yes	-15	-45.89
2788	5/12/2021	8	11	30.90	Yes	-15	-45.90
2789	5/12/2021	8	12	30.47	Yes	-15	-45.47
2790	5/12/2021	9	1	32.66	Yes	-15	-47.66
2791	5/12/2021	9	2	32.25	Yes	-15	-47.25
2792	5/12/2021	9	3	32.18	Yes	-15	-47.18
2793	5/12/2021	9	4	31.39	Yes	-15	-46.39
2794	5/12/2021	9	5	31.87	Yes	-15	-46.87
2795	5/12/2021	9	6	33.34	Yes	-15	-48.34
2796	5/12/2021	9	7	29.97	Yes	-15	-44.97
2797	5/12/2021	9	8	31.08	Yes	-15	-46.08
2798	5/12/2021	9	9	30.93	Yes	-15	-45.93
2799	5/12/2021	9	10	30.87	Yes	-15	-45.87
2800	5/12/2021	9	11	30.83	Yes	-15	-45.83
2801	5/12/2021	9	12	30.31	Yes	-15	-45.31
2802	5/12/2021	10	1	32.32	Yes	-15	-47.32
2803	5/12/2021	10	2	32.79	Yes	-15	-47.79
2804	5/12/2021	10	3	31.84	Yes	-15	-46.84
2805	5/12/2021	10	4	32.35	Yes	-15	-47.35
2806	5/12/2021	10	5	32.43	Yes	-15	-47.43
2807	5/12/2021	10	6	32.89	Yes	-15	-47.89
2808	5/12/2021	10	7	31.78	Yes	-15	-46.78

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2809	5/12/2021	10	8	31.78	Yes	-15	-46.78
2810	5/12/2021	10	9	31.78	Yes	-15	-46.78
2811	5/12/2021	10	10	31.53	Yes	-15	-46.53
2812	5/12/2021	10	11	31.16	Yes	-15	-46.16
2813	5/12/2021	10	12	31.54	Yes	-15	-46.54
2814	5/12/2021	13	9	-14.91	Yes	-15	-0.09
2815	5/12/2021	13	10	-14.90	Yes	-15	-0.10
2816	5/12/2021	13	11	38.18	Yes	-15	-53.18
2817	5/12/2021	13	12	40.46	Yes	-15	-55.46
2818	5/12/2021	14	1	34.47	Yes	-15	-49.47
2819	5/12/2021	14	2	34.05	Yes	-15	-49.05
2820	5/12/2021	14	3	34.52	Yes	-15	-49.52
2821	5/12/2021	14	4	34.69	Yes	-15	-49.69
2822	5/12/2021	14	5	35.12	Yes	-15	-50.12
2823	5/12/2021	14	6	36.48	Yes	-15	-51.48
2824	5/12/2021	14	7	40.76	Yes	-15	-55.76
2825	5/12/2021	14	8	40.76	Yes	-15	-55.76
2826	5/12/2021	14	9	39.65	Yes	-15	-54.65
2827	5/12/2021	14	10	38.58	Yes	-15	-53.58
2828	5/12/2021	14	11	42.73	Yes	-15	-57.73
2829	5/12/2021	14	12	47.71	Yes	-15	-62.71
2830	5/12/2021	15	1	37.14	Yes	-15	-52.14
2831	5/12/2021	15	2	37.26	Yes	-15	-52.26
2832	5/12/2021	15	3	37.26	Yes	-15	-52.26
2833	5/12/2021	15	4	39.18	Yes	-15	-54.18
2834	5/12/2021	15	5	41.83	Yes	-15	-56.83
2835	5/12/2021	15	6	41.51	Yes	-15	-56.51
2836	5/12/2021	15	7	39.78	Yes	-15	-54.78
2837	5/12/2021	15	8	38.54	Yes	-15	-53.54
2838	5/12/2021	15	9	41.04	Yes	-15	-56.04
2839	5/12/2021	15	10	42.26	Yes	-15	-57.26
2840	5/12/2021	15	11	40.86	Yes	-15	-55.86
2841	5/12/2021	15	12	40.12	Yes	-15	-55.12
2842	5/12/2021	16	1	34.56	Yes	-15	-49.56
2843	5/12/2021	16	2	33.50	Yes	-15	-48.50
2844	5/12/2021	16	3	34.17	Yes	-15	-49.17
2845	5/12/2021	16	4	34.85	Yes	-15	-49.85
2846	5/12/2021	16	5	38.96	Yes	-15	-53.96

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2847	5/12/2021	16	6	39.09	Yes	-15	-54.09
2848	5/12/2021	16	7	43.70	Yes	-15	-58.70
2849	5/12/2021	16	8	44.31	Yes	-15	-59.31
2850	5/12/2021	16	9	52.12	Yes	-15	-67.12
2851	5/12/2021	16	10	64.81	Yes	-15	-79.81
2852	5/12/2021	16	11	64.85	Yes	-15	-79.85
2853	5/12/2021	16	12	68.94	Yes	-15	-83.94
2854	5/12/2021	17	1	39.72	Yes	-15	-54.72
2855	5/12/2021	17	2	35.63	Yes	-15	-50.63
2856	5/12/2021	17	3	37.08	Yes	-15	-52.08
2857	5/12/2021	17	4	37.23	Yes	-15	-52.23
2858	5/12/2021	17	5	40.58	Yes	-15	-55.58
2859	5/12/2021	17	6	39.97	Yes	-15	-54.97
2860	5/12/2021	17	7	35.20	Yes	-15	-50.20
2861	5/12/2021	17	8	37.81	Yes	-15	-52.81
2862	5/12/2021	17	9	37.56	Yes	-15	-52.56
2863	5/12/2021	17	10	44.06	Yes	-15	-59.06
2864	5/12/2021	17	11	49.82	Yes	-15	-64.82
2865	5/12/2021	17	12	52.96	Yes	-15	-67.96
2866	5/12/2021	18	1	44.12	Yes	-15	-59.12
2867	5/12/2021	18	2	41.62	Yes	-15	-56.62
2868	5/12/2021	18	3	38.31	Yes	-15	-53.31
2869	5/12/2021	18	4	36.05	Yes	-15	-51.05
2870	5/12/2021	18	5	35.64	Yes	-15	-50.64
2871	5/12/2021	18	6	44.70	Yes	-15	-59.70
2872	5/12/2021	18	7	39.58	Yes	-15	-54.58
2873	5/12/2021	18	8	40.81	Yes	-15	-55.81
2874	5/12/2021	18	9	42.84	Yes	-15	-57.84
2875	5/12/2021	18	10	45.08	Yes	-15	-60.08
2876	5/12/2021	18	11	44.14	Yes	-15	-59.14
2877	5/12/2021	18	12	45.23	Yes	-15	-60.23
2878	5/12/2021	19	1	35.31	Yes	-15	-50.31
2879	5/12/2021	19	2	35.25	Yes	-15	-50.25
2880	5/12/2021	19	3	34.87	Yes	-15	-49.87
2881	5/12/2021	19	4	40.61	Yes	-15	-55.61
2882	5/12/2021	19	5	38.17	Yes	-15	-53.17
2883	5/12/2021	19	6	42.71	Yes	-15	-57.71
2884	5/12/2021	19	7	39.03	Yes	-15	-54.03

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2885	5/12/2021	19	8	43.45	Yes	-15	-58.45
2886	5/12/2021	19	9	44.35	Yes	-15	-59.35
2887	5/12/2021	19	10	49.65	Yes	-15	-64.65
2888	5/12/2021	19	11	61.09	Yes	-15	-76.09
2889	5/12/2021	19	12	61.09	Yes	-15	-76.09
2890	5/12/2021	20	1	45.23	Yes	-15	-60.23
2891	5/12/2021	20	2	45.19	Yes	-15	-60.19
2892	5/12/2021	20	3	48.00	Yes	-15	-63.00
2893	5/12/2021	20	4	45.47	Yes	-15	-60.47
2894	5/12/2021	20	5	51.17	Yes	-15	-66.17
2895	5/12/2021	20	6	56.88	Yes	-15	-71.88
2896	5/12/2021	20	7	56.12	Yes	-15	-71.12
2897	5/12/2021	20	8	56.12	Yes	-15	-71.12
2898	5/12/2021	20	9	56.12	Yes	-15	-71.12
2899	5/12/2021	20	10	53.05	Yes	-15	-68.05
2900	5/12/2021	20	11	51.77	Yes	-15	-66.77
2901	5/12/2021	20	12	50.39	Yes	-15	-65.39
2902	5/12/2021	21	1	49.05	Yes	-15	-64.05
2903	5/12/2021	21	2	46.60	Yes	-15	-61.60
2904	5/12/2021	21	3	46.78	Yes	-15	-61.78
2905	5/12/2021	21	4	48.68	Yes	-15	-63.68
2906	5/12/2021	21	5	46.65	Yes	-15	-61.65
2907	5/12/2021	21	6	46.11	Yes	-15	-61.11
2908	5/12/2021	21	7	46.52	Yes	-15	-61.52
2909	5/12/2021	21	8	45.41	Yes	-15	-60.41
2910	5/12/2021	21	9	44.30	Yes	-15	-59.30
2911	5/12/2021	21	10	43.64	Yes	-15	-58.64
2912	5/12/2021	21	11	43.64	Yes	-15	-58.64
2913	5/12/2021	21	12	43.70	Yes	-15	-58.70
2914	5/12/2021	22	1	49.67	Yes	1	-48.67
2915	5/12/2021	22	2	45.99	Yes	1	-44.99
2916	5/12/2021	22	3	45.25	Yes	1	-44.25
2917	5/12/2021	22	4	50.44	Yes	1	-49.44
2918	5/12/2021	22	5	47.77	Yes	1	-46.77
2919	5/12/2021	22	6	47.23	Yes	1	-46.23
2920	5/12/2021	22	7	46.52	Yes	1	-45.52
2921	5/12/2021	22	8	43.83	Yes	1	-42.83
2922	5/12/2021	22	9	42.72	Yes	1	-41.72

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2923	5/12/2021	22	10	39.72	Yes	1	-38.72
2924	5/12/2021	22	11	38.91	Yes	1	-37.91
2925	5/12/2021	22	12	38.58	Yes	1	-37.58
2926	5/12/2021	23	1	-14.87	Yes	-15	-0.13
2927	5/12/2021	23	2	42.13	Yes	-15	-57.13
2928	5/12/2021	23	3	42.07	Yes	-15	-57.07
2929	5/12/2021	23	4	41.80	Yes	-15	-56.80
2930	5/12/2021	23	5	40.26	Yes	-15	-55.26
2931	5/12/2021	23	6	38.45	Yes	-15	-53.45
2932	5/12/2021	23	7	38.80	Yes	-15	-53.80
2933	5/12/2021	23	8	37.98	Yes	-15	-52.98
2934	5/12/2021	23	9	36.62	Yes	-15	-51.62
2935	5/12/2021	23	10	36.01	Yes	-15	-51.01
2936	5/12/2021	23	11	34.75	Yes	-15	-49.75
2937	5/12/2021	23	12	34.64	Yes	-15	-49.64
2938	5/12/2021	24	1	38.04	Yes	-15	-53.04
2939	5/12/2021	24	2	38.08	Yes	-15	-53.08
2940	5/12/2021	24	3	37.38	Yes	-15	-52.38
2941	5/12/2021	24	4	36.90	Yes	-15	-51.90
2942	5/12/2021	24	5	35.91	Yes	-15	-50.91
2943	5/12/2021	24	6	34.65	Yes	-15	-49.65
2944	5/12/2021	24	7	36.91	Yes	-15	-51.91
2945	5/12/2021	24	8	36.57	Yes	-15	-51.57
2946	5/12/2021	24	9	35.96	Yes	-15	-50.96
2947	5/12/2021	24	10	34.16	Yes	-15	-49.16
2948	5/12/2021	24	11	34.17	Yes	-15	-49.17
2949	5/12/2021	24	12	34.17	Yes	-15	-49.17
2950	5/13/2021	1	1	33.73	Yes	1	-32.73
2951	5/13/2021	1	2	34.78	Yes	1	-33.78
2952	5/13/2021	1	3	34.78	Yes	1	-33.78
2953	5/13/2021	1	4	33.69	Yes	1	-32.69
2954	5/13/2021	1	5	33.63	Yes	1	-32.63
2955	5/13/2021	1	6	33.53	Yes	1	-32.53
2956	5/13/2021	1	7	33.03	Yes	1	-32.03
2957	5/13/2021	1	8	33.49	Yes	1	-32.49
2958	5/13/2021	1	9	33.47	Yes	1	-32.47
2959	5/13/2021	1	10	33.21	Yes	1	-32.21
2960	5/13/2021	1	11	33.05	Yes	1	-32.05

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2961	5/13/2021	1	12	32.78	Yes	1	-31.78
2962	5/13/2021	2	1	35.24	Yes	1	-34.24
2963	5/13/2021	2	2	35.22	Yes	1	-34.22
2964	5/13/2021	2	3	35.22	Yes	1	-34.22
2965	5/13/2021	2	4	35.02	Yes	1	-34.02
2966	5/13/2021	2	5	33.01	Yes	1	-32.01
2967	5/13/2021	2	6	32.78	Yes	1	-31.78
2968	5/13/2021	2	7	32.51	Yes	1	-31.51
2969	5/13/2021	2	8	32.54	Yes	1	-31.54
2970	5/13/2021	2	9	32.60	Yes	1	-31.60
2971	5/13/2021	2	10	31.91	Yes	1	-30.91
2972	5/13/2021	2	11	31.91	Yes	1	-30.91
2973	5/13/2021	2	12	31.35	Yes	1	-30.35
2974	5/13/2021	3	1	32.69	Yes	1	-31.69
2975	5/13/2021	3	2	32.18	Yes	1	-31.18
2976	5/13/2021	3	3	32.49	Yes	1	-31.49
2977	5/13/2021	3	4	32.35	Yes	1	-31.35
2978	5/13/2021	3	5	32.35	Yes	1	-31.35
2979	5/13/2021	3	6	32.75	Yes	1	-31.75
2980	5/13/2021	3	7	32.36	Yes	1	-31.36
2981	5/13/2021	3	8	32.55	Yes	1	-31.55
2982	5/13/2021	3	9	32.44	Yes	1	-31.44
2983	5/13/2021	3	10	32.19	Yes	1	-31.19
2984	5/13/2021	3	11	31.39	Yes	1	-30.39
2985	5/13/2021	3	12	30.61	Yes	1	-29.61
2986	5/13/2021	4	1	31.69	Yes	1	-30.69
2987	5/13/2021	4	2	31.67	Yes	1	-30.67
2988	5/13/2021	4	3	31.71	Yes	1	-30.71
2989	5/13/2021	4	4	32.92	Yes	1	-31.92
2990	5/13/2021	4	5	32.78	Yes	1	-31.78
2991	5/13/2021	4	6	32.78	Yes	1	-31.78
2992	5/13/2021	4	7	32.71	Yes	1	-31.71
2993	5/13/2021	4	8	32.24	Yes	1	-31.24
2994	5/13/2021	4	9	32.66	Yes	1	-31.66
2995	5/13/2021	4	10	32.72	Yes	1	-31.72
2996	5/13/2021	4	11	32.65	Yes	1	-31.65
2997	5/13/2021	4	12	32.75	Yes	1	-31.75
2998	5/13/2021	5	1	31.62	Yes	1	-30.62

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2999	5/13/2021	5	2	32.22	Yes	1	-31.22
3000	5/13/2021	5	3	32.54	Yes	1	-31.54
3001	5/13/2021	5	4	32.55	Yes	1	-31.55
3002	5/13/2021	5	5	32.55	Yes	1	-31.55
3003	5/13/2021	5	6	32.95	Yes	1	-31.95
3004	5/13/2021	5	7	33.08	Yes	1	-32.08
3005	5/13/2021	5	8	33.19	Yes	1	-32.19
3006	5/13/2021	5	9	33.30	Yes	1	-32.30
3007	5/13/2021	5	10	33.57	Yes	1	-32.57
3008	5/13/2021	5	11	34.81	Yes	1	-33.81
3009	5/13/2021	5	12	35.39	Yes	1	-34.39
3010	5/13/2021	6	1	1.06	Yes	1	-0.06
3011	5/13/2021	6	2	1.06	Yes	1	-0.06
3012	5/13/2021	6	3	1.06	Yes	1	-0.06
3013	5/13/2021	6	4	1.07	Yes	1	-0.07
3014	5/13/2021	6	5	1.08	Yes	1	-0.08
3015	5/13/2021	6	6	1.08	Yes	1	-0.08
3016	5/13/2021	6	7	1.09	Yes	1	-0.09
3017	5/13/2021	6	8	1.09	Yes	1	-0.09
3018	5/13/2021	6	9	1.09	Yes	1	-0.09
3019	5/13/2021	6	10	1.09	Yes	1	-0.09
3020	5/13/2021	6	11	1.08	Yes	1	-0.08
3021	5/13/2021	6	12	1.08	Yes	1	-0.08
3022	5/13/2021	7	1	42.64	Yes	1	-41.64
3023	5/13/2021	7	2	39.68	Yes	1	-38.68
3024	5/13/2021	7	3	39.35	Yes	1	-38.35
3025	5/13/2021	7	4	38.78	Yes	1	-37.78
3026	5/13/2021	7	5	36.20	Yes	1	-35.20
3027	5/13/2021	7	6	33.96	Yes	1	-32.96
3028	5/13/2021	7	7	33.96	Yes	1	-32.96
3029	5/13/2021	7	8	33.88	Yes	1	-32.88
3030	5/13/2021	7	9	33.49	Yes	1	-32.49
3031	5/13/2021	7	10	32.88	Yes	1	-31.88
3032	5/13/2021	7	11	32.61	Yes	1	-31.61
3033	5/13/2021	7	12	32.06	Yes	1	-31.06
3034	5/13/2021	8	1	33.85	Yes	-15	-48.85
3035	5/13/2021	8	2	33.52	Yes	-15	-48.52
3036	5/13/2021	8	3	32.09	Yes	-15	-47.09

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3037	5/13/2021	8	4	30.97	Yes	-15	-45.97
3038	5/13/2021	8	5	31.41	Yes	-15	-46.41
3039	5/13/2021	8	6	31.72	Yes	-15	-46.72
3040	5/13/2021	8	7	35.32	Yes	-15	-50.32
3041	5/13/2021	8	8	33.91	Yes	-15	-48.91
3042	5/13/2021	8	9	32.20	Yes	-15	-47.20
3043	5/13/2021	8	10	32.81	Yes	-15	-47.81
3044	5/13/2021	8	11	32.54	Yes	-15	-47.54
3045	5/13/2021	8	12	32.28	Yes	-15	-47.28
3046	5/13/2021	9	1	30.54	Yes	-15	-45.54
3047	5/13/2021	9	2	31.84	Yes	-15	-46.84
3048	5/13/2021	9	3	34.42	Yes	-15	-49.42
3049	5/13/2021	9	4	33.25	Yes	-15	-48.25
3050	5/13/2021	9	5	35.75	Yes	-15	-50.75
3051	5/13/2021	9	6	37.25	Yes	-15	-52.25
3052	5/13/2021	9	7	34.27	Yes	-15	-49.27
3053	5/13/2021	9	8	34.25	Yes	-15	-49.25
3054	5/13/2021	9	9	34.24	Yes	-15	-49.24
3055	5/13/2021	9	10	32.98	Yes	-15	-47.98
3056	5/13/2021	9	11	33.62	Yes	-15	-48.62
3057	5/13/2021	9	12	33.49	Yes	-15	-48.49
3058	5/13/2021	10	1	49.70	Yes	-15	-64.70
3059	5/13/2021	10	2	42.44	Yes	-15	-57.44
3060	5/13/2021	10	3	44.64	Yes	-15	-59.64
3061	5/13/2021	10	4	39.21	Yes	-15	-54.21
3062	5/13/2021	10	5	43.02	Yes	-15	-58.02
3063	5/13/2021	10	6	41.51	Yes	-15	-56.51
3064	5/13/2021	10	7	38.10	Yes	-15	-53.10
3065	5/13/2021	10	8	39.09	Yes	-15	-54.09
3066	5/13/2021	10	9	39.05	Yes	-15	-54.05
3067	5/13/2021	10	10	34.46	Yes	-15	-49.46
3068	5/13/2021	10	11	33.83	Yes	-15	-48.83
3069	5/13/2021	10	12	33.83	Yes	-15	-48.83
3070	5/13/2021	11	1	35.15	Yes	-15	-50.15
3071	5/13/2021	11	2	35.17	Yes	-15	-50.17
3072	5/13/2021	11	3	35.14	Yes	-15	-50.14
3073	5/13/2021	11	4	34.92	Yes	-15	-49.92
3074	5/13/2021	11	5	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	5/13/2021	11	6	34.19	Yes	-15	-49.19
3076	5/13/2021	11	7	33.43	Yes	-15	-48.43
3077	5/13/2021	11	8	32.07	Yes	-15	-47.07
3078	5/13/2021	11	9	33.42	Yes	-15	-48.42
3079	5/13/2021	11	10	33.37	Yes	-15	-48.37
3080	5/13/2021	11	11	34.52	Yes	-15	-49.52
3081	5/13/2021	11	12	34.49	Yes	-15	-49.49
3082	5/13/2021	12	1	42.51	Yes	-15	-57.51
3083	5/13/2021	12	2	38.40	Yes	-15	-53.40
3084	5/13/2021	12	3	38.40	Yes	-15	-53.40
3085	5/13/2021	12	4	33.46	Yes	-15	-48.46
3086	5/13/2021	12	5	33.46	Yes	-15	-48.46
3087	5/13/2021	12	6	33.30	Yes	-15	-48.30
3088	5/13/2021	12	7	33.79	Yes	-15	-48.79
3089	5/13/2021	12	8	33.79	Yes	-15	-48.79
3090	5/13/2021	12	9	34.80	Yes	-15	-49.80
3091	5/13/2021	12	10	36.57	Yes	-15	-51.57
3092	5/13/2021	12	11	33.81	Yes	-15	-48.81
3093	5/13/2021	12	12	33.81	Yes	-15	-48.81
3094	5/13/2021	13	1	34.17	Yes	-15	-49.17
3095	5/13/2021	13	2	34.18	Yes	-15	-49.18
3096	5/13/2021	13	3	34.05	Yes	-15	-49.05
3097	5/13/2021	13	4	34.21	Yes	-15	-49.21
3098	5/13/2021	13	5	35.17	Yes	-15	-50.17
3099	5/13/2021	13	6	36.50	Yes	-15	-51.50
3100	5/13/2021	13	7	34.24	Yes	-15	-49.24
3101	5/13/2021	13	8	37.19	Yes	-15	-52.19
3102	5/13/2021	13	9	37.19	Yes	-15	-52.19
3103	5/13/2021	13	10	35.49	Yes	-15	-50.49
3104	5/13/2021	13	11	38.60	Yes	-15	-53.60
3105	5/13/2021	13	12	40.34	Yes	-15	-55.34
3106	5/13/2021	14	1	36.33	Yes	-15	-51.33
3107	5/13/2021	14	2	36.33	Yes	-15	-51.33
3108	5/13/2021	14	3	35.48	Yes	-15	-50.48
3109	5/13/2021	14	4	34.40	Yes	-15	-49.40
3110	5/13/2021	14	5	36.04	Yes	-15	-51.04
3111	5/13/2021	14	6	35.47	Yes	-15	-50.47
3112	5/13/2021	14	7	36.23	Yes	-15	-51.23

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
3113	5/13/2021	14	8	35.31	Yes	-15	-50.31
3114	5/13/2021	14	9	35.77	Yes	-15	-50.77
3115	5/13/2021	14	10	35.96	Yes	-15	-50.96
3116	5/13/2021	14	11	37.40	Yes	-15	-52.40
3117	5/13/2021	14	12	37.80	Yes	-15	-52.80
3118	5/13/2021	15	1	33.90	Yes	-15	-48.90
3119	5/13/2021	15	2	31.59	Yes	-15	-46.59
3120	5/13/2021	15	3	33.18	Yes	-15	-48.18
3121	5/13/2021	15	4	33.48	Yes	-15	-48.48
3122	5/13/2021	15	5	33.73	Yes	-15	-48.73
3123	5/13/2021	15	6	34.26	Yes	-15	-49.26
3124	5/13/2021	15	7	33.93	Yes	-15	-48.93
3125	5/13/2021	15	8	33.87	Yes	-15	-48.87
3126	5/13/2021	15	9	33.39	Yes	-15	-48.39
3127	5/13/2021	15	10	34.18	Yes	-15	-49.18
3128	5/13/2021	15	11	33.88	Yes	-15	-48.88
3129	5/13/2021	15	12	33.34	Yes	-15	-48.34
3130	5/13/2021	16	1	29.89	Yes	-15	-44.89
3131	5/13/2021	16	2	31.52	Yes	-15	-46.52
3132	5/13/2021	16	3	31.74	Yes	-15	-46.74
3133	5/13/2021	16	4	28.51	Yes	-15	-43.51
3134	5/13/2021	16	5	28.51	Yes	-15	-43.51
3135	5/13/2021	16	6	29.18	Yes	-15	-44.18
3136	5/13/2021	16	7	32.49	Yes	-15	-47.49
3137	5/13/2021	16	8	32.46	Yes	-15	-47.46
3138	5/13/2021	16	9	32.52	Yes	-15	-47.52
3139	5/13/2021	16	10	32.62	Yes	-15	-47.62
3140	5/13/2021	16	11	32.68	Yes	-15	-47.68
3141	5/13/2021	16	12	32.77	Yes	-15	-47.77
3142	5/13/2021	17	1	31.68	Yes	-15	-46.68
3143	5/13/2021	17	2	29.75	Yes	-15	-44.75
3144	5/13/2021	17	3	29.34	Yes	-15	-44.34
3145	5/13/2021	17	4	28.34	Yes	-15	-43.34
3146	5/13/2021	17	5	29.84	Yes	-15	-44.84
3147	5/13/2021	17	6	32.67	Yes	-15	-47.67
3148	5/13/2021	17	7	33.11	Yes	-15	-48.11
3149	5/13/2021	17	8	34.17	Yes	-15	-49.17
3150	5/13/2021	17	9	34.24	Yes	-15	-49.24

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3151	5/13/2021	17	10	32.85	Yes	-15	-47.85
3152	5/13/2021	17	11	33.01	Yes	-15	-48.01
3153	5/13/2021	17	12	35.11	Yes	-15	-50.11
3154	5/13/2021	18	1	34.37	Yes	-15	-49.37
3155	5/13/2021	18	2	32.38	Yes	-15	-47.38
3156	5/13/2021	18	3	32.62	Yes	-15	-47.62
3157	5/13/2021	18	4	31.12	Yes	-15	-46.12
3158	5/13/2021	18	5	30.37	Yes	-15	-45.37
3159	5/13/2021	18	6	32.86	Yes	-15	-47.86
3160	5/13/2021	18	7	33.30	Yes	-15	-48.30
3161	5/13/2021	18	8	34.66	Yes	-15	-49.66
3162	5/13/2021	18	9	34.34	Yes	-15	-49.34
3163	5/13/2021	18	10	39.09	Yes	-15	-54.09
3164	5/13/2021	18	11	42.54	Yes	-15	-57.54
3165	5/13/2021	18	12	42.54	Yes	-15	-57.54
3166	5/13/2021	19	1	34.35	Yes	1	-33.35
3167	5/13/2021	19	2	32.60	Yes	1	-31.60
3168	5/13/2021	19	3	33.79	Yes	1	-32.79
3169	5/13/2021	19	4	35.43	Yes	1	-34.43
3170	5/13/2021	19	5	38.76	Yes	1	-37.76
3171	5/13/2021	19	6	45.57	Yes	1	-44.57
3172	5/13/2021	19	7	43.29	Yes	1	-42.29
3173	5/13/2021	19	8	52.56	Yes	1	-51.56
3174	5/13/2021	19	9	52.56	Yes	1	-51.56
3175	5/13/2021	19	10	53.50	Yes	1	-52.50
3176	5/13/2021	19	11	57.79	Yes	1	-56.79
3177	5/13/2021	19	12	55.40	Yes	1	-54.40
3178	5/13/2021	20	1	43.90	Yes	1	-42.90
3179	5/13/2021	20	2	41.99	Yes	1	-40.99
3180	5/13/2021	20	3	43.58	Yes	1	-42.58
3181	5/13/2021	20	4	45.36	Yes	1	-44.36
3182	5/13/2021	20	5	50.05	Yes	1	-49.05
3183	5/13/2021	20	6	50.05	Yes	1	-49.05
3184	5/13/2021	20	7	49.25	Yes	1	-48.25
3185	5/13/2021	20	8	48.59	Yes	1	-47.59
3186	5/13/2021	20	9	47.93	Yes	1	-46.93
3187	5/13/2021	20	10	50.28	Yes	1	-49.28
3188	5/13/2021	20	11	51.91	Yes	1	-50.91

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3189	5/13/2021	20	12	53.35	Yes	1	-52.35
3190	5/13/2021	21	1	51.86	Yes	1	-50.86
3191	5/13/2021	21	2	48.02	Yes	1	-47.02
3192	5/13/2021	21	3	48.97	Yes	1	-47.97
3193	5/13/2021	21	4	51.40	Yes	1	-50.40
3194	5/13/2021	21	5	49.50	Yes	1	-48.50
3195	5/13/2021	21	6	49.36	Yes	1	-48.36
3196	5/13/2021	21	7	48.13	Yes	1	-47.13
3197	5/13/2021	21	8	46.87	Yes	1	-45.87
3198	5/13/2021	21	9	47.13	Yes	1	-46.13
3199	5/13/2021	21	10	45.52	Yes	1	-44.52
3200	5/13/2021	21	11	45.41	Yes	1	-44.41
3201	5/13/2021	21	12	46.87	Yes	1	-45.87
3202	5/13/2021	22	1	50.10	Yes	-15	-65.10
3203	5/13/2021	22	2	50.79	Yes	-15	-65.79
3204	5/13/2021	22	3	49.52	Yes	-15	-64.52
3205	5/13/2021	22	4	45.98	Yes	-15	-60.98
3206	5/13/2021	22	5	45.51	Yes	-15	-60.51
3207	5/13/2021	22	6	43.34	Yes	-15	-58.34
3208	5/13/2021	22	7	45.69	Yes	-15	-60.69
3209	5/13/2021	22	8	44.37	Yes	-15	-59.37
3210	5/13/2021	22	9	42.55	Yes	-15	-57.55
3211	5/13/2021	22	10	41.84	Yes	-15	-56.84
3212	5/13/2021	22	11	41.11	Yes	-15	-56.11
3213	5/13/2021	22	12	39.84	Yes	-15	-54.84
3214	5/13/2021	23	1	43.57	Yes	-15	-58.57
3215	5/13/2021	23	2	42.92	Yes	-15	-57.92
3216	5/13/2021	23	3	41.72	Yes	-15	-56.72
3217	5/13/2021	23	4	41.70	Yes	-15	-56.70
3218	5/13/2021	23	5	40.26	Yes	-15	-55.26
3219	5/13/2021	23	6	39.54	Yes	-15	-54.54
3220	5/13/2021	23	7	42.87	Yes	-15	-57.87
3221	5/13/2021	23	8	39.96	Yes	-15	-54.96
3222	5/13/2021	23	9	36.20	Yes	-15	-51.20
3223	5/13/2021	23	10	34.84	Yes	-15	-49.84
3224	5/13/2021	23	11	34.70	Yes	-15	-49.70
3225	5/13/2021	23	12	35.13	Yes	-15	-50.13
3226	5/13/2021	24	1	43.66	Yes	1	-42.66

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3227	5/13/2021	24	2	43.66	Yes	1	-42.66
3228	5/13/2021	24	3	43.66	Yes	1	-42.66
3229	5/13/2021	24	4	42.00	Yes	1	-41.00
3230	5/13/2021	24	5	39.60	Yes	1	-38.60
3231	5/13/2021	24	6	36.29	Yes	1	-35.29
3232	5/13/2021	24	7	39.78	Yes	1	-38.78
3233	5/13/2021	24	8	36.20	Yes	1	-35.20
3234	5/13/2021	24	9	35.83	Yes	1	-34.83
3235	5/13/2021	24	10	32.33	Yes	1	-31.33
3236	5/13/2021	24	11	32.21	Yes	1	-31.21
3237	5/13/2021	24	12	32.21	Yes	1	-31.21
3238	5/14/2021	1	1	32.95	Yes	1	-31.95
3239	5/14/2021	1	2	33.17	Yes	1	-32.17
3240	5/14/2021	1	3	33.17	Yes	1	-32.17
3241	5/14/2021	1	4	32.30	Yes	1	-31.30
3242	5/14/2021	1	5	32.44	Yes	1	-31.44
3243	5/14/2021	1	6	32.18	Yes	1	-31.18
3244	5/14/2021	1	7	32.10	Yes	1	-31.10
3245	5/14/2021	1	8	31.26	Yes	1	-30.26
3246	5/14/2021	1	9	30.95	Yes	1	-29.95
3247	5/14/2021	1	10	30.75	Yes	1	-29.75
3248	5/14/2021	1	11	30.72	Yes	1	-29.72
3249	5/14/2021	1	12	29.51	Yes	1	-28.51
3250	5/14/2021	2	1	32.41	Yes	1	-31.41
3251	5/14/2021	2	2	32.35	Yes	1	-31.35
3252	5/14/2021	2	3	32.35	Yes	1	-31.35
3253	5/14/2021	2	4	32.32	Yes	1	-31.32
3254	5/14/2021	2	5	31.63	Yes	1	-30.63
3255	5/14/2021	2	6	31.47	Yes	1	-30.47
3256	5/14/2021	2	7	31.31	Yes	1	-30.31
3257	5/14/2021	2	8	31.28	Yes	1	-30.28
3258	5/14/2021	2	9	31.19	Yes	1	-30.19
3259	5/14/2021	2	10	31.10	Yes	1	-30.10
3260	5/14/2021	2	11	30.87	Yes	1	-29.87
3261	5/14/2021	2	12	30.78	Yes	1	-29.78
3262	5/14/2021	3	1	31.62	Yes	1	-30.62
3263	5/14/2021	3	2	31.30	Yes	1	-30.30
3264	5/14/2021	3	3	31.47	Yes	1	-30.47

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3265	5/14/2021	3	4	31.41	Yes	1	-30.41
3266	5/14/2021	3	5	31.26	Yes	1	-30.26
3267	5/14/2021	3	6	31.26	Yes	1	-30.26
3268	5/14/2021	3	7	31.19	Yes	1	-30.19
3269	5/14/2021	3	8	31.11	Yes	1	-30.11
3270	5/14/2021	3	9	31.89	Yes	1	-30.89
3271	5/14/2021	3	10	31.43	Yes	1	-30.43
3272	5/14/2021	3	11	31.10	Yes	1	-30.10
3273	5/14/2021	3	12	31.02	Yes	1	-30.02
3274	5/14/2021	4	1	31.47	Yes	1	-30.47
3275	5/14/2021	4	2	31.04	Yes	1	-30.04
3276	5/14/2021	4	3	31.25	Yes	1	-30.25
3277	5/14/2021	4	4	31.15	Yes	1	-30.15
3278	5/14/2021	4	5	30.99	Yes	1	-29.99
3279	5/14/2021	4	6	31.15	Yes	1	-30.15
3280	5/14/2021	4	7	31.41	Yes	1	-30.41
3281	5/14/2021	4	8	31.31	Yes	1	-30.31
3282	5/14/2021	4	9	31.15	Yes	1	-30.15
3283	5/14/2021	4	10	31.86	Yes	1	-30.86
3284	5/14/2021	4	11	31.60	Yes	1	-30.60
3285	5/14/2021	4	12	31.70	Yes	1	-30.70
3286	5/14/2021	5	1	33.07	Yes	1	-32.07
3287	5/14/2021	5	2	33.09	Yes	1	-32.09
3288	5/14/2021	5	3	33.17	Yes	1	-32.17
3289	5/14/2021	5	4	33.29	Yes	1	-32.29
3290	5/14/2021	5	5	33.29	Yes	1	-32.29
3291	5/14/2021	5	6	33.53	Yes	1	-32.53
3292	5/14/2021	5	7	33.44	Yes	1	-32.44
3293	5/14/2021	5	8	34.41	Yes	1	-33.41
3294	5/14/2021	5	9	34.79	Yes	1	-33.79
3295	5/14/2021	5	10	33.46	Yes	1	-32.46
3296	5/14/2021	5	11	33.94	Yes	1	-32.94
3297	5/14/2021	5	12	34.47	Yes	1	-33.47
3298	5/14/2021	6	1	1.05	Yes	1	-0.05
3299	5/14/2021	6	2	1.05	Yes	1	-0.05
3300	5/14/2021	6	3	1.05	Yes	1	-0.05
3301	5/14/2021	6	4	1.05	Yes	1	-0.05
3302	5/14/2021	6	5	1.06	Yes	1	-0.06

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3303	5/14/2021	6	6	1.06	Yes	1	-0.06
3304	5/14/2021	6	7	34.40	Yes	1	-33.40
3305	5/14/2021	6	8	37.33	Yes	1	-36.33
3306	5/14/2021	6	9	35.83	Yes	1	-34.83
3307	5/14/2021	6	10	37.50	Yes	1	-36.50
3308	5/14/2021	6	11	38.82	Yes	1	-37.82
3309	5/14/2021	6	12	38.65	Yes	1	-37.65
3310	5/14/2021	7	1	41.60	Yes	-15	-56.60
3311	5/14/2021	7	2	39.78	Yes	-15	-54.78
3312	5/14/2021	7	3	38.64	Yes	-15	-53.64
3313	5/14/2021	7	4	34.03	Yes	-15	-49.03
3314	5/14/2021	7	5	33.83	Yes	-15	-48.83
3315	5/14/2021	7	6	33.97	Yes	-15	-48.97
3316	5/14/2021	7	7	35.33	Yes	-15	-50.33
3317	5/14/2021	7	8	34.53	Yes	-15	-49.53
3318	5/14/2021	7	9	33.68	Yes	-15	-48.68
3319	5/14/2021	7	10	33.41	Yes	-15	-48.41
3320	5/14/2021	7	11	32.15	Yes	-15	-47.15
3321	5/14/2021	7	12	34.65	Yes	-15	-49.65
3322	5/14/2021	8	1	33.42	Yes	-15	-48.42
3323	5/14/2021	8	2	34.86	Yes	-15	-49.86
3324	5/14/2021	8	3	36.08	Yes	-15	-51.08
3325	5/14/2021	8	4	50.97	Yes	-15	-65.97
3326	5/14/2021	8	5	63.89	Yes	-15	-78.89
3327	5/14/2021	8	6	51.08	Yes	-15	-66.08
3328	5/14/2021	8	7	29.25	Yes	-15	-44.25
3329	5/14/2021	8	8	27.60	Yes	-15	-42.60
3330	5/14/2021	8	9	30.75	Yes	-15	-45.75
3331	5/14/2021	8	10	39.39	Yes	-15	-54.39
3332	5/14/2021	8	11	34.06	Yes	-15	-49.06
3333	5/14/2021	8	12	33.81	Yes	-15	-48.81
3334	5/14/2021	9	1	37.88	Yes	-15	-52.88
3335	5/14/2021	9	2	34.84	Yes	-15	-49.84
3336	5/14/2021	9	3	39.93	Yes	-15	-54.93
3337	5/14/2021	9	4	39.26	Yes	-15	-54.26
3338	5/14/2021	9	5	39.89	Yes	-15	-54.89
3339	5/14/2021	9	6	43.10	Yes	-15	-58.10
3340	5/14/2021	9	7	33.56	Yes	-15	-48.56

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3341	5/14/2021	9	8	33.59	Yes	-15	-48.59
3342	5/14/2021	9	9	34.41	Yes	-15	-49.41
3343	5/14/2021	9	10	28.37	Yes	-15	-43.37
3344	5/14/2021	9	11	29.52	Yes	-15	-44.52
3345	5/14/2021	9	12	30.85	Yes	-15	-45.85
3346	5/14/2021	10	1	26.33	Yes	-15	-41.33
3347	5/14/2021	10	2	29.95	Yes	-15	-44.95
3348	5/14/2021	10	3	27.38	Yes	-15	-42.38
3349	5/14/2021	10	4	28.83	Yes	-15	-43.83
3350	5/14/2021	10	5	28.43	Yes	-15	-43.43
3351	5/14/2021	10	6	28.23	Yes	-15	-43.23
3352	5/14/2021	10	7	31.34	Yes	-15	-46.34
3353	5/14/2021	10	8	30.43	Yes	-15	-45.43
3354	5/14/2021	10	9	31.35	Yes	-15	-46.35
3355	5/14/2021	10	10	31.21	Yes	-15	-46.21
3356	5/14/2021	10	11	31.18	Yes	-15	-46.18
3357	5/14/2021	10	12	31.08	Yes	-15	-46.08
3358	5/14/2021	11	1	31.32	Yes	-15	-46.32
3359	5/14/2021	11	2	31.32	Yes	-15	-46.32
3360	5/14/2021	11	3	29.06	Yes	-15	-44.06
3361	5/14/2021	11	4	27.23	Yes	-15	-42.23
3362	5/14/2021	11	5	26.74	Yes	-15	-41.74
3363	5/14/2021	11	6	27.17	Yes	-15	-42.17
3364	5/14/2021	11	7	30.19	Yes	-15	-45.19
3365	5/14/2021	11	8	37.43	Yes	-15	-52.43
3366	5/14/2021	11	9	31.53	Yes	-15	-46.53
3367	5/14/2021	11	10	33.92	Yes	-15	-48.92
3368	5/14/2021	11	11	32.95	Yes	-15	-47.95
3369	5/14/2021	11	12	32.90	Yes	-15	-47.90
3370	5/14/2021	12	1	30.52	Yes	-15	-45.52
3371	5/14/2021	12	2	31.43	Yes	-15	-46.43
3372	5/14/2021	12	3	31.14	Yes	-15	-46.14
3373	5/14/2021	12	4	29.36	Yes	-15	-44.36
3374	5/14/2021	12	5	30.07	Yes	-15	-45.07
3375	5/14/2021	12	6	31.44	Yes	-15	-46.44
3376	5/14/2021	12	7	30.08	Yes	-15	-45.08
3377	5/14/2021	12	8	30.96	Yes	-15	-45.96
3378	5/14/2021	12	9	31.36	Yes	-15	-46.36

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
3379	5/14/2021	12	10	31.39	Yes	-15	-46.39
3380	5/14/2021	12	11	31.39	Yes	-15	-46.39
3381	5/14/2021	12	12	32.74	Yes	-15	-47.74
3382	5/14/2021	13	1	24.64	Yes	-15	-39.64
3383	5/14/2021	13	2	24.56	Yes	-15	-39.56
3384	5/14/2021	13	3	24.47	Yes	-15	-39.47
3385	5/14/2021	13	4	60.68	Yes	-15	-75.68
3386	5/14/2021	13	5	49.06	Yes	-15	-64.06
3387	5/14/2021	13	6	51.23	Yes	-15	-66.23
3388	5/14/2021	13	7	26.78	Yes	-15	-41.78
3389	5/14/2021	13	8	25.67	Yes	-15	-40.67
3390	5/14/2021	13	9	28.34	Yes	-15	-43.34
3391	5/14/2021	13	10	28.88	Yes	-15	-43.88
3392	5/14/2021	13	11	28.63	Yes	-15	-43.63
3393	5/14/2021	13	12	28.16	Yes	-15	-43.16
3394	5/14/2021	14	1	28.59	Yes	-15	-43.59
3395	5/14/2021	14	2	28.75	Yes	-15	-43.75
3396	5/14/2021	14	3	29.04	Yes	-15	-44.04
3397	5/14/2021	14	4	28.65	Yes	-15	-43.65
3398	5/14/2021	14	5	30.75	Yes	-15	-45.75
3399	5/14/2021	14	6	30.49	Yes	-15	-45.49
3400	5/14/2021	14	7	32.75	Yes	-15	-47.75
3401	5/14/2021	14	8	34.62	Yes	-15	-49.62
3402	5/14/2021	14	9	32.56	Yes	-15	-47.56
3403	5/14/2021	14	10	31.93	Yes	-15	-46.93
3404	5/14/2021	14	11	31.90	Yes	-15	-46.90
3405	5/14/2021	14	12	30.31	Yes	-15	-45.31
3406	5/14/2021	15	1	29.35	Yes	-15	-44.35
3407	5/14/2021	15	2	29.35	Yes	-15	-44.35
3408	5/14/2021	15	3	30.40	Yes	-15	-45.40
3409	5/14/2021	15	4	29.58	Yes	-15	-44.58
3410	5/14/2021	15	5	30.88	Yes	-15	-45.88
3411	5/14/2021	15	6	30.36	Yes	-15	-45.36
3412	5/14/2021	15	7	30.35	Yes	-15	-45.35
3413	5/14/2021	15	8	31.64	Yes	-15	-46.64
3414	5/14/2021	15	9	31.97	Yes	-15	-46.97
3415	5/14/2021	15	10	31.91	Yes	-15	-46.91
3416	5/14/2021	15	11	32.17	Yes	-15	-47.17

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3417	5/14/2021	15	12	32.97	Yes	-15	-47.97
3418	5/14/2021	16	1	32.03	Yes	-15	-47.03
3419	5/14/2021	16	2	32.04	Yes	-15	-47.04
3420	5/14/2021	16	3	32.52	Yes	-15	-47.52
3421	5/14/2021	16	4	31.92	Yes	-15	-46.92
3422	5/14/2021	16	5	34.51	Yes	-15	-49.51
3423	5/14/2021	16	6	34.86	Yes	-15	-49.86
3424	5/14/2021	16	7	23.86	Yes	-15	-38.86
3425	5/14/2021	16	8	25.00	Yes	-15	-40.00
3426	5/14/2021	16	9	27.05	Yes	-15	-42.05
3427	5/14/2021	16	10	34.20	Yes	-15	-49.20
3428	5/14/2021	16	11	33.98	Yes	-15	-48.98
3429	5/14/2021	16	12	34.87	Yes	-15	-49.87
3430	5/14/2021	17	1	31.66	Yes	-15	-46.66
3431	5/14/2021	17	2	31.61	Yes	-15	-46.61
3432	5/14/2021	17	3	31.61	Yes	-15	-46.61
3433	5/14/2021	17	4	32.33	Yes	-15	-47.33
3434	5/14/2021	17	5	35.30	Yes	-15	-50.30
3435	5/14/2021	17	6	35.37	Yes	-15	-50.37
3436	5/14/2021	17	7	33.32	Yes	-15	-48.32
3437	5/14/2021	17	8	32.42	Yes	-15	-47.42
3438	5/14/2021	17	9	32.27	Yes	-15	-47.27
3439	5/14/2021	17	10	33.02	Yes	-15	-48.02
3440	5/14/2021	17	11	38.55	Yes	-15	-53.55
3441	5/14/2021	17	12	37.57	Yes	-15	-52.57
3442	5/14/2021	18	1	30.05	Yes	-15	-45.05
3443	5/14/2021	18	2	29.87	Yes	-15	-44.87
3444	5/14/2021	18	3	29.87	Yes	-15	-44.87
3445	5/14/2021	18	4	30.50	Yes	-15	-45.50
3446	5/14/2021	18	5	30.05	Yes	-15	-45.05
3447	5/14/2021	18	6	29.99	Yes	-15	-44.99
3448	5/14/2021	18	7	29.57	Yes	-15	-44.57
3449	5/14/2021	18	8	29.61	Yes	-15	-44.61
3450	5/14/2021	18	9	32.07	Yes	-15	-47.07
3451	5/14/2021	18	10	33.31	Yes	-15	-48.31
3452	5/14/2021	18	11	33.96	Yes	-15	-48.96
3453	5/14/2021	18	12	41.78	Yes	-15	-56.78
3454	5/14/2021	19	1	31.74	Yes	1	-30.74

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3455	5/14/2021	19	2	31.74	Yes	1	-30.74
3456	5/14/2021	19	3	32.05	Yes	1	-31.05
3457	5/14/2021	19	4	32.01	Yes	1	-31.01
3458	5/14/2021	19	5	33.49	Yes	1	-32.49
3459	5/14/2021	19	6	39.08	Yes	1	-38.08
3460	5/14/2021	19	7	37.17	Yes	1	-36.17
3461	5/14/2021	19	8	38.72	Yes	1	-37.72
3462	5/14/2021	19	9	41.69	Yes	1	-40.69
3463	5/14/2021	19	10	42.47	Yes	1	-41.47
3464	5/14/2021	19	11	46.07	Yes	1	-45.07
3465	5/14/2021	19	12	47.87	Yes	1	-46.87
3466	5/14/2021	20	1	42.84	Yes	1	-41.84
3467	5/14/2021	20	2	42.84	Yes	1	-41.84
3468	5/14/2021	20	3	45.74	Yes	1	-44.74
3469	5/14/2021	20	4	50.73	Yes	1	-49.73
3470	5/14/2021	20	5	51.59	Yes	1	-50.59
3471	5/14/2021	20	6	56.61	Yes	1	-55.61
3472	5/14/2021	20	7	56.58	Yes	1	-55.58
3473	5/14/2021	20	8	55.49	Yes	1	-54.49
3474	5/14/2021	20	9	59.49	Yes	1	-58.49
3475	5/14/2021	20	10	65.04	Yes	1	-64.04
3476	5/14/2021	20	11	70.86	Yes	1	-69.86
3477	5/14/2021	20	12	76.58	Yes	1	-75.58
3478	5/14/2021	21	1	59.18	Yes	-15	-74.18
3479	5/14/2021	21	2	65.22	Yes	-15	-80.22
3480	5/14/2021	21	3	64.06	Yes	-15	-79.06
3481	5/14/2021	21	4	63.33	Yes	-15	-78.33
3482	5/14/2021	21	5	57.70	Yes	-15	-72.70
3483	5/14/2021	21	6	57.00	Yes	-15	-72.00
3484	5/14/2021	21	7	52.79	Yes	-15	-67.79
3485	5/14/2021	21	8	52.25	Yes	-15	-67.25
3486	5/14/2021	21	9	51.50	Yes	-15	-66.50
3487	5/14/2021	21	10	50.46	Yes	-15	-65.46
3488	5/14/2021	21	11	49.28	Yes	-15	-64.28
3489	5/14/2021	21	12	48.97	Yes	-15	-63.97
3490	5/14/2021	22	1	56.84	Yes	-15	-71.84
3491	5/14/2021	22	2	57.43	Yes	-15	-72.43
3492	5/14/2021	22	3	55.69	Yes	-15	-70.69

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3493	5/14/2021	22	4	52.21	Yes	-15	-67.21
3494	5/14/2021	22	5	51.07	Yes	-15	-66.07
3495	5/14/2021	22	6	46.38	Yes	-15	-61.38
3496	5/14/2021	22	7	45.05	Yes	-15	-60.05
3497	5/14/2021	22	8	43.17	Yes	-15	-58.17
3498	5/14/2021	22	9	39.90	Yes	-15	-54.90
3499	5/14/2021	22	10	39.72	Yes	-15	-54.72
3500	5/14/2021	22	11	39.72	Yes	-15	-54.72
3501	5/14/2021	22	12	39.72	Yes	-15	-54.72
3502	5/14/2021	23	1	40.90	Yes	1	-39.90
3503	5/14/2021	23	2	42.83	Yes	1	-41.83
3504	5/14/2021	23	3	40.33	Yes	1	-39.33
3505	5/14/2021	23	4	50.46	Yes	1	-49.46
3506	5/14/2021	23	5	47.86	Yes	1	-46.86
3507	5/14/2021	23	6	42.86	Yes	1	-41.86
3508	5/14/2021	23	7	45.15	Yes	1	-44.15
3509	5/14/2021	23	8	41.19	Yes	1	-40.19
3510	5/14/2021	23	9	41.09	Yes	1	-40.09
3511	5/14/2021	23	10	39.44	Yes	1	-38.44
3512	5/14/2021	23	11	39.44	Yes	1	-38.44
3513	5/14/2021	23	12	37.89	Yes	1	-36.89
3514	5/14/2021	24	1	53.99	Yes	1	-52.99
3515	5/14/2021	24	2	47.65	Yes	1	-46.65
3516	5/14/2021	24	3	46.15	Yes	1	-45.15
3517	5/14/2021	24	4	50.22	Yes	1	-49.22
3518	5/14/2021	24	5	45.81	Yes	1	-44.81
3519	5/14/2021	24	6	44.83	Yes	1	-43.83
3520	5/14/2021	24	7	46.80	Yes	1	-45.80
3521	5/14/2021	24	8	43.31	Yes	1	-42.31
3522	5/14/2021	24	9	42.84	Yes	1	-41.84
3523	5/14/2021	24	10	55.81	Yes	1	-54.81
3524	5/14/2021	24	11	52.61	Yes	1	-51.61
3525	5/14/2021	24	12	53.26	Yes	1	-52.26
3526	5/15/2021	1	1	109.25	Yes	-15	-124.25
3527	5/15/2021	1	2	77.59	Yes	-15	-92.59
3528	5/15/2021	1	3	69.99	Yes	-15	-84.99
3529	5/15/2021	1	4	53.55	Yes	-15	-68.55
3530	5/15/2021	1	5	54.17	Yes	-15	-69.17

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3531	5/15/2021	1	6	49.36	Yes	-15	-64.36
3532	5/15/2021	1	7	-14.91	Yes	-15	-0.09
3533	5/15/2021	1	8	-14.92	Yes	-15	-0.08
3534	5/15/2021	1	9	-14.91	Yes	-15	-0.09
3535	5/15/2021	1	10	-14.92	Yes	-15	-0.08
3536	5/15/2021	1	11	-14.92	Yes	-15	-0.08
3537	5/15/2021	1	12	-14.92	Yes	-15	-0.08
3538	5/15/2021	2	1	-14.92	Yes	-15	-0.08
3539	5/15/2021	2	2	-14.92	Yes	-15	-0.08
3540	5/15/2021	2	3	-14.92	Yes	-15	-0.08
3541	5/15/2021	2	4	-14.92	Yes	-15	-0.08
3542	5/15/2021	2	5	-14.93	Yes	-15	-0.07
3543	5/15/2021	2	6	-14.93	Yes	-15	-0.07
3544	5/15/2021	2	7	-14.93	Yes	-15	-0.07
3545	5/15/2021	2	8	-14.94	Yes	-15	-0.06
3546	5/15/2021	2	9	-14.94	Yes	-15	-0.06
3547	5/15/2021	2	10	-14.94	Yes	-15	-0.06
3548	5/15/2021	2	11	-14.94	Yes	-15	-0.06
3549	5/15/2021	2	12	-14.94	Yes	-15	-0.06
3550	5/15/2021	3	1	39.12	Yes	-15	-54.12
3551	5/15/2021	3	2	39.12	Yes	-15	-54.12
3552	5/15/2021	3	3	38.60	Yes	-15	-53.60
3553	5/15/2021	3	4	39.07	Yes	-15	-54.07
3554	5/15/2021	3	5	34.68	Yes	-15	-49.68
3555	5/15/2021	3	6	34.68	Yes	-15	-49.68
3556	5/15/2021	3	7	0.66	Yes	-15	-15.66
3557	5/15/2021	3	8	0.66	Yes	-15	-15.66
3558	5/15/2021	3	9	0.66	Yes	-15	-15.66
3559	5/15/2021	3	10	0.66	Yes	-15	-15.66
3560	5/15/2021	3	11	0.66	Yes	-15	-15.66
3561	5/15/2021	3	12	0.68	Yes	-15	-15.68
3562	5/15/2021	4	1	-14.94	Yes	-15	-0.06
3563	5/15/2021	4	2	-14.94	Yes	-15	-0.06
3564	5/15/2021	4	3	-14.94	Yes	-15	-0.06
3565	5/15/2021	4	4	-14.94	Yes	-15	-0.06
3566	5/15/2021	4	5	-14.94	Yes	-15	-0.06
3567	5/15/2021	4	6	-14.94	Yes	-15	-0.06
3568	5/15/2021	4	7	29.43	Yes	-15	-44.43

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3569	5/15/2021	4	8	29.43	Yes	-15	-44.43
3570	5/15/2021	4	9	30.04	Yes	-15	-45.04
3571	5/15/2021	4	10	30.77	Yes	-15	-45.77
3572	5/15/2021	4	11	30.89	Yes	-15	-45.89
3573	5/15/2021	4	12	30.47	Yes	-15	-45.47
3574	5/15/2021	5	1	26.21	Yes	-15	-41.21
3575	5/15/2021	5	2	27.37	Yes	-15	-42.37
3576	5/15/2021	5	3	31.13	Yes	-15	-46.13
3577	5/15/2021	5	4	31.25	Yes	-15	-46.25
3578	5/15/2021	5	5	31.19	Yes	-15	-46.19
3579	5/15/2021	5	6	30.61	Yes	-15	-45.61
3580	5/15/2021	5	7	32.36	Yes	-15	-47.36
3581	5/15/2021	5	8	32.36	Yes	-15	-47.36
3582	5/15/2021	5	9	32.26	Yes	-15	-47.26
3583	5/15/2021	5	10	32.17	Yes	-15	-47.17
3584	5/15/2021	5	11	32.17	Yes	-15	-47.17
3585	5/15/2021	5	12	33.53	Yes	-15	-48.53
3586	5/15/2021	6	1	35.62	Yes	-15	-50.62
3587	5/15/2021	6	2	36.77	Yes	-15	-51.77
3588	5/15/2021	6	3	39.39	Yes	-15	-54.39
3589	5/15/2021	6	4	39.40	Yes	-15	-54.40
3590	5/15/2021	6	5	39.29	Yes	-15	-54.29
3591	5/15/2021	6	6	40.46	Yes	-15	-55.46
3592	5/15/2021	6	7	39.24	Yes	-15	-54.24
3593	5/15/2021	6	8	40.81	Yes	-15	-55.81
3594	5/15/2021	6	9	39.11	Yes	-15	-54.11
3595	5/15/2021	6	10	38.40	Yes	-15	-53.40
3596	5/15/2021	6	11	41.97	Yes	-15	-56.97
3597	5/15/2021	6	12	43.40	Yes	-15	-58.40
3598	5/15/2021	7	1	45.84	Yes	-15	-60.84
3599	5/15/2021	7	2	45.80	Yes	-15	-60.80
3600	5/15/2021	7	3	44.58	Yes	-15	-59.58
3601	5/15/2021	7	4	44.11	Yes	-15	-59.11
3602	5/15/2021	7	5	43.11	Yes	-15	-58.11
3603	5/15/2021	7	6	37.40	Yes	-15	-52.40
3604	5/15/2021	7	7	33.29	Yes	-15	-48.29
3605	5/15/2021	7	8	33.16	Yes	-15	-48.16
3606	5/15/2021	7	9	31.44	Yes	-15	-46.44

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3607	5/15/2021	7	10	39.43	Yes	-15	-54.43
3608	5/15/2021	7	11	36.18	Yes	-15	-51.18
3609	5/15/2021	7	12	32.57	Yes	-15	-47.57
3610	5/15/2021	8	1	33.60	Yes	-15	-48.60
3611	5/15/2021	8	2	31.89	Yes	-15	-46.89
3612	5/15/2021	8	3	31.48	Yes	-15	-46.48
3613	5/15/2021	8	4	31.94	Yes	-15	-46.94
3614	5/15/2021	8	5	34.13	Yes	-15	-49.13
3615	5/15/2021	8	6	35.46	Yes	-15	-50.46
3616	5/15/2021	8	7	27.19	Yes	-15	-42.19
3617	5/15/2021	8	8	28.51	Yes	-15	-43.51
3618	5/15/2021	8	9	26.55	Yes	-15	-41.55
3619	5/15/2021	8	10	40.96	Yes	-15	-55.96
3620	5/15/2021	8	11	40.96	Yes	-15	-55.96
3621	5/15/2021	8	12	41.00	Yes	-15	-56.00
3622	5/15/2021	9	1	50.44	Yes	-15	-65.44
3623	5/15/2021	9	2	52.17	Yes	-15	-67.17
3624	5/15/2021	9	3	58.00	Yes	-15	-73.00
3625	5/15/2021	9	4	33.02	Yes	-15	-48.02
3626	5/15/2021	9	5	36.15	Yes	-15	-51.15
3627	5/15/2021	9	6	37.40	Yes	-15	-52.40
3628	5/15/2021	9	7	35.34	Yes	-15	-50.34
3629	5/15/2021	9	8	36.07	Yes	-15	-51.07
3630	5/15/2021	9	9	36.51	Yes	-15	-51.51
3631	5/15/2021	9	10	49.75	Yes	-15	-64.75
3632	5/15/2021	9	11	42.65	Yes	-15	-57.65
3633	5/15/2021	9	12	41.75	Yes	-15	-56.75
3634	5/15/2021	10	1	49.61	Yes	-15	-64.61
3635	5/15/2021	10	2	44.11	Yes	-15	-59.11
3636	5/15/2021	10	3	49.86	Yes	-15	-64.86
3637	5/15/2021	10	4	37.93	Yes	-15	-52.93
3638	5/15/2021	10	5	37.63	Yes	-15	-52.63
3639	5/15/2021	10	6	43.60	Yes	-15	-58.60
3640	5/15/2021	10	7	34.50	Yes	-15	-49.50
3641	5/15/2021	10	8	35.35	Yes	-15	-50.35
3642	5/15/2021	10	9	35.96	Yes	-15	-50.96
3643	5/15/2021	10	10	23.74	Yes	-15	-38.74
3644	5/15/2021	10	11	27.36	Yes	-15	-42.36

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3645	5/15/2021	10	12	17.77	Yes	-15	-32.77
3646	5/15/2021	11	1	77.85	Yes	1	-76.85
3647	5/15/2021	11	2	58.25	Yes	1	-57.25
3648	5/15/2021	11	3	60.77	Yes	1	-59.77
3649	5/15/2021	11	4	57.28	Yes	1	-56.28
3650	5/15/2021	11	5	57.25	Yes	1	-56.25
3651	5/15/2021	11	6	57.13	Yes	1	-56.13
3652	5/15/2021	11	7	60.65	Yes	1	-59.65
3653	5/15/2021	11	8	63.83	Yes	1	-62.83
3654	5/15/2021	11	9	57.36	Yes	1	-56.36
3655	5/15/2021	11	10	56.87	Yes	1	-55.87
3656	5/15/2021	11	11	55.73	Yes	1	-54.73
3657	5/15/2021	11	12	44.97	Yes	1	-43.97
3658	5/15/2021	12	1	52.31	Yes	1	-51.31
3659	5/15/2021	12	2	52.79	Yes	1	-51.79
3660	5/15/2021	12	3	52.83	Yes	1	-51.83
3661	5/15/2021	12	4	48.38	Yes	1	-47.38
3662	5/15/2021	12	5	45.68	Yes	1	-44.68
3663	5/15/2021	12	6	53.51	Yes	1	-52.51
3664	5/15/2021	12	7	41.77	Yes	1	-40.77
3665	5/15/2021	12	8	39.99	Yes	1	-38.99
3666	5/15/2021	12	9	37.66	Yes	1	-36.66
3667	5/15/2021	12	10	42.86	Yes	1	-41.86
3668	5/15/2021	12	11	44.73	Yes	1	-43.73
3669	5/15/2021	12	12	43.45	Yes	1	-42.45
3670	5/15/2021	13	1	43.72	Yes	1	-42.72
3671	5/15/2021	13	2	43.37	Yes	1	-42.37
3672	5/15/2021	13	3	48.17	Yes	1	-47.17
3673	5/15/2021	13	4	42.91	Yes	1	-41.91
3674	5/15/2021	13	5	39.30	Yes	1	-38.30
3675	5/15/2021	13	6	40.52	Yes	1	-39.52
3676	5/15/2021	13	7	49.68	Yes	1	-48.68
3677	5/15/2021	13	8	49.83	Yes	1	-48.83
3678	5/15/2021	13	9	50.28	Yes	1	-49.28
3679	5/15/2021	13	10	45.01	Yes	1	-44.01
3680	5/15/2021	13	11	45.80	Yes	1	-44.80
3681	5/15/2021	13	12	46.19	Yes	1	-45.19
3682	5/15/2021	14	1	41.72	Yes	1	-40.72

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3683	5/15/2021	14	2	43.70	Yes	1	-42.70
3684	5/15/2021	14	3	41.09	Yes	1	-40.09
3685	5/15/2021	14	4	31.17	Yes	1	-30.17
3686	5/15/2021	14	5	32.00	Yes	1	-31.00
3687	5/15/2021	14	6	32.95	Yes	1	-31.95
3688	5/15/2021	14	7	37.89	Yes	1	-36.89
3689	5/15/2021	14	8	38.27	Yes	1	-37.27
3690	5/15/2021	14	9	40.07	Yes	1	-39.07
3691	5/15/2021	14	10	40.49	Yes	1	-39.49
3692	5/15/2021	14	11	33.10	Yes	1	-32.10
3693	5/15/2021	14	12	33.15	Yes	1	-32.15
3694	5/15/2021	15	1	32.47	Yes	1	-31.47
3695	5/15/2021	15	2	30.85	Yes	1	-29.85
3696	5/15/2021	15	3	31.88	Yes	1	-30.88
3697	5/15/2021	15	4	30.09	Yes	1	-29.09
3698	5/15/2021	15	5	31.71	Yes	1	-30.71
3699	5/15/2021	15	6	33.70	Yes	1	-32.70
3700	5/15/2021	15	7	33.50	Yes	1	-32.50
3701	5/15/2021	15	8	33.50	Yes	1	-32.50
3702	5/15/2021	15	9	33.64	Yes	1	-32.64
3703	5/15/2021	15	10	32.91	Yes	1	-31.91
3704	5/15/2021	15	11	33.74	Yes	1	-32.74
3705	5/15/2021	15	12	32.00	Yes	1	-31.00
3706	5/15/2021	16	1	31.03	Yes	-15	-46.03
3707	5/15/2021	16	2	32.23	Yes	-15	-47.23
3708	5/15/2021	16	3	31.14	Yes	-15	-46.14
3709	5/15/2021	16	4	31.07	Yes	-15	-46.07
3710	5/15/2021	16	5	31.47	Yes	-15	-46.47
3711	5/15/2021	16	6	32.60	Yes	-15	-47.60
3712	5/15/2021	16	7	30.27	Yes	-15	-45.27
3713	5/15/2021	16	8	33.65	Yes	-15	-48.65
3714	5/15/2021	16	9	38.33	Yes	-15	-53.33
3715	5/15/2021	16	10	41.61	Yes	-15	-56.61
3716	5/15/2021	16	11	42.45	Yes	-15	-57.45
3717	5/15/2021	16	12	41.61	Yes	-15	-56.61
3718	5/15/2021	17	1	28.69	Yes	-15	-43.69
3719	5/15/2021	17	2	18.99	Yes	-15	-33.99
3720	5/15/2021	17	3	27.18	Yes	-15	-42.18

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3721	5/15/2021	17	4	30.74	Yes	-15	-45.74
3722	5/15/2021	17	5	43.26	Yes	-15	-58.26
3723	5/15/2021	17	6	35.17	Yes	-15	-50.17
3724	5/15/2021	17	7	61.89	Yes	-15	-76.89
3725	5/15/2021	17	8	105.15	Yes	-15	-120.15
3726	5/15/2021	17	9	100.82	Yes	-15	-115.82
3727	5/15/2021	17	10	103.30	Yes	-15	-118.30
3728	5/15/2021	17	11	97.64	Yes	-15	-112.64
3729	5/15/2021	17	12	89.45	Yes	-15	-104.45
3730	5/15/2021	18	1	73.07	Yes	-15	-88.07
3731	5/15/2021	18	2	67.57	Yes	-15	-82.57
3732	5/15/2021	18	3	76.43	Yes	-15	-91.43
3733	5/15/2021	18	4	77.79	Yes	-15	-92.79
3734	5/15/2021	18	5	75.38	Yes	-15	-90.38
3735	5/15/2021	18	6	70.44	Yes	-15	-85.44
3736	5/15/2021	18	7	82.08	Yes	-15	-97.08
3737	5/15/2021	18	8	83.56	Yes	-15	-98.56
3738	5/15/2021	18	9	83.58	Yes	-15	-98.58
3739	5/15/2021	18	10	56.50	Yes	-15	-71.50
3740	5/15/2021	18	11	48.55	Yes	-15	-63.55
3741	5/15/2021	18	12	47.71	Yes	-15	-62.71
3742	5/15/2021	19	1	33.67	Yes	-15	-48.67
3743	5/15/2021	19	2	29.30	Yes	-15	-44.30
3744	5/15/2021	19	3	30.24	Yes	-15	-45.24
3745	5/15/2021	19	4	33.62	Yes	-15	-48.62
3746	5/15/2021	19	5	31.63	Yes	-15	-46.63
3747	5/15/2021	19	6	32.96	Yes	-15	-47.96
3748	5/15/2021	19	7	33.47	Yes	-15	-48.47
3749	5/15/2021	19	8	35.38	Yes	-15	-50.38
3750	5/15/2021	19	9	40.98	Yes	-15	-55.98
3751	5/15/2021	19	10	40.97	Yes	-15	-55.97
3752	5/15/2021	19	11	48.35	Yes	-15	-63.35
3753	5/15/2021	19	12	52.58	Yes	-15	-67.58
3754	5/15/2021	20	1	32.67	Yes	-15	-47.67
3755	5/15/2021	20	2	34.45	Yes	-15	-49.45
3756	5/15/2021	20	3	35.94	Yes	-15	-50.94
3757	5/15/2021	20	4	44.01	Yes	-15	-59.01
3758	5/15/2021	20	5	52.13	Yes	-15	-67.13

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3759	5/15/2021	20	6	53.31	Yes	-15	-68.31
3760	5/15/2021	20	7	53.55	Yes	-15	-68.55
3761	5/15/2021	20	8	62.15	Yes	-15	-77.15
3762	5/15/2021	20	9	97.31	Yes	-15	-112.31
3763	5/15/2021	20	10	83.17	Yes	-15	-98.17
3764	5/15/2021	20	11	96.90	Yes	-15	-111.90
3765	5/15/2021	20	12	67.40	Yes	-15	-82.40
3766	5/15/2021	21	1	47.56	Yes	-15	-62.56
3767	5/15/2021	21	2	47.54	Yes	-15	-62.54
3768	5/15/2021	21	3	47.56	Yes	-15	-62.56
3769	5/15/2021	21	4	48.49	Yes	-15	-63.49
3770	5/15/2021	21	5	48.49	Yes	-15	-63.49
3771	5/15/2021	21	6	48.49	Yes	-15	-63.49
3772	5/15/2021	21	7	48.53	Yes	-15	-63.53
3773	5/15/2021	21	8	48.53	Yes	-15	-63.53
3774	5/15/2021	21	9	47.32	Yes	-15	-62.32
3775	5/15/2021	21	10	47.40	Yes	-15	-62.40
3776	5/15/2021	21	11	47.40	Yes	-15	-62.40
3777	5/15/2021	21	12	48.09	Yes	-15	-63.09
3778	5/15/2021	22	1	51.37	Yes	-15	-66.37
3779	5/15/2021	22	2	47.25	Yes	-15	-62.25
3780	5/15/2021	22	3	46.80	Yes	-15	-61.80
3781	5/15/2021	22	4	46.24	Yes	-15	-61.24
3782	5/15/2021	22	5	45.03	Yes	-15	-60.03
3783	5/15/2021	22	6	42.76	Yes	-15	-57.76
3784	5/15/2021	22	7	42.47	Yes	-15	-57.47
3785	5/15/2021	22	8	41.37	Yes	-15	-56.37
3786	5/15/2021	22	9	41.36	Yes	-15	-56.36
3787	5/15/2021	22	10	40.96	Yes	-15	-55.96
3788	5/15/2021	22	11	40.78	Yes	-15	-55.78
3789	5/15/2021	22	12	37.67	Yes	-15	-52.67
3790	5/15/2021	23	1	43.97	Yes	1	-42.97
3791	5/15/2021	23	2	40.76	Yes	1	-39.76
3792	5/15/2021	23	3	38.96	Yes	1	-37.96
3793	5/15/2021	23	4	41.70	Yes	1	-40.70
3794	5/15/2021	23	5	41.70	Yes	1	-40.70
3795	5/15/2021	23	6	41.19	Yes	1	-40.19
3796	5/15/2021	23	7	46.89	Yes	1	-45.89

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3797	5/15/2021	23	8	41.48	Yes	1	-40.48
3798	5/15/2021	23	9	39.08	Yes	1	-38.08
3799	5/15/2021	23	10	38.11	Yes	1	-37.11
3800	5/15/2021	23	11	38.11	Yes	1	-37.11
3801	5/15/2021	23	12	38.11	Yes	1	-37.11
3802	5/15/2021	24	1	44.59	Yes	-15	-59.59
3803	5/15/2021	24	2	47.58	Yes	-15	-62.58
3804	5/15/2021	24	3	51.48	Yes	-15	-66.48
3805	5/15/2021	24	4	46.78	Yes	-15	-61.78
3806	5/15/2021	24	5	44.42	Yes	-15	-59.42
3807	5/15/2021	24	6	42.11	Yes	-15	-57.11
3808	5/15/2021	24	7	43.68	Yes	-15	-58.68
3809	5/15/2021	24	8	41.01	Yes	-15	-56.01
3810	5/15/2021	24	9	38.74	Yes	-15	-53.74
3811	5/15/2021	24	10	38.83	Yes	-15	-53.83
3812	5/15/2021	24	11	45.70	Yes	-15	-60.70
3813	5/15/2021	24	12	38.70	Yes	-15	-53.70
3814	5/16/2021	1	1	48.43	Yes	1	-47.43
3815	5/16/2021	1	2	48.43	Yes	1	-47.43
3816	5/16/2021	1	3	47.20	Yes	1	-46.20
3817	5/16/2021	1	4	32.88	Yes	1	-31.88
3818	5/16/2021	1	5	33.64	Yes	1	-32.64
3819	5/16/2021	1	6	32.76	Yes	1	-31.76
3820	5/16/2021	1	7	35.95	Yes	1	-34.95
3821	5/16/2021	1	8	33.67	Yes	1	-32.67
3822	5/16/2021	1	9	33.67	Yes	1	-32.67
3823	5/16/2021	1	10	32.98	Yes	1	-31.98
3824	5/16/2021	1	11	32.56	Yes	1	-31.56
3825	5/16/2021	1	12	33.23	Yes	1	-32.23
3826	5/16/2021	2	1	35.55	Yes	1	-34.55
3827	5/16/2021	2	2	36.36	Yes	1	-35.36
3828	5/16/2021	2	3	36.77	Yes	1	-35.77
3829	5/16/2021	2	4	38.29	Yes	1	-37.29
3830	5/16/2021	2	5	38.36	Yes	1	-37.36
3831	5/16/2021	2	6	36.11	Yes	1	-35.11
3832	5/16/2021	2	7	34.74	Yes	1	-33.74
3833	5/16/2021	2	8	33.18	Yes	1	-32.18
3834	5/16/2021	2	9	33.05	Yes	1	-32.05

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3835	5/16/2021	2	10	32.36	Yes	1	-31.36
3836	5/16/2021	2	11	32.36	Yes	1	-31.36
3837	5/16/2021	2	12	32.44	Yes	1	-31.44
3838	5/16/2021	3	1	38.97	Yes	1	-37.97
3839	5/16/2021	3	2	38.43	Yes	1	-37.43
3840	5/16/2021	3	3	38.73	Yes	1	-37.73
3841	5/16/2021	3	4	37.64	Yes	1	-36.64
3842	5/16/2021	3	5	35.89	Yes	1	-34.89
3843	5/16/2021	3	6	35.18	Yes	1	-34.18
3844	5/16/2021	3	7	33.89	Yes	1	-32.89
3845	5/16/2021	3	8	33.18	Yes	1	-32.18
3846	5/16/2021	3	9	32.87	Yes	1	-31.87
3847	5/16/2021	3	10	32.23	Yes	1	-31.23
3848	5/16/2021	3	11	32.59	Yes	1	-31.59
3849	5/16/2021	3	12	32.23	Yes	1	-31.23
3850	5/16/2021	4	1	33.66	Yes	1	-32.66
3851	5/16/2021	4	2	35.20	Yes	1	-34.20
3852	5/16/2021	4	3	34.22	Yes	1	-33.22
3853	5/16/2021	4	4	34.40	Yes	1	-33.40
3854	5/16/2021	4	5	33.73	Yes	1	-32.73
3855	5/16/2021	4	6	33.03	Yes	1	-32.03
3856	5/16/2021	4	7	32.38	Yes	1	-31.38
3857	5/16/2021	4	8	32.93	Yes	1	-31.93
3858	5/16/2021	4	9	33.84	Yes	1	-32.84
3859	5/16/2021	4	10	33.18	Yes	1	-32.18
3860	5/16/2021	4	11	33.18	Yes	1	-32.18
3861	5/16/2021	4	12	31.93	Yes	1	-30.93
3862	5/16/2021	5	1	32.89	Yes	1	-31.89
3863	5/16/2021	5	2	33.80	Yes	1	-32.80
3864	5/16/2021	5	3	34.26	Yes	1	-33.26
3865	5/16/2021	5	4	34.33	Yes	1	-33.33
3866	5/16/2021	5	5	33.81	Yes	1	-32.81
3867	5/16/2021	5	6	34.42	Yes	1	-33.42
3868	5/16/2021	5	7	33.60	Yes	1	-32.60
3869	5/16/2021	5	8	33.41	Yes	1	-32.41
3870	5/16/2021	5	9	33.32	Yes	1	-32.32
3871	5/16/2021	5	10	32.48	Yes	1	-31.48
3872	5/16/2021	5	11	33.55	Yes	1	-32.55

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3873	5/16/2021	5	12	32.95	Yes	1	-31.95
3874	5/16/2021	6	1	33.64	Yes	1	-32.64
3875	5/16/2021	6	2	33.95	Yes	1	-32.95
3876	5/16/2021	6	3	35.10	Yes	1	-34.10
3877	5/16/2021	6	4	33.57	Yes	1	-32.57
3878	5/16/2021	6	5	33.57	Yes	1	-32.57
3879	5/16/2021	6	6	32.69	Yes	1	-31.69
3880	5/16/2021	6	7	33.01	Yes	1	-32.01
3881	5/16/2021	6	8	31.27	Yes	1	-30.27
3882	5/16/2021	6	9	30.23	Yes	1	-29.23
3883	5/16/2021	6	10	29.46	Yes	1	-28.46
3884	5/16/2021	6	11	29.65	Yes	1	-28.65
3885	5/16/2021	6	12	31.66	Yes	1	-30.66
3886	5/16/2021	7	1	29.91	Yes	-15	-44.91
3887	5/16/2021	7	2	29.40	Yes	-15	-44.40
3888	5/16/2021	7	3	28.94	Yes	-15	-43.94
3889	5/16/2021	7	4	29.72	Yes	-15	-44.72
3890	5/16/2021	7	5	27.77	Yes	-15	-42.77
3891	5/16/2021	7	6	28.82	Yes	-15	-43.82
3892	5/16/2021	7	7	27.35	Yes	-15	-42.35
3893	5/16/2021	7	8	27.48	Yes	-15	-42.48
3894	5/16/2021	7	9	27.56	Yes	-15	-42.56
3895	5/16/2021	7	10	22.31	Yes	-15	-37.31
3896	5/16/2021	7	11	19.68	Yes	-15	-34.68
3897	5/16/2021	7	12	15.55	Yes	-15	-30.55
3898	5/16/2021	8	1	26.34	Yes	-15	-41.34
3899	5/16/2021	8	2	24.08	Yes	-15	-39.08
3900	5/16/2021	8	3	26.65	Yes	-15	-41.65
3901	5/16/2021	8	4	26.86	Yes	-15	-41.86
3902	5/16/2021	8	5	26.77	Yes	-15	-41.77
3903	5/16/2021	8	6	26.33	Yes	-15	-41.33
3904	5/16/2021	8	7	18.23	Yes	-15	-33.23
3905	5/16/2021	8	8	16.55	Yes	-15	-31.55
3906	5/16/2021	8	9	14.52	Yes	-15	-29.52
3907	5/16/2021	8	10	-0.01	Yes	-15	-14.99
3908	5/16/2021	8	11	-0.01	Yes	-15	-14.99
3909	5/16/2021	8	12	-0.01	Yes	-15	-14.99
3910	5/16/2021	9	1	13.21	Yes	-15	-28.21

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3911	5/16/2021	9	2	24.73	Yes	-15	-39.73
3912	5/16/2021	9	3	24.59	Yes	-15	-39.59
3913	5/16/2021	9	4	18.65	Yes	-15	-33.65
3914	5/16/2021	9	5	39.42	Yes	-15	-54.42
3915	5/16/2021	9	6	39.35	Yes	-15	-54.35
3916	5/16/2021	9	7	54.08	Yes	-15	-69.08
3917	5/16/2021	9	8	42.75	Yes	-15	-57.75
3918	5/16/2021	9	9	51.73	Yes	-15	-66.73
3919	5/16/2021	9	10	40.49	Yes	-15	-55.49
3920	5/16/2021	9	11	39.53	Yes	-15	-54.53
3921	5/16/2021	9	12	34.92	Yes	-15	-49.92
3922	5/16/2021	10	1	46.99	Yes	-15	-61.99
3923	5/16/2021	10	2	46.40	Yes	-15	-61.40
3924	5/16/2021	10	3	41.07	Yes	-15	-56.07
3925	5/16/2021	10	4	36.14	Yes	-15	-51.14
3926	5/16/2021	10	5	38.71	Yes	-15	-53.71
3927	5/16/2021	10	6	38.28	Yes	-15	-53.28
3928	5/16/2021	10	7	39.57	Yes	-15	-54.57
3929	5/16/2021	10	8	51.95	Yes	-15	-66.95
3930	5/16/2021	10	9	51.03	Yes	-15	-66.03
3931	5/16/2021	10	10	49.04	Yes	-15	-64.04
3932	5/16/2021	10	11	50.54	Yes	-15	-65.54
3933	5/16/2021	10	12	37.80	Yes	-15	-52.80
3934	5/16/2021	11	1	45.78	Yes	-15	-60.78
3935	5/16/2021	11	2	39.25	Yes	-15	-54.25
3936	5/16/2021	11	3	44.34	Yes	-15	-59.34
3937	5/16/2021	11	4	42.09	Yes	-15	-57.09
3938	5/16/2021	11	5	42.98	Yes	-15	-57.98
3939	5/16/2021	11	6	45.49	Yes	-15	-60.49
3940	5/16/2021	11	7	40.94	Yes	-15	-55.94
3941	5/16/2021	11	8	41.30	Yes	-15	-56.30
3942	5/16/2021	11	9	42.64	Yes	-15	-57.64
3943	5/16/2021	11	10	40.90	Yes	-15	-55.90
3944	5/16/2021	11	11	38.51	Yes	-15	-53.51
3945	5/16/2021	11	12	42.32	Yes	-15	-57.32
3946	5/16/2021	12	1	40.86	Yes	-15	-55.86
3947	5/16/2021	12	2	42.60	Yes	-15	-57.60
3948	5/16/2021	12	3	41.08	Yes	-15	-56.08

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3949	5/16/2021	12	4	42.91	Yes	-15	-57.91
3950	5/16/2021	12	5	40.81	Yes	-15	-55.81
3951	5/16/2021	12	6	36.33	Yes	-15	-51.33
3952	5/16/2021	12	7	41.24	Yes	-15	-56.24
3953	5/16/2021	12	8	42.17	Yes	-15	-57.17
3954	5/16/2021	12	9	43.32	Yes	-15	-58.32
3955	5/16/2021	12	10	43.27	Yes	-15	-58.27
3956	5/16/2021	12	11	43.12	Yes	-15	-58.12
3957	5/16/2021	12	12	43.39	Yes	-15	-58.39
3958	5/16/2021	13	1	36.95	Yes	-15	-51.95
3959	5/16/2021	13	2	39.61	Yes	-15	-54.61
3960	5/16/2021	13	3	39.50	Yes	-15	-54.50
3961	5/16/2021	13	4	40.23	Yes	-15	-55.23
3962	5/16/2021	13	5	40.69	Yes	-15	-55.69
3963	5/16/2021	13	6	40.69	Yes	-15	-55.69
3964	5/16/2021	13	7	36.27	Yes	-15	-51.27
3965	5/16/2021	13	8	36.29	Yes	-15	-51.29
3966	5/16/2021	13	9	36.25	Yes	-15	-51.25
3967	5/16/2021	13	10	36.24	Yes	-15	-51.24
3968	5/16/2021	13	11	36.25	Yes	-15	-51.25
3969	5/16/2021	13	12	36.56	Yes	-15	-51.56
3970	5/16/2021	14	1	48.78	Yes	-15	-63.78
3971	5/16/2021	14	2	45.21	Yes	-15	-60.21
3972	5/16/2021	14	3	48.74	Yes	-15	-63.74
3973	5/16/2021	14	4	34.23	Yes	-15	-49.23
3974	5/16/2021	14	5	35.14	Yes	-15	-50.14
3975	5/16/2021	14	6	37.88	Yes	-15	-52.88
3976	5/16/2021	14	7	36.80	Yes	-15	-51.80
3977	5/16/2021	14	8	40.48	Yes	-15	-55.48
3978	5/16/2021	14	9	41.50	Yes	-15	-56.50
3979	5/16/2021	14	10	39.34	Yes	-15	-54.34
3980	5/16/2021	14	11	41.65	Yes	-15	-56.65
3981	5/16/2021	14	12	39.19	Yes	-15	-54.19
3982	5/16/2021	15	1	36.55	Yes	-15	-51.55
3983	5/16/2021	15	2	37.35	Yes	-15	-52.35
3984	5/16/2021	15	3	37.06	Yes	-15	-52.06
3985	5/16/2021	15	4	37.20	Yes	-15	-52.20
3986	5/16/2021	15	5	37.44	Yes	-15	-52.44

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3987	5/16/2021	15	6	38.24	Yes	-15	-53.24
3988	5/16/2021	15	7	38.16	Yes	-15	-53.16
3989	5/16/2021	15	8	38.16	Yes	-15	-53.16
3990	5/16/2021	15	9	38.16	Yes	-15	-53.16
3991	5/16/2021	15	10	42.24	Yes	-15	-57.24
3992	5/16/2021	15	11	43.80	Yes	-15	-58.80
3993	5/16/2021	15	12	43.83	Yes	-15	-58.83
3994	5/16/2021	16	1	26.07	Yes	-15	-41.07
3995	5/16/2021	16	2	26.15	Yes	-15	-41.15
3996	5/16/2021	16	3	24.45	Yes	-15	-39.45
3997	5/16/2021	16	4	26.28	Yes	-15	-41.28
3998	5/16/2021	16	5	24.39	Yes	-15	-39.39
3999	5/16/2021	16	6	25.06	Yes	-15	-40.06
4000	5/16/2021	16	7	42.91	Yes	-15	-57.91
4001	5/16/2021	16	8	42.78	Yes	-15	-57.78
4002	5/16/2021	16	9	43.73	Yes	-15	-58.73
4003	5/16/2021	16	10	38.26	Yes	-15	-53.26
4004	5/16/2021	16	11	28.93	Yes	-15	-43.93
4005	5/16/2021	16	12	42.04	Yes	-15	-57.04
4006	5/16/2021	17	1	11.23	Yes	-15	-26.23
4007	5/16/2021	17	2	11.04	Yes	-15	-26.04
4008	5/16/2021	17	3	11.23	Yes	-15	-26.23
4009	5/16/2021	17	4	16.47	Yes	-15	-31.47
4010	5/16/2021	17	5	25.77	Yes	-15	-40.77
4011	5/16/2021	17	6	29.47	Yes	-15	-44.47
4012	5/16/2021	17	7	30.04	Yes	-15	-45.04
4013	5/16/2021	17	8	30.52	Yes	-15	-45.52
4014	5/16/2021	17	9	30.73	Yes	-15	-45.73
4015	5/16/2021	17	10	30.73	Yes	-15	-45.73
4016	5/16/2021	17	11	32.02	Yes	-15	-47.02
4017	5/16/2021	17	12	30.21	Yes	-15	-45.21
4018	5/16/2021	18	1	16.54	Yes	-15	-31.54
4019	5/16/2021	18	2	21.54	Yes	-15	-36.54
4020	5/16/2021	18	3	28.71	Yes	-15	-43.71
4021	5/16/2021	18	4	29.77	Yes	-15	-44.77
4022	5/16/2021	18	5	29.54	Yes	-15	-44.54
4023	5/16/2021	18	6	29.17	Yes	-15	-44.17
4024	5/16/2021	18	7	42.28	Yes	-15	-57.28

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4025	5/16/2021	18	8	40.05	Yes	-15	-55.05
4026	5/16/2021	18	9	34.17	Yes	-15	-49.17
4027	5/16/2021	18	10	31.96	Yes	-15	-46.96
4028	5/16/2021	18	11	31.90	Yes	-15	-46.90
4029	5/16/2021	18	12	33.83	Yes	-15	-48.83
4030	5/16/2021	19	1	32.79	Yes	-15	-47.79
4031	5/16/2021	19	2	30.81	Yes	-15	-45.81
4032	5/16/2021	19	3	30.29	Yes	-15	-45.29
4033	5/16/2021	19	4	33.04	Yes	-15	-48.04
4034	5/16/2021	19	5	32.96	Yes	-15	-47.96
4035	5/16/2021	19	6	33.62	Yes	-15	-48.62
4036	5/16/2021	19	7	31.84	Yes	-15	-46.84
4037	5/16/2021	19	8	32.05	Yes	-15	-47.05
4038	5/16/2021	19	9	35.91	Yes	-15	-50.91
4039	5/16/2021	19	10	30.40	Yes	-15	-45.40
4040	5/16/2021	19	11	30.68	Yes	-15	-45.68
4041	5/16/2021	19	12	34.36	Yes	-15	-49.36
4042	5/16/2021	20	1	29.98	Yes	-15	-44.98
4043	5/16/2021	20	2	31.08	Yes	-15	-46.08
4044	5/16/2021	20	3	29.99	Yes	-15	-44.99
4045	5/16/2021	20	4	30.69	Yes	-15	-45.69
4046	5/16/2021	20	5	31.32	Yes	-15	-46.32
4047	5/16/2021	20	6	31.76	Yes	-15	-46.76
4048	5/16/2021	20	7	32.18	Yes	-15	-47.18
4049	5/16/2021	20	8	34.12	Yes	-15	-49.12
4050	5/16/2021	20	9	35.68	Yes	-15	-50.68
4051	5/16/2021	20	10	36.47	Yes	-15	-51.47
4052	5/16/2021	20	11	38.44	Yes	-15	-53.44
4053	5/16/2021	20	12	39.41	Yes	-15	-54.41
4054	5/16/2021	21	1	46.22	Yes	-15	-61.22
4055	5/16/2021	21	2	41.19	Yes	-15	-56.19
4056	5/16/2021	21	3	39.19	Yes	-15	-54.19
4057	5/16/2021	21	4	39.69	Yes	-15	-54.69
4058	5/16/2021	21	5	36.87	Yes	-15	-51.87
4059	5/16/2021	21	6	34.21	Yes	-15	-49.21
4060	5/16/2021	21	7	32.66	Yes	-15	-47.66
4061	5/16/2021	21	8	32.50	Yes	-15	-47.50
4062	5/16/2021	21	9	30.70	Yes	-15	-45.70

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
4063	5/16/2021	21	10	33.90	Yes	-15	-48.90
4064	5/16/2021	21	11	32.58	Yes	-15	-47.58
4065	5/16/2021	21	12	32.74	Yes	-15	-47.74
4066	5/16/2021	22	1	38.22	Yes	-15	-53.22
4067	5/16/2021	22	2	39.37	Yes	-15	-54.37
4068	5/16/2021	22	3	31.91	Yes	-15	-46.91
4069	5/16/2021	22	4	49.14	Yes	-15	-64.14
4070	5/16/2021	22	5	46.26	Yes	-15	-61.26
4071	5/16/2021	22	6	46.25	Yes	-15	-61.25
4072	5/16/2021	22	7	42.97	Yes	-15	-57.97
4073	5/16/2021	22	8	38.22	Yes	-15	-53.22
4074	5/16/2021	22	9	33.75	Yes	-15	-48.75
4075	5/16/2021	22	10	32.02	Yes	-15	-47.02
4076	5/16/2021	22	11	32.16	Yes	-15	-47.16
4077	5/16/2021	22	12	35.14	Yes	-15	-50.14
4078	5/16/2021	23	1	35.84	Yes	1	-34.84
4079	5/16/2021	23	2	35.93	Yes	1	-34.93
4080	5/16/2021	23	3	35.87	Yes	1	-34.87
4081	5/16/2021	23	4	33.54	Yes	1	-32.54
4082	5/16/2021	23	5	32.81	Yes	1	-31.81
4083	5/16/2021	23	6	30.02	Yes	1	-29.02
4084	5/16/2021	23	7	29.19	Yes	1	-28.19
4085	5/16/2021	23	8	28.77	Yes	1	-27.77
4086	5/16/2021	23	9	27.76	Yes	1	-26.76
4087	5/16/2021	23	10	25.93	Yes	1	-24.93
4088	5/16/2021	23	11	26.18	Yes	1	-25.18
4089	5/16/2021	23	12	25.29	Yes	1	-24.29
4090	5/16/2021	24	1	24.24	Yes	1	-23.24
4091	5/16/2021	24	2	24.24	Yes	1	-23.24
4092	5/16/2021	24	3	23.15	Yes	1	-22.15
4093	5/16/2021	24	4	23.04	Yes	1	-22.04
4094	5/16/2021	24	5	21.50	Yes	1	-20.50
4095	5/16/2021	24	6	21.41	Yes	1	-20.41
4096	5/16/2021	24	7	21.50	Yes	1	-20.50
4097	5/16/2021	24	8	21.50	Yes	1	-20.50
4098	5/16/2021	24	9	21.39	Yes	1	-20.39
4099	5/16/2021	24	10	20.33	Yes	1	-19.33
4100	5/16/2021	24	11	20.02	Yes	1	-19.02

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4101	5/16/2021	24	12	20.29	Yes	1	-19.29
4102	5/17/2021	1	1	26.49	Yes	-15	-41.49
4103	5/17/2021	1	2	29.37	Yes	-15	-44.37
4104	5/17/2021	1	3	27.71	Yes	-15	-42.71
4105	5/17/2021	1	4	25.40	Yes	-15	-40.40
4106	5/17/2021	1	5	25.58	Yes	-15	-40.58
4107	5/17/2021	1	6	25.01	Yes	-15	-40.01
4108	5/17/2021	1	7	1.95	Yes	-15	-16.95
4109	5/17/2021	1	8	20.97	Yes	-15	-35.97
4110	5/17/2021	1	9	21.09	Yes	-15	-36.09
4111	5/17/2021	1	10	17.84	Yes	-15	-32.84
4112	5/17/2021	1	11	17.94	Yes	-15	-32.94
4113	5/17/2021	1	12	17.84	Yes	-15	-32.84
4114	5/17/2021	2	1	18.88	Yes	-15	-33.88
4115	5/17/2021	2	2	19.27	Yes	-15	-34.27
4116	5/17/2021	2	3	20.92	Yes	-15	-35.92
4117	5/17/2021	2	4	19.03	Yes	-15	-34.03
4118	5/17/2021	2	5	18.43	Yes	-15	-33.43
4119	5/17/2021	2	6	18.08	Yes	-15	-33.08
4120	5/17/2021	2	7	18.58	Yes	-15	-33.58
4121	5/17/2021	2	8	18.39	Yes	-15	-33.39
4122	5/17/2021	2	9	11.55	Yes	-15	-26.55
4123	5/17/2021	2	10	24.67	Yes	-15	-39.67
4124	5/17/2021	2	11	24.77	Yes	-15	-39.77
4125	5/17/2021	2	12	24.81	Yes	-15	-39.81
4126	5/17/2021	3	1	23.84	Yes	-15	-38.84
4127	5/17/2021	3	2	23.84	Yes	-15	-38.84
4128	5/17/2021	3	3	23.97	Yes	-15	-38.97
4129	5/17/2021	3	4	23.93	Yes	-15	-38.93
4130	5/17/2021	3	5	23.93	Yes	-15	-38.93
4131	5/17/2021	3	6	23.78	Yes	-15	-38.78
4132	5/17/2021	3	7	23.85	Yes	-15	-38.85
4133	5/17/2021	3	8	23.85	Yes	-15	-38.85
4134	5/17/2021	3	9	23.63	Yes	-15	-38.63
4135	5/17/2021	3	10	23.19	Yes	-15	-38.19
4136	5/17/2021	3	11	23.31	Yes	-15	-38.31
4137	5/17/2021	3	12	24.10	Yes	-15	-39.10
4138	5/17/2021	4	1	24.13	Yes	-15	-39.13

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4139	5/17/2021	4	2	24.41	Yes	-15	-39.41
4140	5/17/2021	4	3	24.41	Yes	-15	-39.41
4141	5/17/2021	4	4	24.32	Yes	-15	-39.32
4142	5/17/2021	4	5	24.32	Yes	-15	-39.32
4143	5/17/2021	4	6	24.32	Yes	-15	-39.32
4144	5/17/2021	4	7	24.38	Yes	-15	-39.38
4145	5/17/2021	4	8	24.51	Yes	-15	-39.51
4146	5/17/2021	4	9	24.79	Yes	-15	-39.79
4147	5/17/2021	4	10	24.81	Yes	-15	-39.81
4148	5/17/2021	4	11	25.64	Yes	-15	-40.64
4149	5/17/2021	4	12	26.84	Yes	-15	-41.84
4150	5/17/2021	5	1	26.38	Yes	-15	-41.38
4151	5/17/2021	5	2	26.59	Yes	-15	-41.59
4152	5/17/2021	5	3	26.81	Yes	-15	-41.81
4153	5/17/2021	5	4	27.42	Yes	-15	-42.42
4154	5/17/2021	5	5	27.61	Yes	-15	-42.61
4155	5/17/2021	5	6	28.26	Yes	-15	-43.26
4156	5/17/2021	5	7	28.52	Yes	-15	-43.52
4157	5/17/2021	5	8	28.82	Yes	-15	-43.82
4158	5/17/2021	5	9	28.52	Yes	-15	-43.52
4159	5/17/2021	5	10	28.57	Yes	-15	-43.57
4160	5/17/2021	5	11	29.63	Yes	-15	-44.63
4161	5/17/2021	5	12	29.10	Yes	-15	-44.10
4162	5/17/2021	6	1	28.06	Yes	1	-27.06
4163	5/17/2021	6	2	26.41	Yes	1	-25.41
4164	5/17/2021	6	3	26.41	Yes	1	-25.41
4165	5/17/2021	6	4	27.02	Yes	1	-26.02
4166	5/17/2021	6	5	26.90	Yes	1	-25.90
4167	5/17/2021	6	6	27.02	Yes	1	-26.02
4168	5/17/2021	6	7	29.51	Yes	1	-28.51
4169	5/17/2021	6	8	30.26	Yes	1	-29.26
4170	5/17/2021	6	9	30.26	Yes	1	-29.26
4171	5/17/2021	6	10	31.19	Yes	1	-30.19
4172	5/17/2021	6	11	31.19	Yes	1	-30.19
4173	5/17/2021	6	12	31.98	Yes	1	-30.98
4174	5/17/2021	7	1	39.52	Yes	-15	-54.52
4175	5/17/2021	7	2	43.55	Yes	-15	-58.55
4176	5/17/2021	7	3	39.51	Yes	-15	-54.51

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4177	5/17/2021	7	4	42.68	Yes	-15	-57.68
4178	5/17/2021	7	5	38.68	Yes	-15	-53.68
4179	5/17/2021	7	6	34.78	Yes	-15	-49.78
4180	5/17/2021	7	7	35.44	Yes	-15	-50.44
4181	5/17/2021	7	8	33.43	Yes	-15	-48.43
4182	5/17/2021	7	9	28.22	Yes	-15	-43.22
4183	5/17/2021	7	10	30.26	Yes	-15	-45.26
4184	5/17/2021	7	11	30.30	Yes	-15	-45.30
4185	5/17/2021	7	12	30.28	Yes	-15	-45.28
4186	5/17/2021	8	1	39.34	Yes	-15	-54.34
4187	5/17/2021	8	2	39.49	Yes	-15	-54.49
4188	5/17/2021	8	3	38.56	Yes	-15	-53.56
4189	5/17/2021	8	4	36.45	Yes	-15	-51.45
4190	5/17/2021	8	5	38.34	Yes	-15	-53.34
4191	5/17/2021	8	6	37.78	Yes	-15	-52.78
4192	5/17/2021	8	7	34.72	Yes	-15	-49.72
4193	5/17/2021	8	8	37.19	Yes	-15	-52.19
4194	5/17/2021	8	9	35.03	Yes	-15	-50.03
4195	5/17/2021	8	10	35.66	Yes	-15	-50.66
4196	5/17/2021	8	11	35.76	Yes	-15	-50.76
4197	5/17/2021	8	12	35.43	Yes	-15	-50.43
4198	5/17/2021	9	1	35.86	Yes	-15	-50.86
4199	5/17/2021	9	2	36.02	Yes	-15	-51.02
4200	5/17/2021	9	3	36.02	Yes	-15	-51.02
4201	5/17/2021	9	4	31.86	Yes	-15	-46.86
4202	5/17/2021	9	5	33.59	Yes	-15	-48.59
4203	5/17/2021	9	6	34.27	Yes	-15	-49.27
4204	5/17/2021	9	7	30.04	Yes	-15	-45.04
4205	5/17/2021	9	8	29.78	Yes	-15	-44.78
4206	5/17/2021	9	9	28.87	Yes	-15	-43.87
4207	5/17/2021	9	10	33.53	Yes	-15	-48.53
4208	5/17/2021	9	11	30.63	Yes	-15	-45.63
4209	5/17/2021	9	12	53.50	Yes	-15	-68.50
4210	5/17/2021	10	1	27.29	Yes	-15	-42.29
4211	5/17/2021	10	2	27.28	Yes	-15	-42.28
4212	5/17/2021	10	3	27.17	Yes	-15	-42.17
4213	5/17/2021	10	4	27.24	Yes	-15	-42.24
4214	5/17/2021	10	5	26.79	Yes	-15	-41.79

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4215	5/17/2021	10	6	27.12	Yes	-15	-42.12
4216	5/17/2021	10	7	31.63	Yes	-15	-46.63
4217	5/17/2021	10	8	32.97	Yes	-15	-47.97
4218	5/17/2021	10	9	32.97	Yes	-15	-47.97
4219	5/17/2021	10	10	32.82	Yes	-15	-47.82
4220	5/17/2021	10	11	33.04	Yes	-15	-48.04
4221	5/17/2021	10	12	29.85	Yes	-15	-44.85
4222	5/17/2021	11	1	23.75	Yes	-15	-38.75
4223	5/17/2021	11	2	24.50	Yes	-15	-39.50
4224	5/17/2021	11	3	23.89	Yes	-15	-38.89
4225	5/17/2021	11	4	22.74	Yes	-15	-37.74
4226	5/17/2021	11	5	21.95	Yes	-15	-36.95
4227	5/17/2021	11	6	37.71	Yes	-15	-52.71
4228	5/17/2021	11	7	17.08	Yes	-15	-32.08
4229	5/17/2021	11	8	16.86	Yes	-15	-31.86
4230	5/17/2021	11	9	16.85	Yes	-15	-31.85
4231	5/17/2021	11	10	16.97	Yes	-15	-31.97
4232	5/17/2021	11	11	17.18	Yes	-15	-32.18
4233	5/17/2021	11	12	19.33	Yes	-15	-34.33
4234	5/17/2021	12	1	18.01	Yes	-15	-33.01
4235	5/17/2021	12	2	18.26	Yes	-15	-33.26
4236	5/17/2021	12	3	18.26	Yes	-15	-33.26
4237	5/17/2021	12	4	18.34	Yes	-15	-33.34
4238	5/17/2021	12	5	19.24	Yes	-15	-34.24
4239	5/17/2021	12	6	19.09	Yes	-15	-34.09
4240	5/17/2021	12	7	18.20	Yes	-15	-33.20
4241	5/17/2021	12	8	18.22	Yes	-15	-33.22
4242	5/17/2021	12	9	17.75	Yes	-15	-32.75
4243	5/17/2021	12	10	17.94	Yes	-15	-32.94
4244	5/17/2021	12	11	18.09	Yes	-15	-33.09
4245	5/17/2021	12	12	18.02	Yes	-15	-33.02
4246	5/17/2021	13	1	18.43	Yes	-15	-33.43
4247	5/17/2021	13	2	18.01	Yes	-15	-33.01
4248	5/17/2021	13	3	18.04	Yes	-15	-33.04
4249	5/17/2021	13	4	17.89	Yes	-15	-32.89
4250	5/17/2021	13	5	17.81	Yes	-15	-32.81
4251	5/17/2021	13	6	17.74	Yes	-15	-32.74
4252	5/17/2021	13	7	17.67	Yes	-15	-32.67

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4253	5/17/2021	13	8	17.59	Yes	-15	-32.59
4254	5/17/2021	13	9	17.36	Yes	-15	-32.36
4255	5/17/2021	13	10	17.63	Yes	-15	-32.63
4256	5/17/2021	13	11	17.28	Yes	-15	-32.28
4257	5/17/2021	13	12	17.54	Yes	-15	-32.54
4258	5/17/2021	14	1	18.46	Yes	-15	-33.46
4259	5/17/2021	14	2	20.37	Yes	-15	-35.37
4260	5/17/2021	14	3	21.49	Yes	-15	-36.49
4261	5/17/2021	14	4	22.39	Yes	-15	-37.39
4262	5/17/2021	14	5	25.22	Yes	-15	-40.22
4263	5/17/2021	14	6	26.34	Yes	-15	-41.34
4264	5/17/2021	14	7	16.57	Yes	-15	-31.57
4265	5/17/2021	14	8	21.59	Yes	-15	-36.59
4266	5/17/2021	14	9	21.71	Yes	-15	-36.71
4267	5/17/2021	14	10	27.65	Yes	-15	-42.65
4268	5/17/2021	14	11	29.23	Yes	-15	-44.23
4269	5/17/2021	14	12	29.18	Yes	-15	-44.18
4270	5/17/2021	15	1	27.75	Yes	-15	-42.75
4271	5/17/2021	15	2	27.21	Yes	-15	-42.21
4272	5/17/2021	15	3	29.69	Yes	-15	-44.69
4273	5/17/2021	15	4	20.02	Yes	-15	-35.02
4274	5/17/2021	15	5	20.28	Yes	-15	-35.28
4275	5/17/2021	15	6	20.59	Yes	-15	-35.59
4276	5/17/2021	15	7	27.59	Yes	-15	-42.59
4277	5/17/2021	15	8	27.60	Yes	-15	-42.60
4278	5/17/2021	15	9	27.59	Yes	-15	-42.59
4279	5/17/2021	15	10	24.43	Yes	-15	-39.43
4280	5/17/2021	15	11	22.59	Yes	-15	-37.59
4281	5/17/2021	15	12	23.40	Yes	-15	-38.40
4282	5/17/2021	16	1	20.04	Yes	-15	-35.04
4283	5/17/2021	16	2	19.27	Yes	-15	-34.27
4284	5/17/2021	16	3	19.11	Yes	-15	-34.11
4285	5/17/2021	16	4	27.28	Yes	-15	-42.28
4286	5/17/2021	16	5	27.26	Yes	-15	-42.26
4287	5/17/2021	16	6	26.24	Yes	-15	-41.24
4288	5/17/2021	16	7	26.27	Yes	-15	-41.27
4289	5/17/2021	16	8	25.42	Yes	-15	-40.42
4290	5/17/2021	16	9	29.16	Yes	-15	-44.16

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4291	5/17/2021	16	10	27.49	Yes	-15	-42.49
4292	5/17/2021	16	11	25.44	Yes	-15	-40.44
4293	5/17/2021	16	12	22.87	Yes	-15	-37.87
4294	5/17/2021	17	1	1.63	Yes	-15	-16.63
4295	5/17/2021	17	2	23.09	Yes	-15	-38.09
4296	5/17/2021	17	3	23.09	Yes	-15	-38.09
4297	5/17/2021	17	4	17.12	Yes	-15	-32.12
4298	5/17/2021	17	5	17.12	Yes	-15	-32.12
4299	5/17/2021	17	6	18.20	Yes	-15	-33.20
4300	5/17/2021	17	7	0.00	Yes	-15	-15.00
4301	5/17/2021	17	8	19.24	Yes	-15	-34.24
4302	5/17/2021	17	9	20.65	Yes	-15	-35.65
4303	5/17/2021	17	10	22.01	Yes	-15	-37.01
4304	5/17/2021	17	11	22.31	Yes	-15	-37.31
4305	5/17/2021	17	12	24.24	Yes	-15	-39.24
4306	5/17/2021	18	1	24.24	Yes	-15	-39.24
4307	5/17/2021	18	2	-0.01	Yes	-15	-14.99
4308	5/17/2021	18	3	0.00	Yes	-15	-15.00
4309	5/17/2021	18	4	12.80	Yes	-15	-27.80
4310	5/17/2021	18	5	14.85	Yes	-15	-29.85
4311	5/17/2021	18	6	19.08	Yes	-15	-34.08
4312	5/17/2021	18	7	20.08	Yes	-15	-35.08
4313	5/17/2021	18	8	20.26	Yes	-15	-35.26
4314	5/17/2021	18	9	20.11	Yes	-15	-35.11
4315	5/17/2021	18	10	21.70	Yes	-15	-36.70
4316	5/17/2021	18	11	22.55	Yes	-15	-37.55
4317	5/17/2021	18	12	23.93	Yes	-15	-38.93
4318	5/17/2021	19	1	19.61	Yes	-15	-34.61
4319	5/17/2021	19	2	20.44	Yes	-15	-35.44
4320	5/17/2021	19	3	21.76	Yes	-15	-36.76
4321	5/17/2021	19	4	22.49	Yes	-15	-37.49
4322	5/17/2021	19	5	24.73	Yes	-15	-39.73
4323	5/17/2021	19	6	28.94	Yes	-15	-43.94
4324	5/17/2021	19	7	31.41	Yes	-15	-46.41
4325	5/17/2021	19	8	34.29	Yes	-15	-49.29
4326	5/17/2021	19	9	38.75	Yes	-15	-53.75
4327	5/17/2021	19	10	38.56	Yes	-15	-53.56
4328	5/17/2021	19	11	38.91	Yes	-15	-53.91

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4329	5/17/2021	19	12	38.91	Yes	-15	-53.91
4330	5/17/2021	20	1	26.29	Yes	-15	-41.29
4331	5/17/2021	20	2	27.53	Yes	-15	-42.53
4332	5/17/2021	20	3	28.05	Yes	-15	-43.05
4333	5/17/2021	20	4	30.35	Yes	-15	-45.35
4334	5/17/2021	20	5	30.35	Yes	-15	-45.35
4335	5/17/2021	20	6	33.22	Yes	-15	-48.22
4336	5/17/2021	20	7	32.51	Yes	-15	-47.51
4337	5/17/2021	20	8	33.85	Yes	-15	-48.85
4338	5/17/2021	20	9	35.37	Yes	-15	-50.37
4339	5/17/2021	20	10	35.02	Yes	-15	-50.02
4340	5/17/2021	20	11	37.02	Yes	-15	-52.02
4341	5/17/2021	20	12	38.50	Yes	-15	-53.50
4342	5/17/2021	21	1	36.22	Yes	-15	-51.22
4343	5/17/2021	21	2	36.25	Yes	-15	-51.25
4344	5/17/2021	21	3	33.26	Yes	-15	-48.26
4345	5/17/2021	21	4	35.08	Yes	-15	-50.08
4346	5/17/2021	21	5	35.08	Yes	-15	-50.08
4347	5/17/2021	21	6	36.17	Yes	-15	-51.17
4348	5/17/2021	21	7	38.12	Yes	-15	-53.12
4349	5/17/2021	21	8	36.07	Yes	-15	-51.07
4350	5/17/2021	21	9	35.81	Yes	-15	-50.81
4351	5/17/2021	21	10	34.63	Yes	-15	-49.63
4352	5/17/2021	21	11	33.49	Yes	-15	-48.49
4353	5/17/2021	21	12	33.96	Yes	-15	-48.96
4354	5/17/2021	22	1	45.66	Yes	-15	-60.66
4355	5/17/2021	22	2	41.30	Yes	-15	-56.30
4356	5/17/2021	22	3	40.11	Yes	-15	-55.11
4357	5/17/2021	22	4	39.60	Yes	-15	-54.60
4358	5/17/2021	22	5	38.08	Yes	-15	-53.08
4359	5/17/2021	22	6	36.90	Yes	-15	-51.90
4360	5/17/2021	22	7	37.56	Yes	-15	-52.56
4361	5/17/2021	22	8	39.23	Yes	-15	-54.23
4362	5/17/2021	22	9	38.29	Yes	-15	-53.29
4363	5/17/2021	22	10	34.23	Yes	-15	-49.23
4364	5/17/2021	22	11	32.47	Yes	-15	-47.47
4365	5/17/2021	22	12	32.47	Yes	-15	-47.47
4366	5/17/2021	23	1	37.09	Yes	-15	-52.09

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4367	5/17/2021	23	2	37.09	Yes	-15	-52.09
4368	5/17/2021	23	3	35.96	Yes	-15	-50.96
4369	5/17/2021	23	4	33.02	Yes	-15	-48.02
4370	5/17/2021	23	5	32.38	Yes	-15	-47.38
4371	5/17/2021	23	6	31.35	Yes	-15	-46.35
4372	5/17/2021	23	7	31.18	Yes	-15	-46.18
4373	5/17/2021	23	8	30.87	Yes	-15	-45.87
4374	5/17/2021	23	9	30.61	Yes	-15	-45.61
4375	5/17/2021	23	10	28.38	Yes	-15	-43.38
4376	5/17/2021	23	11	28.32	Yes	-15	-43.32
4377	5/17/2021	23	12	27.27	Yes	-15	-42.27
4378	5/17/2021	24	1	30.37	Yes	-15	-45.37
4379	5/17/2021	24	2	30.46	Yes	-15	-45.46
4380	5/17/2021	24	3	30.72	Yes	-15	-45.72
4381	5/17/2021	24	4	29.24	Yes	-15	-44.24
4382	5/17/2021	24	5	28.49	Yes	-15	-43.49
4383	5/17/2021	24	6	28.07	Yes	-15	-43.07
4384	5/17/2021	24	7	27.01	Yes	-15	-42.01
4385	5/17/2021	24	8	26.98	Yes	-15	-41.98
4386	5/17/2021	24	9	25.99	Yes	-15	-40.99
4387	5/17/2021	24	10	25.37	Yes	-15	-40.37
4388	5/17/2021	24	11	25.05	Yes	-15	-40.05
4389	5/17/2021	24	12	24.10	Yes	-15	-39.10
4390	5/18/2021	1	1	26.50	Yes	-15	-41.50
4391	5/18/2021	1	2	27.63	Yes	-15	-42.63
4392	5/18/2021	1	3	28.51	Yes	-15	-43.51
4393	5/18/2021	1	4	32.58	Yes	-15	-47.58
4394	5/18/2021	1	5	31.04	Yes	-15	-46.04
4395	5/18/2021	1	6	27.95	Yes	-15	-42.95
4396	5/18/2021	1	7	28.59	Yes	-15	-43.59
4397	5/18/2021	1	8	31.06	Yes	-15	-46.06
4398	5/18/2021	1	9	28.84	Yes	-15	-43.84
4399	5/18/2021	1	10	28.30	Yes	-15	-43.30
4400	5/18/2021	1	11	27.67	Yes	-15	-42.67
4401	5/18/2021	1	12	26.61	Yes	-15	-41.61
4402	5/18/2021	2	1	28.54	Yes	-15	-43.54
4403	5/18/2021	2	2	28.21	Yes	-15	-43.21
4404	5/18/2021	2	3	28.47	Yes	-15	-43.47

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4405	5/18/2021	2	4	30.89	Yes	-15	-45.89
4406	5/18/2021	2	5	29.27	Yes	-15	-44.27
4407	5/18/2021	2	6	29.96	Yes	-15	-44.96
4408	5/18/2021	2	7	28.42	Yes	-15	-43.42
4409	5/18/2021	2	8	28.37	Yes	-15	-43.37
4410	5/18/2021	2	9	28.36	Yes	-15	-43.36
4411	5/18/2021	2	10	28.24	Yes	-15	-43.24
4412	5/18/2021	2	11	28.21	Yes	-15	-43.21
4413	5/18/2021	2	12	27.80	Yes	-15	-42.80
4414	5/18/2021	3	1	29.09	Yes	-15	-44.09
4415	5/18/2021	3	2	29.20	Yes	-15	-44.20
4416	5/18/2021	3	3	28.68	Yes	-15	-43.68
4417	5/18/2021	3	4	27.96	Yes	-15	-42.96
4418	5/18/2021	3	5	28.10	Yes	-15	-43.10
4419	5/18/2021	3	6	27.70	Yes	-15	-42.70
4420	5/18/2021	3	7	27.46	Yes	-15	-42.46
4421	5/18/2021	3	8	27.23	Yes	-15	-42.23
4422	5/18/2021	3	9	27.04	Yes	-15	-42.04
4423	5/18/2021	3	10	26.36	Yes	-15	-41.36
4424	5/18/2021	3	11	26.46	Yes	-15	-41.46
4425	5/18/2021	3	12	25.72	Yes	-15	-40.72
4426	5/18/2021	4	1	29.09	Yes	-15	-44.09
4427	5/18/2021	4	2	29.09	Yes	-15	-44.09
4428	5/18/2021	4	3	30.45	Yes	-15	-45.45
4429	5/18/2021	4	4	31.47	Yes	-15	-46.47
4430	5/18/2021	4	5	31.38	Yes	-15	-46.38
4431	5/18/2021	4	6	34.27	Yes	-15	-49.27
4432	5/18/2021	4	7	32.19	Yes	-15	-47.19
4433	5/18/2021	4	8	31.27	Yes	-15	-46.27
4434	5/18/2021	4	9	30.78	Yes	-15	-45.78
4435	5/18/2021	4	10	29.74	Yes	-15	-44.74
4436	5/18/2021	4	11	28.29	Yes	-15	-43.29
4437	5/18/2021	4	12	31.37	Yes	-15	-46.37
4438	5/18/2021	5	1	19.55	Yes	-15	-34.55
4439	5/18/2021	5	2	19.55	Yes	-15	-34.55
4440	5/18/2021	5	3	24.01	Yes	-15	-39.01
4441	5/18/2021	5	4	24.84	Yes	-15	-39.84
4442	5/18/2021	5	5	26.08	Yes	-15	-41.08

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4443	5/18/2021	5	6	26.02	Yes	-15	-41.02
4444	5/18/2021	5	7	26.24	Yes	-15	-41.24
4445	5/18/2021	5	8	27.05	Yes	-15	-42.05
4446	5/18/2021	5	9	27.06	Yes	-15	-42.06
4447	5/18/2021	5	10	26.98	Yes	-15	-41.98
4448	5/18/2021	5	11	26.71	Yes	-15	-41.71
4449	5/18/2021	5	12	26.70	Yes	-15	-41.70
4450	5/18/2021	6	1	26.60	Yes	-15	-41.60
4451	5/18/2021	6	2	26.43	Yes	-15	-41.43
4452	5/18/2021	6	3	26.61	Yes	-15	-41.61
4453	5/18/2021	6	4	26.65	Yes	-15	-41.65
4454	5/18/2021	6	5	26.72	Yes	-15	-41.72
4455	5/18/2021	6	6	28.37	Yes	-15	-43.37
4456	5/18/2021	6	7	31.39	Yes	-15	-46.39
4457	5/18/2021	6	8	31.42	Yes	-15	-46.42
4458	5/18/2021	6	9	30.62	Yes	-15	-45.62
4459	5/18/2021	6	10	32.75	Yes	-15	-47.75
4460	5/18/2021	6	11	31.96	Yes	-15	-46.96
4461	5/18/2021	6	12	32.37	Yes	-15	-47.37
4462	5/18/2021	7	1	32.74	Yes	-15	-47.74
4463	5/18/2021	7	2	39.88	Yes	-15	-54.88
4464	5/18/2021	7	3	36.35	Yes	-15	-51.35
4465	5/18/2021	7	4	29.08	Yes	-15	-44.08
4466	5/18/2021	7	5	31.92	Yes	-15	-46.92
4467	5/18/2021	7	6	34.74	Yes	-15	-49.74
4468	5/18/2021	7	7	33.51	Yes	-15	-48.51
4469	5/18/2021	7	8	33.41	Yes	-15	-48.41
4470	5/18/2021	7	9	31.83	Yes	-15	-46.83
4471	5/18/2021	7	10	47.14	Yes	-15	-62.14
4472	5/18/2021	7	11	45.63	Yes	-15	-60.63
4473	5/18/2021	7	12	37.48	Yes	-15	-52.48
4474	5/18/2021	8	1	31.86	Yes	-15	-46.86
4475	5/18/2021	8	2	31.41	Yes	-15	-46.41
4476	5/18/2021	8	3	35.07	Yes	-15	-50.07
4477	5/18/2021	8	4	31.79	Yes	-15	-46.79
4478	5/18/2021	8	5	31.53	Yes	-15	-46.53
4479	5/18/2021	8	6	25.15	Yes	-15	-40.15
4480	5/18/2021	8	7	28.85	Yes	-15	-43.85

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4481	5/18/2021	8	8	28.25	Yes	-15	-43.25
4482	5/18/2021	8	9	31.19	Yes	-15	-46.19
4483	5/18/2021	8	10	31.12	Yes	-15	-46.12
4484	5/18/2021	8	11	31.14	Yes	-15	-46.14
4485	5/18/2021	8	12	30.99	Yes	-15	-45.99
4486	5/18/2021	9	1	30.38	Yes	-15	-45.38
4487	5/18/2021	9	2	30.49	Yes	-15	-45.49
4488	5/18/2021	9	3	30.38	Yes	-15	-45.38
4489	5/18/2021	9	4	30.41	Yes	-15	-45.41
4490	5/18/2021	9	5	31.51	Yes	-15	-46.51
4491	5/18/2021	9	6	31.51	Yes	-15	-46.51
4492	5/18/2021	9	7	31.54	Yes	-15	-46.54
4493	5/18/2021	9	8	31.54	Yes	-15	-46.54
4494	5/18/2021	9	9	31.51	Yes	-15	-46.51
4495	5/18/2021	9	10	30.96	Yes	-15	-45.96
4496	5/18/2021	9	11	30.53	Yes	-15	-45.53
4497	5/18/2021	9	12	36.00	Yes	-15	-51.00
4498	5/18/2021	10	1	34.89	Yes	-15	-49.89
4499	5/18/2021	10	2	35.09	Yes	-15	-50.09
4500	5/18/2021	10	3	33.24	Yes	-15	-48.24
4501	5/18/2021	10	4	30.95	Yes	-15	-45.95
4502	5/18/2021	10	5	30.97	Yes	-15	-45.97
4503	5/18/2021	10	6	30.54	Yes	-15	-45.54
4504	5/18/2021	10	7	29.43	Yes	-15	-44.43
4505	5/18/2021	10	8	29.10	Yes	-15	-44.10
4506	5/18/2021	10	9	29.14	Yes	-15	-44.14
4507	5/18/2021	10	10	29.10	Yes	-15	-44.10
4508	5/18/2021	10	11	30.52	Yes	-15	-45.52
4509	5/18/2021	10	12	31.50	Yes	-15	-46.50
4510	5/18/2021	11	1	31.74	Yes	-15	-46.74
4511	5/18/2021	11	2	33.01	Yes	-15	-48.01
4512	5/18/2021	11	3	31.76	Yes	-15	-46.76
4513	5/18/2021	11	4	30.85	Yes	-15	-45.85
4514	5/18/2021	11	5	30.65	Yes	-15	-45.65
4515	5/18/2021	11	6	30.65	Yes	-15	-45.65
4516	5/18/2021	11	7	31.12	Yes	-15	-46.12
4517	5/18/2021	11	8	31.14	Yes	-15	-46.14
4518	5/18/2021	11	9	31.13	Yes	-15	-46.13

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4519	5/18/2021	11	10	31.33	Yes	-15	-46.33
4520	5/18/2021	11	11	31.15	Yes	-15	-46.15
4521	5/18/2021	11	12	31.30	Yes	-15	-46.30
4522	5/18/2021	12	1	28.60	Yes	-15	-43.60
4523	5/18/2021	12	2	30.07	Yes	-15	-45.07
4524	5/18/2021	12	3	30.82	Yes	-15	-45.82
4525	5/18/2021	12	4	28.40	Yes	-15	-43.40
4526	5/18/2021	12	5	28.91	Yes	-15	-43.91
4527	5/18/2021	12	6	27.89	Yes	-15	-42.89
4528	5/18/2021	12	7	30.23	Yes	-15	-45.23
4529	5/18/2021	12	8	30.83	Yes	-15	-45.83
4530	5/18/2021	12	9	31.07	Yes	-15	-46.07
4531	5/18/2021	12	10	32.42	Yes	-15	-47.42
4532	5/18/2021	12	11	31.24	Yes	-15	-46.24
4533	5/18/2021	12	12	32.41	Yes	-15	-47.41
4534	5/18/2021	13	1	33.82	Yes	-15	-48.82
4535	5/18/2021	13	2	34.75	Yes	-15	-49.75
4536	5/18/2021	13	3	36.08	Yes	-15	-51.08
4537	5/18/2021	13	4	16.02	Yes	-15	-31.02
4538	5/18/2021	13	5	25.62	Yes	-15	-40.62
4539	5/18/2021	13	6	31.12	Yes	-15	-46.12
4540	5/18/2021	13	7	31.32	Yes	-15	-46.32
4541	5/18/2021	13	8	31.34	Yes	-15	-46.34
4542	5/18/2021	13	9	31.88	Yes	-15	-46.88
4543	5/18/2021	13	10	32.97	Yes	-15	-47.97
4544	5/18/2021	13	11	32.70	Yes	-15	-47.70
4545	5/18/2021	13	12	33.07	Yes	-15	-48.07
4546	5/18/2021	14	1	31.47	Yes	-15	-46.47
4547	5/18/2021	14	2	32.67	Yes	-15	-47.67
4548	5/18/2021	14	3	31.80	Yes	-15	-46.80
4549	5/18/2021	14	4	15.59	Yes	-15	-30.59
4550	5/18/2021	14	5	27.64	Yes	-15	-42.64
4551	5/18/2021	14	6	30.33	Yes	-15	-45.33
4552	5/18/2021	14	7	36.01	Yes	-15	-51.01
4553	5/18/2021	14	8	34.09	Yes	-15	-49.09
4554	5/18/2021	14	9	34.54	Yes	-15	-49.54
4555	5/18/2021	14	10	33.67	Yes	-15	-48.67
4556	5/18/2021	14	11	33.68	Yes	-15	-48.68

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4557	5/18/2021	14	12	34.20	Yes	-15	-49.20
4558	5/18/2021	15	1	31.14	Yes	-15	-46.14
4559	5/18/2021	15	2	33.74	Yes	-15	-48.74
4560	5/18/2021	15	3	32.78	Yes	-15	-47.78
4561	5/18/2021	15	4	40.31	Yes	-15	-55.31
4562	5/18/2021	15	5	41.27	Yes	-15	-56.27
4563	5/18/2021	15	6	41.86	Yes	-15	-56.86
4564	5/18/2021	15	7	42.45	Yes	-15	-57.45
4565	5/18/2021	15	8	43.02	Yes	-15	-58.02
4566	5/18/2021	15	9	42.49	Yes	-15	-57.49
4567	5/18/2021	15	10	40.14	Yes	-15	-55.14
4568	5/18/2021	15	11	41.10	Yes	-15	-56.10
4569	5/18/2021	15	12	41.08	Yes	-15	-56.08
4570	5/18/2021	16	1	30.28	Yes	-15	-45.28
4571	5/18/2021	16	2	30.76	Yes	-15	-45.76
4572	5/18/2021	16	3	30.42	Yes	-15	-45.42
4573	5/18/2021	16	4	32.59	Yes	-15	-47.59
4574	5/18/2021	16	5	31.68	Yes	-15	-46.68
4575	5/18/2021	16	6	32.60	Yes	-15	-47.60
4576	5/18/2021	16	7	29.47	Yes	-15	-44.47
4577	5/18/2021	16	8	29.32	Yes	-15	-44.32
4578	5/18/2021	16	9	29.47	Yes	-15	-44.47
4579	5/18/2021	16	10	32.90	Yes	-15	-47.90
4580	5/18/2021	16	11	32.11	Yes	-15	-47.11
4581	5/18/2021	16	12	29.46	Yes	-15	-44.46
4582	5/18/2021	17	1	27.82	Yes	-15	-42.82
4583	5/18/2021	17	2	29.42	Yes	-15	-44.42
4584	5/18/2021	17	3	30.04	Yes	-15	-45.04
4585	5/18/2021	17	4	28.17	Yes	-15	-43.17
4586	5/18/2021	17	5	27.68	Yes	-15	-42.68
4587	5/18/2021	17	6	25.85	Yes	-15	-40.85
4588	5/18/2021	17	7	29.06	Yes	-15	-44.06
4589	5/18/2021	17	8	29.06	Yes	-15	-44.06
4590	5/18/2021	17	9	30.78	Yes	-15	-45.78
4591	5/18/2021	17	10	31.62	Yes	-15	-46.62
4592	5/18/2021	17	11	32.37	Yes	-15	-47.37
4593	5/18/2021	17	12	31.29	Yes	-15	-46.29
4594	5/18/2021	18	1	31.07	Yes	-15	-46.07

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4595	5/18/2021	18	2	2.90	Yes	-15	-17.90
4596	5/18/2021	18	3	30.83	Yes	-15	-45.83
4597	5/18/2021	18	4	30.03	Yes	-15	-45.03
4598	5/18/2021	18	5	29.49	Yes	-15	-44.49
4599	5/18/2021	18	6	29.15	Yes	-15	-44.15
4600	5/18/2021	18	7	28.73	Yes	-15	-43.73
4601	5/18/2021	18	8	29.71	Yes	-15	-44.71
4602	5/18/2021	18	9	29.79	Yes	-15	-44.79
4603	5/18/2021	18	10	33.37	Yes	-15	-48.37
4604	5/18/2021	18	11	40.39	Yes	-15	-55.39
4605	5/18/2021	18	12	34.97	Yes	-15	-49.97
4606	5/18/2021	19	1	21.65	Yes	1	-20.65
4607	5/18/2021	19	2	23.81	Yes	1	-22.81
4608	5/18/2021	19	3	27.39	Yes	1	-26.39
4609	5/18/2021	19	4	28.63	Yes	1	-27.63
4610	5/18/2021	19	5	30.70	Yes	1	-29.70
4611	5/18/2021	19	6	36.25	Yes	1	-35.25
4612	5/18/2021	19	7	38.17	Yes	1	-37.17
4613	5/18/2021	19	8	39.73	Yes	1	-38.73
4614	5/18/2021	19	9	49.40	Yes	1	-48.40
4615	5/18/2021	19	10	48.04	Yes	1	-47.04
4616	5/18/2021	19	11	59.78	Yes	1	-58.78
4617	5/18/2021	19	12	82.36	Yes	1	-81.36
4618	5/18/2021	20	1	46.26	Yes	-15	-61.26
4619	5/18/2021	20	2	46.26	Yes	-15	-61.26
4620	5/18/2021	20	3	50.29	Yes	-15	-65.29
4621	5/18/2021	20	4	50.08	Yes	-15	-65.08
4622	5/18/2021	20	5	51.48	Yes	-15	-66.48
4623	5/18/2021	20	6	52.31	Yes	-15	-67.31
4624	5/18/2021	20	7	52.91	Yes	-15	-67.91
4625	5/18/2021	20	8	55.02	Yes	-15	-70.02
4626	5/18/2021	20	9	59.24	Yes	-15	-74.24
4627	5/18/2021	20	10	57.14	Yes	-15	-72.14
4628	5/18/2021	20	11	55.37	Yes	-15	-70.37
4629	5/18/2021	20	12	56.25	Yes	-15	-71.25
4630	5/18/2021	21	1	52.32	Yes	-15	-67.32
4631	5/18/2021	21	2	52.26	Yes	-15	-67.26
4632	5/18/2021	21	3	50.48	Yes	-15	-65.48

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4633	5/18/2021	21	4	52.06	Yes	-15	-67.06
4634	5/18/2021	21	5	52.06	Yes	-15	-67.06
4635	5/18/2021	21	6	52.06	Yes	-15	-67.06
4636	5/18/2021	21	7	56.88	Yes	-15	-71.88
4637	5/18/2021	21	8	51.64	Yes	-15	-66.64
4638	5/18/2021	21	9	49.69	Yes	-15	-64.69
4639	5/18/2021	21	10	50.27	Yes	-15	-65.27
4640	5/18/2021	21	11	49.59	Yes	-15	-64.59
4641	5/18/2021	21	12	52.96	Yes	-15	-67.96
4642	5/18/2021	22	1	149.97	Yes	1	-148.97
4643	5/18/2021	22	2	80.34	Yes	1	-79.34
4644	5/18/2021	22	3	67.77	Yes	1	-66.77
4645	5/18/2021	22	4	69.87	Yes	1	-68.87
4646	5/18/2021	22	5	61.06	Yes	1	-60.06
4647	5/18/2021	22	6	58.12	Yes	1	-57.12
4648	5/18/2021	22	7	71.48	Yes	1	-70.48
4649	5/18/2021	22	8	66.20	Yes	1	-65.20
4650	5/18/2021	22	9	58.38	Yes	1	-57.38
4651	5/18/2021	22	10	48.58	Yes	1	-47.58
4652	5/18/2021	22	11	48.67	Yes	1	-47.67
4653	5/18/2021	22	12	50.79	Yes	1	-49.79
4654	5/18/2021	23	1	52.22	Yes	-15	-67.22
4655	5/18/2021	23	2	52.63	Yes	-15	-67.63
4656	5/18/2021	23	3	52.77	Yes	-15	-67.77
4657	5/18/2021	23	4	53.83	Yes	-15	-68.83
4658	5/18/2021	23	5	51.73	Yes	-15	-66.73
4659	5/18/2021	23	6	47.14	Yes	-15	-62.14
4660	5/18/2021	23	7	46.60	Yes	-15	-61.60
4661	5/18/2021	23	8	44.63	Yes	-15	-59.63
4662	5/18/2021	23	9	43.78	Yes	-15	-58.78
4663	5/18/2021	23	10	42.27	Yes	-15	-57.27
4664	5/18/2021	23	11	42.16	Yes	-15	-57.16
4665	5/18/2021	23	12	42.16	Yes	-15	-57.16
4666	5/18/2021	24	1	45.67	Yes	-15	-60.67
4667	5/18/2021	24	2	45.67	Yes	-15	-60.67
4668	5/18/2021	24	3	44.86	Yes	-15	-59.86
4669	5/18/2021	24	4	42.88	Yes	-15	-57.88
4670	5/18/2021	24	5	40.48	Yes	-15	-55.48

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4671	5/18/2021	24	6	39.54	Yes	-15	-54.54
4672	5/18/2021	24	7	40.24	Yes	-15	-55.24
4673	5/18/2021	24	8	39.38	Yes	-15	-54.38
4674	5/18/2021	24	9	40.52	Yes	-15	-55.52
4675	5/18/2021	24	10	39.08	Yes	-15	-54.08
4676	5/18/2021	24	11	41.09	Yes	-15	-56.09
4677	5/18/2021	24	12	45.95	Yes	-15	-60.95
4678	5/19/2021	1	1	47.11	Yes	-15	-62.11
4679	5/19/2021	1	2	51.71	Yes	-15	-66.71
4680	5/19/2021	1	3	51.04	Yes	-15	-66.04
4681	5/19/2021	1	4	50.98	Yes	-15	-65.98
4682	5/19/2021	1	5	51.62	Yes	-15	-66.62
4683	5/19/2021	1	6	51.62	Yes	-15	-66.62
4684	5/19/2021	1	7	50.94	Yes	-15	-65.94
4685	5/19/2021	1	8	42.91	Yes	-15	-57.91
4686	5/19/2021	1	9	41.65	Yes	-15	-56.65
4687	5/19/2021	1	10	41.08	Yes	-15	-56.08
4688	5/19/2021	1	11	40.99	Yes	-15	-55.99
4689	5/19/2021	1	12	38.73	Yes	-15	-53.73
4690	5/19/2021	2	1	52.57	Yes	-15	-67.57
4691	5/19/2021	2	2	65.19	Yes	-15	-80.19
4692	5/19/2021	2	3	52.95	Yes	-15	-67.95
4693	5/19/2021	2	4	53.04	Yes	-15	-68.04
4694	5/19/2021	2	5	52.99	Yes	-15	-67.99
4695	5/19/2021	2	6	51.16	Yes	-15	-66.16
4696	5/19/2021	2	7	53.85	Yes	-15	-68.85
4697	5/19/2021	2	8	51.96	Yes	-15	-66.96
4698	5/19/2021	2	9	48.36	Yes	-15	-63.36
4699	5/19/2021	2	10	45.15	Yes	-15	-60.15
4700	5/19/2021	2	11	45.15	Yes	-15	-60.15
4701	5/19/2021	2	12	41.58	Yes	-15	-56.58
4702	5/19/2021	3	1	48.36	Yes	-15	-63.36
4703	5/19/2021	3	2	45.11	Yes	-15	-60.11
4704	5/19/2021	3	3	41.72	Yes	-15	-56.72
4705	5/19/2021	3	4	45.44	Yes	-15	-60.44
4706	5/19/2021	3	5	48.37	Yes	-15	-63.37
4707	5/19/2021	3	6	34.89	Yes	-15	-49.89
4708	5/19/2021	3	7	36.35	Yes	-15	-51.35

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4709	5/19/2021	3	8	37.90	Yes	-15	-52.90
4710	5/19/2021	3	9	34.88	Yes	-15	-49.88
4711	5/19/2021	3	10	35.33	Yes	-15	-50.33
4712	5/19/2021	3	11	34.82	Yes	-15	-49.82
4713	5/19/2021	3	12	34.42	Yes	-15	-49.42
4714	5/19/2021	4	1	35.12	Yes	-15	-50.12
4715	5/19/2021	4	2	34.53	Yes	-15	-49.53
4716	5/19/2021	4	3	34.41	Yes	-15	-49.41
4717	5/19/2021	4	4	34.40	Yes	-15	-49.40
4718	5/19/2021	4	5	34.35	Yes	-15	-49.35
4719	5/19/2021	4	6	34.39	Yes	-15	-49.39
4720	5/19/2021	4	7	33.36	Yes	-15	-48.36
4721	5/19/2021	4	8	33.36	Yes	-15	-48.36
4722	5/19/2021	4	9	33.36	Yes	-15	-48.36
4723	5/19/2021	4	10	42.79	Yes	-15	-57.79
4724	5/19/2021	4	11	42.00	Yes	-15	-57.00
4725	5/19/2021	4	12	41.63	Yes	-15	-56.63
4726	5/19/2021	5	1	43.42	Yes	-15	-58.42
4727	5/19/2021	5	2	44.07	Yes	-15	-59.07
4728	5/19/2021	5	3	43.57	Yes	-15	-58.57
4729	5/19/2021	5	4	51.97	Yes	-15	-66.97
4730	5/19/2021	5	5	54.27	Yes	-15	-69.27
4731	5/19/2021	5	6	51.35	Yes	-15	-66.35
4732	5/19/2021	5	7	55.96	Yes	-15	-70.96
4733	5/19/2021	5	8	65.10	Yes	-15	-80.10
4734	5/19/2021	5	9	87.76	Yes	-15	-102.76
4735	5/19/2021	5	10	90.08	Yes	-15	-105.08
4736	5/19/2021	5	11	70.71	Yes	-15	-85.71
4737	5/19/2021	5	12	76.53	Yes	-15	-91.53
4738	5/19/2021	6	1	47.73	Yes	-15	-62.73
4739	5/19/2021	6	2	48.83	Yes	-15	-63.83
4740	5/19/2021	6	3	44.82	Yes	-15	-59.82
4741	5/19/2021	6	4	44.86	Yes	-15	-59.86
4742	5/19/2021	6	5	44.86	Yes	-15	-59.86
4743	5/19/2021	6	6	43.59	Yes	-15	-58.59
4744	5/19/2021	6	7	43.55	Yes	-15	-58.55
4745	5/19/2021	6	8	44.65	Yes	-15	-59.65
4746	5/19/2021	6	9	44.06	Yes	-15	-59.06

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4747	5/19/2021	6	10	44.83	Yes	-15	-59.83
4748	5/19/2021	6	11	43.26	Yes	-15	-58.26
4749	5/19/2021	6	12	41.01	Yes	-15	-56.01
4750	5/19/2021	7	1	39.81	Yes	-15	-54.81
4751	5/19/2021	7	2	36.83	Yes	-15	-51.83
4752	5/19/2021	7	3	36.05	Yes	-15	-51.05
4753	5/19/2021	7	4	34.46	Yes	-15	-49.46
4754	5/19/2021	7	5	34.22	Yes	-15	-49.22
4755	5/19/2021	7	6	33.74	Yes	-15	-48.74
4756	5/19/2021	7	7	31.96	Yes	-15	-46.96
4757	5/19/2021	7	8	32.69	Yes	-15	-47.69
4758	5/19/2021	7	9	32.65	Yes	-15	-47.65
4759	5/19/2021	7	10	28.73	Yes	-15	-43.73
4760	5/19/2021	7	11	34.28	Yes	-15	-49.28
4761	5/19/2021	7	12	39.53	Yes	-15	-54.53
4762	5/19/2021	8	1	115.63	Yes	-15	-130.63
4763	5/19/2021	8	2	105.53	Yes	-15	-120.53
4764	5/19/2021	8	3	106.42	Yes	-15	-121.42
4765	5/19/2021	8	4	28.19	Yes	-15	-43.19
4766	5/19/2021	8	5	31.39	Yes	-15	-46.39
4767	5/19/2021	8	6	32.49	Yes	-15	-47.49
4768	5/19/2021	8	7	32.61	Yes	-15	-47.61
4769	5/19/2021	8	8	30.49	Yes	-15	-45.49
4770	5/19/2021	8	9	26.60	Yes	-15	-41.60
4771	5/19/2021	8	10	17.60	Yes	-15	-32.60
4772	5/19/2021	8	11	9.48	Yes	-15	-24.48
4773	5/19/2021	8	12	19.81	Yes	-15	-34.81
4774	5/19/2021	9	1	29.58	Yes	-15	-44.58
4775	5/19/2021	9	2	30.00	Yes	-15	-45.00
4776	5/19/2021	9	3	32.62	Yes	-15	-47.62
4777	5/19/2021	9	4	27.06	Yes	-15	-42.06
4778	5/19/2021	9	5	27.30	Yes	-15	-42.30
4779	5/19/2021	9	6	27.51	Yes	-15	-42.51
4780	5/19/2021	9	7	27.48	Yes	-15	-42.48
4781	5/19/2021	9	8	27.16	Yes	-15	-42.16
4782	5/19/2021	9	9	26.47	Yes	-15	-41.47
4783	5/19/2021	9	10	25.13	Yes	-15	-40.13
4784	5/19/2021	9	11	24.97	Yes	-15	-39.97

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4785	5/19/2021	9	12	24.06	Yes	-15	-39.06
4786	5/19/2021	10	1	23.30	Yes	-15	-38.30
4787	5/19/2021	10	2	22.78	Yes	-15	-37.78
4788	5/19/2021	10	3	22.86	Yes	-15	-37.86
4789	5/19/2021	10	4	23.25	Yes	-15	-38.25
4790	5/19/2021	10	5	25.78	Yes	-15	-40.78
4791	5/19/2021	10	6	26.32	Yes	-15	-41.32
4792	5/19/2021	10	7	24.60	Yes	-15	-39.60
4793	5/19/2021	10	8	24.45	Yes	-15	-39.45
4794	5/19/2021	10	9	21.25	Yes	-15	-36.25
4795	5/19/2021	10	10	21.52	Yes	-15	-36.52
4796	5/19/2021	10	11	21.75	Yes	-15	-36.75
4797	5/19/2021	10	12	22.35	Yes	-15	-37.35
4798	5/19/2021	11	1	22.34	Yes	-15	-37.34
4799	5/19/2021	11	2	21.85	Yes	-15	-36.85
4800	5/19/2021	11	3	22.89	Yes	-15	-37.89
4801	5/19/2021	11	4	22.91	Yes	-15	-37.91
4802	5/19/2021	11	5	21.09	Yes	-15	-36.09
4803	5/19/2021	11	6	19.89	Yes	-15	-34.89
4804	5/19/2021	11	7	20.54	Yes	-15	-35.54
4805	5/19/2021	11	8	20.86	Yes	-15	-35.86
4806	5/19/2021	11	9	21.35	Yes	-15	-36.35
4807	5/19/2021	11	10	21.17	Yes	-15	-36.17
4808	5/19/2021	11	11	19.46	Yes	-15	-34.46
4809	5/19/2021	11	12	18.37	Yes	-15	-33.37
4810	5/19/2021	12	1	17.64	Yes	-15	-32.64
4811	5/19/2021	12	2	18.73	Yes	-15	-33.73
4812	5/19/2021	12	3	18.55	Yes	-15	-33.55
4813	5/19/2021	12	4	17.03	Yes	-15	-32.03
4814	5/19/2021	12	5	17.03	Yes	-15	-32.03
4815	5/19/2021	12	6	18.32	Yes	-15	-33.32
4816	5/19/2021	12	7	18.23	Yes	-15	-33.23
4817	5/19/2021	12	8	17.47	Yes	-15	-32.47
4818	5/19/2021	12	9	17.47	Yes	-15	-32.47
4819	5/19/2021	12	10	18.05	Yes	-15	-33.05
4820	5/19/2021	12	11	18.60	Yes	-15	-33.60
4821	5/19/2021	12	12	16.60	Yes	-15	-31.60
4822	5/19/2021	13	1	20.01	Yes	-15	-35.01

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4823	5/19/2021	13	2	20.02	Yes	-15	-35.02
4824	5/19/2021	13	3	19.81	Yes	-15	-34.81
4825	5/19/2021	13	4	20.12	Yes	-15	-35.12
4826	5/19/2021	13	5	20.12	Yes	-15	-35.12
4827	5/19/2021	13	6	20.12	Yes	-15	-35.12
4828	5/19/2021	13	7	20.96	Yes	-15	-35.96
4829	5/19/2021	13	8	21.43	Yes	-15	-36.43
4830	5/19/2021	13	9	22.85	Yes	-15	-37.85
4831	5/19/2021	13	10	21.46	Yes	-15	-36.46
4832	5/19/2021	13	11	20.74	Yes	-15	-35.74
4833	5/19/2021	13	12	20.87	Yes	-15	-35.87
4834	5/19/2021	14	1	20.17	Yes	-15	-35.17
4835	5/19/2021	14	2	20.16	Yes	-15	-35.16
4836	5/19/2021	14	3	20.02	Yes	-15	-35.02
4837	5/19/2021	14	4	19.01	Yes	-15	-34.01
4838	5/19/2021	14	5	18.88	Yes	-15	-33.88
4839	5/19/2021	14	6	20.08	Yes	-15	-35.08
4840	5/19/2021	14	7	19.17	Yes	-15	-34.17
4841	5/19/2021	14	8	19.25	Yes	-15	-34.25
4842	5/19/2021	14	9	19.31	Yes	-15	-34.31
4843	5/19/2021	14	10	19.31	Yes	-15	-34.31
4844	5/19/2021	14	11	20.27	Yes	-15	-35.27
4845	5/19/2021	14	12	19.53	Yes	-15	-34.53
4846	5/19/2021	15	1	19.07	Yes	-15	-34.07
4847	5/19/2021	15	2	19.28	Yes	-15	-34.28
4848	5/19/2021	15	3	19.37	Yes	-15	-34.37
4849	5/19/2021	15	4	19.76	Yes	-15	-34.76
4850	5/19/2021	15	5	21.27	Yes	-15	-36.27
4851	5/19/2021	15	6	21.27	Yes	-15	-36.27
4852	5/19/2021	15	7	21.27	Yes	-15	-36.27
4853	5/19/2021	15	8	21.27	Yes	-15	-36.27
4854	5/19/2021	15	9	21.27	Yes	-15	-36.27
4855	5/19/2021	15	10	21.27	Yes	-15	-36.27
4856	5/19/2021	15	11	25.57	Yes	-15	-40.57
4857	5/19/2021	15	12	23.37	Yes	-15	-38.37
4858	5/19/2021	16	1	20.59	Yes	-15	-35.59
4859	5/19/2021	16	2	20.84	Yes	-15	-35.84
4860	5/19/2021	16	3	21.59	Yes	-15	-36.59

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4861	5/19/2021	16	4	21.65	Yes	-15	-36.65
4862	5/19/2021	16	5	21.18	Yes	-15	-36.18
4863	5/19/2021	16	6	21.37	Yes	-15	-36.37
4864	5/19/2021	16	7	21.23	Yes	-15	-36.23
4865	5/19/2021	16	8	21.63	Yes	-15	-36.63
4866	5/19/2021	16	9	24.83	Yes	-15	-39.83
4867	5/19/2021	16	10	23.51	Yes	-15	-38.51
4868	5/19/2021	16	11	23.42	Yes	-15	-38.42
4869	5/19/2021	16	12	20.33	Yes	-15	-35.33
4870	5/19/2021	17	1	12.94	Yes	-15	-27.94
4871	5/19/2021	17	2	16.78	Yes	-15	-31.78
4872	5/19/2021	17	3	14.60	Yes	-15	-29.60
4873	5/19/2021	17	4	19.04	Yes	-15	-34.04
4874	5/19/2021	17	5	19.06	Yes	-15	-34.06
4875	5/19/2021	17	6	20.03	Yes	-15	-35.03
4876	5/19/2021	17	7	19.94	Yes	-15	-34.94
4877	5/19/2021	17	8	20.09	Yes	-15	-35.09
4878	5/19/2021	17	9	20.87	Yes	-15	-35.87
4879	5/19/2021	17	10	24.19	Yes	-15	-39.19
4880	5/19/2021	17	11	24.51	Yes	-15	-39.51
4881	5/19/2021	17	12	19.99	Yes	-15	-34.99
4882	5/19/2021	18	1	19.50	Yes	-15	-34.50
4883	5/19/2021	18	2	21.14	Yes	-15	-36.14
4884	5/19/2021	18	3	21.55	Yes	-15	-36.55
4885	5/19/2021	18	4	21.58	Yes	-15	-36.58
4886	5/19/2021	18	5	24.45	Yes	-15	-39.45
4887	5/19/2021	18	6	26.60	Yes	-15	-41.60
4888	5/19/2021	18	7	25.35	Yes	-15	-40.35
4889	5/19/2021	18	8	26.11	Yes	-15	-41.11
4890	5/19/2021	18	9	28.03	Yes	-15	-43.03
4891	5/19/2021	18	10	29.79	Yes	-15	-44.79
4892	5/19/2021	18	11	30.95	Yes	-15	-45.95
4893	5/19/2021	18	12	32.25	Yes	-15	-47.25
4894	5/19/2021	19	1	24.39	Yes	-15	-39.39
4895	5/19/2021	19	2	24.28	Yes	-15	-39.28
4896	5/19/2021	19	3	25.92	Yes	-15	-40.92
4897	5/19/2021	19	4	26.25	Yes	-15	-41.25
4898	5/19/2021	19	5	27.38	Yes	-15	-42.38

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4899	5/19/2021	19	6	30.26	Yes	-15	-45.26
4900	5/19/2021	19	7	35.87	Yes	-15	-50.87
4901	5/19/2021	19	8	41.25	Yes	-15	-56.25
4902	5/19/2021	19	9	44.61	Yes	-15	-59.61
4903	5/19/2021	19	10	40.04	Yes	-15	-55.04
4904	5/19/2021	19	11	40.83	Yes	-15	-55.83
4905	5/19/2021	19	12	42.60	Yes	-15	-57.60
4906	5/19/2021	20	1	37.93	Yes	-15	-52.93
4907	5/19/2021	20	2	35.94	Yes	-15	-50.94
4908	5/19/2021	20	3	43.11	Yes	-15	-58.11
4909	5/19/2021	20	4	38.40	Yes	-15	-53.40
4910	5/19/2021	20	5	41.98	Yes	-15	-56.98
4911	5/19/2021	20	6	42.23	Yes	-15	-57.23
4912	5/19/2021	20	7	42.22	Yes	-15	-57.22
4913	5/19/2021	20	8	42.98	Yes	-15	-57.98
4914	5/19/2021	20	9	44.96	Yes	-15	-59.96
4915	5/19/2021	20	10	45.53	Yes	-15	-60.53
4916	5/19/2021	20	11	45.46	Yes	-15	-60.46
4917	5/19/2021	20	12	45.49	Yes	-15	-60.49
4918	5/19/2021	21	5	48.60	Yes	-15	-63.60
4919	5/19/2021	21	6	50.11	Yes	-15	-65.11
4920	5/19/2021	21	7	54.23	Yes	-15	-69.23
4921	5/19/2021	21	8	50.21	Yes	-15	-65.21
4922	5/19/2021	21	9	48.84	Yes	-15	-63.84
4923	5/19/2021	21	10	51.88	Yes	-15	-66.88
4924	5/19/2021	21	11	54.38	Yes	-15	-69.38
4925	5/19/2021	21	12	55.55	Yes	-15	-70.55
4926	5/19/2021	22	1	57.77	Yes	-15	-72.77
4927	5/19/2021	22	2	53.84	Yes	-15	-68.84
4928	5/19/2021	22	3	51.28	Yes	-15	-66.28
4929	5/19/2021	22	4	48.80	Yes	-15	-63.80
4930	5/19/2021	22	5	47.31	Yes	-15	-62.31
4931	5/19/2021	22	6	46.94	Yes	-15	-61.94
4932	5/19/2021	22	7	47.30	Yes	-15	-62.30
4933	5/19/2021	22	8	46.47	Yes	-15	-61.47
4934	5/19/2021	22	9	44.48	Yes	-15	-59.48
4935	5/19/2021	22	10	42.25	Yes	-15	-57.25
4936	5/19/2021	22	11	42.19	Yes	-15	-57.19

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4937	5/19/2021	22	12	42.25	Yes	-15	-57.25
4938	5/19/2021	23	1	47.46	Yes	-15	-62.46
4939	5/19/2021	23	2	49.75	Yes	-15	-64.75
4940	5/19/2021	23	3	93.23	Yes	-15	-108.23
4941	5/19/2021	23	4	76.40	Yes	-15	-91.40
4942	5/19/2021	23	5	62.55	Yes	-15	-77.55
4943	5/19/2021	23	6	64.77	Yes	-15	-79.77
4944	5/19/2021	23	7	54.91	Yes	-15	-69.91
4945	5/19/2021	23	8	49.86	Yes	-15	-64.86
4946	5/19/2021	23	9	41.66	Yes	-15	-56.66
4947	5/19/2021	23	10	40.98	Yes	-15	-55.98
4948	5/19/2021	23	11	42.07	Yes	-15	-57.07
4949	5/19/2021	23	12	36.74	Yes	-15	-51.74
4950	5/19/2021	24	1	42.16	Yes	-15	-57.16
4951	5/19/2021	24	2	45.92	Yes	-15	-60.92
4952	5/19/2021	24	3	50.74	Yes	-15	-65.74
4953	5/19/2021	24	4	49.24	Yes	-15	-64.24
4954	5/19/2021	24	5	43.58	Yes	-15	-58.58
4955	5/19/2021	24	6	37.24	Yes	-15	-52.24
4956	5/19/2021	24	7	35.74	Yes	-15	-50.74
4957	5/19/2021	24	8	35.19	Yes	-15	-50.19
4958	5/19/2021	24	9	33.44	Yes	-15	-48.44
4959	5/19/2021	24	10	31.75	Yes	-15	-46.75
4960	5/19/2021	24	11	30.70	Yes	-15	-45.70
4961	5/19/2021	24	12	29.57	Yes	-15	-44.57
4962	5/20/2021	1	1	34.93	Yes	-15	-49.93
4963	5/20/2021	1	2	33.99	Yes	-15	-48.99
4964	5/20/2021	1	3	32.64	Yes	-15	-47.64
4965	5/20/2021	1	4	30.16	Yes	-15	-45.16
4966	5/20/2021	1	5	28.18	Yes	-15	-43.18
4967	5/20/2021	1	6	27.85	Yes	-15	-42.85
4968	5/20/2021	1	7	27.52	Yes	-15	-42.52
4969	5/20/2021	1	8	27.75	Yes	-15	-42.75
4970	5/20/2021	1	9	29.64	Yes	-15	-44.64
4971	5/20/2021	1	10	28.86	Yes	-15	-43.86
4972	5/20/2021	1	11	27.56	Yes	-15	-42.56
4973	5/20/2021	1	12	27.56	Yes	-15	-42.56
4974	5/20/2021	2	1	29.30	Yes	-15	-44.30

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4975	5/20/2021	2	2	29.30	Yes	-15	-44.30
4976	5/20/2021	2	3	29.30	Yes	-15	-44.30
4977	5/20/2021	2	4	29.23	Yes	-15	-44.23
4978	5/20/2021	2	5	28.67	Yes	-15	-43.67
4979	5/20/2021	2	6	27.93	Yes	-15	-42.93
4980	5/20/2021	2	7	27.73	Yes	-15	-42.73
4981	5/20/2021	2	8	27.71	Yes	-15	-42.71
4982	5/20/2021	2	9	26.86	Yes	-15	-41.86
4983	5/20/2021	2	10	26.81	Yes	-15	-41.81
4984	5/20/2021	2	11	27.44	Yes	-15	-42.44
4985	5/20/2021	2	12	27.44	Yes	-15	-42.44
4986	5/20/2021	3	1	27.85	Yes	-15	-42.85
4987	5/20/2021	3	2	27.72	Yes	-15	-42.72
4988	5/20/2021	3	3	27.08	Yes	-15	-42.08
4989	5/20/2021	3	4	26.96	Yes	-15	-41.96
4990	5/20/2021	3	5	26.96	Yes	-15	-41.96
4991	5/20/2021	3	6	27.09	Yes	-15	-42.09
4992	5/20/2021	3	7	26.88	Yes	-15	-41.88
4993	5/20/2021	3	8	26.24	Yes	-15	-41.24
4994	5/20/2021	3	9	25.71	Yes	-15	-40.71
4995	5/20/2021	3	10	25.38	Yes	-15	-40.38
4996	5/20/2021	3	11	25.38	Yes	-15	-40.38
4997	5/20/2021	3	12	25.38	Yes	-15	-40.38
4998	5/20/2021	4	1	25.79	Yes	-15	-40.79
4999	5/20/2021	4	2	26.37	Yes	-15	-41.37
5000	5/20/2021	4	3	26.59	Yes	-15	-41.59
5001	5/20/2021	4	4	26.58	Yes	-15	-41.58
5002	5/20/2021	4	5	27.22	Yes	-15	-42.22
5003	5/20/2021	4	6	27.32	Yes	-15	-42.32
5004	5/20/2021	4	7	27.29	Yes	-15	-42.29
5005	5/20/2021	4	8	27.29	Yes	-15	-42.29
5006	5/20/2021	4	9	27.23	Yes	-15	-42.23
5007	5/20/2021	4	10	26.56	Yes	-15	-41.56
5008	5/20/2021	4	11	26.56	Yes	-15	-41.56
5009	5/20/2021	4	12	27.12	Yes	-15	-42.12
5010	5/20/2021	5	1	27.53	Yes	-15	-42.53
5011	5/20/2021	5	2	27.48	Yes	-15	-42.48
5012	5/20/2021	5	3	27.53	Yes	-15	-42.53

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5013	5/20/2021	5	4	27.67	Yes	-15	-42.67
5014	5/20/2021	5	5	28.35	Yes	-15	-43.35
5015	5/20/2021	5	6	28.74	Yes	-15	-43.74
5016	5/20/2021	5	7	29.92	Yes	-15	-44.92
5017	5/20/2021	5	8	29.92	Yes	-15	-44.92
5018	5/20/2021	5	9	29.92	Yes	-15	-44.92
5019	5/20/2021	5	10	30.24	Yes	-15	-45.24
5020	5/20/2021	5	11	30.05	Yes	-15	-45.05
5021	5/20/2021	5	12	30.24	Yes	-15	-45.24
5022	5/20/2021	6	1	30.40	Yes	-15	-45.40
5023	5/20/2021	6	2	29.72	Yes	-15	-44.72
5024	5/20/2021	6	3	29.65	Yes	-15	-44.65
5025	5/20/2021	6	4	30.51	Yes	-15	-45.51
5026	5/20/2021	6	5	31.01	Yes	-15	-46.01
5027	5/20/2021	6	6	32.19	Yes	-15	-47.19
5028	5/20/2021	6	7	32.61	Yes	-15	-47.61
5029	5/20/2021	6	8	32.96	Yes	-15	-47.96
5030	5/20/2021	6	9	32.88	Yes	-15	-47.88
5031	5/20/2021	6	10	33.44	Yes	-15	-48.44
5032	5/20/2021	6	11	34.32	Yes	-15	-49.32
5033	5/20/2021	6	12	34.92	Yes	-15	-49.92
5034	5/20/2021	7	1	33.71	Yes	-15	-48.71
5035	5/20/2021	7	2	34.76	Yes	-15	-49.76
5036	5/20/2021	7	3	33.87	Yes	-15	-48.87
5037	5/20/2021	7	4	34.51	Yes	-15	-49.51
5038	5/20/2021	7	5	33.18	Yes	-15	-48.18
5039	5/20/2021	7	6	31.31	Yes	-15	-46.31
5040	5/20/2021	7	7	31.00	Yes	-15	-46.00
5041	5/20/2021	7	8	29.71	Yes	-15	-44.71
5042	5/20/2021	7	9	31.13	Yes	-15	-46.13
5043	5/20/2021	7	10	34.61	Yes	-15	-49.61
5044	5/20/2021	7	11	32.28	Yes	-15	-47.28
5045	5/20/2021	7	12	32.48	Yes	-15	-47.48
5046	5/20/2021	8	1	31.88	Yes	-15	-46.88
5047	5/20/2021	8	2	33.45	Yes	-15	-48.45
5048	5/20/2021	8	3	34.83	Yes	-15	-49.83
5049	5/20/2021	8	4	29.31	Yes	-15	-44.31
5050	5/20/2021	8	5	26.34	Yes	-15	-41.34

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5051	5/20/2021	8	6	27.34	Yes	-15	-42.34
5052	5/20/2021	8	7	27.76	Yes	-15	-42.76
5053	5/20/2021	8	8	28.78	Yes	-15	-43.78
5054	5/20/2021	8	9	27.95	Yes	-15	-42.95
5055	5/20/2021	8	10	27.81	Yes	-15	-42.81
5056	5/20/2021	8	11	27.53	Yes	-15	-42.53
5057	5/20/2021	8	12	24.85	Yes	-15	-39.85
5058	5/20/2021	9	1	27.33	Yes	-15	-42.33
5059	5/20/2021	9	2	27.61	Yes	-15	-42.61
5060	5/20/2021	9	3	26.61	Yes	-15	-41.61
5061	5/20/2021	9	4	25.95	Yes	-15	-40.95
5062	5/20/2021	9	5	26.12	Yes	-15	-41.12
5063	5/20/2021	9	6	26.71	Yes	-15	-41.71
5064	5/20/2021	9	7	23.27	Yes	-15	-38.27
5065	5/20/2021	9	8	24.23	Yes	-15	-39.23
5066	5/20/2021	9	9	25.67	Yes	-15	-40.67
5067	5/20/2021	9	10	26.09	Yes	-15	-41.09
5068	5/20/2021	9	11	26.13	Yes	-15	-41.13
5069	5/20/2021	9	12	25.58	Yes	-15	-40.58
5070	5/20/2021	10	1	23.41	Yes	-15	-38.41
5071	5/20/2021	10	2	23.92	Yes	-15	-38.92
5072	5/20/2021	10	3	24.12	Yes	-15	-39.12
5073	5/20/2021	10	4	24.00	Yes	-15	-39.00
5074	5/20/2021	10	5	24.05	Yes	-15	-39.05
5075	5/20/2021	10	6	24.12	Yes	-15	-39.12
5076	5/20/2021	10	7	22.06	Yes	-15	-37.06
5077	5/20/2021	10	8	23.12	Yes	-15	-38.12
5078	5/20/2021	10	9	22.69	Yes	-15	-37.69
5079	5/20/2021	10	10	23.70	Yes	-15	-38.70
5080	5/20/2021	10	11	23.82	Yes	-15	-38.82
5081	5/20/2021	10	12	25.12	Yes	-15	-40.12
5082	5/20/2021	11	1	31.54	Yes	-15	-46.54
5083	5/20/2021	11	2	27.57	Yes	-15	-42.57
5084	5/20/2021	11	3	28.04	Yes	-15	-43.04
5085	5/20/2021	11	4	34.82	Yes	-15	-49.82
5086	5/20/2021	11	5	38.04	Yes	-15	-53.04
5087	5/20/2021	11	6	37.96	Yes	-15	-52.96
5088	5/20/2021	11	7	31.81	Yes	-15	-46.81

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5089	5/20/2021	11	8	38.01	Yes	-15	-53.01
5090	5/20/2021	11	9	37.76	Yes	-15	-52.76
5091	5/20/2021	11	10	29.76	Yes	-15	-44.76
5092	5/20/2021	11	11	29.76	Yes	-15	-44.76
5093	5/20/2021	11	12	30.06	Yes	-15	-45.06
5094	5/20/2021	12	1	28.17	Yes	-15	-43.17
5095	5/20/2021	12	2	26.15	Yes	-15	-41.15
5096	5/20/2021	12	3	23.85	Yes	-15	-38.85
5097	5/20/2021	12	4	31.01	Yes	-15	-46.01
5098	5/20/2021	12	5	34.43	Yes	-15	-49.43
5099	5/20/2021	12	6	41.53	Yes	-15	-56.53
5100	5/20/2021	12	7	38.27	Yes	-15	-53.27
5101	5/20/2021	12	8	34.48	Yes	-15	-49.48
5102	5/20/2021	12	9	31.08	Yes	-15	-46.08
5103	5/20/2021	12	10	34.32	Yes	-15	-49.32
5104	5/20/2021	12	11	34.26	Yes	-15	-49.26
5105	5/20/2021	12	12	29.78	Yes	-15	-44.78
5106	5/20/2021	13	1	41.22	Yes	-15	-56.22
5107	5/20/2021	13	2	36.48	Yes	-15	-51.48
5108	5/20/2021	13	3	36.25	Yes	-15	-51.25
5109	5/20/2021	13	4	31.68	Yes	-15	-46.68
5110	5/20/2021	13	5	33.45	Yes	-15	-48.45
5111	5/20/2021	13	6	30.90	Yes	-15	-45.90
5112	5/20/2021	13	7	34.38	Yes	-15	-49.38
5113	5/20/2021	13	8	34.40	Yes	-15	-49.40
5114	5/20/2021	13	9	34.39	Yes	-15	-49.39
5115	5/20/2021	13	10	36.39	Yes	-15	-51.39
5116	5/20/2021	13	11	36.40	Yes	-15	-51.40
5117	5/20/2021	13	12	36.43	Yes	-15	-51.43
5118	5/20/2021	14	1	22.37	Yes	-15	-37.37
5119	5/20/2021	14	2	20.07	Yes	-15	-35.07
5120	5/20/2021	14	3	20.19	Yes	-15	-35.19
5121	5/20/2021	14	4	16.96	Yes	-15	-31.96
5122	5/20/2021	14	5	19.05	Yes	-15	-34.05
5123	5/20/2021	14	6	19.55	Yes	-15	-34.55
5124	5/20/2021	14	7	22.07	Yes	-15	-37.07
5125	5/20/2021	14	8	21.19	Yes	-15	-36.19
5126	5/20/2021	14	9	20.88	Yes	-15	-35.88

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5127	5/20/2021	14	10	21.00	Yes	-15	-36.00
5128	5/20/2021	14	11	21.28	Yes	-15	-36.28
5129	5/20/2021	14	12	23.15	Yes	-15	-38.15
5130	5/20/2021	15	1	18.92	Yes	-15	-33.92
5131	5/20/2021	15	2	21.00	Yes	-15	-36.00
5132	5/20/2021	15	3	24.54	Yes	-15	-39.54
5133	5/20/2021	15	4	20.04	Yes	-15	-35.04
5134	5/20/2021	15	5	21.85	Yes	-15	-36.85
5135	5/20/2021	15	6	22.92	Yes	-15	-37.92
5136	5/20/2021	15	7	30.64	Yes	-15	-45.64
5137	5/20/2021	15	8	28.43	Yes	-15	-43.43
5138	5/20/2021	15	9	31.10	Yes	-15	-46.10
5139	5/20/2021	15	10	26.48	Yes	-15	-41.48
5140	5/20/2021	15	11	31.94	Yes	-15	-46.94
5141	5/20/2021	15	12	31.97	Yes	-15	-46.97
5142	5/20/2021	16	1	27.01	Yes	-15	-42.01
5143	5/20/2021	16	2	26.01	Yes	-15	-41.01
5144	5/20/2021	16	3	30.08	Yes	-15	-45.08
5145	5/20/2021	16	4	28.53	Yes	-15	-43.53
5146	5/20/2021	16	5	31.84	Yes	-15	-46.84
5147	5/20/2021	16	6	33.03	Yes	-15	-48.03
5148	5/20/2021	16	7	33.03	Yes	-15	-48.03
5149	5/20/2021	16	8	33.03	Yes	-15	-48.03
5150	5/20/2021	16	9	31.59	Yes	-15	-46.59
5151	5/20/2021	16	10	31.71	Yes	-15	-46.71
5152	5/20/2021	16	11	31.02	Yes	-15	-46.02
5153	5/20/2021	16	12	30.10	Yes	-15	-45.10
5154	5/20/2021	17	1	25.12	Yes	-15	-40.12
5155	5/20/2021	17	2	23.13	Yes	-15	-38.13
5156	5/20/2021	17	3	23.51	Yes	-15	-38.51
5157	5/20/2021	17	4	23.28	Yes	-15	-38.28
5158	5/20/2021	17	5	25.01	Yes	-15	-40.01
5159	5/20/2021	17	6	26.96	Yes	-15	-41.96
5160	5/20/2021	17	7	26.55	Yes	-15	-41.55
5161	5/20/2021	17	8	28.48	Yes	-15	-43.48
5162	5/20/2021	17	9	25.32	Yes	-15	-40.32
5163	5/20/2021	17	10	26.38	Yes	-15	-41.38
5164	5/20/2021	17	11	24.52	Yes	-15	-39.52

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5165	5/20/2021	17	12	23.80	Yes	-15	-38.80
5166	5/20/2021	18	1	22.12	Yes	-15	-37.12
5167	5/20/2021	18	2	21.33	Yes	-15	-36.33
5168	5/20/2021	18	3	21.37	Yes	-15	-36.37
5169	5/20/2021	18	4	22.58	Yes	-15	-37.58
5170	5/20/2021	18	5	22.61	Yes	-15	-37.61
5171	5/20/2021	18	6	22.10	Yes	-15	-37.10
5172	5/20/2021	18	7	25.95	Yes	-15	-40.95
5173	5/20/2021	18	8	24.97	Yes	-15	-39.97
5174	5/20/2021	18	9	25.42	Yes	-15	-40.42
5175	5/20/2021	18	10	25.83	Yes	-15	-40.83
5176	5/20/2021	18	11	26.33	Yes	-15	-41.33
5177	5/20/2021	18	12	25.83	Yes	-15	-40.83
5178	5/20/2021	19	1	21.80	Yes	-15	-36.80
5179	5/20/2021	19	2	21.80	Yes	-15	-36.80
5180	5/20/2021	19	3	22.95	Yes	-15	-37.95
5181	5/20/2021	19	4	24.94	Yes	-15	-39.94
5182	5/20/2021	19	5	26.10	Yes	-15	-41.10
5183	5/20/2021	19	6	27.07	Yes	-15	-42.07
5184	5/20/2021	19	7	27.54	Yes	-15	-42.54
5185	5/20/2021	19	8	28.85	Yes	-15	-43.85
5186	5/20/2021	19	9	34.84	Yes	-15	-49.84
5187	5/20/2021	19	10	41.54	Yes	-15	-56.54
5188	5/20/2021	19	11	49.91	Yes	-15	-64.91
5189	5/20/2021	19	12	48.59	Yes	-15	-63.59
5190	5/20/2021	20	1	32.04	Yes	1	-31.04
5191	5/20/2021	20	2	31.25	Yes	1	-30.25
5192	5/20/2021	20	3	31.96	Yes	1	-30.96
5193	5/20/2021	20	4	35.23	Yes	1	-34.23
5194	5/20/2021	20	5	35.23	Yes	1	-34.23
5195	5/20/2021	20	6	36.57	Yes	1	-35.57
5196	5/20/2021	20	7	40.97	Yes	1	-39.97
5197	5/20/2021	20	8	43.46	Yes	1	-42.46
5198	5/20/2021	20	9	43.78	Yes	1	-42.78
5199	5/20/2021	20	10	42.60	Yes	1	-41.60
5200	5/20/2021	20	11	48.87	Yes	1	-47.87
5201	5/20/2021	20	12	46.99	Yes	1	-45.99
5202	5/20/2021	21	1	1.15	Yes	1	-0.15

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5203	5/20/2021	21	2	1.16	Yes	1	-0.16
5204	5/20/2021	21	3	1.16	Yes	1	-0.16
5205	5/20/2021	21	4	1.17	Yes	1	-0.17
5206	5/20/2021	21	5	1.17	Yes	1	-0.17
5207	5/20/2021	21	6	1.17	Yes	1	-0.17
5208	5/20/2021	21	7	43.28	Yes	1	-42.28
5209	5/20/2021	21	8	43.31	Yes	1	-42.31
5210	5/20/2021	21	9	43.49	Yes	1	-42.49
5211	5/20/2021	21	10	42.93	Yes	1	-41.93
5212	5/20/2021	21	11	47.48	Yes	1	-46.48
5213	5/20/2021	21	12	1.18	Yes	1	-0.18
5214	5/20/2021	22	1	1.28	Yes	1	-0.28
5215	5/20/2021	22	2	1.19	Yes	1	-0.19
5216	5/20/2021	22	3	1.18	Yes	1	-0.18
5217	5/20/2021	22	4	1.19	Yes	1	-0.19
5218	5/20/2021	22	5	1.19	Yes	1	-0.19
5219	5/20/2021	22	6	1.18	Yes	1	-0.18
5220	5/20/2021	22	7	1.18	Yes	1	-0.18
5221	5/20/2021	22	8	1.18	Yes	1	-0.18
5222	5/20/2021	22	9	1.17	Yes	1	-0.17
5223	5/20/2021	22	10	1.16	Yes	1	-0.16
5224	5/20/2021	22	11	1.16	Yes	1	-0.16
5225	5/20/2021	22	12	1.16	Yes	1	-0.16
5226	5/20/2021	23	1	1.15	Yes	1	-0.15
5227	5/20/2021	23	2	1.14	Yes	1	-0.14
5228	5/20/2021	23	3	1.14	Yes	1	-0.14
5229	5/20/2021	23	4	1.15	Yes	1	-0.15
5230	5/20/2021	23	5	1.15	Yes	1	-0.15
5231	5/20/2021	23	6	1.13	Yes	1	-0.13
5232	5/20/2021	23	7	1.13	Yes	1	-0.13
5233	5/20/2021	23	8	1.13	Yes	1	-0.13
5234	5/20/2021	23	9	1.13	Yes	1	-0.13
5235	5/20/2021	23	10	1.11	Yes	1	-0.11
5236	5/20/2021	23	11	1.11	Yes	1	-0.11
5237	5/20/2021	23	12	1.11	Yes	1	-0.11
5238	5/20/2021	24	1	-14.89	Yes	-15	-0.11
5239	5/20/2021	24	2	-14.90	Yes	-15	-0.10
5240	5/20/2021	24	3	-14.89	Yes	-15	-0.11

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5241	5/20/2021	24	4	-14.88	Yes	-15	-0.12
5242	5/20/2021	24	5	-14.89	Yes	-15	-0.11
5243	5/20/2021	24	6	-14.90	Yes	-15	-0.10
5244	5/20/2021	24	7	-14.89	Yes	-15	-0.11
5245	5/20/2021	24	8	-14.90	Yes	-15	-0.10
5246	5/20/2021	24	9	-14.90	Yes	-15	-0.10
5247	5/20/2021	24	10	-14.91	Yes	-15	-0.09
5248	5/20/2021	24	11	-14.92	Yes	-15	-0.08
5249	5/20/2021	24	12	-14.92	Yes	-15	-0.08
5250	5/21/2021	1	1	-14.91	Yes	-15	-0.09
5251	5/21/2021	1	2	-14.91	Yes	-15	-0.09
5252	5/21/2021	1	3	-14.91	Yes	-15	-0.09
5253	5/21/2021	1	4	-14.91	Yes	-15	-0.09
5254	5/21/2021	1	5	-14.91	Yes	-15	-0.09
5255	5/21/2021	1	6	-14.91	Yes	-15	-0.09
5256	5/21/2021	1	7	-14.91	Yes	-15	-0.09
5257	5/21/2021	1	8	-14.91	Yes	-15	-0.09
5258	5/21/2021	1	9	-14.91	Yes	-15	-0.09
5259	5/21/2021	1	10	-14.91	Yes	-15	-0.09
5260	5/21/2021	1	11	-14.92	Yes	-15	-0.08
5261	5/21/2021	1	12	-14.92	Yes	-15	-0.08
5262	5/21/2021	2	1	-14.91	Yes	1	15.91
5263	5/21/2021	2	2	-14.91	Yes	1	15.91
5264	5/21/2021	2	3	-14.91	Yes	1	15.91
5265	5/21/2021	2	4	-14.91	Yes	1	15.91
5266	5/21/2021	2	5	-14.91	Yes	1	15.91
5267	5/21/2021	2	6	-14.91	Yes	1	15.91
5268	5/21/2021	2	7	-14.91	Yes	1	15.91
5269	5/21/2021	2	8	-14.91	Yes	1	15.91
5270	5/21/2021	2	9	-14.91	Yes	1	15.91
5271	5/21/2021	2	10	-14.91	Yes	1	15.91
5272	5/21/2021	2	11	-14.91	Yes	1	15.91
5273	5/21/2021	2	12	-14.91	Yes	1	15.91
5274	5/23/2021	14	8	3.97	Yes	0.02	-3.95
5275	5/23/2021	14	9	9.79	Yes	0.02	-9.77
5276	5/23/2021	14	10	0.79	Yes	0.02	-0.77
5277	5/23/2021	14	11	1.93	Yes	0.02	-1.91
5278	5/23/2021	14	12	1.77	Yes	0.02	-1.75

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5279	5/23/2021	15	1	0.41	Yes	0.02	-0.39
5280	5/23/2021	15	2	1.76	Yes	0.02	-1.74
5281	5/23/2021	15	3	0.39	Yes	0.02	-0.37
5282	5/23/2021	15	4	1.18	Yes	0.02	-1.16
5283	5/23/2021	15	5	1.01	Yes	0.02	-0.99
5284	5/23/2021	15	6	2.30	Yes	0.02	-2.28
5285	5/23/2021	15	7	2.32	Yes	0.02	-2.30
5286	5/23/2021	15	8	3.64	Yes	0.02	-3.62
5287	5/23/2021	15	9	10.08	Yes	0.02	-10.06
5288	5/23/2021	15	10	3.44	Yes	0.02	-3.42
5289	5/23/2021	15	11	2.40	Yes	0.02	-2.38
5290	5/23/2021	15	12	10.09	Yes	0.02	-10.07
5291	5/23/2021	16	1	3.82	Yes	0.02	-3.80
5292	5/23/2021	16	2	3.88	Yes	0.02	-3.86
5293	5/23/2021	16	3	3.82	Yes	0.02	-3.80
5294	5/23/2021	16	4	1.72	Yes	0.02	-1.70
5295	5/23/2021	16	5	1.63	Yes	0.02	-1.61
5296	5/23/2021	16	6	3.59	Yes	0.02	-3.57
5297	5/23/2021	16	7	2.29	Yes	0.02	-2.27
5298	5/23/2021	16	8	2.65	Yes	0.02	-2.63
5299	5/23/2021	16	9	3.37	Yes	0.02	-3.35
5300	5/23/2021	16	10	3.26	Yes	0.02	-3.24
5301	5/23/2021	16	11	3.50	Yes	0.02	-3.48
5302	5/23/2021	16	12	2.78	Yes	0.02	-2.76
5303	5/23/2021	17	1	-4.56	Yes	1	5.56
5304	5/23/2021	17	2	-4.55	Yes	1	5.55
5305	5/23/2021	17	3	-4.53	Yes	1	5.53
5306	5/23/2021	17	4	-3.04	Yes	1	4.04
5307	5/23/2021	17	5	0.99	Yes	1	0.01
5308	5/23/2021	17	6	2.58	Yes	1	-1.58
5309	5/23/2021	17	7	11.07	Yes	1	-10.07
5310	5/23/2021	17	8	11.09	Yes	1	-10.09
5311	5/23/2021	17	9	12.99	Yes	1	-11.99
5312	5/23/2021	17	10	19.85	Yes	1	-18.85
5313	5/23/2021	17	11	20.20	Yes	1	-19.20
5314	5/23/2021	17	12	19.80	Yes	1	-18.80
5315	5/23/2021	18	1	10.57	Yes	0.02	-10.55
5316	5/23/2021	18	2	10.57	Yes	0.02	-10.55

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5317	5/23/2021	18	3	10.58	Yes	0.02	-10.56
5318	5/23/2021	18	4	2.59	Yes	0.02	-2.57
5319	5/23/2021	18	5	8.65	Yes	0.02	-8.63
5320	5/23/2021	18	6	15.07	Yes	0.02	-15.05
5321	5/23/2021	18	7	15.66	Yes	0.02	-15.64
5322	5/23/2021	18	8	18.50	Yes	0.02	-18.48
5323	5/23/2021	18	9	19.20	Yes	0.02	-19.18
5324	5/23/2021	18	10	27.96	Yes	0.02	-27.94
5325	5/23/2021	18	11	29.87	Yes	0.02	-29.85
5326	5/23/2021	18	12	27.95	Yes	0.02	-27.93
5327	5/23/2021	19	1	24.07	Yes	0.02	-24.05
5328	5/23/2021	19	2	22.55	Yes	0.02	-22.53
5329	5/23/2021	19	3	23.70	Yes	0.02	-23.68
5330	5/23/2021	19	4	18.38	Yes	0.02	-18.36
5331	5/23/2021	19	5	17.54	Yes	0.02	-17.52
5332	5/23/2021	19	6	20.44	Yes	0.02	-20.42
5333	5/23/2021	19	7	21.98	Yes	0.02	-21.96
5334	5/23/2021	19	8	23.86	Yes	0.02	-23.84
5335	5/23/2021	19	9	25.86	Yes	0.02	-25.84
5336	5/23/2021	19	10	27.54	Yes	0.02	-27.52
5337	5/23/2021	19	11	35.78	Yes	0.02	-35.76
5338	5/23/2021	19	12	40.29	Yes	0.02	-40.27
5339	5/23/2021	20	1	27.43	Yes	0.02	-27.41
5340	5/23/2021	20	2	28.80	Yes	0.02	-28.78
5341	5/23/2021	20	3	30.84	Yes	0.02	-30.82
5342	5/23/2021	20	4	32.32	Yes	0.02	-32.30
5343	5/23/2021	20	5	30.16	Yes	0.02	-30.14
5344	5/23/2021	20	6	35.12	Yes	0.02	-35.10
5345	5/23/2021	20	7	33.54	Yes	0.02	-33.52
5346	5/23/2021	20	8	39.12	Yes	0.02	-39.10
5347	5/23/2021	20	9	39.36	Yes	0.02	-39.34
5348	5/23/2021	20	10	49.70	Yes	0.02	-49.68
5349	5/23/2021	20	11	42.27	Yes	0.02	-42.25
5350	5/23/2021	20	12	42.70	Yes	0.02	-42.68
5351	5/23/2021	21	1	34.25	Yes	0.02	-34.23
5352	5/23/2021	21	2	34.25	Yes	0.02	-34.23
5353	5/23/2021	21	3	32.89	Yes	0.02	-32.87
5354	5/23/2021	21	4	34.01	Yes	0.02	-33.99

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5355	5/23/2021	21	5	34.06	Yes	0.02	-34.04
5356	5/23/2021	21	6	34.06	Yes	0.02	-34.04
5357	5/23/2021	21	7	34.80	Yes	0.02	-34.78
5358	5/23/2021	21	8	34.80	Yes	0.02	-34.78
5359	5/23/2021	21	9	34.36	Yes	0.02	-34.34
5360	5/23/2021	21	10	34.78	Yes	0.02	-34.76
5361	5/23/2021	21	11	34.71	Yes	0.02	-34.69
5362	5/23/2021	21	12	34.78	Yes	0.02	-34.76
5363	5/23/2021	22	1	35.52	Yes	0.02	-35.50
5364	5/23/2021	22	2	36.87	Yes	0.02	-36.85
5365	5/23/2021	22	3	36.19	Yes	0.02	-36.17
5366	5/23/2021	22	4	35.71	Yes	0.02	-35.69
5367	5/23/2021	22	5	35.38	Yes	0.02	-35.36
5368	5/23/2021	22	6	35.38	Yes	0.02	-35.36
5369	5/23/2021	22	7	35.01	Yes	0.02	-34.99
5370	5/23/2021	22	8	34.45	Yes	0.02	-34.43
5371	5/23/2021	22	9	34.12	Yes	0.02	-34.10
5372	5/23/2021	22	10	34.09	Yes	0.02	-34.07
5373	5/23/2021	22	11	33.69	Yes	0.02	-33.67
5374	5/23/2021	22	12	32.76	Yes	0.02	-32.74
5375	5/23/2021	23	6	0.10	Yes	0.02	-0.08
5376	5/23/2021	23	7	0.10	Yes	0.02	-0.08
5377	5/23/2021	23	8	0.09	Yes	0.02	-0.07
5378	5/23/2021	23	9	0.09	Yes	0.02	-0.07
5379	5/23/2021	23	10	0.09	Yes	0.02	-0.07
5380	5/23/2021	23	11	0.09	Yes	0.02	-0.07
5381	5/23/2021	23	12	0.09	Yes	0.02	-0.07
5382	5/23/2021	24	1	0.09	Yes	0.02	-0.07
5383	5/23/2021	24	2	0.09	Yes	0.02	-0.07
5384	5/23/2021	24	3	0.09	Yes	0.02	-0.07
5385	5/23/2021	24	4	0.08	Yes	0.02	-0.06
5386	5/23/2021	24	5	0.08	Yes	0.02	-0.06
5387	5/23/2021	24	6	0.08	Yes	0.02	-0.06
5388	5/23/2021	24	7	0.07	Yes	0.02	-0.05
5389	5/23/2021	24	8	0.07	Yes	0.02	-0.05
5390	5/23/2021	24	9	0.07	Yes	0.02	-0.05
5391	5/23/2021	24	10	0.07	Yes	0.02	-0.05
5392	5/23/2021	24	11	0.07	Yes	0.02	-0.05

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5393	5/23/2021	24	12	0.07	Yes	0.02	-0.05
5394	5/24/2021	1	1	-14.94	Yes	-15	-0.06
5395	5/24/2021	1	2	-14.94	Yes	-15	-0.06
5396	5/24/2021	1	3	-14.94	Yes	-15	-0.06
5397	5/24/2021	1	4	-14.94	Yes	-15	-0.06
5398	5/24/2021	1	5	-14.95	Yes	-15	-0.05
5399	5/24/2021	1	6	-14.95	Yes	-15	-0.05
5400	5/24/2021	1	7	-14.95	Yes	-15	-0.05
5401	5/24/2021	1	8	-14.95	Yes	-15	-0.05
5402	5/24/2021	1	9	-14.95	Yes	-15	-0.05
5403	5/24/2021	1	10	-14.95	Yes	-15	-0.05
5404	5/24/2021	1	11	-14.95	Yes	-15	-0.05
5405	5/24/2021	1	12	-14.95	Yes	-15	-0.05
5406	5/24/2021	2	1	-14.94	Yes	-15	-0.06
5407	5/24/2021	2	2	-14.95	Yes	-15	-0.05
5408	5/24/2021	2	3	-14.95	Yes	-15	-0.05
5409	5/24/2021	2	4	-14.95	Yes	-15	-0.05
5410	5/24/2021	2	5	-14.95	Yes	-15	-0.05
5411	5/24/2021	2	6	-14.95	Yes	-15	-0.05
5412	5/24/2021	2	7	-14.95	Yes	-15	-0.05
5413	5/24/2021	2	8	-14.95	Yes	-15	-0.05
5414	5/24/2021	2	9	-14.95	Yes	-15	-0.05
5415	5/24/2021	2	10	-14.95	Yes	-15	-0.05
5416	5/24/2021	2	11	-14.95	Yes	-15	-0.05
5417	5/24/2021	2	12	-14.95	Yes	-15	-0.05
5418	5/24/2021	3	1	-14.95	Yes	-15	-0.05
5419	5/24/2021	3	2	-14.95	Yes	-15	-0.05
5420	5/24/2021	3	3	-14.95	Yes	-15	-0.05
5421	5/24/2021	3	4	-14.94	Yes	-15	-0.06
5422	5/24/2021	3	5	-14.94	Yes	-15	-0.06
5423	5/24/2021	3	6	-14.94	Yes	-15	-0.06
5424	5/24/2021	3	7	-14.95	Yes	-15	-0.05
5425	5/24/2021	3	8	-14.95	Yes	-15	-0.05
5426	5/24/2021	3	9	-14.95	Yes	-15	-0.05
5427	5/24/2021	3	10	-14.96	Yes	-15	-0.04
5428	5/24/2021	3	11	-14.96	Yes	-15	-0.04
5429	5/24/2021	3	12	-14.96	Yes	-15	-0.04
5430	5/24/2021	4	1	-14.96	Yes	-15	-0.04

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5431	5/24/2021	4	2	-14.96	Yes	-15	-0.04
5432	5/24/2021	4	3	-14.96	Yes	-15	-0.04
5433	5/24/2021	4	4	-14.95	Yes	-15	-0.05
5434	5/24/2021	4	5	-14.95	Yes	-15	-0.05
5435	5/24/2021	4	6	-14.95	Yes	-15	-0.05
5436	5/24/2021	4	7	-14.95	Yes	-15	-0.05
5437	5/24/2021	4	8	-14.95	Yes	-15	-0.05
5438	5/24/2021	4	9	-14.95	Yes	-15	-0.05
5439	5/24/2021	4	10	-14.95	Yes	-15	-0.05
5440	5/24/2021	4	11	-14.95	Yes	-15	-0.05
5441	5/24/2021	4	12	-14.95	Yes	-15	-0.05
5442	5/24/2021	5	1	-14.95	Yes	-15	-0.05
5443	5/24/2021	5	2	-14.95	Yes	-15	-0.05
5444	5/24/2021	5	3	-14.95	Yes	-15	-0.05
5445	5/24/2021	5	4	-14.95	Yes	-15	-0.05
5446	5/24/2021	5	5	-14.95	Yes	-15	-0.05
5447	5/24/2021	5	6	-14.95	Yes	-15	-0.05
5448	5/24/2021	5	7	-14.95	Yes	-15	-0.05
5449	5/24/2021	5	8	-14.95	Yes	-15	-0.05
5450	5/24/2021	5	9	-14.95	Yes	-15	-0.05
5451	5/24/2021	5	10	-14.94	Yes	-15	-0.06
5452	5/24/2021	5	11	-14.94	Yes	-15	-0.06
5453	5/24/2021	5	12	-14.94	Yes	-15	-0.06
5454	5/24/2021	6	1	-15.04	Yes	-15	0.04
5455	5/24/2021	6	2	-15.04	Yes	-15	0.04
5456	5/24/2021	6	3	-15.05	Yes	-15	0.05
5457	5/24/2021	6	4	-14.94	Yes	-15	-0.06
5458	5/24/2021	6	5	-14.94	Yes	-15	-0.06
5459	5/24/2021	6	6	-14.94	Yes	-15	-0.06
5460	5/24/2021	6	7	-14.94	Yes	-15	-0.06
5461	5/24/2021	6	8	-14.94	Yes	-15	-0.06
5462	5/24/2021	6	9	33.14	Yes	-15	-48.14
5463	5/24/2021	6	10	34.01	Yes	-15	-49.01
5464	5/24/2021	6	11	33.15	Yes	-15	-48.15
5465	5/24/2021	6	12	34.10	Yes	-15	-49.10
5466	5/24/2021	7	1	37.21	Yes	-15	-52.21
5467	5/24/2021	7	2	36.00	Yes	-15	-51.00
5468	5/24/2021	7	3	35.62	Yes	-15	-50.62

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5469	5/24/2021	7	4	30.68	Yes	-15	-45.68
5470	5/24/2021	7	5	30.68	Yes	-15	-45.68
5471	5/24/2021	7	6	28.37	Yes	-15	-43.37
5472	5/24/2021	7	7	28.25	Yes	-15	-43.25
5473	5/24/2021	7	8	26.37	Yes	-15	-41.37
5474	5/24/2021	7	9	24.56	Yes	-15	-39.56
5475	5/24/2021	7	10	24.84	Yes	-15	-39.84
5476	5/24/2021	7	11	20.05	Yes	-15	-35.05
5477	5/24/2021	7	12	23.52	Yes	-15	-38.52
5478	5/24/2021	8	1	30.01	Yes	-15	-45.01
5479	5/24/2021	8	2	31.52	Yes	-15	-46.52
5480	5/24/2021	8	3	27.70	Yes	-15	-42.70
5481	5/24/2021	8	4	21.84	Yes	-15	-36.84
5482	5/24/2021	8	5	19.53	Yes	-15	-34.53
5483	5/24/2021	8	6	15.37	Yes	-15	-30.37
5484	5/24/2021	8	7	24.37	Yes	-15	-39.37
5485	5/24/2021	8	8	24.49	Yes	-15	-39.49
5486	5/24/2021	8	9	18.89	Yes	-15	-33.89
5487	5/24/2021	8	10	14.88	Yes	-15	-29.88
5488	5/24/2021	8	11	12.30	Yes	-15	-27.30
5489	5/24/2021	8	12	18.82	Yes	-15	-33.82
5490	5/24/2021	15	6	34.93	Yes	-15	-49.93
5491	5/24/2021	15	7	32.90	Yes	-15	-47.90
5492	5/24/2021	15	8	35.75	Yes	-15	-50.75
5493	5/24/2021	15	9	31.33	Yes	-15	-46.33
5494	5/24/2021	15	10	30.81	Yes	-15	-45.81
5495	5/24/2021	15	11	28.83	Yes	-15	-43.83
5496	5/24/2021	15	12	26.73	Yes	-15	-41.73
5497	5/24/2021	16	1	27.66	Yes	-15	-42.66
5498	5/24/2021	16	2	26.40	Yes	-15	-41.40
5499	5/24/2021	16	3	28.31	Yes	-15	-43.31
5500	5/24/2021	16	4	17.43	Yes	-15	-32.43
5501	5/24/2021	16	5	19.60	Yes	-15	-34.60
5502	5/24/2021	16	6	19.31	Yes	-15	-34.31
5503	5/24/2021	16	7	21.04	Yes	-15	-36.04
5504	5/24/2021	16	8	34.95	Yes	-15	-49.95
5505	5/24/2021	16	9	31.99	Yes	-15	-46.99
5506	5/24/2021	16	10	33.39	Yes	-15	-48.39

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5507	5/24/2021	16	11	34.42	Yes	-15	-49.42
5508	5/24/2021	16	12	35.76	Yes	-15	-50.76
5509	5/24/2021	17	1	30.27	Yes	-15	-45.27
5510	5/24/2021	17	2	29.83	Yes	-15	-44.83
5511	5/24/2021	17	3	30.04	Yes	-15	-45.04
5512	5/24/2021	17	4	29.12	Yes	-15	-44.12
5513	5/24/2021	17	5	29.27	Yes	-15	-44.27
5514	5/24/2021	17	6	29.52	Yes	-15	-44.52
5515	5/24/2021	17	7	30.26	Yes	-15	-45.26
5516	5/24/2021	17	8	20.54	Yes	-15	-35.54
5517	5/24/2021	17	9	30.17	Yes	-15	-45.17
5518	5/24/2021	17	10	31.66	Yes	-15	-46.66
5519	5/24/2021	17	11	32.25	Yes	-15	-47.25
5520	5/24/2021	17	12	29.27	Yes	-15	-44.27
5521	5/24/2021	18	1	18.74	Yes	-15	-33.74
5522	5/24/2021	18	2	18.16	Yes	-15	-33.16
5523	5/24/2021	18	3	18.22	Yes	-15	-33.22
5524	5/24/2021	18	4	18.42	Yes	-15	-33.42
5525	5/24/2021	18	5	19.41	Yes	-15	-34.41
5526	5/24/2021	18	6	22.03	Yes	-15	-37.03
5527	5/24/2021	18	7	22.07	Yes	-15	-37.07
5528	5/24/2021	18	8	24.93	Yes	-15	-39.93
5529	5/24/2021	18	9	25.63	Yes	-15	-40.63
5530	5/24/2021	18	10	27.74	Yes	-15	-42.74
5531	5/24/2021	18	11	27.90	Yes	-15	-42.90
5532	5/24/2021	18	12	28.74	Yes	-15	-43.74
5533	5/24/2021	19	1	19.86	Yes	1	-18.86
5534	5/24/2021	19	2	21.99	Yes	1	-20.99
5535	5/24/2021	19	3	22.66	Yes	1	-21.66
5536	5/24/2021	19	4	25.43	Yes	1	-24.43
5537	5/24/2021	19	5	26.15	Yes	1	-25.15
5538	5/24/2021	19	6	27.37	Yes	1	-26.37
5539	5/24/2021	19	7	29.50	Yes	1	-28.50
5540	5/24/2021	19	8	31.13	Yes	1	-30.13
5541	5/24/2021	19	9	33.74	Yes	1	-32.74
5542	5/24/2021	19	10	35.01	Yes	1	-34.01
5543	5/24/2021	19	11	38.00	Yes	1	-37.00
5544	5/24/2021	19	12	43.19	Yes	1	-42.19

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5545	5/24/2021	20	1	38.40	Yes	-15	-53.40
5546	5/24/2021	20	2	38.40	Yes	-15	-53.40
5547	5/24/2021	20	3	42.31	Yes	-15	-57.31
5548	5/24/2021	20	4	42.09	Yes	-15	-57.09
5549	5/24/2021	20	5	42.66	Yes	-15	-57.66
5550	5/24/2021	20	6	47.40	Yes	-15	-62.40
5551	5/24/2021	20	7	43.07	Yes	-15	-58.07
5552	5/24/2021	20	8	43.31	Yes	-15	-58.31
5553	5/24/2021	20	9	44.78	Yes	-15	-59.78
5554	5/24/2021	20	10	50.04	Yes	-15	-65.04
5555	5/24/2021	20	11	43.86	Yes	-15	-58.86
5556	5/24/2021	20	12	39.48	Yes	-15	-54.48
5557	5/24/2021	21	1	38.13	Yes	1	-37.13
5558	5/24/2021	21	2	38.13	Yes	1	-37.13
5559	5/24/2021	21	3	38.09	Yes	1	-37.09
5560	5/24/2021	21	4	37.38	Yes	1	-36.38
5561	5/24/2021	21	5	36.90	Yes	1	-35.90
5562	5/24/2021	21	6	37.25	Yes	1	-36.25
5563	5/24/2021	21	7	1.08	Yes	1	-0.08
5564	5/24/2021	21	8	1.08	Yes	1	-0.08
5565	5/24/2021	21	9	1.08	Yes	1	-0.08
5566	5/24/2021	21	10	1.08	Yes	1	-0.08
5567	5/24/2021	21	11	1.08	Yes	1	-0.08
5568	5/24/2021	21	12	1.08	Yes	1	-0.08
5569	5/24/2021	22	1	46.67	Yes	1	-45.67
5570	5/24/2021	22	2	43.91	Yes	1	-42.91
5571	5/24/2021	22	3	41.92	Yes	1	-40.92
5572	5/24/2021	22	4	42.40	Yes	1	-41.40
5573	5/24/2021	22	5	39.43	Yes	1	-38.43
5574	5/24/2021	22	6	37.75	Yes	1	-36.75
5575	5/24/2021	22	7	1.07	Yes	1	-0.07
5576	5/24/2021	22	8	1.07	Yes	1	-0.07
5577	5/24/2021	22	9	1.07	Yes	1	-0.07
5578	5/24/2021	22	10	1.07	Yes	1	-0.07
5579	5/24/2021	22	11	1.07	Yes	1	-0.07
5580	5/24/2021	22	12	1.07	Yes	1	-0.07
5581	5/24/2021	23	1	-15.05	Yes	-15	0.05
5582	5/24/2021	23	2	-15.03	Yes	-15	0.03

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5583	5/24/2021	23	3	-15.03	Yes	-15	0.03
5584	5/24/2021	23	4	-14.94	Yes	-15	-0.06
5585	5/24/2021	23	5	-14.94	Yes	-15	-0.06
5586	5/24/2021	23	6	-14.94	Yes	-15	-0.06
5587	5/24/2021	23	7	-15.05	Yes	-15	0.05
5588	5/24/2021	23	8	-15.05	Yes	-15	0.05
5589	5/24/2021	23	9	-15.05	Yes	-15	0.05
5590	5/24/2021	23	10	-14.95	Yes	-15	-0.05
5591	5/24/2021	23	11	-14.95	Yes	-15	-0.05
5592	5/24/2021	23	12	-14.95	Yes	-15	-0.05
5593	5/24/2021	24	1	-15.05	Yes	-15	0.05
5594	5/24/2021	24	2	-15.05	Yes	-15	0.05
5595	5/24/2021	24	3	-15.05	Yes	-15	0.05
5596	5/24/2021	24	4	-14.95	Yes	-15	-0.05
5597	5/24/2021	24	5	-14.95	Yes	-15	-0.05
5598	5/24/2021	24	6	-14.95	Yes	-15	-0.05
5599	5/24/2021	24	7	-14.95	Yes	-15	-0.05
5600	5/24/2021	24	8	-14.95	Yes	-15	-0.05
5601	5/24/2021	24	9	-14.95	Yes	-15	-0.05
5602	5/24/2021	24	10	-14.95	Yes	-15	-0.05
5603	5/24/2021	24	11	-14.95	Yes	-15	-0.05
5604	5/24/2021	24	12	-14.95	Yes	-15	-0.05
5605	5/25/2021	1	1	-14.95	Yes	-15	-0.05
5606	5/25/2021	1	2	-14.95	Yes	-15	-0.05
5607	5/25/2021	1	3	-14.95	Yes	-15	-0.05
5608	5/25/2021	1	4	-14.95	Yes	-15	-0.05
5609	5/25/2021	1	5	-14.95	Yes	-15	-0.05
5610	5/25/2021	1	6	-14.95	Yes	-15	-0.05
5611	5/25/2021	1	7	-14.93	Yes	-15	-0.07
5612	5/25/2021	1	8	-14.93	Yes	-15	-0.07
5613	5/25/2021	1	9	-14.93	Yes	-15	-0.07
5614	5/25/2021	1	10	-14.94	Yes	-15	-0.06
5615	5/25/2021	1	11	-14.94	Yes	-15	-0.06
5616	5/25/2021	1	12	-14.94	Yes	-15	-0.06
5617	5/25/2021	2	1	-14.94	Yes	-15	-0.06
5618	5/25/2021	2	2	-14.94	Yes	-15	-0.06
5619	5/25/2021	2	3	-14.94	Yes	-15	-0.06
5620	5/25/2021	2	4	-14.94	Yes	-15	-0.06

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5621	5/25/2021	2	5	-14.94	Yes	-15	-0.06
5622	5/25/2021	2	6	-14.94	Yes	-15	-0.06
5623	5/25/2021	2	7	-14.94	Yes	-15	-0.06
5624	5/25/2021	2	8	-14.94	Yes	-15	-0.06
5625	5/25/2021	2	9	-14.95	Yes	-15	-0.05
5626	5/25/2021	2	10	-14.95	Yes	-15	-0.05
5627	5/25/2021	2	11	-14.94	Yes	-15	-0.06
5628	5/25/2021	2	12	-14.94	Yes	-15	-0.06
5629	5/25/2021	3	1	52.66	Yes	-15	-67.66
5630	5/25/2021	3	2	54.48	Yes	-15	-69.48
5631	5/25/2021	3	3	51.98	Yes	-15	-66.98
5632	5/25/2021	3	4	51.62	Yes	-15	-66.62
5633	5/25/2021	3	5	41.98	Yes	-15	-56.98
5634	5/25/2021	3	6	44.34	Yes	-15	-59.34
5635	5/25/2021	3	7	-15.03	Yes	-15	0.03
5636	5/25/2021	3	8	-15.03	Yes	-15	0.03
5637	5/25/2021	3	9	-15.03	Yes	-15	0.03
5638	5/25/2021	3	10	-15.02	Yes	-15	0.02
5639	5/25/2021	3	11	-15.02	Yes	-15	0.02
5640	5/25/2021	3	12	-15.03	Yes	-15	0.03
5641	5/25/2021	4	1	-14.93	Yes	-15	-0.07
5642	5/25/2021	4	2	-14.93	Yes	-15	-0.07
5643	5/25/2021	4	3	-14.92	Yes	-15	-0.08
5644	5/25/2021	4	4	-14.92	Yes	-15	-0.08
5645	5/25/2021	4	5	-14.92	Yes	-15	-0.08
5646	5/25/2021	4	6	-14.92	Yes	-15	-0.08
5647	5/25/2021	4	7	-14.93	Yes	-15	-0.07
5648	5/25/2021	4	8	-14.93	Yes	-15	-0.07
5649	5/25/2021	4	9	-14.93	Yes	-15	-0.07
5650	5/25/2021	4	10	-14.93	Yes	-15	-0.07
5651	5/25/2021	4	11	-14.93	Yes	-15	-0.07
5652	5/25/2021	4	12	-14.94	Yes	-15	-0.06
5653	5/25/2021	5	1	61.92	Yes	-15	-76.92
5654	5/25/2021	5	2	55.69	Yes	-15	-70.69
5655	5/25/2021	5	3	53.10	Yes	-15	-68.10
5656	5/25/2021	5	4	48.16	Yes	-15	-63.16
5657	5/25/2021	5	5	48.88	Yes	-15	-63.88
5658	5/25/2021	5	6	47.86	Yes	-15	-62.86

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5659	5/25/2021	5	7	-14.94	Yes	-15	-0.06
5660	5/25/2021	5	8	-14.94	Yes	-15	-0.06
5661	5/25/2021	5	9	-14.93	Yes	-15	-0.07
5662	5/25/2021	5	10	-14.93	Yes	-15	-0.07
5663	5/25/2021	5	11	-14.92	Yes	-15	-0.08
5664	5/25/2021	5	12	-14.92	Yes	-15	-0.08
5665	5/25/2021	6	1	-14.94	Yes	-15	-0.06
5666	5/25/2021	6	2	-14.94	Yes	-15	-0.06
5667	5/25/2021	6	3	-14.94	Yes	-15	-0.06
5668	5/25/2021	6	4	-14.94	Yes	-15	-0.06
5669	5/25/2021	6	5	-14.94	Yes	-15	-0.06
5670	5/25/2021	6	6	-14.94	Yes	-15	-0.06
5671	5/25/2021	6	7	-14.94	Yes	-15	-0.06
5672	5/25/2021	6	8	-14.94	Yes	-15	-0.06
5673	5/25/2021	6	9	-14.94	Yes	-15	-0.06
5674	5/25/2021	6	10	-14.93	Yes	-15	-0.07
5675	5/25/2021	6	11	-14.94	Yes	-15	-0.06
5676	5/25/2021	6	12	-14.94	Yes	-15	-0.06
5677	5/25/2021	7	1	41.38	Yes	1	-40.38
5678	5/25/2021	7	2	39.34	Yes	1	-38.34
5679	5/25/2021	7	3	40.35	Yes	1	-39.35
5680	5/25/2021	7	4	38.22	Yes	1	-37.22
5681	5/25/2021	7	5	38.86	Yes	1	-37.86
5682	5/25/2021	7	6	36.79	Yes	1	-35.79
5683	5/25/2021	7	7	35.72	Yes	1	-34.72
5684	5/25/2021	7	8	33.65	Yes	1	-32.65
5685	5/25/2021	7	9	36.55	Yes	1	-35.55
5686	5/25/2021	7	10	32.82	Yes	1	-31.82
5687	5/25/2021	7	11	32.91	Yes	1	-31.91
5688	5/25/2021	7	12	33.64	Yes	1	-32.64
5689	5/25/2021	8	1	31.40	Yes	-15	-46.40
5690	5/25/2021	8	2	32.59	Yes	-15	-47.59
5691	5/25/2021	8	3	32.96	Yes	-15	-47.96
5692	5/25/2021	8	4	32.41	Yes	-15	-47.41
5693	5/25/2021	8	5	32.02	Yes	-15	-47.02
5694	5/25/2021	8	6	32.16	Yes	-15	-47.16
5695	5/25/2021	8	7	32.27	Yes	-15	-47.27
5696	5/25/2021	8	8	32.26	Yes	-15	-47.26

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5697	5/25/2021	8	9	31.55	Yes	-15	-46.55
5698	5/25/2021	8	10	31.73	Yes	-15	-46.73
5699	5/25/2021	8	11	30.50	Yes	-15	-45.50
5700	5/25/2021	8	12	30.51	Yes	-15	-45.51
5701	5/25/2021	9	1	36.53	Yes	-15	-51.53
5702	5/25/2021	9	2	34.64	Yes	-15	-49.64
5703	5/25/2021	9	3	35.03	Yes	-15	-50.03
5704	5/25/2021	9	4	34.71	Yes	-15	-49.71
5705	5/25/2021	9	5	36.46	Yes	-15	-51.46
5706	5/25/2021	9	6	35.74	Yes	-15	-50.74
5707	5/25/2021	9	7	35.14	Yes	-15	-50.14
5708	5/25/2021	9	8	32.45	Yes	-15	-47.45
5709	5/25/2021	9	9	35.44	Yes	-15	-50.44
5710	5/25/2021	9	10	35.52	Yes	-15	-50.52
5711	5/25/2021	9	11	35.69	Yes	-15	-50.69
5712	5/25/2021	9	12	36.74	Yes	-15	-51.74
5713	5/25/2021	10	1	31.44	Yes	1	-30.44
5714	5/25/2021	10	2	30.70	Yes	1	-29.70
5715	5/25/2021	10	3	32.22	Yes	1	-31.22
5716	5/25/2021	10	4	31.15	Yes	1	-30.15
5717	5/25/2021	10	5	32.67	Yes	1	-31.67
5718	5/25/2021	10	6	34.17	Yes	1	-33.17
5719	5/25/2021	10	7	33.45	Yes	1	-32.45
5720	5/25/2021	10	8	33.52	Yes	1	-32.52
5721	5/25/2021	10	9	33.45	Yes	1	-32.45
5722	5/25/2021	10	10	33.71	Yes	1	-32.71
5723	5/25/2021	10	11	32.16	Yes	1	-31.16
5724	5/25/2021	10	12	30.83	Yes	1	-29.83
5725	5/25/2021	11	1	39.53	Yes	1	-38.53
5726	5/25/2021	11	2	40.13	Yes	1	-39.13
5727	5/25/2021	11	3	41.77	Yes	1	-40.77
5728	5/25/2021	11	4	36.28	Yes	1	-35.28
5729	5/25/2021	11	5	38.92	Yes	1	-37.92
5730	5/25/2021	11	6	39.21	Yes	1	-38.21
5731	5/25/2021	11	7	32.26	Yes	1	-31.26
5732	5/25/2021	11	8	32.33	Yes	1	-31.33
5733	5/25/2021	11	9	33.18	Yes	1	-32.18
5734	5/25/2021	11	10	27.21	Yes	1	-26.21

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5735	5/25/2021	11	11	29.39	Yes	1	-28.39
5736	5/25/2021	11	12	31.68	Yes	1	-30.68
5737	5/25/2021	12	1	34.68	Yes	-15	-49.68
5738	5/25/2021	12	2	36.86	Yes	-15	-51.86
5739	5/25/2021	12	3	38.48	Yes	-15	-53.48
5740	5/25/2021	12	4	42.40	Yes	-15	-57.40
5741	5/25/2021	12	5	56.21	Yes	-15	-71.21
5742	5/25/2021	12	6	59.64	Yes	-15	-74.64
5743	5/25/2021	12	7	38.91	Yes	-15	-53.91
5744	5/25/2021	12	8	38.93	Yes	-15	-53.93
5745	5/25/2021	12	9	36.52	Yes	-15	-51.52
5746	5/25/2021	12	10	32.83	Yes	-15	-47.83
5747	5/25/2021	12	11	33.02	Yes	-15	-48.02
5748	5/25/2021	12	12	35.50	Yes	-15	-50.50
5749	5/25/2021	13	1	42.85	Yes	1	-41.85
5750	5/25/2021	13	2	43.38	Yes	1	-42.38
5751	5/25/2021	13	3	45.85	Yes	1	-44.85
5752	5/25/2021	13	4	45.12	Yes	1	-44.12
5753	5/25/2021	13	5	49.06	Yes	1	-48.06
5754	5/25/2021	13	6	57.24	Yes	1	-56.24
5755	5/25/2021	13	7	50.17	Yes	1	-49.17
5756	5/25/2021	13	8	118.18	Yes	1	-117.18
5757	5/25/2021	13	9	78.71	Yes	1	-77.71
5758	5/25/2021	13	10	35.61	Yes	1	-34.61
5759	5/25/2021	13	11	36.60	Yes	1	-35.60
5760	5/25/2021	13	12	36.59	Yes	1	-35.59
5761	5/25/2021	14	1	69.31	Yes	-15	-84.31
5762	5/25/2021	14	2	63.58	Yes	-15	-78.58
5763	5/25/2021	14	3	51.82	Yes	-15	-66.82
5764	5/25/2021	14	4	53.13	Yes	-15	-68.13
5765	5/25/2021	14	5	36.52	Yes	-15	-51.52
5766	5/25/2021	14	6	43.19	Yes	-15	-58.19
5767	5/25/2021	14	7	52.61	Yes	-15	-67.61
5768	5/25/2021	14	8	35.07	Yes	-15	-50.07
5769	5/25/2021	14	9	45.93	Yes	-15	-60.93
5770	5/25/2021	14	10	50.39	Yes	-15	-65.39
5771	5/25/2021	14	11	54.22	Yes	-15	-69.22
5772	5/25/2021	14	12	38.70	Yes	-15	-53.70

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5773	5/25/2021	15	1	36.34	Yes	-15	-51.34
5774	5/25/2021	15	2	45.80	Yes	-15	-60.80
5775	5/25/2021	15	3	63.66	Yes	-15	-78.66
5776	5/25/2021	15	4	60.51	Yes	-15	-75.51
5777	5/25/2021	15	5	46.79	Yes	-15	-61.79
5778	5/25/2021	15	6	33.25	Yes	-15	-48.25
5779	5/25/2021	15	7	31.44	Yes	-15	-46.44
5780	5/25/2021	15	8	26.81	Yes	-15	-41.81
5781	5/25/2021	15	9	28.78	Yes	-15	-43.78
5782	5/25/2021	15	10	34.78	Yes	-15	-49.78
5783	5/25/2021	15	11	35.18	Yes	-15	-50.18
5784	5/25/2021	15	12	35.18	Yes	-15	-50.18
5785	5/25/2021	16	1	26.57	Yes	1	-25.57
5786	5/25/2021	16	2	26.50	Yes	1	-25.50
5787	5/25/2021	16	3	26.74	Yes	1	-25.74
5788	5/25/2021	16	4	30.11	Yes	1	-29.11
5789	5/25/2021	16	5	31.53	Yes	1	-30.53
5790	5/25/2021	16	6	30.93	Yes	1	-29.93
5791	5/25/2021	16	7	35.14	Yes	1	-34.14
5792	5/25/2021	16	8	34.00	Yes	1	-33.00
5793	5/25/2021	16	9	40.69	Yes	1	-39.69
5794	5/25/2021	16	10	44.07	Yes	1	-43.07
5795	5/25/2021	16	11	41.78	Yes	1	-40.78
5796	5/25/2021	16	12	43.55	Yes	1	-42.55
5797	5/25/2021	17	1	25.32	Yes	1	-24.32
5798	5/25/2021	17	2	24.79	Yes	1	-23.79
5799	5/25/2021	17	3	26.15	Yes	1	-25.15
5800	5/25/2021	17	4	31.73	Yes	1	-30.73
5801	5/25/2021	17	5	32.56	Yes	1	-31.56
5802	5/25/2021	17	6	32.56	Yes	1	-31.56
5803	5/25/2021	17	7	31.61	Yes	1	-30.61
5804	5/25/2021	17	8	32.10	Yes	1	-31.10
5805	5/25/2021	17	9	32.08	Yes	1	-31.08
5806	5/25/2021	17	10	33.80	Yes	1	-32.80
5807	5/25/2021	17	11	33.36	Yes	1	-32.36
5808	5/25/2021	17	12	29.87	Yes	1	-28.87
5809	5/25/2021	18	1	23.71	Yes	1	-22.71
5810	5/25/2021	18	2	25.75	Yes	1	-24.75

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5811	5/25/2021	18	3	26.65	Yes	1	-25.65
5812	5/25/2021	18	4	29.63	Yes	1	-28.63
5813	5/25/2021	18	5	32.01	Yes	1	-31.01
5814	5/25/2021	18	6	32.97	Yes	1	-31.97
5815	5/25/2021	18	7	32.23	Yes	1	-31.23
5816	5/25/2021	18	8	31.83	Yes	1	-30.83
5817	5/25/2021	18	9	33.38	Yes	1	-32.38
5818	5/25/2021	18	10	36.70	Yes	1	-35.70
5819	5/25/2021	18	11	34.94	Yes	1	-33.94
5820	5/25/2021	18	12	34.29	Yes	1	-33.29
5821	5/25/2021	19	1	32.60	Yes	1	-31.60
5822	5/25/2021	19	2	31.77	Yes	1	-30.77
5823	5/25/2021	19	3	32.60	Yes	1	-31.60
5824	5/25/2021	19	4	35.05	Yes	1	-34.05
5825	5/25/2021	19	5	41.61	Yes	1	-40.61
5826	5/25/2021	19	6	45.58	Yes	1	-44.58
5827	5/25/2021	19	7	56.42	Yes	1	-55.42
5828	5/25/2021	19	8	56.42	Yes	1	-55.42
5829	5/25/2021	19	9	60.38	Yes	1	-59.38
5830	5/25/2021	19	10	58.84	Yes	1	-57.84
5831	5/25/2021	19	11	66.90	Yes	1	-65.90
5832	5/25/2021	19	12	75.45	Yes	1	-74.45
5833	5/25/2021	20	1	56.75	Yes	1	-55.75
5834	5/25/2021	20	2	45.38	Yes	1	-44.38
5835	5/25/2021	20	3	47.40	Yes	1	-46.40
5836	5/25/2021	20	4	47.18	Yes	1	-46.18
5837	5/25/2021	20	5	57.21	Yes	1	-56.21
5838	5/25/2021	20	6	56.02	Yes	1	-55.02
5839	5/25/2021	20	7	57.01	Yes	1	-56.01
5840	5/25/2021	20	8	57.06	Yes	1	-56.06
5841	5/25/2021	20	9	54.55	Yes	1	-53.55
5842	5/25/2021	20	10	50.49	Yes	1	-49.49
5843	5/25/2021	20	11	58.13	Yes	1	-57.13
5844	5/25/2021	20	12	47.31	Yes	1	-46.31
5845	5/25/2021	21	1	45.48	Yes	-15	-60.48
5846	5/25/2021	21	2	45.23	Yes	-15	-60.23
5847	5/25/2021	21	3	45.23	Yes	-15	-60.23
5848	5/25/2021	21	4	44.95	Yes	-15	-59.95

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5849	5/25/2021	21	5	45.40	Yes	-15	-60.40
5850	5/25/2021	21	6	45.40	Yes	-15	-60.40
5851	5/25/2021	21	7	44.68	Yes	-15	-59.68
5852	5/25/2021	21	8	43.84	Yes	-15	-58.84
5853	5/25/2021	21	9	43.43	Yes	-15	-58.43
5854	5/25/2021	21	10	43.45	Yes	-15	-58.45
5855	5/25/2021	21	11	42.68	Yes	-15	-57.68
5856	5/25/2021	21	12	42.67	Yes	-15	-57.67
5857	5/25/2021	22	1	46.91	Yes	-15	-61.91
5858	5/25/2021	22	2	48.45	Yes	-15	-63.45
5859	5/25/2021	22	3	47.06	Yes	-15	-62.06
5860	5/25/2021	22	4	46.56	Yes	-15	-61.56
5861	5/25/2021	22	5	45.94	Yes	-15	-60.94
5862	5/25/2021	22	6	44.28	Yes	-15	-59.28
5863	5/25/2021	22	7	44.17	Yes	-15	-59.17
5864	5/25/2021	22	8	43.66	Yes	-15	-58.66
5865	5/25/2021	22	9	45.04	Yes	-15	-60.04
5866	5/25/2021	22	10	43.71	Yes	-15	-58.71
5867	5/25/2021	22	11	40.76	Yes	-15	-55.76
5868	5/25/2021	22	12	42.24	Yes	-15	-57.24
5869	5/25/2021	23	1	77.32	Yes	-15	-92.32
5870	5/25/2021	23	2	64.60	Yes	-15	-79.60
5871	5/25/2021	23	3	63.24	Yes	-15	-78.24
5872	5/25/2021	23	4	62.03	Yes	-15	-77.03
5873	5/25/2021	23	5	49.17	Yes	-15	-64.17
5874	5/25/2021	23	6	74.33	Yes	-15	-89.33
5875	5/25/2021	23	7	-14.87	Yes	-15	-0.13
5876	5/25/2021	23	8	-14.87	Yes	-15	-0.13
5877	5/25/2021	23	9	-14.91	Yes	-15	-0.09
5878	5/25/2021	23	10	-14.91	Yes	-15	-0.09
5879	5/25/2021	23	11	36.30	Yes	-15	-51.30
5880	5/25/2021	23	12	36.18	Yes	-15	-51.18
5881	5/25/2021	24	1	-14.90	Yes	-15	-0.10
5882	5/25/2021	24	2	-14.90	Yes	-15	-0.10
5883	5/25/2021	24	3	-14.90	Yes	-15	-0.10
5884	5/25/2021	24	4	-14.92	Yes	-15	-0.08
5885	5/25/2021	24	5	-14.91	Yes	-15	-0.09
5886	5/25/2021	24	6	-14.91	Yes	-15	-0.09

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5887	5/25/2021	24	7	-14.94	Yes	-15	-0.06
5888	5/25/2021	24	8	-14.95	Yes	-15	-0.05
5889	5/25/2021	24	9	-14.95	Yes	-15	-0.05
5890	5/25/2021	24	10	-14.95	Yes	-15	-0.05
5891	5/25/2021	24	11	-14.95	Yes	-15	-0.05
5892	5/25/2021	24	12	-14.95	Yes	-15	-0.05
5893	5/26/2021	1	1	1.07	Yes	1	-0.07
5894	5/26/2021	1	2	1.09	Yes	1	-0.09
5895	5/26/2021	1	3	1.09	Yes	1	-0.09
5896	5/26/2021	1	4	1.07	Yes	1	-0.07
5897	5/26/2021	1	5	1.06	Yes	1	-0.06
5898	5/26/2021	1	6	1.06	Yes	1	-0.06
5899	5/26/2021	1	7	1.05	Yes	1	-0.05
5900	5/26/2021	1	8	1.05	Yes	1	-0.05
5901	5/26/2021	1	9	1.05	Yes	1	-0.05
5902	5/26/2021	1	10	1.05	Yes	1	-0.05
5903	5/26/2021	1	11	1.05	Yes	1	-0.05
5904	5/26/2021	1	12	1.05	Yes	1	-0.05
5905	5/26/2021	2	1	-14.95	Yes	-15	-0.05
5906	5/26/2021	2	2	-14.95	Yes	-15	-0.05
5907	5/26/2021	2	3	-14.95	Yes	-15	-0.05
5908	5/26/2021	2	4	-14.95	Yes	-15	-0.05
5909	5/26/2021	2	5	-14.95	Yes	-15	-0.05
5910	5/26/2021	2	6	-14.95	Yes	-15	-0.05
5911	5/26/2021	2	7	-14.95	Yes	-15	-0.05
5912	5/26/2021	2	8	-14.95	Yes	-15	-0.05
5913	5/26/2021	2	9	-14.95	Yes	-15	-0.05
5914	5/26/2021	2	10	-14.95	Yes	-15	-0.05
5915	5/26/2021	2	11	-14.95	Yes	-15	-0.05
5916	5/26/2021	2	12	-14.95	Yes	-15	-0.05
5917	5/26/2021	3	1	-14.95	Yes	-15	-0.05
5918	5/26/2021	3	2	-14.95	Yes	-15	-0.05
5919	5/26/2021	3	3	-14.95	Yes	-15	-0.05
5920	5/26/2021	3	4	-14.95	Yes	-15	-0.05
5921	5/26/2021	3	5	-14.95	Yes	-15	-0.05
5922	5/26/2021	3	6	-14.95	Yes	-15	-0.05
5923	5/26/2021	3	7	-14.95	Yes	-15	-0.05
5924	5/26/2021	3	8	-14.96	Yes	-15	-0.04

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5925	5/26/2021	3	9	-14.96	Yes	-15	-0.04
5926	5/26/2021	3	10	-14.96	Yes	-15	-0.04
5927	5/26/2021	3	11	-14.96	Yes	-15	-0.04
5928	5/26/2021	3	12	-14.96	Yes	-15	-0.04
5929	5/26/2021	4	1	-14.96	Yes	-15	-0.04
5930	5/26/2021	4	2	-14.96	Yes	-15	-0.04
5931	5/26/2021	4	3	-14.95	Yes	-15	-0.05
5932	5/26/2021	4	4	-14.95	Yes	-15	-0.05
5933	5/26/2021	4	5	-14.95	Yes	-15	-0.05
5934	5/26/2021	4	6	-14.95	Yes	-15	-0.05
5935	5/26/2021	4	7	-14.96	Yes	-15	-0.04
5936	5/26/2021	4	8	-14.95	Yes	-15	-0.05
5937	5/26/2021	4	9	-14.96	Yes	-15	-0.04
5938	5/26/2021	4	10	-14.95	Yes	-15	-0.05
5939	5/26/2021	4	11	-14.95	Yes	-15	-0.05
5940	5/26/2021	4	12	-14.96	Yes	-15	-0.04
5941	5/26/2021	5	1	-14.95	Yes	-15	-0.05
5942	5/26/2021	5	2	-14.95	Yes	-15	-0.05
5943	5/26/2021	5	3	-14.95	Yes	-15	-0.05
5944	5/26/2021	5	4	-14.95	Yes	-15	-0.05
5945	5/26/2021	5	5	-14.95	Yes	-15	-0.05
5946	5/26/2021	5	6	-14.95	Yes	-15	-0.05
5947	5/26/2021	5	7	-14.95	Yes	-15	-0.05
5948	5/26/2021	5	8	-14.95	Yes	-15	-0.05
5949	5/26/2021	5	9	-14.95	Yes	-15	-0.05
5950	5/26/2021	5	10	-14.95	Yes	-15	-0.05
5951	5/26/2021	5	11	-14.95	Yes	-15	-0.05
5952	5/26/2021	5	12	-14.94	Yes	-15	-0.06
5953	5/26/2021	6	1	-14.96	Yes	-15	-0.04
5954	5/26/2021	6	2	-14.96	Yes	-15	-0.04
5955	5/26/2021	6	3	-14.96	Yes	-15	-0.04
5956	5/26/2021	6	4	-14.96	Yes	-15	-0.04
5957	5/26/2021	6	5	-14.96	Yes	-15	-0.04
5958	5/26/2021	6	6	-14.94	Yes	-15	-0.06
5959	5/26/2021	6	7	-14.96	Yes	-15	-0.04
5960	5/26/2021	6	8	-14.95	Yes	-15	-0.05
5961	5/26/2021	6	9	-14.95	Yes	-15	-0.05
5962	5/26/2021	6	10	-14.95	Yes	-15	-0.05

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
5963	5/26/2021	6	11	-14.95	Yes	-15	-0.05
5964	5/26/2021	6	12	-14.95	Yes	-15	-0.05
5965	5/26/2021	7	1	42.50	Yes	-15	-57.50
5966	5/26/2021	7	2	45.98	Yes	-15	-60.98
5967	5/26/2021	7	3	57.98	Yes	-15	-72.98
5968	5/26/2021	7	4	55.69	Yes	-15	-70.69
5969	5/26/2021	7	5	60.40	Yes	-15	-75.40
5970	5/26/2021	7	6	46.88	Yes	-15	-61.88
5971	5/26/2021	7	7	45.83	Yes	-15	-60.83
5972	5/26/2021	7	8	41.84	Yes	-15	-56.84
5973	5/26/2021	7	9	44.28	Yes	-15	-59.28
5974	5/26/2021	7	10	44.30	Yes	-15	-59.30
5975	5/26/2021	7	11	43.07	Yes	-15	-58.07
5976	5/26/2021	7	12	41.58	Yes	-15	-56.58
5977	5/26/2021	8	1	51.65	Yes	-15	-66.65
5978	5/26/2021	8	2	46.37	Yes	-15	-61.37
5979	5/26/2021	8	3	49.52	Yes	-15	-64.52
5980	5/26/2021	8	4	40.82	Yes	-15	-55.82
5981	5/26/2021	8	5	43.32	Yes	-15	-58.32
5982	5/26/2021	8	6	42.28	Yes	-15	-57.28
5983	5/26/2021	8	7	42.35	Yes	-15	-57.35
5984	5/26/2021	8	8	32.00	Yes	-15	-47.00
5985	5/26/2021	8	9	33.87	Yes	-15	-48.87
5986	5/26/2021	8	10	31.52	Yes	-15	-46.52
5987	5/26/2021	8	11	31.75	Yes	-15	-46.75
5988	5/26/2021	8	12	30.32	Yes	-15	-45.32
5989	5/26/2021	9	1	31.46	Yes	-15	-46.46
5990	5/26/2021	9	2	31.77	Yes	-15	-46.77
5991	5/26/2021	9	3	32.54	Yes	-15	-47.54
5992	5/26/2021	9	4	31.65	Yes	-15	-46.65
5993	5/26/2021	9	5	31.37	Yes	-15	-46.37
5994	5/26/2021	9	6	31.10	Yes	-15	-46.10
5995	5/26/2021	9	7	30.94	Yes	-15	-45.94
5996	5/26/2021	9	8	30.69	Yes	-15	-45.69
5997	5/26/2021	9	9	28.82	Yes	-15	-43.82
5998	5/26/2021	9	10	29.14	Yes	-15	-44.14
5999	5/26/2021	9	11	28.69	Yes	-15	-43.69
6000	5/26/2021	9	12	29.08	Yes	-15	-44.08

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6001	5/26/2021	10	1	31.43	Yes	-15	-46.43
6002	5/26/2021	10	2	29.02	Yes	-15	-44.02
6003	5/26/2021	10	3	28.23	Yes	-15	-43.23
6004	5/26/2021	10	4	27.31	Yes	-15	-42.31
6005	5/26/2021	10	5	28.20	Yes	-15	-43.20
6006	5/26/2021	10	6	29.60	Yes	-15	-44.60
6007	5/26/2021	10	7	26.86	Yes	-15	-41.86
6008	5/26/2021	10	8	27.07	Yes	-15	-42.07
6009	5/26/2021	10	9	27.08	Yes	-15	-42.08
6010	5/26/2021	10	10	22.60	Yes	-15	-37.60
6011	5/26/2021	10	11	26.73	Yes	-15	-41.73
6012	5/26/2021	10	12	25.44	Yes	-15	-40.44
6013	5/26/2021	11	1	22.41	Yes	-15	-37.41
6014	5/26/2021	11	2	26.64	Yes	-15	-41.64
6015	5/26/2021	11	3	27.55	Yes	-15	-42.55
6016	5/26/2021	11	4	23.74	Yes	-15	-38.74
6017	5/26/2021	11	5	22.33	Yes	-15	-37.33
6018	5/26/2021	11	6	33.48	Yes	-15	-48.48
6019	5/26/2021	11	7	33.63	Yes	-15	-48.63
6020	5/26/2021	11	8	29.74	Yes	-15	-44.74
6021	5/26/2021	11	9	29.71	Yes	-15	-44.71
6022	5/26/2021	11	10	29.11	Yes	-15	-44.11
6023	5/26/2021	11	11	29.09	Yes	-15	-44.09
6024	5/26/2021	11	12	30.00	Yes	-15	-45.00
6025	5/26/2021	12	1	29.72	Yes	1	-28.72
6026	5/26/2021	12	2	30.27	Yes	1	-29.27
6027	5/26/2021	12	3	31.49	Yes	1	-30.49
6028	5/26/2021	12	4	30.88	Yes	1	-29.88
6029	5/26/2021	12	5	32.28	Yes	1	-31.28
6030	5/26/2021	12	6	36.80	Yes	1	-35.80
6031	5/26/2021	12	7	34.87	Yes	1	-33.87
6032	5/26/2021	12	8	33.80	Yes	1	-32.80
6033	5/26/2021	12	9	34.92	Yes	1	-33.92
6034	5/26/2021	12	10	34.27	Yes	1	-33.27
6035	5/26/2021	12	11	37.58	Yes	1	-36.58
6036	5/26/2021	12	12	37.78	Yes	1	-36.78
6037	5/26/2021	13	1	34.76	Yes	-15	-49.76
6038	5/26/2021	13	2	34.23	Yes	-15	-49.23

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6039	5/26/2021	13	3	34.62	Yes	-15	-49.62
6040	5/26/2021	13	4	31.15	Yes	-15	-46.15
6041	5/26/2021	13	5	32.66	Yes	-15	-47.66
6042	5/26/2021	13	6	31.97	Yes	-15	-46.97
6043	5/26/2021	13	7	33.91	Yes	-15	-48.91
6044	5/26/2021	13	8	33.15	Yes	-15	-48.15
6045	5/26/2021	13	9	33.15	Yes	-15	-48.15
6046	5/26/2021	13	10	38.20	Yes	-15	-53.20
6047	5/26/2021	13	11	40.64	Yes	-15	-55.64
6048	5/26/2021	13	12	37.69	Yes	-15	-52.69
6049	5/26/2021	14	1	32.34	Yes	-15	-47.34
6050	5/26/2021	14	2	31.55	Yes	-15	-46.55
6051	5/26/2021	14	3	32.51	Yes	-15	-47.51
6052	5/26/2021	14	4	30.87	Yes	-15	-45.87
6053	5/26/2021	14	5	31.02	Yes	-15	-46.02
6054	5/26/2021	14	6	30.59	Yes	-15	-45.59
6055	5/26/2021	14	7	32.12	Yes	-15	-47.12
6056	5/26/2021	14	8	31.86	Yes	-15	-46.86
6057	5/26/2021	14	9	32.22	Yes	-15	-47.22
6058	5/26/2021	14	10	34.07	Yes	-15	-49.07
6059	5/26/2021	14	11	44.86	Yes	-15	-59.86
6060	5/26/2021	14	12	47.17	Yes	-15	-62.17
6061	5/26/2021	15	1	33.15	Yes	-15	-48.15
6062	5/26/2021	15	2	39.80	Yes	-15	-54.80
6063	5/26/2021	15	3	41.65	Yes	-15	-56.65
6064	5/26/2021	15	4	41.74	Yes	-15	-56.74
6065	5/26/2021	15	5	41.95	Yes	-15	-56.95
6066	5/26/2021	15	6	41.95	Yes	-15	-56.95
6067	5/26/2021	15	7	40.21	Yes	-15	-55.21
6068	5/26/2021	15	8	44.51	Yes	-15	-59.51
6069	5/26/2021	15	9	42.36	Yes	-15	-57.36
6070	5/26/2021	15	10	52.78	Yes	-15	-67.78
6071	5/26/2021	15	11	58.39	Yes	-15	-73.39
6072	5/26/2021	15	12	57.16	Yes	-15	-72.16
6073	5/26/2021	16	1	41.84	Yes	1	-40.84
6074	5/26/2021	16	2	41.59	Yes	1	-40.59
6075	5/26/2021	16	3	35.25	Yes	1	-34.25
6076	5/26/2021	16	4	35.35	Yes	1	-34.35

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6077	5/26/2021	16	5	41.22	Yes	1	-40.22
6078	5/26/2021	16	6	44.21	Yes	1	-43.21
6079	5/26/2021	16	7	35.00	Yes	1	-34.00
6080	5/26/2021	16	8	41.09	Yes	1	-40.09
6081	5/26/2021	16	9	44.21	Yes	1	-43.21
6082	5/26/2021	16	10	44.66	Yes	1	-43.66
6083	5/26/2021	16	11	49.27	Yes	1	-48.27
6084	5/26/2021	16	12	52.35	Yes	1	-51.35
6085	5/26/2021	17	1	31.02	Yes	1	-30.02
6086	5/26/2021	17	2	32.73	Yes	1	-31.73
6087	5/26/2021	17	3	32.02	Yes	1	-31.02
6088	5/26/2021	17	4	31.58	Yes	1	-30.58
6089	5/26/2021	17	5	34.87	Yes	1	-33.87
6090	5/26/2021	17	6	34.71	Yes	1	-33.71
6091	5/26/2021	17	7	49.75	Yes	1	-48.75
6092	5/26/2021	17	8	42.33	Yes	1	-41.33
6093	5/26/2021	17	9	34.23	Yes	1	-33.23
6094	5/26/2021	17	10	33.61	Yes	1	-32.61
6095	5/26/2021	17	11	35.00	Yes	1	-34.00
6096	5/26/2021	17	12	31.05	Yes	1	-30.05
6097	5/26/2021	18	1	30.30	Yes	1	-29.30
6098	5/26/2021	18	2	27.68	Yes	1	-26.68
6099	5/26/2021	18	3	28.74	Yes	1	-27.74
6100	5/26/2021	18	4	29.29	Yes	1	-28.29
6101	5/26/2021	18	5	29.24	Yes	1	-28.24
6102	5/26/2021	18	6	29.00	Yes	1	-28.00
6103	5/26/2021	18	7	35.96	Yes	1	-34.96
6104	5/26/2021	18	8	31.48	Yes	1	-30.48
6105	5/26/2021	18	9	31.62	Yes	1	-30.62
6106	5/26/2021	18	10	32.10	Yes	1	-31.10
6107	5/26/2021	18	11	32.99	Yes	1	-31.99
6108	5/26/2021	18	12	33.06	Yes	1	-32.06
6109	5/29/2021	2	8	1.09	Yes	-15	-16.09
6110	5/29/2021	2	9	27.70	Yes	-15	-42.70
6111	5/29/2021	2	10	27.71	Yes	-15	-42.71
6112	5/29/2021	2	11	27.70	Yes	-15	-42.70
6113	5/29/2021	2	12	27.51	Yes	-15	-42.51
6114	5/29/2021	3	1	27.28	Yes	-15	-42.28

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6115	5/29/2021	3	2	25.84	Yes	-15	-40.84
6116	5/29/2021	3	3	25.84	Yes	-15	-40.84
6117	5/29/2021	3	4	25.05	Yes	-15	-40.05
6118	5/29/2021	3	5	24.91	Yes	-15	-39.91
6119	5/29/2021	3	6	25.02	Yes	-15	-40.02
6120	5/29/2021	3	7	1.15	Yes	-15	-16.15
6121	5/29/2021	3	8	1.15	Yes	-15	-16.15
6122	5/29/2021	3	9	1.15	Yes	-15	-16.15
6123	5/29/2021	3	10	1.14	Yes	-15	-16.14
6124	5/29/2021	3	11	1.14	Yes	-15	-16.14
6125	5/29/2021	3	12	1.14	Yes	-15	-16.14
6126	5/29/2021	4	1	26.38	Yes	-15	-41.38
6127	5/29/2021	4	2	26.58	Yes	-15	-41.58
6128	5/29/2021	4	3	25.12	Yes	-15	-40.12
6129	5/29/2021	4	4	24.64	Yes	-15	-39.64
6130	5/29/2021	4	5	26.33	Yes	-15	-41.33
6131	5/29/2021	4	6	26.81	Yes	-15	-41.81
6132	5/29/2021	4	7	1.16	Yes	-15	-16.16
6133	5/29/2021	4	8	1.16	Yes	-15	-16.16
6134	5/29/2021	4	9	1.16	Yes	-15	-16.16
6135	5/29/2021	4	10	1.15	Yes	-15	-16.15
6136	5/29/2021	4	11	1.15	Yes	-15	-16.15
6137	5/29/2021	4	12	1.15	Yes	-15	-16.15
6138	5/29/2021	5	1	26.95	Yes	-15	-41.95
6139	5/29/2021	5	2	27.53	Yes	-15	-42.53
6140	5/29/2021	5	3	27.53	Yes	-15	-42.53
6141	5/29/2021	5	4	27.35	Yes	-15	-42.35
6142	5/29/2021	5	5	27.35	Yes	-15	-42.35
6143	5/29/2021	5	6	27.21	Yes	-15	-42.21
6144	5/29/2021	5	7	1.15	Yes	-15	-16.15
6145	5/29/2021	5	8	1.15	Yes	-15	-16.15
6146	5/29/2021	5	9	1.15	Yes	-15	-16.15
6147	5/29/2021	5	10	1.16	Yes	-15	-16.16
6148	5/29/2021	5	11	1.16	Yes	-15	-16.16
6149	5/29/2021	5	12	1.16	Yes	-15	-16.16
6150	5/29/2021	6	1	27.74	Yes	-15	-42.74
6151	5/29/2021	6	2	27.66	Yes	-15	-42.66
6152	5/29/2021	6	3	27.56	Yes	-15	-42.56

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6153	5/29/2021	6	4	27.68	Yes	-15	-42.68
6154	5/29/2021	6	5	28.01	Yes	-15	-43.01
6155	5/29/2021	6	6	28.06	Yes	-15	-43.06
6156	5/29/2021	6	7	27.88	Yes	-15	-42.88
6157	5/29/2021	6	8	27.76	Yes	-15	-42.76
6158	5/29/2021	6	9	27.39	Yes	-15	-42.39
6159	5/29/2021	6	10	27.05	Yes	-15	-42.05
6160	5/29/2021	6	11	26.94	Yes	-15	-41.94
6161	5/29/2021	6	12	26.87	Yes	-15	-41.87
6162	5/29/2021	7	1	27.55	Yes	-15	-42.55
6163	5/29/2021	7	2	27.24	Yes	-15	-42.24
6164	5/29/2021	7	3	25.10	Yes	-15	-40.10
6165	5/29/2021	7	4	25.29	Yes	-15	-40.29
6166	5/29/2021	7	5	24.70	Yes	-15	-39.70
6167	5/29/2021	7	6	24.65	Yes	-15	-39.65
6168	5/29/2021	7	7	25.33	Yes	-15	-40.33
6169	5/29/2021	7	8	1.15	Yes	-15	-16.15
6170	5/29/2021	7	9	1.13	Yes	-15	-16.13
6171	5/29/2021	7	10	17.49	Yes	-15	-32.49
6172	5/29/2021	7	11	15.29	Yes	-15	-30.29
6173	5/29/2021	7	12	1.01	Yes	-15	-16.01
6174	5/29/2021	8	1	14.15	Yes	1	-13.15
6175	5/29/2021	8	2	14.54	Yes	1	-13.54
6176	5/29/2021	8	3	14.54	Yes	1	-13.54
6177	5/29/2021	8	4	0.98	Yes	1	0.02
6178	5/29/2021	8	5	1.02	Yes	1	-0.02
6179	5/29/2021	8	6	0.00	Yes	1	1.00
6180	5/29/2021	8	7	-0.01	Yes	1	1.01
6181	5/29/2021	8	8	-0.01	Yes	1	1.01
6182	5/29/2021	8	9	-0.01	Yes	1	1.01
6183	5/29/2021	8	10	-0.01	Yes	1	1.01
6184	5/29/2021	8	11	-0.01	Yes	1	1.01
6185	5/29/2021	8	12	-0.01	Yes	1	1.01
6186	5/29/2021	9	1	15.03	Yes	-15	-30.03
6187	5/29/2021	9	2	15.70	Yes	-15	-30.70
6188	5/29/2021	9	3	15.79	Yes	-15	-30.79
6189	5/29/2021	9	4	14.00	Yes	-15	-29.00
6190	5/29/2021	9	5	13.64	Yes	-15	-28.64

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6191	5/29/2021	9	6	14.02	Yes	-15	-29.02
6192	5/29/2021	9	7	13.93	Yes	-15	-28.93
6193	5/29/2021	9	8	13.87	Yes	-15	-28.87
6194	5/29/2021	9	9	13.87	Yes	-15	-28.87
6195	5/29/2021	9	10	12.12	Yes	-15	-27.12
6196	5/29/2021	9	11	12.53	Yes	-15	-27.53
6197	5/29/2021	9	12	12.05	Yes	-15	-27.05
6198	5/29/2021	10	1	14.81	Yes	-15	-29.81
6199	5/29/2021	10	2	15.80	Yes	-15	-30.80
6200	5/29/2021	10	3	15.84	Yes	-15	-30.84
6201	5/29/2021	10	4	15.26	Yes	-15	-30.26
6202	5/29/2021	10	5	14.83	Yes	-15	-29.83
6203	5/29/2021	10	6	14.86	Yes	-15	-29.86
6204	5/29/2021	10	7	1.08	Yes	-15	-16.08
6205	5/29/2021	10	8	14.56	Yes	-15	-29.56
6206	5/29/2021	10	9	14.62	Yes	-15	-29.62
6207	5/29/2021	10	10	15.17	Yes	-15	-30.17
6208	5/29/2021	10	11	14.53	Yes	-15	-29.53
6209	5/29/2021	10	12	14.48	Yes	-15	-29.48
6210	5/29/2021	11	1	15.16	Yes	-15	-30.16
6211	5/29/2021	11	2	14.78	Yes	-15	-29.78
6212	5/29/2021	11	3	14.81	Yes	-15	-29.81
6213	5/29/2021	11	4	14.75	Yes	-15	-29.75
6214	5/29/2021	11	5	14.75	Yes	-15	-29.75
6215	5/29/2021	11	6	14.75	Yes	-15	-29.75
6216	5/29/2021	11	7	14.59	Yes	-15	-29.59
6217	5/29/2021	11	8	14.34	Yes	-15	-29.34
6218	5/29/2021	11	9	14.34	Yes	-15	-29.34
6219	5/29/2021	11	10	12.05	Yes	-15	-27.05
6220	5/29/2021	11	11	12.77	Yes	-15	-27.77
6221	5/29/2021	11	12	12.05	Yes	-15	-27.05
6222	5/29/2021	12	1	13.52	Yes	-15	-28.52
6223	5/29/2021	12	2	13.48	Yes	-15	-28.48
6224	5/29/2021	12	3	11.00	Yes	-15	-26.00
6225	5/29/2021	12	4	10.07	Yes	-15	-25.07
6226	5/29/2021	12	5	12.45	Yes	-15	-27.45
6227	5/29/2021	12	6	12.83	Yes	-15	-27.83
6228	5/29/2021	12	7	12.81	Yes	-15	-27.81

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6229	5/29/2021	12	8	12.81	Yes	-15	-27.81
6230	5/29/2021	12	9	11.71	Yes	-15	-26.71
6231	5/29/2021	12	10	9.63	Yes	-15	-24.63
6232	5/29/2021	12	11	9.63	Yes	-15	-24.63
6233	5/29/2021	12	12	9.63	Yes	-15	-24.63
6234	5/29/2021	13	1	12.19	Yes	-15	-27.19
6235	5/29/2021	13	2	12.19	Yes	-15	-27.19
6236	5/29/2021	13	3	12.79	Yes	-15	-27.79
6237	5/29/2021	13	4	2.63	Yes	-15	-17.63
6238	5/29/2021	13	5	1.86	Yes	-15	-16.86
6239	5/29/2021	13	6	4.56	Yes	-15	-19.56
6240	5/29/2021	13	7	9.66	Yes	-15	-24.66
6241	5/29/2021	13	8	11.68	Yes	-15	-26.68
6242	5/29/2021	13	9	6.67	Yes	-15	-21.67
6243	5/29/2021	13	10	0.91	Yes	-15	-15.91
6244	5/29/2021	13	11	0.91	Yes	-15	-15.91
6245	5/29/2021	13	12	1.84	Yes	-15	-16.84
6246	5/29/2021	14	1	1.05	Yes	-15	-16.05
6247	5/29/2021	14	2	1.05	Yes	-15	-16.05
6248	5/29/2021	14	3	1.05	Yes	-15	-16.05
6249	5/29/2021	14	4	1.05	Yes	-15	-16.05
6250	5/29/2021	14	5	1.05	Yes	-15	-16.05
6251	5/29/2021	14	6	1.05	Yes	-15	-16.05
6252	5/29/2021	14	7	1.93	Yes	-15	-16.93
6253	5/29/2021	14	8	1.93	Yes	-15	-16.93
6254	5/29/2021	14	9	1.93	Yes	-15	-16.93
6255	5/29/2021	14	10	1.92	Yes	-15	-16.92
6256	5/29/2021	14	11	1.92	Yes	-15	-16.92
6257	5/29/2021	14	12	5.29	Yes	-15	-20.29
6258	5/29/2021	15	1	1.93	Yes	-15	-16.93
6259	5/29/2021	15	2	1.93	Yes	-15	-16.93
6260	5/29/2021	15	3	1.93	Yes	-15	-16.93
6261	5/29/2021	15	4	-0.01	Yes	-15	-14.99
6262	5/29/2021	15	5	1.00	Yes	-15	-16.00
6263	5/29/2021	15	6	1.93	Yes	-15	-16.93
6264	5/29/2021	15	7	1.89	Yes	-15	-16.89
6265	5/29/2021	15	8	5.86	Yes	-15	-20.86
6266	5/29/2021	15	9	1.95	Yes	-15	-16.95

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6267	5/29/2021	15	10	1.96	Yes	-15	-16.96
6268	5/29/2021	15	11	14.84	Yes	-15	-29.84
6269	5/29/2021	15	12	12.13	Yes	-15	-27.13
6270	5/29/2021	16	1	-0.01	Yes	-15	-14.99
6271	5/29/2021	16	2	-0.01	Yes	-15	-14.99
6272	5/29/2021	16	3	-0.01	Yes	-15	-14.99
6273	5/29/2021	16	4	11.87	Yes	-15	-26.87
6274	5/29/2021	16	5	1.89	Yes	-15	-16.89
6275	5/29/2021	16	6	13.65	Yes	-15	-28.65
6276	5/29/2021	16	7	15.79	Yes	-15	-30.79
6277	5/29/2021	16	8	15.79	Yes	-15	-30.79
6278	5/29/2021	16	9	16.52	Yes	-15	-31.52
6279	5/29/2021	16	10	15.91	Yes	-15	-30.91
6280	5/29/2021	16	11	16.01	Yes	-15	-31.01
6281	5/29/2021	16	12	15.83	Yes	-15	-30.83
6282	5/29/2021	17	1	11.74	Yes	-15	-26.74
6283	5/29/2021	17	2	7.97	Yes	-15	-22.97
6284	5/29/2021	17	3	7.05	Yes	-15	-22.05
6285	5/29/2021	17	4	12.25	Yes	-15	-27.25
6286	5/29/2021	17	5	15.51	Yes	-15	-30.51
6287	5/29/2021	17	6	15.51	Yes	-15	-30.51
6288	5/29/2021	17	7	18.66	Yes	-15	-33.66
6289	5/29/2021	17	8	19.18	Yes	-15	-34.18
6290	5/29/2021	17	9	19.18	Yes	-15	-34.18
6291	5/29/2021	17	10	19.31	Yes	-15	-34.31
6292	5/29/2021	17	11	17.56	Yes	-15	-32.56
6293	5/29/2021	17	12	15.98	Yes	-15	-30.98
6294	5/29/2021	18	1	20.24	Yes	-15	-35.24
6295	5/29/2021	18	2	18.90	Yes	-15	-33.90
6296	5/29/2021	18	3	19.28	Yes	-15	-34.28
6297	5/29/2021	18	4	20.01	Yes	-15	-35.01
6298	5/29/2021	18	5	21.11	Yes	-15	-36.11
6299	5/29/2021	18	6	21.74	Yes	-15	-36.74
6300	5/29/2021	18	7	21.78	Yes	-15	-36.78
6301	5/29/2021	18	8	23.59	Yes	-15	-38.59
6302	5/29/2021	18	9	24.13	Yes	-15	-39.13
6303	5/29/2021	18	10	25.90	Yes	-15	-40.90
6304	5/29/2021	18	11	26.75	Yes	-15	-41.75

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6305	5/29/2021	18	12	27.95	Yes	-15	-42.95
6306	5/29/2021	19	1	27.95	Yes	-15	-42.95
6307	5/29/2021	19	2	19.77	Yes	-15	-34.77
6308	5/29/2021	19	3	21.49	Yes	-15	-36.49
6309	5/29/2021	19	4	23.42	Yes	-15	-38.42
6310	5/29/2021	19	5	25.63	Yes	-15	-40.63
6311	5/29/2021	19	6	26.89	Yes	-15	-41.89
6312	5/29/2021	19	7	27.52	Yes	-15	-42.52
6313	5/29/2021	19	8	29.17	Yes	-15	-44.17
6314	5/29/2021	19	9	30.22	Yes	-15	-45.22
6315	5/29/2021	19	10	32.84	Yes	-15	-47.84
6316	5/29/2021	19	11	38.92	Yes	-15	-53.92
6317	5/29/2021	19	12	40.67	Yes	-15	-55.67
6318	5/29/2021	20	1	26.11	Yes	-15	-41.11
6319	5/29/2021	20	2	27.06	Yes	-15	-42.06
6320	5/29/2021	20	3	28.18	Yes	-15	-43.18
6321	5/29/2021	20	4	30.68	Yes	-15	-45.68
6322	5/29/2021	20	5	30.94	Yes	-15	-45.94
6323	5/29/2021	20	6	34.32	Yes	-15	-49.32
6324	5/29/2021	20	7	36.60	Yes	-15	-51.60
6325	5/29/2021	20	8	38.58	Yes	-15	-53.58
6326	5/29/2021	20	9	37.84	Yes	-15	-52.84
6327	5/29/2021	20	10	38.50	Yes	-15	-53.50
6328	5/29/2021	20	11	40.71	Yes	-15	-55.71
6329	5/29/2021	20	12	41.43	Yes	-15	-56.43
6330	5/29/2021	21	1	44.21	Yes	1	-43.21
6331	5/29/2021	21	2	37.16	Yes	1	-36.16
6332	5/29/2021	21	3	37.10	Yes	1	-36.10
6333	5/29/2021	21	4	40.28	Yes	1	-39.28
6334	5/29/2021	21	5	37.89	Yes	1	-36.89
6335	5/29/2021	21	6	36.89	Yes	1	-35.89
6336	5/29/2021	21	7	34.95	Yes	1	-33.95
6337	5/29/2021	21	8	34.58	Yes	1	-33.58
6338	5/29/2021	21	9	33.00	Yes	1	-32.00
6339	5/29/2021	21	10	32.05	Yes	1	-31.05
6340	5/29/2021	21	11	32.00	Yes	1	-31.00
6341	5/29/2021	21	12	30.51	Yes	1	-29.51
6342	5/29/2021	22	1	1.10	Yes	1	-0.10

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6343	5/29/2021	22	2	1.10	Yes	1	-0.10
6344	5/29/2021	22	3	1.10	Yes	1	-0.10
6345	5/29/2021	22	4	1.10	Yes	1	-0.10
6346	5/29/2021	22	5	1.10	Yes	1	-0.10
6347	5/29/2021	22	6	1.10	Yes	1	-0.10
6348	5/29/2021	22	7	1.19	Yes	1	-0.19
6349	5/29/2021	22	8	1.19	Yes	1	-0.19
6350	5/29/2021	22	9	1.18	Yes	1	-0.18
6351	5/29/2021	22	10	1.18	Yes	1	-0.18
6352	5/29/2021	22	11	1.18	Yes	1	-0.18
6353	5/29/2021	22	12	1.17	Yes	1	-0.17
6354	5/29/2021	23	1	1.22	Yes	-15	-16.22
6355	5/29/2021	23	2	1.22	Yes	-15	-16.22
6356	5/29/2021	23	3	1.21	Yes	-15	-16.21
6357	5/29/2021	23	4	1.20	Yes	-15	-16.20
6358	5/29/2021	23	5	1.19	Yes	-15	-16.19
6359	5/29/2021	23	6	1.17	Yes	-15	-16.17
6360	5/29/2021	23	7	1.16	Yes	-15	-16.16
6361	5/29/2021	23	8	1.16	Yes	-15	-16.16
6362	5/29/2021	23	9	1.16	Yes	-15	-16.16
6363	5/29/2021	23	10	1.16	Yes	-15	-16.16
6364	5/29/2021	23	11	1.16	Yes	-15	-16.16
6365	5/29/2021	23	12	1.16	Yes	-15	-16.16
6366	5/29/2021	24	1	1.08	Yes	-15	-16.08
6367	5/29/2021	24	2	1.08	Yes	-15	-16.08
6368	5/29/2021	24	3	1.08	Yes	-15	-16.08
6369	5/29/2021	24	4	1.11	Yes	-15	-16.11
6370	5/29/2021	24	5	1.10	Yes	-15	-16.10
6371	5/29/2021	24	6	1.10	Yes	-15	-16.10
6372	5/29/2021	24	7	1.07	Yes	-15	-16.07
6373	5/29/2021	24	8	1.07	Yes	-15	-16.07
6374	5/29/2021	24	9	1.07	Yes	-15	-16.07
6375	5/29/2021	24	10	1.10	Yes	-15	-16.10
6376	5/29/2021	24	11	1.09	Yes	-15	-16.09
6377	5/29/2021	24	12	1.04	Yes	-15	-16.04
6378	5/30/2021	1	1	1.15	Yes	1	-0.15
6379	5/30/2021	1	2	1.16	Yes	1	-0.16
6380	5/30/2021	1	3	1.16	Yes	1	-0.16

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6381	5/30/2021	1	4	1.15	Yes	1	-0.15
6382	5/30/2021	1	5	1.15	Yes	1	-0.15
6383	5/30/2021	1	6	1.15	Yes	1	-0.15
6384	5/30/2021	1	7	1.16	Yes	1	-0.16
6385	5/30/2021	1	8	1.16	Yes	1	-0.16
6386	5/30/2021	1	9	1.16	Yes	1	-0.16
6387	5/30/2021	1	10	1.15	Yes	1	-0.15
6388	5/30/2021	1	11	1.14	Yes	1	-0.14
6389	5/30/2021	1	12	1.14	Yes	1	-0.14
6390	5/30/2021	2	1	1.13	Yes	1	-0.13
6391	5/30/2021	2	2	1.14	Yes	1	-0.14
6392	5/30/2021	2	3	1.13	Yes	1	-0.13
6393	5/30/2021	2	4	1.15	Yes	1	-0.15
6394	5/30/2021	2	5	1.15	Yes	1	-0.15
6395	5/30/2021	2	6	1.15	Yes	1	-0.15
6396	5/30/2021	2	7	1.13	Yes	1	-0.13
6397	5/30/2021	2	8	1.13	Yes	1	-0.13
6398	5/30/2021	2	9	1.13	Yes	1	-0.13
6399	5/30/2021	2	10	1.13	Yes	1	-0.13
6400	5/30/2021	2	11	1.12	Yes	1	-0.12
6401	5/30/2021	2	12	1.12	Yes	1	-0.12
6402	5/30/2021	3	1	1.16	Yes	1	-0.16
6403	5/30/2021	3	2	1.16	Yes	1	-0.16
6404	5/30/2021	3	3	1.16	Yes	1	-0.16
6405	5/30/2021	3	4	1.15	Yes	1	-0.15
6406	5/30/2021	3	5	1.15	Yes	1	-0.15
6407	5/30/2021	3	6	1.15	Yes	1	-0.15
6408	5/30/2021	3	7	1.15	Yes	1	-0.15
6409	5/30/2021	3	8	1.15	Yes	1	-0.15
6410	5/30/2021	3	9	1.15	Yes	1	-0.15
6411	5/30/2021	3	10	1.09	Yes	1	-0.09
6412	5/30/2021	3	11	1.09	Yes	1	-0.09
6413	5/30/2021	3	12	1.09	Yes	1	-0.09
6414	5/30/2021	4	1	1.15	Yes	1	-0.15
6415	5/30/2021	4	2	1.15	Yes	1	-0.15
6416	5/30/2021	4	3	1.15	Yes	1	-0.15
6417	5/30/2021	4	4	1.15	Yes	1	-0.15
6418	5/30/2021	4	5	1.15	Yes	1	-0.15

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6419	5/30/2021	4	6	1.15	Yes	1	-0.15
6420	5/30/2021	4	7	1.15	Yes	1	-0.15
6421	5/30/2021	4	8	1.15	Yes	1	-0.15
6422	5/30/2021	4	9	1.15	Yes	1	-0.15
6423	5/30/2021	4	10	1.15	Yes	1	-0.15
6424	5/30/2021	4	11	1.15	Yes	1	-0.15
6425	5/30/2021	4	12	1.15	Yes	1	-0.15
6426	5/30/2021	5	1	1.15	Yes	1	-0.15
6427	5/30/2021	5	2	1.15	Yes	1	-0.15
6428	5/30/2021	5	3	1.15	Yes	1	-0.15
6429	5/30/2021	5	4	1.15	Yes	1	-0.15
6430	5/30/2021	5	5	1.15	Yes	1	-0.15
6431	5/30/2021	5	6	1.15	Yes	1	-0.15
6432	5/30/2021	5	7	1.15	Yes	1	-0.15
6433	5/30/2021	5	8	1.15	Yes	1	-0.15
6434	5/30/2021	5	9	1.15	Yes	1	-0.15
6435	5/30/2021	5	10	1.15	Yes	1	-0.15
6436	5/30/2021	5	11	1.15	Yes	1	-0.15
6437	5/30/2021	5	12	1.15	Yes	1	-0.15
6438	5/30/2021	6	1	1.15	Yes	-15	-16.15
6439	5/30/2021	6	2	1.15	Yes	-15	-16.15
6440	5/30/2021	6	3	1.15	Yes	-15	-16.15
6441	5/30/2021	6	4	1.15	Yes	-15	-16.15
6442	5/30/2021	6	5	1.15	Yes	-15	-16.15
6443	5/30/2021	6	6	1.15	Yes	-15	-16.15
6444	5/30/2021	6	7	1.15	Yes	-15	-16.15
6445	5/30/2021	6	8	1.15	Yes	-15	-16.15
6446	5/30/2021	6	9	1.15	Yes	-15	-16.15
6447	5/30/2021	6	10	1.14	Yes	-15	-16.14
6448	5/30/2021	6	11	1.14	Yes	-15	-16.14
6449	5/30/2021	6	12	1.14	Yes	-15	-16.14
6450	5/30/2021	7	1	1.14	Yes	1	-0.14
6451	5/30/2021	7	2	1.14	Yes	1	-0.14
6452	5/30/2021	7	3	1.14	Yes	1	-0.14
6453	5/30/2021	7	4	1.16	Yes	1	-0.16
6454	5/30/2021	7	5	1.15	Yes	1	-0.15
6455	5/30/2021	7	6	1.15	Yes	1	-0.15
6456	5/30/2021	7	7	1.13	Yes	1	-0.13

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6457	5/30/2021	7	8	1.12	Yes	1	-0.12
6458	5/30/2021	7	9	1.11	Yes	1	-0.11
6459	5/30/2021	7	10	1.12	Yes	1	-0.12
6460	5/30/2021	7	11	1.08	Yes	1	-0.08
6461	5/30/2021	7	12	1.08	Yes	1	-0.08
6462	5/30/2021	8	1	1.08	Yes	1	-0.08
6463	5/30/2021	8	2	1.12	Yes	1	-0.12
6464	5/30/2021	8	3	1.12	Yes	1	-0.12
6465	5/30/2021	8	4	1.08	Yes	1	-0.08
6466	5/30/2021	8	5	0.00	Yes	1	1.00
6467	5/30/2021	8	6	0.00	Yes	1	1.00
6468	5/30/2021	8	7	-0.01	Yes	1	1.01
6469	5/30/2021	8	8	-0.01	Yes	1	1.01
6470	5/30/2021	8	9	-0.01	Yes	1	1.01
6471	5/30/2021	8	10	-0.01	Yes	1	1.01
6472	5/30/2021	8	11	-0.01	Yes	1	1.01
6473	5/30/2021	8	12	-0.01	Yes	1	1.01
6474	5/30/2021	9	1	0.00	Yes	-15	-15.00
6475	5/30/2021	9	2	0.00	Yes	-15	-15.00
6476	5/30/2021	9	3	3.83	Yes	-15	-18.83
6477	5/30/2021	9	4	1.99	Yes	-15	-16.99
6478	5/30/2021	9	5	0.00	Yes	-15	-15.00
6479	5/30/2021	9	6	0.00	Yes	-15	-15.00
6480	5/30/2021	9	7	-0.01	Yes	-15	-14.99
6481	5/30/2021	9	8	0.00	Yes	-15	-15.00
6482	5/30/2021	9	9	0.00	Yes	-15	-15.00
6483	5/30/2021	9	10	0.00	Yes	-15	-15.00
6484	5/30/2021	9	11	0.00	Yes	-15	-15.00
6485	5/30/2021	9	12	0.00	Yes	-15	-15.00
6486	5/30/2021	10	1	0.99	Yes	-15	-15.99
6487	5/30/2021	10	2	0.98	Yes	-15	-15.98
6488	5/30/2021	10	3	0.98	Yes	-15	-15.98
6489	5/30/2021	10	4	3.29	Yes	-15	-18.29
6490	5/30/2021	10	5	0.01	Yes	-15	-15.01
6491	5/30/2021	10	6	0.00	Yes	-15	-15.00
6492	5/30/2021	10	7	3.00	Yes	-15	-18.00
6493	5/30/2021	10	8	2.00	Yes	-15	-17.00
6494	5/30/2021	10	9	2.00	Yes	-15	-17.00

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6495	5/30/2021	10	10	2.22	Yes	-15	-17.22
6496	5/30/2021	10	11	0.00	Yes	-15	-15.00
6497	5/30/2021	10	12	6.97	Yes	-15	-21.97
6498	5/30/2021	11	1	11.82	Yes	-15	-26.82
6499	5/30/2021	11	2	1.00	Yes	-15	-16.00
6500	5/30/2021	11	3	3.02	Yes	-15	-18.02
6501	5/30/2021	11	4	1.00	Yes	-15	-16.00
6502	5/30/2021	11	5	1.61	Yes	-15	-16.61
6503	5/30/2021	11	6	1.05	Yes	-15	-16.05
6504	5/30/2021	11	7	1.04	Yes	-15	-16.04
6505	5/30/2021	11	8	1.04	Yes	-15	-16.04
6506	5/30/2021	11	9	1.03	Yes	-15	-16.03
6507	5/30/2021	11	10	1.04	Yes	-15	-16.04
6508	5/30/2021	11	11	1.03	Yes	-15	-16.03
6509	5/30/2021	11	12	1.03	Yes	-15	-16.03
6510	5/30/2021	12	1	1.05	Yes	-15	-16.05
6511	5/30/2021	12	2	1.05	Yes	-15	-16.05
6512	5/30/2021	12	3	1.06	Yes	-15	-16.06
6513	5/30/2021	12	4	1.04	Yes	-15	-16.04
6514	5/30/2021	12	5	1.04	Yes	-15	-16.04
6515	5/30/2021	12	6	1.04	Yes	-15	-16.04
6516	5/30/2021	12	7	7.21	Yes	-15	-22.21
6517	5/30/2021	12	8	2.67	Yes	-15	-17.67
6518	5/30/2021	12	9	7.49	Yes	-15	-22.49
6519	5/30/2021	12	10	1.00	Yes	-15	-16.00
6520	5/30/2021	12	11	0.00	Yes	-15	-15.00
6521	5/30/2021	12	12	11.78	Yes	-15	-26.78
6522	5/30/2021	13	1	16.73	Yes	-15	-31.73
6523	5/30/2021	13	2	16.83	Yes	-15	-31.83
6524	5/30/2021	13	3	17.80	Yes	-15	-32.80
6525	5/30/2021	13	4	16.79	Yes	-15	-31.79
6526	5/30/2021	13	5	17.93	Yes	-15	-32.93
6527	5/30/2021	13	6	16.80	Yes	-15	-31.80
6528	5/30/2021	13	7	16.77	Yes	-15	-31.77
6529	5/30/2021	13	8	12.94	Yes	-15	-27.94
6530	5/30/2021	13	9	17.98	Yes	-15	-32.98
6531	5/30/2021	13	10	17.59	Yes	-15	-32.59
6532	5/30/2021	13	11	18.79	Yes	-15	-33.79

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6533	5/30/2021	13	12	18.38	Yes	-15	-33.38
6534	5/30/2021	14	1	18.55	Yes	-15	-33.55
6535	5/30/2021	14	2	18.55	Yes	-15	-33.55
6536	5/30/2021	14	3	18.57	Yes	-15	-33.57
6537	5/30/2021	14	4	16.80	Yes	-15	-31.80
6538	5/30/2021	14	5	18.01	Yes	-15	-33.01
6539	5/30/2021	14	6	19.40	Yes	-15	-34.40
6540	5/30/2021	14	7	19.12	Yes	-15	-34.12
6541	5/30/2021	14	8	19.41	Yes	-15	-34.41
6542	5/30/2021	14	9	19.48	Yes	-15	-34.48
6543	5/30/2021	14	10	17.90	Yes	-15	-32.90
6544	5/30/2021	14	11	17.16	Yes	-15	-32.16
6545	5/30/2021	14	12	17.16	Yes	-15	-32.16
6546	5/30/2021	15	1	17.25	Yes	-15	-32.25
6547	5/30/2021	15	2	19.15	Yes	-15	-34.15
6548	5/30/2021	15	3	20.14	Yes	-15	-35.14
6549	5/30/2021	15	4	22.83	Yes	-15	-37.83
6550	5/30/2021	15	5	23.29	Yes	-15	-38.29
6551	5/30/2021	15	6	23.29	Yes	-15	-38.29
6552	5/30/2021	15	7	24.74	Yes	-15	-39.74
6553	5/30/2021	15	8	24.76	Yes	-15	-39.76
6554	5/30/2021	15	9	25.82	Yes	-15	-40.82
6555	5/30/2021	15	10	30.49	Yes	-15	-45.49
6556	5/30/2021	15	11	29.49	Yes	-15	-44.49
6557	5/30/2021	15	12	30.36	Yes	-15	-45.36
6558	5/30/2021	16	1	21.32	Yes	-15	-36.32
6559	5/30/2021	16	2	21.91	Yes	-15	-36.91
6560	5/30/2021	16	3	23.46	Yes	-15	-38.46
6561	5/30/2021	16	4	28.75	Yes	-15	-43.75
6562	5/30/2021	16	5	28.05	Yes	-15	-43.05
6563	5/30/2021	16	6	31.29	Yes	-15	-46.29
6564	5/30/2021	16	7	31.37	Yes	-15	-46.37
6565	5/30/2021	16	8	31.07	Yes	-15	-46.07
6566	5/30/2021	16	9	30.84	Yes	-15	-45.84
6567	5/30/2021	16	10	30.80	Yes	-15	-45.80
6568	5/30/2021	16	11	30.81	Yes	-15	-45.81
6569	5/30/2021	16	12	24.43	Yes	-15	-39.43
6570	5/30/2021	17	1	23.57	Yes	-15	-38.57

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6571	5/30/2021	17	2	23.68	Yes	-15	-38.68
6572	5/30/2021	17	3	22.53	Yes	-15	-37.53
6573	5/30/2021	17	4	24.10	Yes	-15	-39.10
6574	5/30/2021	17	5	27.17	Yes	-15	-42.17
6575	5/30/2021	17	6	29.74	Yes	-15	-44.74
6576	5/30/2021	17	7	30.09	Yes	-15	-45.09
6577	5/30/2021	17	8	28.66	Yes	-15	-43.66
6578	5/30/2021	17	9	28.66	Yes	-15	-43.66
6579	5/30/2021	17	10	28.91	Yes	-15	-43.91
6580	5/30/2021	17	11	30.19	Yes	-15	-45.19
6581	5/30/2021	17	12	27.48	Yes	-15	-42.48
6582	5/30/2021	18	1	20.64	Yes	-15	-35.64
6583	5/30/2021	18	2	20.42	Yes	-15	-35.42
6584	5/30/2021	18	3	18.93	Yes	-15	-33.93
6585	5/30/2021	18	4	20.05	Yes	-15	-35.05
6586	5/30/2021	18	5	30.77	Yes	-15	-45.77
6587	5/30/2021	18	6	27.59	Yes	-15	-42.59
6588	5/30/2021	18	7	32.17	Yes	-15	-47.17
6589	5/30/2021	18	8	32.36	Yes	-15	-47.36
6590	5/30/2021	18	9	31.57	Yes	-15	-46.57
6591	5/30/2021	18	10	31.72	Yes	-15	-46.72
6592	5/30/2021	18	11	32.31	Yes	-15	-47.31
6593	5/30/2021	18	12	32.31	Yes	-15	-47.31
6594	5/30/2021	19	1	27.97	Yes	1	-26.97
6595	5/30/2021	19	2	28.04	Yes	1	-27.04
6596	5/30/2021	19	3	28.81	Yes	1	-27.81
6597	5/30/2021	19	4	28.30	Yes	1	-27.30
6598	5/30/2021	19	5	29.48	Yes	1	-28.48
6599	5/30/2021	19	6	31.34	Yes	1	-30.34
6600	5/30/2021	19	7	35.41	Yes	1	-34.41
6601	5/30/2021	19	8	38.58	Yes	1	-37.58
6602	5/30/2021	19	9	45.13	Yes	1	-44.13
6603	5/30/2021	19	10	42.19	Yes	1	-41.19
6604	5/30/2021	19	11	45.31	Yes	1	-44.31
6605	5/30/2021	19	12	50.01	Yes	1	-49.01
6606	5/30/2021	20	1	41.40	Yes	-15	-56.40
6607	5/30/2021	20	2	39.77	Yes	-15	-54.77
6608	5/30/2021	20	3	41.40	Yes	-15	-56.40

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6609	5/30/2021	20	4	41.13	Yes	-15	-56.13
6610	5/30/2021	20	5	41.13	Yes	-15	-56.13
6611	5/30/2021	20	6	43.05	Yes	-15	-58.05
6612	5/30/2021	20	7	41.05	Yes	-15	-56.05
6613	5/30/2021	20	8	46.75	Yes	-15	-61.75
6614	5/30/2021	20	9	46.87	Yes	-15	-61.87
6615	5/30/2021	20	10	41.14	Yes	-15	-56.14
6616	5/30/2021	20	11	41.14	Yes	-15	-56.14
6617	5/30/2021	20	12	41.14	Yes	-15	-56.14
6618	5/30/2021	21	1	38.72	Yes	1	-37.72
6619	5/30/2021	21	2	35.49	Yes	1	-34.49
6620	5/30/2021	21	3	36.98	Yes	1	-35.98
6621	5/30/2021	21	4	39.20	Yes	1	-38.20
6622	5/30/2021	21	5	37.90	Yes	1	-36.90
6623	5/30/2021	21	6	37.11	Yes	1	-36.11
6624	5/30/2021	21	7	39.32	Yes	1	-38.32
6625	5/30/2021	21	8	38.41	Yes	1	-37.41
6626	5/30/2021	21	9	37.38	Yes	1	-36.38
6627	5/30/2021	21	10	37.48	Yes	1	-36.48
6628	5/30/2021	21	11	36.44	Yes	1	-35.44
6629	5/30/2021	21	12	36.54	Yes	1	-35.54
6630	5/30/2021	22	1	39.32	Yes	1	-38.32
6631	5/30/2021	22	2	41.23	Yes	1	-40.23
6632	5/30/2021	22	3	39.32	Yes	1	-38.32
6633	5/30/2021	22	4	41.15	Yes	1	-40.15
6634	5/30/2021	22	5	39.08	Yes	1	-38.08
6635	5/30/2021	22	6	37.59	Yes	1	-36.59
6636	5/30/2021	22	7	38.37	Yes	1	-37.37
6637	5/30/2021	22	8	37.85	Yes	1	-36.85
6638	5/30/2021	22	9	36.64	Yes	1	-35.64
6639	5/30/2021	22	10	37.98	Yes	1	-36.98
6640	5/30/2021	22	11	37.83	Yes	1	-36.83
6641	5/30/2021	22	12	37.06	Yes	1	-36.06
6642	5/30/2021	23	1	1.30	Yes	-15	-16.30
6643	5/30/2021	23	2	1.27	Yes	-15	-16.27
6644	5/30/2021	23	3	1.26	Yes	-15	-16.26
6645	5/30/2021	23	4	1.26	Yes	-15	-16.26
6646	5/30/2021	23	5	1.26	Yes	-15	-16.26

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6647	5/30/2021	23	6	1.23	Yes	-15	-16.23
6648	5/30/2021	23	7	1.21	Yes	-15	-16.21
6649	5/30/2021	23	8	1.20	Yes	-15	-16.20
6650	5/30/2021	23	9	1.19	Yes	-15	-16.19
6651	5/30/2021	23	10	1.20	Yes	-15	-16.20
6652	5/30/2021	23	11	1.20	Yes	-15	-16.20
6653	5/30/2021	23	12	1.18	Yes	-15	-16.18
6654	5/30/2021	24	1	1.20	Yes	1	-0.20
6655	5/30/2021	24	2	1.20	Yes	1	-0.20
6656	5/30/2021	24	3	1.20	Yes	1	-0.20
6657	5/30/2021	24	4	1.19	Yes	1	-0.19
6658	5/30/2021	24	5	1.19	Yes	1	-0.19
6659	5/30/2021	24	6	1.18	Yes	1	-0.18
6660	5/30/2021	24	7	1.17	Yes	1	-0.17
6661	5/30/2021	24	8	1.16	Yes	1	-0.16
6662	5/30/2021	24	9	1.16	Yes	1	-0.16
6663	5/30/2021	24	10	1.15	Yes	1	-0.15
6664	5/30/2021	24	11	1.14	Yes	1	-0.14
6665	5/30/2021	24	12	1.15	Yes	1	-0.15
6666	5/31/2021	1	1	30.31	Yes	-15	-45.31
6667	5/31/2021	1	2	30.51	Yes	-15	-45.51
6668	5/31/2021	1	3	30.42	Yes	-15	-45.42
6669	5/31/2021	1	4	29.93	Yes	-15	-44.93
6670	5/31/2021	1	5	29.74	Yes	-15	-44.74
6671	5/31/2021	1	6	29.38	Yes	-15	-44.38
6672	5/31/2021	1	7	1.16	Yes	-15	-16.16
6673	5/31/2021	1	8	1.16	Yes	-15	-16.16
6674	5/31/2021	1	9	1.16	Yes	-15	-16.16
6675	5/31/2021	1	10	1.15	Yes	-15	-16.15
6676	5/31/2021	1	11	1.15	Yes	-15	-16.15
6677	5/31/2021	1	12	1.15	Yes	-15	-16.15
6678	5/31/2021	2	1	1.14	Yes	-15	-16.14
6679	5/31/2021	2	2	1.14	Yes	-15	-16.14
6680	5/31/2021	2	3	1.14	Yes	-15	-16.14
6681	5/31/2021	2	4	1.14	Yes	-15	-16.14
6682	5/31/2021	2	5	1.14	Yes	-15	-16.14
6683	5/31/2021	2	6	1.14	Yes	-15	-16.14
6684	5/31/2021	2	7	1.16	Yes	-15	-16.16

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6685	5/31/2021	2	8	1.15	Yes	-15	-16.15
6686	5/31/2021	2	9	1.15	Yes	-15	-16.15
6687	5/31/2021	2	10	1.15	Yes	-15	-16.15
6688	5/31/2021	2	11	1.15	Yes	-15	-16.15
6689	5/31/2021	2	12	1.15	Yes	-15	-16.15
6690	5/31/2021	3	1	1.09	Yes	-15	-16.09
6691	5/31/2021	3	2	1.09	Yes	-15	-16.09
6692	5/31/2021	3	3	1.15	Yes	-15	-16.15
6693	5/31/2021	3	4	1.15	Yes	-15	-16.15
6694	5/31/2021	3	5	1.15	Yes	-15	-16.15
6695	5/31/2021	3	6	1.15	Yes	-15	-16.15
6696	5/31/2021	3	7	1.08	Yes	-15	-16.08
6697	5/31/2021	3	8	1.08	Yes	-15	-16.08
6698	5/31/2021	3	9	1.08	Yes	-15	-16.08
6699	5/31/2021	3	10	1.12	Yes	-15	-16.12
6700	5/31/2021	3	11	1.12	Yes	-15	-16.12
6701	5/31/2021	3	12	1.12	Yes	-15	-16.12
6702	5/31/2021	4	1	1.16	Yes	-15	-16.16
6703	5/31/2021	4	2	1.16	Yes	-15	-16.16
6704	5/31/2021	4	3	1.16	Yes	-15	-16.16
6705	5/31/2021	4	4	1.16	Yes	-15	-16.16
6706	5/31/2021	4	5	1.16	Yes	-15	-16.16
6707	5/31/2021	4	6	1.16	Yes	-15	-16.16
6708	5/31/2021	4	7	1.16	Yes	-15	-16.16
6709	5/31/2021	4	8	1.16	Yes	-15	-16.16
6710	5/31/2021	4	9	1.16	Yes	-15	-16.16
6711	5/31/2021	4	10	1.16	Yes	-15	-16.16
6712	5/31/2021	4	11	1.16	Yes	-15	-16.16
6713	5/31/2021	4	12	1.16	Yes	-15	-16.16
6714	5/31/2021	5	1	1.10	Yes	-15	-16.10
6715	5/31/2021	5	2	1.10	Yes	-15	-16.10
6716	5/31/2021	5	3	1.10	Yes	-15	-16.10
6717	5/31/2021	5	4	1.10	Yes	-15	-16.10
6718	5/31/2021	5	5	1.10	Yes	-15	-16.10
6719	5/31/2021	5	6	1.10	Yes	-15	-16.10
6720	5/31/2021	5	7	1.08	Yes	-15	-16.08
6721	5/31/2021	5	8	1.08	Yes	-15	-16.08
6722	5/31/2021	5	9	1.08	Yes	-15	-16.08

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6723	5/31/2021	5	10	1.08	Yes	-15	-16.08
6724	5/31/2021	5	11	1.08	Yes	-15	-16.08
6725	5/31/2021	5	12	1.08	Yes	-15	-16.08
6726	5/31/2021	6	1	1.17	Yes	-15	-16.17
6727	5/31/2021	6	2	1.17	Yes	-15	-16.17
6728	5/31/2021	6	3	1.17	Yes	-15	-16.17
6729	5/31/2021	6	4	1.17	Yes	-15	-16.17
6730	5/31/2021	6	5	1.18	Yes	-15	-16.18
6731	5/31/2021	6	6	1.18	Yes	-15	-16.18
6732	5/31/2021	6	7	1.18	Yes	-15	-16.18
6733	5/31/2021	6	8	1.18	Yes	-15	-16.18
6734	5/31/2021	6	9	1.19	Yes	-15	-16.19
6735	5/31/2021	6	10	1.18	Yes	-15	-16.18
6736	5/31/2021	6	11	1.18	Yes	-15	-16.18
6737	5/31/2021	6	12	1.17	Yes	-15	-16.17
6738	5/31/2021	7	1	1.17	Yes	-15	-16.17
6739	5/31/2021	7	2	1.18	Yes	-15	-16.18
6740	5/31/2021	7	3	1.18	Yes	-15	-16.18
6741	5/31/2021	7	4	1.19	Yes	-15	-16.19
6742	5/31/2021	7	5	1.17	Yes	-15	-16.17
6743	5/31/2021	7	6	1.15	Yes	-15	-16.15
6744	5/31/2021	7	7	1.15	Yes	-15	-16.15
6745	5/31/2021	7	8	1.14	Yes	-15	-16.14
6746	5/31/2021	7	9	1.13	Yes	-15	-16.13
6747	5/31/2021	7	10	1.13	Yes	-15	-16.13
6748	5/31/2021	7	11	1.12	Yes	-15	-16.12
6749	5/31/2021	7	12	1.13	Yes	-15	-16.13
6750	5/31/2021	8	1	26.53	Yes	1	-25.53
6751	5/31/2021	8	2	26.93	Yes	1	-25.93
6752	5/31/2021	8	3	26.95	Yes	1	-25.95
6753	5/31/2021	8	4	26.87	Yes	1	-25.87
6754	5/31/2021	8	5	26.43	Yes	1	-25.43
6755	5/31/2021	8	6	25.30	Yes	1	-24.30
6756	5/31/2021	8	7	25.06	Yes	1	-24.06
6757	5/31/2021	8	8	18.79	Yes	1	-17.79
6758	5/31/2021	8	9	18.02	Yes	1	-17.02
6759	5/31/2021	8	10	18.02	Yes	1	-17.02
6760	5/31/2021	8	11	17.31	Yes	1	-16.31

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6761	5/31/2021	8	12	17.03	Yes	1	-16.03
6762	5/31/2021	9	1	24.33	Yes	-15	-39.33
6763	5/31/2021	9	2	26.58	Yes	-15	-41.58
6764	5/31/2021	9	3	25.72	Yes	-15	-40.72
6765	5/31/2021	9	4	18.68	Yes	-15	-33.68
6766	5/31/2021	9	5	18.77	Yes	-15	-33.77
6767	5/31/2021	9	6	18.70	Yes	-15	-33.70
6768	5/31/2021	9	7	0.97	Yes	-15	-15.97
6769	5/31/2021	9	8	0.97	Yes	-15	-15.97
6770	5/31/2021	9	9	19.18	Yes	-15	-34.18
6771	5/31/2021	9	10	18.89	Yes	-15	-33.89
6772	5/31/2021	9	11	19.37	Yes	-15	-34.37
6773	5/31/2021	9	12	18.90	Yes	-15	-33.90
6774	5/31/2021	10	1	19.74	Yes	-15	-34.74
6775	5/31/2021	10	2	19.26	Yes	-15	-34.26
6776	5/31/2021	10	3	20.66	Yes	-15	-35.66
6777	5/31/2021	10	4	21.55	Yes	-15	-36.55
6778	5/31/2021	10	5	22.31	Yes	-15	-37.31
6779	5/31/2021	10	6	24.88	Yes	-15	-39.88
6780	5/31/2021	10	7	19.36	Yes	-15	-34.36
6781	5/31/2021	10	8	20.35	Yes	-15	-35.35
6782	5/31/2021	10	9	20.75	Yes	-15	-35.75
6783	5/31/2021	10	10	25.42	Yes	-15	-40.42
6784	5/31/2021	10	11	26.01	Yes	-15	-41.01
6785	5/31/2021	10	12	25.40	Yes	-15	-40.40
6786	5/31/2021	11	1	28.98	Yes	-15	-43.98
6787	5/31/2021	11	2	28.35	Yes	-15	-43.35
6788	5/31/2021	11	3	28.22	Yes	-15	-43.22
6789	5/31/2021	11	4	27.81	Yes	-15	-42.81
6790	5/31/2021	11	5	27.66	Yes	-15	-42.66
6791	5/31/2021	11	6	27.85	Yes	-15	-42.85
6792	5/31/2021	11	7	28.50	Yes	-15	-43.50
6793	5/31/2021	11	8	28.32	Yes	-15	-43.32
6794	5/31/2021	11	9	31.51	Yes	-15	-46.51
6795	5/31/2021	11	10	33.08	Yes	-15	-48.08
6796	5/31/2021	11	11	32.20	Yes	-15	-47.20
6797	5/31/2021	11	12	30.57	Yes	-15	-45.57
6798	5/31/2021	12	1	33.98	Yes	-15	-48.98

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6799	5/31/2021	12	2	31.61	Yes	-15	-46.61
6800	5/31/2021	12	3	31.85	Yes	-15	-46.85
6801	5/31/2021	12	4	32.92	Yes	-15	-47.92
6802	5/31/2021	12	5	32.92	Yes	-15	-47.92
6803	5/31/2021	12	6	32.76	Yes	-15	-47.76
6804	5/31/2021	12	7	34.96	Yes	-15	-49.96
6805	5/31/2021	12	8	34.74	Yes	-15	-49.74
6806	5/31/2021	12	9	34.88	Yes	-15	-49.88
6807	5/31/2021	12	10	34.93	Yes	-15	-49.93
6808	5/31/2021	12	11	34.93	Yes	-15	-49.93
6809	5/31/2021	12	12	34.34	Yes	-15	-49.34
6810	5/31/2021	13	1	35.16	Yes	-15	-50.16
6811	5/31/2021	13	2	35.87	Yes	-15	-50.87
6812	5/31/2021	13	3	42.64	Yes	-15	-57.64
6813	5/31/2021	13	4	42.87	Yes	-15	-57.87
6814	5/31/2021	13	5	43.73	Yes	-15	-58.73
6815	5/31/2021	13	6	44.76	Yes	-15	-59.76
6816	5/31/2021	13	7	33.43	Yes	-15	-48.43
6817	5/31/2021	13	8	34.54	Yes	-15	-49.54
6818	5/31/2021	13	9	34.68	Yes	-15	-49.68
6819	5/31/2021	13	10	38.92	Yes	-15	-53.92
6820	5/31/2021	13	11	42.10	Yes	-15	-57.10
6821	5/31/2021	13	12	39.27	Yes	-15	-54.27
6822	5/31/2021	14	1	53.70	Yes	-15	-68.70
6823	5/31/2021	14	2	51.16	Yes	-15	-66.16
6824	5/31/2021	14	3	58.40	Yes	-15	-73.40
6825	5/31/2021	14	4	62.30	Yes	-15	-77.30
6826	5/31/2021	14	5	63.35	Yes	-15	-78.35
6827	5/31/2021	14	6	64.84	Yes	-15	-79.84
6828	5/31/2021	14	7	64.51	Yes	-15	-79.51
6829	5/31/2021	14	8	65.50	Yes	-15	-80.50
6830	5/31/2021	14	9	65.03	Yes	-15	-80.03
6831	5/31/2021	14	10	69.73	Yes	-15	-84.73
6832	5/31/2021	14	11	67.45	Yes	-15	-82.45
6833	5/31/2021	14	12	63.49	Yes	-15	-78.49
6834	5/31/2021	15	1	63.82	Yes	-15	-78.82
6835	5/31/2021	15	2	60.51	Yes	-15	-75.51
6836	5/31/2021	15	3	58.83	Yes	-15	-73.83

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6837	5/31/2021	15	4	56.90	Yes	-15	-71.90
6838	5/31/2021	15	5	59.58	Yes	-15	-74.58
6839	5/31/2021	15	6	61.07	Yes	-15	-76.07
6840	5/31/2021	15	7	59.38	Yes	-15	-74.38
6841	5/31/2021	15	8	61.28	Yes	-15	-76.28
6842	5/31/2021	15	9	64.83	Yes	-15	-79.83
6843	5/31/2021	15	10	70.47	Yes	-15	-85.47
6844	5/31/2021	15	11	72.41	Yes	-15	-87.41
6845	5/31/2021	15	12	72.48	Yes	-15	-87.48
6846	5/31/2021	16	1	68.11	Yes	-15	-83.11
6847	5/31/2021	16	2	68.23	Yes	-15	-83.23
6848	5/31/2021	16	3	72.43	Yes	-15	-87.43
6849	5/31/2021	16	4	59.24	Yes	-15	-74.24
6850	5/31/2021	16	5	67.29	Yes	-15	-82.29
6851	5/31/2021	16	6	64.34	Yes	-15	-79.34
6852	5/31/2021	16	7	58.33	Yes	-15	-73.33
6853	5/31/2021	16	8	60.18	Yes	-15	-75.18
6854	5/31/2021	16	9	64.98	Yes	-15	-79.98
6855	5/31/2021	16	10	69.12	Yes	-15	-84.12
6856	5/31/2021	16	11	73.98	Yes	-15	-88.98
6857	5/31/2021	16	12	74.24	Yes	-15	-89.24
6858	5/31/2021	17	1	54.58	Yes	-15	-69.58
6859	5/31/2021	17	2	52.31	Yes	-15	-67.31
6860	5/31/2021	17	3	52.50	Yes	-15	-67.50
6861	5/31/2021	17	4	52.77	Yes	-15	-67.77
6862	5/31/2021	17	5	58.88	Yes	-15	-73.88
6863	5/31/2021	17	6	52.87	Yes	-15	-67.87
6864	5/31/2021	17	7	81.97	Yes	-15	-96.97
6865	5/31/2021	17	8	87.76	Yes	-15	-102.76
6866	5/31/2021	17	9	80.65	Yes	-15	-95.65
6867	5/31/2021	17	10	112.32	Yes	-15	-127.32
6868	5/31/2021	17	11	104.76	Yes	-15	-119.76
6869	5/31/2021	17	12	82.30	Yes	-15	-97.30
6870	5/31/2021	18	1	52.46	Yes	-15	-67.46
6871	5/31/2021	18	2	48.75	Yes	-15	-63.75
6872	5/31/2021	18	3	54.67	Yes	-15	-69.67
6873	5/31/2021	18	4	72.51	Yes	-15	-87.51
6874	5/31/2021	18	5	70.57	Yes	-15	-85.57

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
6875	5/31/2021	18	6	73.43	Yes	-15	-88.43
6876	5/31/2021	18	7	80.74	Yes	-15	-95.74
6877	5/31/2021	18	8	87.74	Yes	-15	-102.74
6878	5/31/2021	18	9	87.73	Yes	-15	-102.73
6879	5/31/2021	18	10	87.92	Yes	-15	-102.92
6880	5/31/2021	18	11	99.33	Yes	-15	-114.33
6881	5/31/2021	18	12	98.74	Yes	-15	-113.74
6882	5/31/2021	19	1	60.87	Yes	-15	-75.87
6883	5/31/2021	19	2	58.94	Yes	-15	-73.94
6884	5/31/2021	19	3	55.19	Yes	-15	-70.19
6885	5/31/2021	19	4	55.08	Yes	-15	-70.08
6886	5/31/2021	19	5	57.57	Yes	-15	-72.57
6887	5/31/2021	19	6	59.32	Yes	-15	-74.32
6888	5/31/2021	19	7	49.26	Yes	-15	-64.26
6889	5/31/2021	19	8	56.77	Yes	-15	-71.77
6890	5/31/2021	19	9	58.02	Yes	-15	-73.02
6891	5/31/2021	19	10	548.15	Yes	-15	-563.15
6892	5/31/2021	19	11	685.92	Yes	-15	-700.92
6893	5/31/2021	19	12	110.81	Yes	-15	-125.81
6894	5/31/2021	20	1	516.00	Yes	-15	-531.00
6895	5/31/2021	20	2	580.54	Yes	-15	-595.54
6896	5/31/2021	20	3	109.85	Yes	-15	-124.85

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	5/20/2021	18	1	23.14	Yes	29.19	6.05
2	5/20/2021	18	2	22.31	Yes	29.19	6.88
3	5/20/2021	18	3	22.35	Yes	29.19	6.84
4	5/20/2021	18	4	23.35	Yes	29.19	5.84
5	5/20/2021	18	5	23.38	Yes	29.19	5.81
6	5/20/2021	18	6	22.85	Yes	29.19	6.34
7	5/20/2021	18	7	23.35	Yes	29.19	5.84
8	5/20/2021	18	8	25.53	Yes	29.19	3.66
9	5/20/2021	18	9	25.99	Yes	29.19	3.20
10	5/20/2021	18	10	26.19	Yes	29.19	3.00
11	5/20/2021	18	11	26.70	Yes	29.19	2.49
12	5/20/2021	18	12	26.19	Yes	29.19	3.00

Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In May 2021, the CAISO applied the exceptional dispatch bid mitigation to the exceptional dispatches. Table 10 shows the costs by instruction type in May 2021. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were \$ 143. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be \$ 1,615. The cost saving from the exceptional dispatch bid mitigation was \$ 1,471.

Table 10: Bid Mitigation Analysis for May 2021

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
NONTMOD	2	\$ 1,566	\$ 141	\$ 1,425
TMODEL5	1	\$ 49	\$ 3	\$ 46
Total	3	\$ 1,615	\$ 143	\$ 1,471

CERTIFICATE OF SERVICE

I hereby certify that I have served the foregoing document upon the parties listed on the official service lists in the above-referenced proceedings, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2010).

Dated at Folsom, California, this 15th day of July, 2021.

Anna Pascuzzo
Anna Pascuzzo