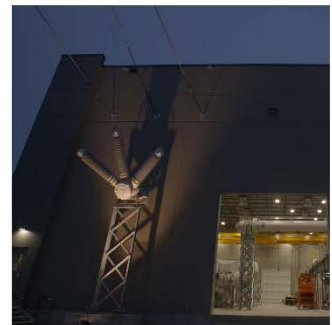


TFO AND DFO RESPONSES TO AESO INFORMATION REQUESTS

ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0



Introduction

The following document presents EPC's response to questions posed by the AESO in their "**P2102 – Transmission Facility Owner (TFO) and Distribution Facility Owner (DFO) Questions related to the Distribution Deficiency**" document and received by EPC on October 3rd, 2019.

Original questions and EPC's responses are provided below. Questions and responses are broken up into the following two categories:

- 1) Question posed to EPC as the Transmission Facility Owner (TFO)
- 2) Question posed to EPC as the Distribution Facility Owner (DFO)

Question posed to EPC as the TFO

TFO Question 1.

"In the event of a contingency of 24.1TR, 24.2TR, or 37.4TR transformers, please provide an overview of procedures that the TFO would take, and the estimated times the TFO expects it would take, to restore service to these transformers. Please include any details on mobile substations available to restore load, time to deploy to site, and time to install/transfer load to the mobile substation."

TFO Response 1.

In the event of a contingency on 24.1TR, 24.2TR, or 37.4TR EPC would follow a process similar to that described in Table 1 and Table 2. EPC does not utilize pre-determined, asset specific, procedure when responding to contingency events as fixed procedures are unable to accommodate the dynamic nature of transmission and distribution systems. In the event of any contingency, EPC would respond accordingly to limit customer and system impact, restore load, and return the faulted transformers to service.

Differences in general response between 37.4TR and 24.1TR/24.2TR result from 37.4TR transformer being part of the distribution feeder 25-37.111 itself.

Without additional development, EPC risks being unable to restore load in accordance with its Distribution System Performance Standard¹ by the year 2021 following a contingency on 24.1TR or 24.2TR transformer. Similarly, EPC risks being unable to restore load in accordance with its Distribution System Performance Standard in the event of a contingency on 37.4TR transformer by the year 2023. Additional details regarding load at risk are presented in EPC's Statement of Need² (SON).

EPC does not have equivalent spare transformers available for 24.1TR, 24.2TR, or 37.4TR transformers. EPC estimates it would take 12 to 14 months to order and install a like for like replacement transformer.

EPC does not own or operate a mobile substation.

¹ "Standard – EPC-ARBP-DSP-ST-0001 – Distribution System Performance", ENMAX Corporation, February 28, 2018

² "Statement of Need – No. 37 Substation 138/25 kV Transformer Addition", Sharon Zhang, ENMAX Power Corporation, August 2018

Table 1: General Response Process – 24.1TR/24.2TR Transformer Contingency

General Response Process - 24.1TR and 24.2TR Transformer Contingency	
1.	<p>Automated processes:</p> <ul style="list-style-type: none"> • Protection relays trip opening the following breakers: (~5 cycles) <ul style="list-style-type: none"> ○ 25 kV transformer breakers ○ 138 kV bus-tie breaker ○ 138 kV line breakers on the same bus section as the faulting transformer. <p>This results in a partial substation outage. All feeders supplied by the faulted transformer are affected. 138 kV transmission lines terminated on the same 138 kV bus section as the faulted transformer are affected.</p> • Distribution Automation (DA) engages: (<1 minute) <ul style="list-style-type: none"> ○ Feeders with DA installed attempt to automatically tie-away to adjacent feeders if capacity is available. • Substation auto-switching engages: (1 minute) <ul style="list-style-type: none"> ○ The motorized disconnect (MD) on the faulting transformer is opened. This removes the transformer from service. ○ 138 kV bus-tie and line breakers re-close restoring the 138 kV bus.
2.	Operations reviews alarms within EPC’s SCADA and OMS (Outage Management System) to respond accordingly.
3.	Operations assess current system state & confirms which element are in/out of service.
4.	Operations assess loading of existing equipment and available tie capacity.
5.	<p>Operations restores feeders using substation switching and feeder ties:</p> <ul style="list-style-type: none"> • Close in the 25 kV bus-tie breakers restoring feeders that did not automatically tie-away. (5-10 minutes) • If additional capacity is required, utilize feeder ties to supply load from an adjacent substation. (5-10 minutes for remote switching; 30-90 Minutes for manual switching) • If capacity exists tie-back feeders that were tied-away automatically. (As system conditions permit)
6.	Operations dispatch crew to site to assess the faulted transformer and perform manual switching if required. (30-90 minutes)
7.	Asset repair or replace the faulted transformer. (12-14 months for like for like replacement)
8.	If capacity does not exist to fully support all load, EPC would manually tie-away feeders to adjacent substations if possible.

Note: Typical response times are provided in brackets

Table 2: General Response Process – 37.4TR Transformer Contingency

General Response Process – 37.4TR Transformer Contingency	
1.	<p>Automated processes:</p> <ul style="list-style-type: none"> • Protection relays trip opening the following breakers: (~5 cycles) <ul style="list-style-type: none"> ○ 13 kV breaker supplying 37.4TR transformer. <p>This results in an outage to feeder 25-37.111.</p> • Distribution Automation (DA) engages: (<1 minute) <ul style="list-style-type: none"> ○ Feeder 25-37.111 attempts to automatically tie-away to feeder 25-24.114 if capacity is available.
2.	Operations reviews alarms within EPC’s SCADA and OMS (Outage Management System) and responds accordingly.
3.	Operations assess current system state & confirms which element are in/out of service.
4.	Operations assess loading of existing equipment and available tie capacity.
5.	Operations dispatch crew to site to assess the faulted transformer and perform manual switching if required. (30-60 minutes)
6.	Asset repair or replace the faulted transformer. (12-14 months for like for like replacement)

Note: Typical response times are provided in brackets

TFO Question 2.

“Is the historic availability of 24.1TR, 24.2TR, and 37.4TR transformers typical for transformers of similar design?”

TFO Response 2.

EPC is not aware of any evidence that would suggest historic availability of 24.1TR, 24.2TR, and 37.4TR transformers differ from other transformers of similar design, age, and installation configuration. Availability rates for 24.1TR, 24.2TR, and 37.4TR transformers are summarized in Table 3 as a percentage of in-service hours over total hours.

Table 3: Summary of Transformer Availability Rates

Transformer	% of Hours In-Service (Jan 2014- Oct 2019)
24.1TR	98%
24.2TR	99%
37.4TR	96%

The majority of transformer outages sustained within EPC substations are the result of minor repairs, preventative maintenance, and capital life cycle replacement. EPC plans these outages during times of off-peak, or light, customer loading. This ensures that sufficient capacity is available to continue to supply all load through the remaining equipment during the outage. 100% of all outages of 24.1TR and 24.2TR transformers were planned outages between January 2014 and October 2019. 78% of all outages of 37.4TR transformer were planned outages between January 2014 and October 2019.

Although historically infrequent, major equipment failures, such as the loss of a transformer, do occur and can result in extended equipment outages. These unplanned outages can have a material impact on EPC's ability to serve load, particularly if they occur during times of on-peak loading. An unplanned outage occurred on 37.4TR transformer on May 4th, 2018, during which a cable fault damaged the bushings and cabinet of 37.4TR transformer. Subsequent repairs took over 44 days to complete during which 37.4TR transformer was out of service.

Without additional development, EPC risks being unable to restore load in accordance with its Distribution System Performance Standard³ by the year 2021 following an unplanned outage of 24.1TR or 24.2TR transformer. Similarly, EPC risks being unable to restore load in accordance its Distribution System Performance Standard in the event of unplanned outage on 37.4TR transformer by the year 2023. Additional details regarding load at risk are presented in EPC's Statement of Need⁴ (SON).

TFO Question 3.

"Please provide the age of 24.1TR, 24.2TR, and 37.4TR transformers. Please describe any planned capital maintenance for these facilities, include durations of planned outages and any measures to be taken during the planned outages to provide service continuity."

TFO Response 3.

The approximate age and year of manufacture for 24.1TR, 24.2TR, and 37.4TR transformers are provided in Table 4.

Table 4: Asset Age – Transformer Summary 24.1TR, 24.2TR, and 37.4TR

Transformer	Manufacturer	Year of Manufacture	Approximate Age of Asset (As of 2019)	Nominal Bushings Voltage (kV)
24.1TR	Pauwels	2000	19 Years	138/24.94
24.2TR	HICO	2010	9 Years	138/24.94
37.4TR	Ferranti Packard	1994	25 Years	13.8/24.94

³ "Standard – EPC-ARBP-DSP-ST-0001 – Distribution System Performance", ENMAX Corporation, February 28, 2018

⁴ "Statement of Need – No. 37 Substation 138/25 kV Transformer Addition", Sharon Zhang, ENMAX Power Corporation, August 2018

Planned capital maintenance programs and projects at ENMAX No. 24 and ENMAX No. 37 Substations are provided in Table 5 and Table 6, respectively. Planned projects are provided through the 2020 calendar year.

Capital maintenance is performed during time periods of off-peak, or reduced, substation loading. This ensures adequate capacity is available to provide continuity of supply to end use customers throughout a program/project's implementation. When a planned equipment outage is required, load is first transferred from the affected equipment to an alternate source, typically within the same substation. Load transfer is typically achieved through the use of bus tie breakers and/or transfer switches within the substation itself. Feeder ties, if present, may also be used to tie-back load to the substation or tie-away load to an adjacent substation.

If an adequate alternate source does not exist within the same substation, load must be tied-away to an adjacent substation through the use of a feeder tie which is case with 37.4TR Transformer. EPC would need to verify that sufficient capacity exists on a feeder before a feeder tie-away solution could be utilized.

Table 5: Ongoing Capital Maintenance Programs at No. 24 & No. 37 Substations

Maintenance Program	Maintenance Interval	Typical Equipment Outage Duration	Typical Service Continuity Measures
Substation Washing	3 Years	1 to 5 Days	EPC hot washes 13 kV outdoor switchgear when feasible. Hot washing avoids the need to take an equipment outage altogether. De-energization is required to wash 138 kV and 25 kV switchgear. EPC stages equipment outages during de-energized washing to limit system impact and avoid loss of supply to end use customers. Affected load is typically fed from an alternate source within the same substation during washing. In some cases, load may be tied to an adjacent substation through a feeder tie if adequate capacity is not available locally.
Transformer Maintenance	5 Years	5 Days	Affected load is typically fed through other transformers within the same substation during transformer maintenance. Occasionally load may be tied to an adjacent substation using feeder ties if adequate capacity is not available locally (as is the case for 37.4TR).
Switch/MD* Maintenance	5 Years	3 Hours	Affected load is typically supplied through an alternate bus section or transformer within the same substation. In some cases, load must be tied back to the same substation or to an adjacent substation through a feeder tie.
Breaker Maintenance	1 to 6 Years**	1 Day	For high voltage (138 kV) breakers, load is typically supplied through the remaining transmission lines, transformers, and bus sections within the same substation. For medium voltage breakers (13kV to 25 kV) affected load is typically supplied through an alternate breaker or bus section within the same substation by means of a tie breaker or transfer switch.

Note: * Motorized Disconnect

** Breaker Maintenance intervals can vary depending on the type of breaker. Usually between 1-6 years. Doble Testing (now Omicron) is also performed on certain applicable breakers.

Table 6: Planned Discrete Capital Maintenance Projects at No. 24 & No. 37 Substations

Substation	Project Description	Start Date	End Date	Anticipated Equipment Outage Duration	Typical Service Continuity Measures
No. 24	Remote Terminal Unit Replacement	2019-09-27	2019-10-25	None	Protection outage is reported on the RTU, no equipment outages required.
	Reactive Maintenance - Switch 81	2019-11-06	2019-11-06	1 Day	24.82L and 24.2TR outages required. Load to be fed from 24.1TR. SW81 to be restored to service or feeders tied away, if required, in the event of a contingency on 24.1TR.
	Pole Relocation - 24.82L Outage	2020-01-27	2020-02-05	10 Days	Power flow studies are completed prior to the outage of 24.82L to verify there is no risk of a transmission constraint. No direct impact to load serving capability of 24 Sub. Load will continue to be served through 24.81L and 24.83L lines.
	Relay replacement - 24.1TR Transformer	Q2 2020	Q2 2020	10 Days	Depending on which relay is required to be tested, a protection outage is typically obtained on the transformer. The transformer will remain in service, carrying load, protected by secondary protection.
No. 37	Relay replacement - 37.2TR Protection	2019-09-30	2019-10-10	11 Days	Load fed from 37.1TR transformer. 37.2TR transformer to be restored to service or load to be tied away in the event of a contingency on 37.1TR.
	SCADA Upgrade - 37.82L Line Outage	2019-11-12	2019-11-15	4 Days	Staged outage required on all substation elements to rewire and commission device. Power flow studies to be completed for transmission line breakers prior to outage. Line load to be fed from alternate transmission lines still in service. 138/13 kV transformer load to be fed by alternate transformers within No. 37 Sub. 13kV/25kV transformer load to be tied away through feeder ties. Feeder breaker load to be fed through alternate breaker, transfer switch or feeder tie.

TFO Question 4.

“Please provide a history of outages on 24.1TR, 24.2TR, and 37.4TR transformers based on the records presently available to the TFO, including the duration of those outages. In the response, please include time, date, duration, cause for each event, and if the transformer outage resulted in a total substation outage.”

TFO Response 4.

Historical planned and unplanned outages on 24.1TR, 24.2TR, and 37.4TR transformers between January 2014 and October 2019 are provided in Table 7, Table 8, and Table 9 respectively. Outage type (planned or unplanned), time, date, duration, and cause of each outage are listed along with an indication of whether the outage resulted in, or was the result of, a total substation trip.

Planned outages are scheduled during time periods of off-peak, or reduced, substation loading. This ensures adequate capacity is available to guarantee continuity of supply to end use customers throughout the outage period. When a planned transformer outage is required, load is first transferred from the affected equipment to an alternate source, typically another transformer of the same voltage class within

the same substation. Load transfer is typically achieved through the use of bus tie breakers and/or transfer switches within the substation itself. Feeder ties, if present, may also be used to tie-back load to the substation or tie-away load to an adjacent substation.

Unplanned outages records for 24.1TR, 24.2TR, and 37.4TR transformers between 2007 and 2013 are provided in Table 10 and cover a time period been 2007 and 2013. Planned outage records are not presently available for this time period.

Table 7: ENMAX No. 24 Substation – 24.1TR Outage History (Jan 2014 – Oct 2019)

Outage Type	Asset	Outage Start (Date & Time)	Outage End (Date & Time)	Duration (Hours)	Cause of Outage	Caused Sub. Trip
Planned	24.1TR	1/14/2014 9:06	1/16/2014 16:08	55.03	BT3 Repairs and return	No
Planned	24.1TR	1/18/2014 9:04	1/18/2014 16:36	7.53	Isolate 138-24.82L	No
Planned	24.1TR	5/5/2014 9:42	5/9/2014 13:21	99.65	Doble, Secondary cable test, Check reversing sw, Gas relay test	No
Planned	24.1TR	6/19/2014 9:07	6/20/2014 13:41	28.57	LTC Maintenance	No
Planned	24.1TR	7/14/2014 9:02	7/14/2014 13:35	4.55	Switch Maintenance on 24.1TR MD	No
Planned	24.1TR	9/20/2014 10:10	9/20/2014 11:56	1.77	Substation Washing	No
Planned	24.1TR	6/6/2015 8:35	6/6/2015 21:47	13.20	24.1TR MD Maintenance	No
Planned	24.1TR	7/6/2015 9:08	7/16/2015 11:30	242.37	Replace 24B138-24.81 with 24B138-24BT3 and bypass 24BT3 with temporary jumpers. Protection settings changes.	No
Planned	24.1TR	9/30/2015 8:37	9/30/2015 10:14	1.62	Top up oil level	No
Planned	24.1TR	10/2/2015 14:04	10/2/2015 17:16	3.20	Fall Substation Washing	No
Planned	24.1TR	10/18/2016 8:17	10/28/2016 15:11	246.90	Remove temp jumpers across 24BT3 and reinstall breaker. Protection settings changes.	No
Planned	24.1TR	5/29/2017 10:52	6/1/2017 15:00	76.13	Replace Dev 90 PT	No
Planned	24.1TR	6/24/2017 8:51	6/24/2017 15:08	6.28	Investigate issues with breaker racking mechanism and control circuit	No
Planned	24.1TR	8/27/2018 11:21	8/31/2018 11:39	96.30	HV CT addition	No
Planned	24.1TR	9/22/2018 20:52	9/22/2018 22:33	1.68	SF6 gas sampling 24B138-24.83. Substation Washing	No

Table 8: ENMAX No. 24 Substation – 24.2TR Outage History (Jan 2014 – Sept 2019)

Outage Type	Asset	Outage Start (Date & Time)	Outage End (Date & Time)	Duration (Hours)	Cause of Outage	Caused Sub. Trip
Planned	24.2TR	1/18/2014 9:04	1/18/2014 16:36	7.53	Isolate 138-24.82L	No
Planned	24.2TR	2/11/2014 9:07	2/12/2014 15:59	30.87	24.2TR Switch Maintenance	No
Planned	24.2TR	5/12/2014 8:39	5/15/2014 15:21	78.70	Doble, Secondary cable test, Check reversing sw	No
Planned	24.2TR	9/20/2014 8:45	9/20/2014 10:08	1.38	Substation Washing	No
Planned	24.2TR	2/3/2015 9:27	2/5/2015 16:56	55.48	24.2TR Oil leak repairs	No
Planned	24.2TR	8/19/2015 9:04	8/20/2015 14:24	29.33	HV Breaker Inspection 24B138-24.82 if crew is	No

Outage Type	Asset	Outage Start (Date & Time)	Outage End (Date & Time)	Duration (Hours)	Cause of Outage	Caused Sub. Trip
					available, Doble 24B138-24.82-CT-C, 65LA138-24.82L-C & 65PT138-24.82-C. Correctives on 24.2TR	
Planned	24.2TR	10/2/2015 8:40	10/2/2015 13:55	5.25	Fall Substation Washing	No
Planned	24.2TR	3/29/2016 9:02	3/31/2016 15:13	54.18	24.2TR Leak repairs	No
Planned	24.2TR	7/16/2016 7:42	7/16/2016 15:42	8.00	Doble Test HV Breaker (24B138-24.82), Doble PT	No
Planned	24.2TR	1/16/2017 9:13	1/16/2017 14:55	5.70	HV SW/MD Maintenance 24.2TR, SW81	No
Planned	24.2TR	7/10/2017 9:30	7/11/2017 16:44	31.23	LTC Maintenance (Reinhausen Type RMV II). Transformer Maintenance.	No

Table 9: ENMAX No. 37 Substation – 37.4TR Outage History (Jan 2014 – Sept 2019)

Outage Type	Asset	Outage Start (Date & Time)	Outage End (Date & Time)	Duration (Hours)	Cause of Outage	Caused Sub. Trip
Planned	37.4TR	6/26/2014 08:58	6/26/2014 15:08	6.17	Isolate 25-37.111-1	No
Planned	37.4TR	7/16/2014 09:28	7/17/2014 14:57	29.48	37.4TR Doble, Transformer MTCE	No
Unplanned	37.4TR	11/18/2015 00:05	11/18/2015 02:44	2.65	Adverse Weather	No
Planned	37.4TR	8/10/2016 07:53	8/10/2016 16:22	8.48	Tan delta primary and secondary cables	No
Planned	37.4TR	9/12/2016 07:07	9/13/2016 15:57	32.83	Tan delta primary and secondary cables	No
Unplanned	37.4TR	11/2/2016 04:28	11/6/2016 14:24	105.93	Emergency Switching on feeder 25-37.111. Public Interference.	No
Planned	37.4TR	1/9/2017 12:25	1/9/2017 14:34	2.15	Roxtek Plug installation in cable ducts	No
Unplanned	37.4TR	3/12/2017 07:02	3/12/2017 07:10	0.13	Unknown cause of trip on 37.1TR bus. Auto-switching impacted 37.2TR and 37.4TR.	Yes
Planned	37.4TR	6/12/2017 13:11	6/15/2017 16:07	74.93	37.2TR LTC Maintenance - Reinhausen Type H	No
Planned	37.4TR	7/31/2017 07:03	8/4/2017 12:22	101.32	37.1TR Doble Testing	No
Planned	37.4TR	10/20/2017 20:32	10/21/2017 16:44	20.20	138-39.82L planned outage. Pre-contingency load tie-away.	No
Planned	37.4TR	10/27/2017 04:45	10/28/2017 22:38	41.88	138-38.82L outage. Pre-contingency load tie-away.	No
Planned	37.4TR	11/1/2017 07:17	11/12/2017 11:51	268.57	Line Protection Upgrade	No
Unplanned	37.4TR	5/4/2018 15:35	6/18/2018 10:27	1074.87	37.4TR Trip. Damaged 37.4TR MV Bushings and cabinet due to cable fault. NOTE: Duration reflects the total time 37.4TR was unavailable, and not customer outage duration.	No
Planned	37.4TR	6/19/2018 08:53	6/19/2018 11:39	2.77	Measure cell door clearance	No

Outage Type	Asset	Outage Start (Date & Time)	Outage End (Date & Time)	Duration (Hours)	Cause of Outage	Caused Sub. Trip
Planned	37.4TR	7/25/2018 06:39	7/26/2018 14:34	31.92	Tapchanger Inspection. Oil sampling MT, TC	No
Planned	37.4TR	11/12/2018 08:04	11/12/2018 14:55	6.85	138-37.81L outage and 37.1TR outage. To relieve load on 37.2TR, 25-37.111 tied away.	No
Planned	37.4TR	12/3/2018 08:36	12/8/2018 15:25	126.82	37S RTU replacement. Panel door replacement.	No

Table 10: ENMAX No. 24 & 37 Substations – 24.1TR, 24.2TR, & 37.4TR Unplanned Outages (2007 – 2013)

Outage Type	Asset	Outage Start (Date & Time)	Outage End (Date & Time)	Duration (Hours)	Cause of Outage	Caused Sub. Trip
Unplanned	24.1TR	4/8/2010 18:06	08/04/2010 19:04	0.97	Loss of supply to EPC transmission due to major snow storm	Yes
Unplanned	24.2TR	4/8/2010 18:06	4/8/2010 19:06	0.99	Loss of supply to EPC transmission due to major snow storm	Yes
Unplanned	24.2TR	12/3/2011 8:27	12/3/2011 8:31	0.07	Equipment Failure	Yes
Unplanned	37.4TR	3/17/2010 09:12	3/17/2010 09:21	0.15	EPC Transmission	No
Unplanned	37.4TR	11/8/2010 15:00	11/8/2010 16:00	1.00	EPC Transmission	Yes
Unplanned	37.4TR	11/8/2010 16:10	11/8/2010 16:13	0.05	EPC Transmission	Yes
Unplanned	37.4TR	2/23/2011 15:22	2/23/2011 15:25	0.05	EPC Transmission	Yes
Unplanned	37.4TR	8/30/2011 13:35	8/30/2011 13:40	0.09	EPC Transmission	Yes
Unplanned	37.4TR	8/31/2011 09:25	8/31/2011 09:32	0.12	EPC Transmission	Yes

TFO Question 5.

“Please provide a history of outages on other equipment (switches, busses, etc.) at SS-24 and SS-37 substations resulting in loss of service to the 25 kV bus, based on the records presently available to the TFO, including the duration of those outages. In the response, please include time, date, duration and cause for each event.”

TFO Response 5.

Historical planned and unplanned outages on the 25 kV bus at ENMAX No. 24 Substation are provided in Table 11. As ENMAX No. 37 Substation does not presently have a 25 kV bus, historical outages preventing the supply of the 25 kV feeder 25-37.111 from ENMAX No. 37 Substation are provided in Table 12. The type of outage (planned or unplanned), bus section, time, date, duration, and cause of each outage are provided.

Planned outages are scheduled during periods of off-peak, or reduced, substation loading. This ensures adequate capacity is available to supply end use customers, without interruption, throughout the outage period. For a planned bus outage, the bus is first sectionalized to ensure only a section of bus is out of service at any given time. Load is then transferred from the affected equipment to an alternate source, typically within the same substation, prior to the outage. Feeder ties, if present, may also be used to tie-back load to an adjacent bus section within the same substation or tie-away load to an adjacent substation.

Unplanned outages may occur at any time and typically result in either a momentary (< 1 minute) or sustained (>1 minute) power outage to end use customers. Without additional development, EPC risks being unable to restore load in accordance with its Distribution System Performance Standard⁵ by the year 2021 following an unplanned outage bus outage at ENMAX No. 24 Substation and 2023 at ENMAX No. 37 Substation. Additional details regarding load at risk are presented in EPC’s Statement of Need⁶ (SON).

Table 11: ENMAX No. 24 Substation – 25 kV Bus Outage History (Jan 2014 – Oct 2019)

ENMAX No. 24 Substation					
Outage Type	Bus Section	Outage Start Datetime	Outage End Datetime	Duration (Hours)	Cause of Outage
Unplanned	24.1TR 25kV Bus	6/16/2009 14:36	6/16/2009 14:38	0.04	Lightning
Unplanned	24.1TR 25kV Bus	4/8/2010 18:06	4/8/2010 19:04	0.97	Loss of supply to EPC transmission due to major snow storm
Unplanned	24.2TR 25kV Bus	4/8/2010 18:06	4/8/2010 19:05	0.97	Loss of supply to EPC transmission due to major snow storm
Unplanned	24.1TR 25kV Bus	12/3/2011 8:27	12/3/2011 8:31	0.07	Equipment Failure
Unplanned	24.2TR 25kV Bus	12/3/2011 8:27	12/3/2011 8:31	0.07	Equipment Failure

Table 12: ENMAX No. 37 Substation – 25 kV Outage History (Jan 2014 – Dec 2018)

ENMAX No. 37 Substation					
Outage Type	Substation Bus	Outage Start Datetime	Outage End Datetime	Duration (Hours)	Cause
Unplanned	37.4TR 25kV Bus	3/17/2010 9:12	3/17/2010 9:21	0.15	EPC Transmission
Unplanned	37.4TR 25kV Bus	11/8/2010 15:00	11/8/2010 16:00	1.00	EPC Transmission
Unplanned	37.4TR 25kV Bus	11/8/2010 16:10	11/8/2010 16:13	0.05	EPC Transmission
Unplanned	37.4TR 25kV Bus	2/23/2011 15:22	2/23/2011 15:25	0.05	EPC Transmission
Unplanned	37.4TR 25kV Bus	8/30/2011 13:35	8/30/2011 13:40	0.09	EPC Transmission
Unplanned	37.4TR 25kV Bus	8/31/2011 9:25	8/31/2011 9:32	0.12	EPC Transmission
Unplanned	37.4TR 25kV Bus	4/7/2013 3:24	4/7/2013 4:38	1.23	Pole Fire
Planned	37.4TR 25kV Bus	6/26/2014 8:58	6/26/2014 15:08	6.17	Isolate 25-37.111-1
Planned	37.4TR 25kV Bus	7/16/2014 9:28	7/17/2014 14:57	29.48	37.4TR Doble, Transformer MTCE
Unplanned	37.4TR 25kV Bus	11/18/2015 0:05	11/18/2015 2:44	2.65	Adverse Weather
Planned	37.4TR 25kV Bus	8/10/2016 7:53	8/10/2016 16:22	8.48	Tan delta primary and secondary cables
Planned	37.4TR 25kV Bus	9/12/2016 7:07	9/13/2016 15:57	32.83	Tan delta primary and secondary cables
Unplanned	37.4TR 25kV Bus	11/2/2016 4:28	11/6/2016 14:24	105.93	Emergency Switching on feeder 25-37.111. Public Interference.
Unplanned	37.4TR 25kV Bus	3/12/2017 7:02	3/12/2017 7:10	0.14	Unknown cause of trip on 37.1TR bus. Auto-switching impacted 37.2TR
Planned	37.4TR 25kV Bus	6/12/2017 13:11	6/15/2017 16:07	74.93	LTC Maintenance - Reinhausen Type H
Planned	37.4TR 25kV Bus	7/31/2017 7:03	8/4/2017 12:22	101.32	37.1TR Doble Testing
Planned	37.4TR 25kV Bus	10/20/2017 20:32	10/21/2017 16:44	20.20	138-39.82L planned outage. Pre-contingency load tie-away.
Planned	37.4TR 25kV Bus	10/27/2017 4:45	10/28/2017 22:38	41.88	138-38.82L outage. Pre-contingency load tie-away.
Planned	37.4TR 25kV Bus	11/1/2017 7:17	11/12/2017 11:51	268.57	Line Protection Upgrade

⁵ “Standard – EPC-ARBP-DSP-ST-0001 – Distribution System Performance”, ENMAX Corporation, February 28, 2018

⁶ “Statement of Need – No. 37 Substation 138/25 kV Transformer Addition”, Sharon Zhang, ENMAX Power Corporation, August 2018

ENMAX No. 37 Substation					
Outage Type	Substation Bus	Outage Start Datetime	Outage End Datetime	Duration (Hours)	Cause
Unplanned	37.4TR 25kV Bus	5/4/2018 15:35	6/18/2018 10:27	1074.87	37.4TR Trip. Damaged 37.4TR MV Bushings and cabinet due to cable fault. Emergency Switching. NOTE: Duration reflects the total time 37.4TR was unavailable, and not customer outage duration.
Planned	37.4TR 25kV Bus	6/19/2018 8:53	6/19/2018 11:39	2.77	Measure cell door clearance
Planned	37.4TR 25kV Bus	7/25/2018 6:39	7/26/2018 14:34	31.92	Tapchanger Inspection. Oil sampling MT, TC
Planned	37.4TR 25kV Bus	11/12/2018 8:04	11/12/2018 14:55	6.85	138-37.81L outage and 37.1TR outage. To relieve load on 37.2TR, 25-37.111 tied away.
Planned	37.4TR 25kV Bus	12/3/2018 8:36	12/8/2018 15:25	126.82	37S RTU replacement. Panel door replacement.

TFO Question 6.

“In the event of an unplanned outage to other equipment (switches, busses, etc.) at SS-24 or SS-37 substations, resulting in the loss of service to the 25kV bus, provide an overview of procedures, the TFO would take and the estimated times the TFO expects it would take to restore service to 25kV bus and associated feeders at SS-24 or SS-37 substations. Please include any details on mobile substations available to restore load, time to deploy to site, and time to install/transfer load to the mobile substation.”

TFO Response 6.

In the event of a switchgear contingency resulting in a 25 kV bus outage at ENMAX No. 24 Substation or a 25 kV feeder outage at ENMAX No. 37 Substation, EPC would follow a process similar to that described Table 13. EPC does not utilize a pre-determined, asset specific, procedure when responding to contingency events as fixed procedures are unable to accommodate the dynamic nature of transmission and distribution systems. In the event of any contingency, EPC would respond accordingly to limit customer and system impact, restore load, and return the faulted equipment to service.

Under normal operation, a single element contingency on either the 138 kV or 25 kV switchgear at ENMAX No. 24 Substation could result in a partial outage of the 25 kV bus. The outage of the entire 25 kV bus at ENMAX No. 24 Substation would be considered an extreme event. Under this condition there would be load at risk as not all ENMAX No. 24 Substation feeders can be tied away- to an adjacent substation.

ENMAX No. 37 Substation does not currently have a 25 kV bus and instead relies on a 13/25 kV auto-transformer located within the substation to supply the 25 kV feeder 25-37.111. Under normal operation, a single element contingency on either the 138 kV, 13 kV, and 25 kV switchgear at ENMAX No. 37 Substation could result in an outage of the 25 kV feeder 25-37.111.

Without additional development, EPC risks being unable to restore load in accordance with its Distribution System Performance Standard⁷ by the year 2021 following a switchgear contingency at ENMAX No. 24 Substation. Similarly, EPC risks being unable to restore load in accordance its Distribution System

⁷ “Standard – EPC-ARBP-DSP-ST-0001 – Distribution System Performance”, ENMAX Corporation, February 28, 2018

Performance Standard in the event of a switchgear contingency at ENMAX No. 37 Substation by the year 2023. Additional details regarding load at risk are presented in EPC’s Statement of Need⁸ (SON).

Table 13: General Response Process – Switchgear Contingency Resulting in 25 kV Bus/Feeder Outage

General Response Process – Switchgear Contingency Resulting in a 25 kV Bus/Feeder Outage	
1.	Automated processes: <ul style="list-style-type: none"> • Protection relays trip breakers in the same protection zone as the faulting switchgear: (~5 cycles) <ul style="list-style-type: none"> ○ 138 kV and 25 kV switchgear faults could result in a 25 kV bus outage at ENMAX No. 24. Substation. ○ 138 kV, 13 kV, and 25 kV switchgear faults could result in the loss of the 25 kV feeder 25-37.111 at ENMAX No. 37 Substation. ○ Impact under normal operation can range from a partial substation outage (138kV and 25 kV) to the loss of a single 25 kV bus segment or feeder. • Distribution Automation (DA) engages: (<1 minute) <ul style="list-style-type: none"> ○ Affected feeders with DA installed attempt to automatically tie-away to adjacent feeders if capacity is available.
2.	Operations reviews alarms within EPC’s SCADA and OMS (Outage Management System) and responds accordingly.
3.	Operations assess current system state & confirms which element are in/out of service.
4.	Operations assess loading of existing equipment and available tie capacity.
5.	Operations restore affected feeders through substation switching and tie-away: <ul style="list-style-type: none"> • If a partial bus outage has occurred: <ul style="list-style-type: none"> ○ Open/close bus-tie breakers and transfer switches on the unaffected bus sections to restore affected feeders that did not automatically tie-away. (5 minutes for breakers) (30-90 minutes for transfer switches) ○ If additional capacity is required, manual feeder ties to tie-away select feeders to adjacent substation. (5 minutes for automatic ties; 30-90 minutes for manual ties) • If a complete bus outage has occurred: <ul style="list-style-type: none"> ○ Note to reader: This is considered an extreme event. ○ Utilize feeder ties, where available, to supply select feeders from an adjacent Substations. (5 minutes for automatic ties; 30-90 minutes for manual ties)
6.	Operations dispatch crew to site to assess the faulted transformer and perform manual switching if required. (30-90 minutes)
7.	Asset repair or replace the faulted switchgear: <ul style="list-style-type: none"> • (PT/CT Replacement: 2-3 days if spare available, 4-6 weeks if procured) • (Breaker/Switch: 4-6 weeks if equivalent spare available, 4-6 months if procured)

Note: Typical response times are provided in brackets

TFO Question 7.

“Is the historic availability of other equipment (switches, busses, etc.) at SS-24 and SS-37 substations typical for similar designs?”

TFO Response 7.

EPC is not aware of any evidence that would suggest the historic availability of the switchgear at ENMAX No. 24 and ENMAX No. 37 Substations differs from that of other Substation of similar designed, age, and installation configuration. Availability rates for the 25 kV bus at ENMAX No. 24 Substation and the 25 kV feeder 25-37.111 at ENMAX No. 37 Substation are summarized in Table 14 as a percentage of in -service hours over total hours.

Table 14: Summary of Availability –25 kV Bus/Feeder (Jan 2014 – Oct 2019)

Bus/Feeder	% of Hours In-Service (Jan 2007- Oct 2019)
25 kV Bus – ENMAX No. 24 Substation	100%
Feeder 25-37.111 – ENMAX No. 37 Substation	98%

⁸ “Statement of Need – No. 37 Substation 138/25 kV Transformer Addition”, Sharon Zhang, ENMAX Power Corporation, August 2018

The majority of switchgear outages sustained within EPC substations are the result of minor repairs, preventative maintenance, and capital life cycle replacement. EPC plans these outages during times of off-peak, or light, customer loading. This ensures that sufficient capacity is available to continue to supply all load through the remaining equipment during the outage. 100% of all outages on the 24 kV bus at ENMAX No. 24 Substation were unplanned outages between January 2007 and October 2019. 45% of all outages supplying feeder 25-37.111 from ENMAX No. 37 Substation were unplanned outages.

Although historically infrequent, major switchgear failures, can result in sudden and sustained equipment unavailability. EPC anticipates that it would take approximately 4 to 6 weeks to install a new breaker or a switch at ENMAX No. 24 and ENMAX No. 37 Substations if a suitable spare is available. If a spare is not available, EPC estimates that it would take an additional 4 to 6 months to procure one.

TFO Question 8.

“Please provide a summary of any planned TFO Capital Maintenance projects applicable to the project area not described in the responses above. In the response, include durations of planned outages and any measures to be taken during the planned outages to provide service continuity.”

TFO Response 8.

Please refer to EPC’s response to Question 3 for a list of current and planned capital maintenance projects at ENMAX No. 24 and ENMAX No. 37 Substations.

TFO Question 9.

“Can transformer cooling be added to SS-24 substation transformers 24.1TR or 24.2TR, and to SS-37 substation autotransformer 37.4TR? If so, please provide a scope and rough order of magnitude cost estimate.”

TFO Response 9.

EPC confirms that forced air cooling is installed on 24.1TR, 24.2TR, and 37.4TR transformers.

Questions posed to EPC as the DFO

DFO Question 1.

“Does the DFO have a comprehensive standalone distribution system planning document? If so, it would be helpful to the AESO if the DFO could submit such a document to help the AESO fulsomely understand the DFO’s need.

- a) If not addressed in its response to question 1 above, please provide the DFO’s target restoration time(s) for loads in the study area. Please specify restoration times for feeder contingencies and transmission facility contingencies.
- b) If not addressed in its response to question 1 above, please define “loss of feeder” referred to in the SON”

DFO Response 1.

EPC has developed a Distribution System Performance Standard⁹ that it uses to ensure a reliable distribution system is planned that meets system performance requirements and customer reliability expectations. A copy of EPC’s Distribution System Performance standard is attached in Appendix A.

EPC considers load to be at risk if the system does not have adequate capacity to return the load to service within a timeframe of one manual switching operation during an N-1 contingency. EPC’s Distribution System Performance Standard requires all distribution Point of Delivery (POD) Substation be planned, designed, and operated to ensure no loss of load due to substation capacity limitations during a substation transformer N-1 contingency for a period longer than the switching time required to restore service.

The term “loss of feeder” within EPC’s Statement of Need refers to the loss of supply to customer load on a feeder due to a sustained outage. A sustained outage is an outage lasting more than one minute.

DFO Question 2.

“Please provide a summary of the type of customers (e.g. residential, industrial, commercial, and farming/agriculture) and number of customers within each type served by No. 37 substation and No. 24 substation.

- a) *Please describe the potential impacts on the unsupplied loads for each of the N-1 contingency scenarios.*
- b) *Please identify any critical loads with public safety or environmental sensitivities.”*

DFO Response 2.

ENMAX No. 24 and No. 37 substations each serve a mixture of D100 (Residential), D200 (Small Commercial), D300 (Medium Commercial), D310 (Large Commercial – Secondary Fed), and D410 (Large Commercial – Primary Fed) customer load, as defined by EPC’s Distribution Tariff.¹⁰ Detailed customer

⁹ “Standard – EPC-ARBP-DSP-ST-0001 – Distribution System Performance”, ENMAX Corporation, February 28, 2018

¹⁰ “ENMAX Power Corporation (“EPC”) Distribution Tariff Rate Schedule”, ENMAX Power Corporation, Oct 1, 2019, <https://www.enmax.com/ForYourBusinessSite/Documents/2019-10-01-DT-Tariff-Rate%20Schedule.pdf>

counts by rate class for ENMAX No. 24 and ENMAX No. 37 substations are provided in Table 15. Customer counts shown are for the 2017 calendar year as filed in EPC’s 2019 Distribution Tariff Phase II Application.¹¹

Estimated customer impact costs resulting from an unplanned transformer outage (N-1 Contingency) at ENMAX No. 24 and No. 37 Substations are provided in Table 16. Customer impact costs reflect the financial impact of a momentary (one minute or less) and sustained (½ hour) interruption of power on end use customers. Estimates are based on EPC’s 2015 customer class interruption cost estimates.¹²

EPC acknowledges that all loads have public safety and environmental sensitivity considerations attached in the event of an outage. If there are strictures or impact scenarios that the AESO would like ENMAX to consider, please provide.

Table 15: 2017 Customer Count by Rate Class

Substation	Feeder Class	Customer Count by Rate Class*				
		D100 Residential	D200 Small Commercial	D300 Medium Commercial	D310 Large Commercial Secondary	D410 Large Commercial Primary
No. 24	25 kV	5287	935	422	76	3
No. 37	25 kV	5	260	122	31	0
	13 kV	4869	442	360	92	0

* 2017 Customer Counts per EPC’s 2019 Phase II Application

Table 16: Estimated Customer Impact Costs by Contingency

N-1 Transformer Contingency	Momentary Interruption	½ Hour Interruption*
24.1TR	\$ 777,692	\$ 1,045,972
24.2TR	\$ 514,588	\$ 690,198
37.1TR	\$ 476,762	\$ 650,818
37.2TR	\$ 785,448	\$ 1,071,990
37.4TR	\$ 381,255	\$ 517,585

* Sustained outage to all feeders normally supplied by the transformer under contingency.

DFO Question 3.

“If updated versions of Table 2, Table 3, and Table 4 in the SON are available showing 2018 actuals and an updated forecast, please provide under the DFO cover.

- a) Please confirm that the updated tables do not alter the DFO’s analysis or conclusions as presented in the August 30, 2018 SON and whether any new assumptions were made in the updated forecast.
- b) Please explain the variance between the 2018 load forecast and the 2018 actual load for Tables 2, 3, and 4, if a variance exists.”

¹¹ Proceeding 24820

¹² 2015 Updated Distribution Automation Evaluation, ENMAX Power Corporation, March 30, 2015

DFO Response 3.

Updated versions of Table 2, Table 3, and Table 4 from the Statement of Need (SON) are attached in Appendix B. EPC confirms that the updated tables do not alter EPC's analysis or conclusions as presented in the August 30, 2018 SON.

Explanation of the variance between the 2018 actuals and forecast in the original SON are provided below in Table 17, Table 18, and Table 19.

Table 17: 2018 POD Substation Coincident Load Forecast vs 2018 Actuals

Substation	Forecasted (MVA)	Actuals (MVA)	Difference (MVA)	Variance Explanation
37 S	56	57	1	Within normal variance of forecasted value
24 S	57	56	-1	Within normal variance of forecasted value
38 S	32	34	2	Within normal variance of forecasted value

Table 18: 2018 Transformer Load Forecast vs 2018 Actuals

Transformer	Forecasted (MVA)	Actuals (MVA)	Difference (MVA)	Variance Explanation
37.4 TR	13	12	-1	Within normal variance of forecasted value
24.1 TR	32	33	1	Within normal variance of forecasted value
24.2 TR	26	26	0	

Table 19: 2018 Feeder Load Forecast vs 2018 Actuals

Feeder	Forecasted (MVA)	Actuals (MVA)	Difference (MVA)	Variance Explanation
25-37.111	13	12	-1	Within normal variance of forecasted value
25-24.114	2	2	0	

DFO Question 4.

"On page 13 of the SON, EPC states, "The existing 25 kV supply source from No. 37 Substation and the associated distribution infrastructure will not be able to meet the EPC Distribution System Performance Standard as set out in section 4.2 and 4.3, beginning in the 2021 summer peak season."

- a) *Please explain EPC's load forecasting methodology and assumptions for calculating the predicted summer peaks.*
- b) *Please provide the predicted timing of the load addition for each major subdivision identified in Table 1 on SON page 7.*
- c) *Please explain why EPC used summer peak rather than winter peak for the load forecast."*

DFO Response 4.

EPC load forecast is developed for all elements of the distribution system hierarchy, including feeders, substation transformers, substation and system overall. The loading for each individual element is

forecasted for 10 years for both summer and winter peak conditions. The development of load forecast utilizes two independent methodologies:

Bottom-Up methodology – considers the individual elements from the bottom, i.e., customers, through the system hierarchy up to the overall system level using a forecast model to create one set of forecasts. Major inputs to this method include actual peaks of all elements in the previous year, estimated customer near and long-term load growth based on information from ongoing customer projects, residential subdivision developments, City of Calgary growth plans, developer inputs, etc.

Top-Down methodology – overall system level forecast developed to reflect economic outlook and formulated by taking into account the forecasted economic indicators and trend of historical actuals. Major economic indicators include real GDP growth and oil price.

The base forecast is assembled using the Bottom-Up methodology, taking into account coincident factors. The result of the Top-Down methodology is used to refine the Bottom-Up forecast results to ensure the alignment with overall economic conditions.

An updated Major Load Additions table (Table 1 in SON) along with the comparison between the updated and original table is provided in Table 20. Many of these developments are already under construction. Load shown in Updated Expected Load MVA (2019-2028) column indicates the forecasted load expected to materialize within the 10-year forecast window. The values shown are what is forecasted to be in service between 2019 and 2028.

Table 20: Major Load Additions (SON Table 1) Update and Comparison (2018-2027 vs 2019-2028 Forecast)

Description of New Load Addition	Original Expected Load MVA (2018-2027)	Updated Expected Load MVA (2019-2028)	Difference in Load (MVA)
Belvedere Residential*	1	2	1
East Hills Commercial	4	3	-1
Frontier Industrial	1	1	0
EMCOR Industrial*	8	2	-6
Janet Industrial	2	3	1
East Shepard Business Park	2	1	-1
Point Trotter Industrial*	3	5	2
CertaCan Cultivators	n/a	4	4
East Shepard Industrial Park*	n/a	5	5
Total Area Load Growth (Non-Diversified)	21	26	5

* Development areas expected to continue to experience load growth beyond the 10-year forecast timeframe.

Notable differences between the original forecast (Original Expected Load MVA) included in the Statement of Need (SON) and the updated forecast (Updated Expected Load MVA) are a reduction in load at EMCOR Industrial and addition of two new Loads, CertaCan and East Shepard Industrial Park. EMCOR was a development that requested for service with high expectations to be fully built out and energized within a short timeline. Due to the recession experienced in Calgary the development of EMCOR has slowed down significantly. The two new large loads, CertaCan and East Shepard Industrial Park, have been requested by customers, which were not present at the time of the SON.

EPC used summer peak load forecast with the SON as the magnitude of load at risk during the summer season is higher than that in the winter season. If the load at risk during the summer season is mitigated, it follows that load at risk during the winter season will also be mitigated.

DFO Question 5.

“Please show the calculations used to determine the maximum tie-away capacity identified in Tables 5 and 6 in the SON (see page 12). Please provide calculations for how these capacity values were determined for each tie-away calculation, including a list of the feeders that provided tie-away capacity for each contingency.”

DFO Response 5.

For Table 5 (Feeder Load at Risk), the maximum tie-away capacity is the maximum capacity available to effectively transfer load to backup feeders by tying away either the entire feeder or sections of the feeder. For a specific feeder X with peak loading L_X , each of its available backup feeders Y_i with peak loading L_{Y_i} is examined and the one with maximum available capacity is taken for calculation. If the entire feeder X can be tied away, the total tie-away capacity T is calculated as:

$$T = \max(C_{25} - L_{Y_i}) \quad \text{If } L_X + L_{Y_i} \leq C_{25}$$

where C_{25} is the capacity of a 25kV feeder.

Sometimes, the entire load L_X on feeder X cannot be tied away to a backup feeder Y_i due to insufficient capacity on Y_i . In such a case, two backup feeders (if available) may be used to restore customer load: a section of the feeder with peak loading L_{SX} is firstly transferred to one backup feeder, then the remaining part of feeder X can be tied away to another backup feeder Y_i . In the restoration process, it is not allowed to use more than one manual switching operation due to restoration delay. The maximum tie-away capacity T can be calculated as:

$$T = \max(C_{25} - L_{Y_i}) + L_{SX} \quad \text{If } L_X - L_{SX} + L_{Y_i} \leq C_{25}$$

For Table 6 (Transformer Load at Risk), the maximum tie-away capacity is the maximum capacity available to effectively transfer load away from the out-of-service transformer using substation secondary bus ties and/or existing feeder ties. If the entire load L_{TR1} on the out-of-service transformer TR_1 can be tied away to a backup transformer TR_2 via a substation secondary bus tie, the total tie-away capacity T can be calculated as:

$$T = C_{TR2} - L_{TR2} \quad \text{If } L_{TR1} + L_{TR2} \leq C_{TR2}$$

where C_{TR2} is the capacity of backup transformer TR_2 ; L_{TR2} is the peak loading of backup transformer TR_2 .

Sometimes the entire load L_{TR1} on the out-of-service transformer TR_1 cannot be tied away to a backup transformer TR_2 due to insufficient capacity on TR_2 , or a second transformer is not available in the substation. In such a case, a portion of the load on TR_1 and/or TR_2 will need to be transferred away through feeder ties to backup feeders supplied by other transformer(s). For each feeder X_i among the n

feeders to be tied away, all its available backup feeders Y_i^j with peak loading $L_{Y_i^j}$ are examined and the one with maximum usable capacity is taken for calculation. The total tie-away capacity T is calculated as:

$$T = (C_{TR2} - L_{TR2}) + \sum_{i=1}^n L_{X_i} \quad \text{If } L_{X_i} + L_{Y_i^j} \leq C_{25}$$

where L_{X_i} is the peak loading of feeder X_i to be tied away, which is defined as the usable tie away capacity on the tie feeder; $L_{Y_i^j}$ is the peak loading on the chosen tie feeder for feeder X_i .

Elements providing tie-away capacity under contingencies are provided in Table 21.

Table 21: Elements Considered for Tie-away Capacity Under Contingency

Contingency	Elements Considered for Tie Capacity
Feeder 25-24.114	<ul style="list-style-type: none"> • Feeder 25-24.121 • Feeder 25-37.111
Feeder 25-37.111	<ul style="list-style-type: none"> • Feeder 25-24.114
Transformer 24.1TR	<ul style="list-style-type: none"> • Transformer 24.2TR • Feeder 25-26.113 • Feeder 25-37.111 • Feeder 25-26.111
Transformer 24.2TR	<ul style="list-style-type: none"> • Transformer 24.1TR • Feeder 25-26.113 • Feeder 25-37.111 • Feeder 25-26.111

DFO Question 6.

“Please, explain exactly what aspect of the EPC Distribution System Performance Standard criteria cannot be achieved for each N-1 condition described in Tables 5 and 6 in the SON.”

DFO Response 6.

According to EPC Distribution System Performance Standard A2, “Three phase main distribution feeders shall be planned, designed and operated to enable full mutual backup capability during a feeder N-1 contingency over peak loading conditions.” The identified reliability deficiencies listed in Table 5 violate the above requirement.

According to EPC Distribution System Performance Standard A1, “Distribution Point of Delivery (POD) substations shall be planned, designed and operated to ensure no loss of load due to substation capacity limitations during a substation transformer N-1 contingency for a period longer than the switching time required to restore service.” The identified reliability deficiencies listed in Table 6 violate the above requirement.

DFO Question 7.

“In the event of a contingency of 25-37.111 feeder, please provide an overview of procedures that the TFO would take, and the estimated times the DFO expects it would take, to restore service to this feeder.”

DFO Response 7.

In the event of a contingency along distribution feeder 25-37.111, EPC would follow a process similar to that described in Table 22 to restore service to end use customers. EPC does not utilize a pre-determined, asset specific, procedure when responding to contingency events as fixed procedures are unable to accommodate the dynamic nature of transmission and distribution systems. In the event of any contingency, EPC would respond accordingly to limit customer and system impact, restore load, and return the faulted equipment to service.

In the event of a contingency within ENMAX No. 37 Substation resulting in an outage of feeder 25-37.111, EPC would follow a process similar to that describe in EPC’s response to TFO Question 1 and Question 5.

Although present on feeder 25-37.111, distribution automation (DA) will not engage during a feeder fault on feeder 25-37.111. The configuration of feeder 25-37.111 does not support automatic sectionalization.

Table 22: General Response Process – Feeder Fault

General Response Process – Feeder Fault	
1.	Automated processes: <ul style="list-style-type: none">• Fused cutouts blow: (<12 cycles assumed)<ul style="list-style-type: none">○ Fuses operate if fault is down stream of a fused cutout and fault current exceeds fuse rating.○ Cutouts are typically installed on tap-offs from the primary feeder.○ Results in outage to feeder section downstream of fused cutout.• Distribution Automation (DA) engages: (<1 minute)<ul style="list-style-type: none">○ DA will only engage if DA is present on the feeder and the feeder is configured.○ Automated DA switches will attempt to isolate the faulting feeder section and tie-way non-faulting feeder sections to an adjacent feeder if capacity is available.• Protection relays trip substation feeder breaker: (<20 cycles to 2 Seconds)<ul style="list-style-type: none">○ Breaker will attempt a single reclose operation and lock out if unsuccessful.
2.	Reviews alarms within EPC’s SCADA and OMS (Outage Management System) to respond accordingly.
3.	Assess current system state & confirms which element are in/out of service.
4.	Assess loading of existing equipment and available tie capacity.
5.	Dispatch crew to site to isolate fault and preform manual switching if required. (30-90 minutes) <ul style="list-style-type: none">• Manually isolate faulted section of feeder section.• Restore non-faulted feeder sections when safe using feeder ties and/ or the substation feeder breaker.
6.	Repair faulted feeder section and restore service to customers on it.
7.	Return the entire feeder to normal operating condition.

Note: Typical response times are provided in brackets

DFO Question 8.

“What is the historical availability of 25-37.111? Could EPC provide an Outage Event Table showing date, time, duration of outage, recorded real-time load lost, and cause of outage. Is the historic availability of 25-37.111 feeder typical for feeders of similar design?”

DFO Response 8.

Historical outages taken on feeder 25-37.111 are provided in Table 23. Many factors influence the susceptibility of a feeder to outages making a direct comparison of feeder availability difficult. These factors include the location, length, and construction (overhead vs underground, use of automatic switches vs fuses, pole height, etc) of the feeder, environment factors (susceptibility to wind, lightning, and icing), and human activity (construction, traffic, vandalism, etc). EPC is not aware of any evidence that would suggest the historic availability of 25-37.111 differs materially from other EPC feeders once the influencing factors are taken into account.

Table 23: ENMAX Feeder 25-37.111 – Historical Outages (Jan 2007 – Sept 2019)

Outage Type	Feeder	Outage Date/Time	Cause	Duration (Min)	Load loss (MW)
Feeder	25-37.111	5/15/2018 1:50	Unknown	<1	0
Feeder	25-37.111	5/4/2018 15:44	Equipment Failure	01	7.7
Feeder	25-37.111	11/2/2016 4:33	Public Interference	22	3.2
Feeder	25-37.111	7/9/2016 19:52	Lightning	<1	1.7
Feeder	25-37.111	11/18/2015 0:05	Snow	15	4.2
Feeder	25-37.111	11/17/2015 22:38	Snow	<1	3.9
Feeder	25-37.111	11/17/2015 22:17	Snow	<1	3.9
Feeder	25-37.111	11/17/2015 20:47	Snow	<1	4.1
Feeder	25-37.111	11/17/2015 20:45	Snow	<1	4.1
Feeder	25-37.111	7/12/2015 7:53	Lightning	<1	4.6
Feeder	25-37.111	7/12/2015 7:38	Lightning	<1	4.6
Feeder	25-37.111	1/28/2015 13:39	Unknown	<1	6.3
Feeder	25-37.111	6/20/2014 20:48	Lightning	<1	2.2
Feeder	25-37.111	8/5/2013 17:38	Lightning	<1	1.8
Feeder	25-37.111	4/7/2013 3:24	Pole Fire	434	2.5
Feeder	25-37.111	1/7/2013 7:51	Unknown	<1	5.5
Feeder	25-37.111	8/14/2012 15:09	Major Storm	5	2
Feeder	25-37.111	8/7/2012 15:56	Lightning	<1	2.6
Feeder	25-37.111	11/27/2011 13:58	Major Storm	122	2
Feeder	25-37.111	11/27/2011 12:53	Major Storm	<1	2.2
Feeder	25-37.111	11/27/2011 12:48	Major Storm	2	2.2
Substation	25-37.111	8/31/2011 9:25	EPC Transmission	7	4.7
Substation	25-37.111	8/30/2011 13:35	EPC Transmission	5	4.9
Substation	25-37.111	2/23/2011 15:22	EPC Transmission	3	4.9
Substation	25-37.111	11/8/2010 16:10	EPC Transmission	3	3
Substation	25-37.111	11/8/2010 15:00	EPC Transmission	60	4.6
Feeder	25-37.111	9/24/2010 6:41	Equipment Failure	<1	3.6
Feeder	25-37.111	7/28/2010 8:29	Lightning	<1	4.1
Feeder	25-37.111	6/22/2010 16:09	Wind	<1	3.2
Feeder	25-37.111	5/27/2010 10:15	Lightning Arrestor	107	4.3
Feeder	25-37.111	4/29/2010 9:43	Wind	<1	4.4
Feeder	25-37.111	4/8/2010 18:55	Major Storm	<1	1.8
Feeder	25-37.111	4/8/2010 18:22	Major Storm	<1	2.1
Substation Transformer	25-37.111	3/17/2010 9:12	EPC Transmission	9	4.3
Feeder	25-37.111	1/24/2009 16:17	Equipment Failure	14	3
Feeder	25-37.111	1/1/2009 19:30	Wildlife or Birds	<1	2.8
Feeder	25-37.111	4/7/2008 10:47	Unknown	<1	6.5
Feeder	25-37.111	7/11/2007 17:28	Wildlife or Birds	<1	2.6

DFO Question 9.

“Please provide the age of 25-37.111 feeder. Please describe any planned capital maintenance for this facility, include durations of planned outages and any measures to be taken during the planned outages to provide service continuity.”

DFO Response 9.

Feeder 25-37.111 was constructed and commissioned in 2005. EPC carries out the following routine work as part of its capital maintenance programs for 25 kV distribution feeders:

- Overhead bird mitigation (platform moves/cleaning)
- Overhead line inspection (visual, infra-red, and interference)
- Proactive Tree trimming
- Underground switch maintenance/ Dry ice washing (hot washing)
- Underground line inspection (terminations, pad-mounted transformers, etc)
- Manhole inspection

EPC does not take feeder or equipment outages to perform this work under normal conditions.

No standalone capital maintenance projects are currently planned on feeder 25-37.111 through the 2020 year that would require feeder or equipment outages.

DFO Question 10.

“Please provide a history of outages on other equipment (switches, busses, etc.) at SS-37 substation resulting in loss of service to the 25 kV bus, based on the records presently available to the DFO, including the duration of those outages. In the response, please include time, date, duration and cause for each event.”

DFO Response 10.

Please refer to EPC’s response to TFO Question 5.

DFO Question 11.

“In the event of a contingency of 25.24-114 feeder, please provide an overview of procedures that the TFO would take, and the estimated times the DFO expects it would take, to restore service to this feeder.”

DFO Response 11.

In the event of a contingency along distribution feeder 25-24.114, EPC would follow a process similar to that described in Table 22 of EPC’s response to DFO Question 7. EPC does not utilize a pre-determined, asset specific, procedure when responding to contingency events as fixed procedures are unable to accommodate the dynamic nature of transmission and distribution systems. In the event of any contingency, EPC would respond accordingly to limit customer and system impact, restore load, and return the faulted equipment to service.

In the event of a contingency within ENMAX No. 24 Substation resulting in an outage of feeder 25-24.114, EPC would follow a process similar to that described in EPC's response to TFO Question 1 and Question 5.

Distribution automation (DA) would engage during a feeder fault on feeder 25-24.114 depending on the location of the fault along the feeder and available capacity on the tie feeder.

DFO Question 12.

“What is the historical availability of 25.24-114? Could EPC provide an Outage Event Table showing date, time, duration of outage, recorded real-time load lost, and cause of outage. Is the historic availability of 25.24-114 feeder typical for feeders of similar design?”

DFO Response 12.

Historical outages taken on feeder 25-24.114 are provided in Table 24. Many factors influence the susceptibility of a feeder to outages making a direct comparison of feeder availability difficult. These factors include the location, length, and construction (overhead vs underground, use of automatic switches vs fuses, pole height, etc) of the feeder, environment factors (susceptibility to wind, lightning, and icing), and human activity (construction, traffic, vandalism, etc). EPC is not aware of any evidence that would suggest the historic availability of 25-24.114 differs materially from other EPC feeders once the influencing factors are taken into account.

Table 24: ENMAX Feeder 25-24.114 – Outage History (Jan 2014 – Sept 2019)

Outage Type	Feeder	Outage Date/Time	Cause	Duration (Min)	Load loss (MW)
Feeder	25-24.114	10/22/2017 14:10	Cable Failure	14	1.99
Feeder	25-24.114	6/7/2017 21:18	Unknown	23	2.60
Feeder	25-24.114	4/27/2017 23:40	Unknown	1	2.21
Feeder	25-24.114	12/13/2016 1:06	Motor Vehicle Incident	25	3.24
Feeder	25-24.114	6/8/2016 14:51	O/H Dist Transformer	1	1.56
Feeder	25-24.114	4/7/2016 13:29	Equipment Failure	7	4.11
Feeder	25-24.114	11/18/2015 0:05	Snow	2	3.16
Feeder	25-24.114	11/17/2015 22:53	Snow	0	2.94
Feeder	25-24.114	11/17/2015 22:47	Snow	2	2.94
Feeder	25-24.114	10/11/2015 16:31	Lines Galloping	1	1.69
Feeder	25-24.114	10/11/2015 15:30	Lines Galloping	26	1.69
Feeder	25-24.114	10/2/2015 20:46	Connector - Primary	22	2.55
Feeder	25-24.114	10/2/2015 20:15	Connector - Primary	5	2.55
Feeder	25-24.114	7/25/2015 17:20	Unknown	14	1.77
Feeder	25-24.114	4/11/2015 18:53	Unknown	4	1.56
Feeder	25-24.114	11/19/2014 12:29	Unknown	6	4.76
Feeder	25-24.114	11/14/2014 17:58	Public Interference	5	3.98
Feeder	25-24.114	11/8/2014 7:05	Public Interference	0	3.24
Feeder	25-24.114	9/28/2014 8:20	Wildlife or Birds	2	2.47
Feeder	25-24.114	9/16/2014 14:53	Cable Failure	21	4.63
Feeder	25-24.114	7/17/2014 17:27	Tree Contact	7	3.81
Feeder	25-24.114	7/17/2014 17:15	Tree Contact	2	3.81
Feeder	25-24.114	3/15/2014 15:52	Pole Fire	4	2.64
Feeder	25-24.114	1/13/2014 8:44	Unknown	0	5.28
Feeder	25-24.114	10/27/2013 10:28	Unknown	1	3.1
Feeder	25-24.114	9/23/2013 17:30	Wind	7	3
Feeder	25-24.114	4/20/2013 15:50	Unknown	1	2.7

Feeder	25-24.114	3/26/2013 23:47	Wildlife or Birds	0	3.5
Feeder	25-24.114	2/13/2013 14:00	Wind	0	5
Feeder	25-24.114	2/9/2013 14:49	Unknown	0	2.7
Feeder	25-24.114	2/9/2013 14:43	Unknown	0	2.7
Feeder	25-24.114	2/9/2013 12:19	Unknown	0	3
Feeder	25-24.114	10/16/2012 16:04	Unknown	0	2.5
Feeder	25-24.114	9/7/2012 5:37	Public Interference	59	1.6
Feeder	25-24.114	8/25/2012 4:08	Lightning Arrestor	0	2
Feeder	25-24.114	8/14/2012 16:09	Major Storm	0	3.8
Feeder	25-24.114	8/7/2012 15:57	Major Storm	0	0
Feeder	25-24.114	7/28/2012 15:01	Unknown	0	2.5
Feeder	25-24.114	7/27/2012 22:02	Unknown	0	2.1
Feeder	25-24.114	7/15/2012 0:55	Wildlife or Birds	6	2.1
Feeder	25-24.114	7/15/2012 0:50	Wildlife or Birds	0	2.1

DFO Question 13.

“Please provide the age of 25.24-114 feeder. Please describe any planned capital maintenance for this facility, include durations of planned outages and any measures to be taken during the planned outages to provide service continuity.”

DFO Response 13.

Feeder 25-24.114 was constructed and commissioned in 2012. EPC carries out the following routine work as part of its capital maintenance programs for 25 kV distribution feeders:

- Overhead bird mitigation (platform moves/cleaning)
- Overhead line inspection (visual, infra-red, and interference)
- Proactive Tree trimming
- Underground switch maintenance/ Dry ice washing (hot washing)
- Underground line inspection (terminations, pad-mounted transformers, etc)
- Manhole inspection

EPC does not take feeder or equipment outages to perform this work under normal conditions.

No standalone capital maintenance projects are currently planned on feeder 25-37.114 through the 2020 year that would require feeder or equipment outages.

DFO Question 14.

“Please, provide rationale for the need of installing one additional transformer at Chestermere 419S substation, as described in Alternative 7 in the SON.”

DFO Response 14.

There are two drivers for the need to install one additional transformer at Chestermere 419S. The first is the need for more capacity. FortisAlberta confirmed at the time of EPC filing the SASR that the Chestermere 419S will not have sufficient capacity to supply the EPC load in the study area within the 10 year load forecast timeframe. The second driver is a technical limitation. There is a 30-degree phase shift

between the EPC and FortisAlberta distribution systems. The two systems cannot be used to provide mutual backup as they are physically/electrically not tied together due to operational and safety concerns. As a result, a dedicated transformer at Chestermere 419S substation for EPC load is required to support the load growth in the study area and eliminate the identified load at risk.

DFO Question 15.

“Please provide any other information the DFO thinks would be helpful to the AESO in assessing and supporting the DFO’s SASR.”

DFO Response 15.

1) Continued Load Growth

The study area has been actively developed, even during the recent economic recession, as demonstrated in the actual load growth between 2015 and 2018 on the three transformers in Table 3 of Appendix B. More load additions are expected as customers request for services as shown in Table 20. In addition, EPC is currently in discussion with a customer on a request to supply a new industrial load located in the study area¹³, which could add potentially 7-10 MVA to the area load based on the available information. Tentatively, the facility is expected to be fully operational within the next three years. Since the plan is still under discussion, this load is not yet included in the updated load forecast.

EPC has been actively managing the area load through feeder ties since 2018. In 2018, extensive load transfers were carried out to temporarily shift some of the load to a POD substation outside of the study area. In 2019, two feeder load transfers were completed to resolve capacity deficiencies on feeders related to the temporary load transfer in 2018. Two more feeder load transfers have been planned for 2020. As the area load continues to grow, the distribution deficiencies will get worse. Further distribution load transfers will only shift the deficiencies from one substation transformer to another. These deficiencies cannot be resolved without new transformation capacity addition.



2) General Comments

Similar to the Alberta Reliability Standard, the ENMAX Distribution System Performance Standard requires EPC to plan its distribution system to provide adequate capacity to maintain customer reliability. EPC acknowledges that outage history on different equipment can help utilities to plan their asset management strategies. However, it should not be a determining factor for capacity additions. EPC has been planning its system to have sufficient capacity for its operating processes to work during contingencies. Without the capacity required by the Distribution System Performance Standard, the outage durations as presented in TFO Questions 4 and 5, and DFO Questions 8 and 12 could have been much longer.

¹³ Geographic study as defined within EPC’s Statement of Need – No. 37 Substation 138/25 kV Transformer (SON) Figure 1

Appendix A

EPC Distribution System Performance Standard

	ENMAX Corporation		Standard	
	Distribution System Performance			
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			Verify revision is current prior to use.	

Distribution System Performance

Reference Use

Review prior to use and have available for reference.

Executive Sponsor	Title	Date Approved
Dale McMaster	Executive Vice President, Power Delivery	Feb.28, 2018
Program Owner	Title	Date Approved
Jana Mosley	Vice President, Asset, Regulatory and Business Planning	Feb. 28, 2018
Document Owner	Title	
Matt Dimoff	Manager, Transmission and Distribution System Planning	

Periodic review of this Standard is required within 3 years

Rev. No.	Effective Date	Revision History
1	Nov. 20, 2017	Added A7 and A8 to Appendix 1, and additional wording to R2
0	Nov. 10, 2016	Issued for implementation.



	ENMAX Corporation	Standard	
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	ENMAX Corporation	Standard	
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1.0 **PURPOSE**

- 1.1 The purpose of this distribution planning standard is to ensure that a reliable distribution system is planned and can be operated to meet specified performance requirements and customer reliability. The distribution system must continue to be modified or upgraded as required to meet present and future system and customer needs as identified by periodically performed system assessments.

2.0 **APPLICABILITY**

- 2.1 This planning standard applies to:
ENMAX Power Corporation (EPC) Distribution Facilities Owner (DFO)

3.0 **RESPONSIBILITIES**

3.1 **Executive Sponsor**

- 3.1.1 Oversee, monitor and report on compliance issues, and initiate corrective actions to address non-compliances.
- 3.1.2 Establish expectations and requirements for program management and control as it pertains to their Business Unit or Policy areas of responsibility.
- 3.1.3 Appoint Program Owners accountable for Programs, and if required, ensure each

3.2 **Program Owner**

- 3.2.1 Appoint a Document Owner for this Standard.
- 3.2.2 Oversee, monitor and report to the Executive Sponsor on compliance issues, and initiate corrective actions to address non-compliances.
- 3.2.3 Ensure Program responsibilities are assigned and expectations are established for the Program.
- 3.2.4 Ensure Standard and Procedures are up-to-date regarding responsibilities and Program requirements.
- 3.2.5 Establish and approve Procedures and/or Forms necessary to implement the Program requirements and expectations defined in the Standard.


3.3 **Document Owner**

- 3.3.1 Coordinate the preparation, revision, review and update of Program document(s) as assigned.
- 3.3.2 Ensure documents are revised in a timely manner to address changes in responsibilities or requirements.
- 3.3.3 Ensure periodic review has been completed within the specified time.
- 3.3.4 Function as a Subject Matter Expert (SME) for assigned Program document(s).

4.0 **REFERENCES**

- 4.1 Appendix 1 – Distribution System Conditions – Normal and Emergency
- 4.2 Appendix 2 – Definitions

5.0 **DEFINITIONS, ABBREVIATIONS, AND ACRONYMS**

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5.1 Definitions

5.1.1 Bold terms used in this planning standard have the meanings as set out in Appendix 2.

6.0 STANDARD

6.1 Requirements

R1 The DFO must demonstrate through planning assessments that the distribution system is planned and can be operated to accommodate forecasted customer demands under the conditions defined in Appendix 1. The DFO system assessment must:

R1.1 Be conducted system-wide annually.

R1.2 Consider years one through five. Years beyond the five year planning horizon should be considered where identified system deficiencies may have longer lead time solutions.

R1.3 Include study demonstrating system performance for the conditions defined in Appendix 1.

R1.4 Be conducted for new load additions following the customer interconnection process.

R1.5 Prepare peak demand load forecast annually.

R1.6 Include forecast demand levels as provided in the annual peak demand load forecast.

R1.7 Include existing and planned facilities as considered necessary by the DFO.

R1.8 Identify system deficiencies in violation of the conditions defined in Appendix 1.

R2 When system deficiencies are identified as set out in R1.8 in this planning standard, the **DFO** must develop system projects to achieve the required system performance throughout the planning horizon to meet the conditions as defined in Appendix 1. Exceptions may be permitted where solutions are not viable due to engineering design limitations.

- Implement the plans with consideration of lead times.
- Specify a required in-service date.

6.2 Processes and Procedures


6.2.1 No formal processes or procedures have been defined for this standard.

6.3 Measures

6.3.1 The following measures correspond to the requirements identified in Section 4 of this planning standard. For example, MR1 is the measure for R1.

MR1 The planning assessment will meet requirement R1 through the following measures:

- The annual planning assessment identifies deficiencies where requirements were not met along with the conditions being breached as

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per Appendix 1.


- The planning assessment for new load additions identifies deficiencies where requirements were not met along with the conditions being breached as per Appendix 1.

MR2 Documentation is provided to meet requirement R2 through the following measures:

- Business cases that contain engineering solutions required to resolve the deficiencies are completed and approved for system projects within the corporate budget cycle. Business cases will include site specific engineering studies as well as cost-benefit analysis.
- System project scope documents are completed and approved for execution.
- Connection proposals for new load additions are completed and approved as per the customer connection process.

6.4 Guidelines

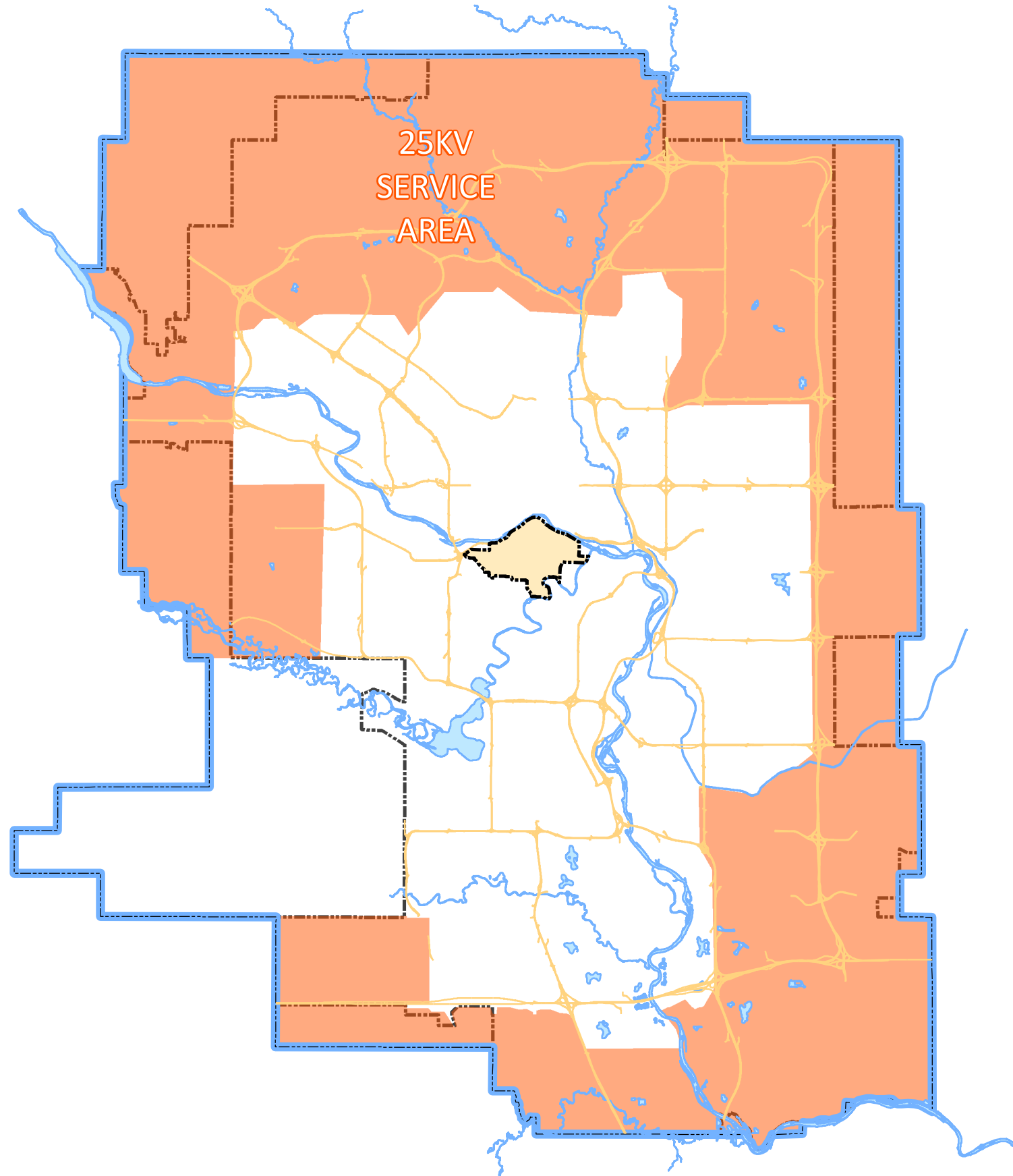
6.4.1 No formal guidelines have been defined for this standard.

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
APPENDIX 1 - DISTRIBUTION SYSTEM CONDITIONS – NORMAL AND EMERGENCY

- A1 Distribution Point of Delivery (POD) substations** shall be planned, designed and operated to ensure no loss of load due to substation capacity limitations during a substation transformer **N-1 contingency** for a period longer than the **switching time** required to restore service.
- A1.1 Restoration capability will be assessed based on a combination of **firm POD transformer capacity** remaining and load transfer capability from adjacent POD through distribution feeder interconnections.
- A2** Three phase main distribution system feeders shall be planned, designed, and operated to enable full mutual backup capability during a feeder **N-1 contingency** over **peak loading conditions**.
- A3** All new distribution facilities within the ENMAX 25 kV Boundary, as defined in map DSP - M.001, will be planned and designed to 25 kV standards.
- A4 Distribution Point of Delivery (POD) substations** supplying **secondary network bus areas** within the Downtown Network Boundary, as defined in map DSP-M.002, shall have capacity planned, designed, and operated to ensure that, at a minimum, the independent loss of two substation transformers (substation transformer **N-1-1 contingency**), will not result in the interruption of customer service for a period longer than the time required to restore service through switching of existing infrastructure within the POD substation.
- A5** Distribution feeders supplying a downtown **secondary network bus area** shall be planned, designed, and operated for full mutual backup capability that allows for the simultaneous loss of any two feeders (feeder **N-2 contingency**) with no interruption in customer service over **peak loading conditions**.
- A6 Secondary Network Systems**, including **network transformers** and **secondary ties**, within the Downtown Network Boundary shall be planned, designed, and operated to ensure no interruption of service to customers in the event of the simultaneous loss of two feeders or two network service transformers (feeder or network service transformer **N-2 contingency**) over **peak loading conditions**.
- A7 Distribution Point of Delivery (POD) substations** shall be planned, designed and operated to ensure no more than two POD substations are supplied radially as a result of a planned transmission circuit or autotransformer outage. Pre-system reconfigurations that require distribution load transfers to alleviate transmission system overloads are not acceptable due to the increased customer outage risk under the next contingency.
- A8 Distribution Point of Delivery (POD) substations** shall be planned, designed and operated to ensure no customer load interruption during a transmission circuit, autotransformer or common structure **N-1 contingency**.

ENMAX 25kV Boundary - DSP - M.001



Legend

-  ENMAX 25kV Service Area (Excluding Downtown Secondary Network)
-  Major Road
-  Waterway
-  Calgary City Limits
-  ENMAX Downtown Secondary Network
-  ENMAX Distribution Limit

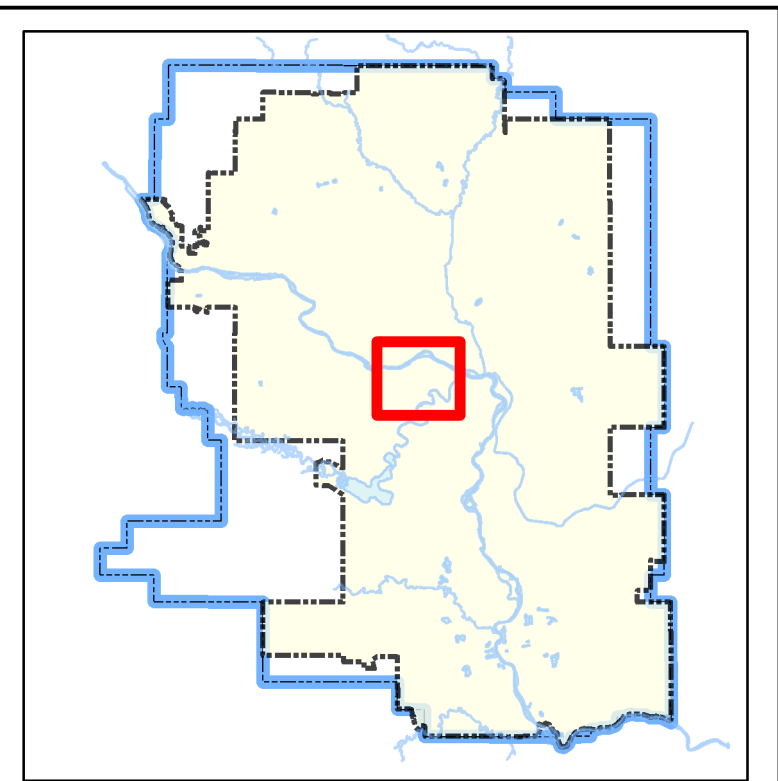
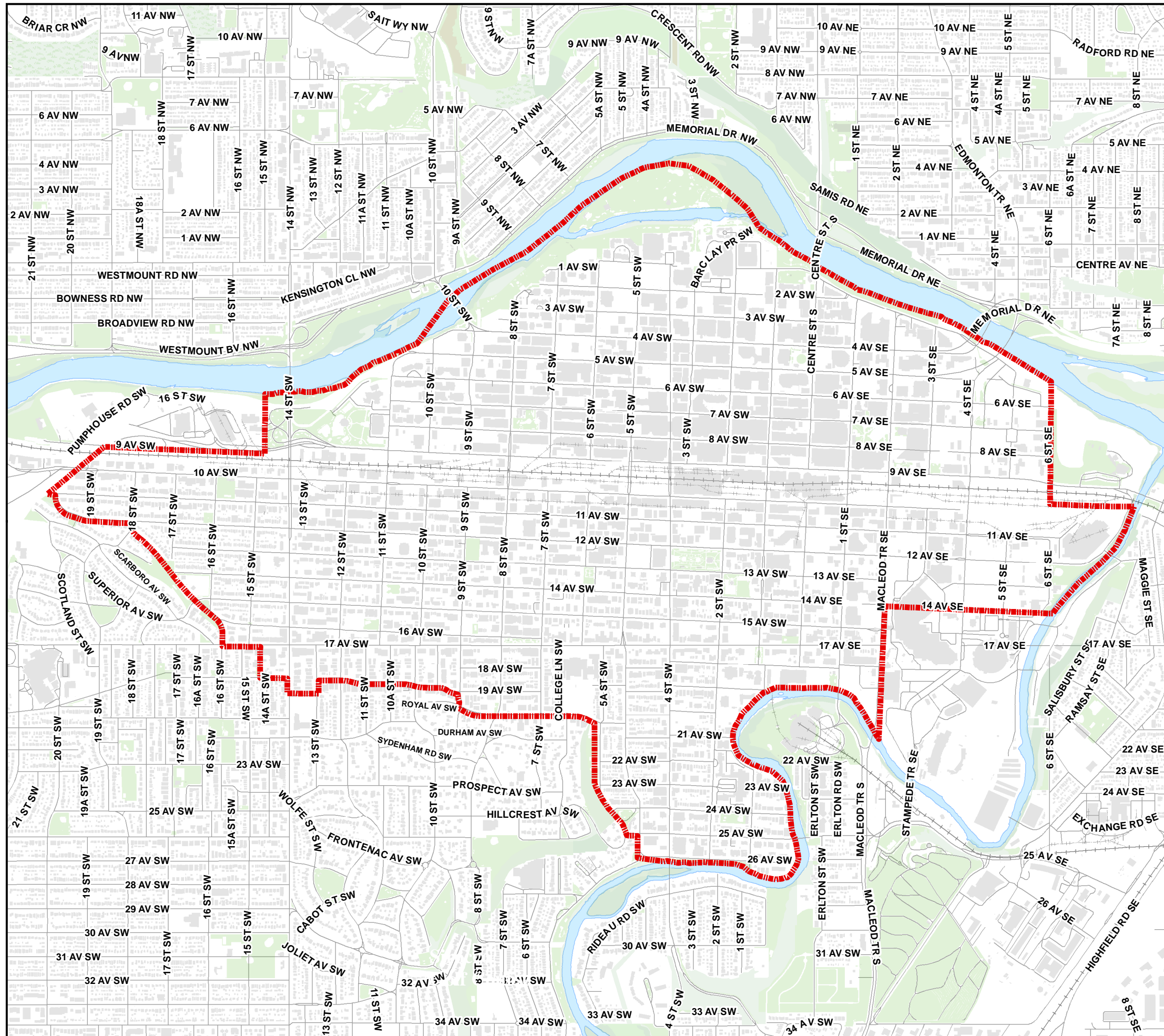
For System Planning Purposes Only

NOTE: Proposed line routes, substation locations and normally open switches are conceptual and subject to change






Date

April, 2016




Legend

-  Existing Network Boundary
-  Existing City Boundary
-  Existing ENMAX Service Area



**Network Boundary
Downtown**

Date	Map Number
April 7, 2016	DSP - M.002

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APPENDIX 2 – DEFINITIONS

Distribution Facilities Owner (DFO)

Means legal owner of the distribution facilities within the ENMAX Power Corporation service territory.

Distribution Point of Delivery (POD) substations

Means the point at which electricity is transferred from transmission facilities to facilities owned by a market participant receiving system access service under the ISO tariff, including an electric distribution system, as per AESO Consolidated Authoritative Document Glossary.

Distribution System Feeder

Means a three phase electrical distribution circuit fed from a single source point (breaker) at the substation and is interconnected with one or more other circuits for mutual reliability to support multiple customers.

Firm POD Capacity

Means the remaining transformer capacity at a POD when the single largest transformer is out of service.

N-1 Contingency

Means the unexpected failure or outage of one system element, such as a substation transformer or distribution feeder.

N-2 Contingency

Means the unexpected simultaneous failure or outage of two system elements, such as distribution feeders or transformers.

N-1-1 Contingency

Means the unexpected independent failure or outage of two system elements such as substation transformers.

Network Transformers

Means a specialized underground distribution transformer designed to supply low voltage secondary network distribution systems.


Peak Demand Load Forecast

An annual load forecast produced by the DFO which provides a power demand forecast for all relevant distribution infrastructure during respective peak demand periods.

Peak Loading Conditions

Means loading conditions when the highest demand load is expected to be delivered by the distribution system.

Secondary Network bus area

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Means a network area supplied by a dedicated substation bus.

Secondary Network Systems

Refers to low voltage secondary network systems which consist of multiple network transformers connected to several feeders, where the secondary side of the transformers are interconnected to create an electrical grid to supply customers.

Secondary Ties

Means secondary cables which interconnect the secondary side of network transformers

Switching Time

The time required to perform automatic or manual switching of existing infrastructure to restore service to customers.

Appendix B

2019 Updated Forecast Tables



ENMAX Statement of Need No. 37
Substation 138/25kV Transformer Addition Addendum
Updated Table 2, Table 3, and Table 4 to Approved Statement of Need

Distribution System Development
ENMAX Power Corp.

Table 2 – POD Substation Coincident Load¹ Forecast – Existing System

POD ¹	Peak	PF ²	Units	Actual Load						Forecasted Load									
				2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
37 S	S	0.94	MVA	49	48	50	54	56	57	49 ³	51	54	56	58	60	62	63	64	65
			MW	46	45	47	51	53	54	46	49	51	53	55	57	59	60	60	61
24 S	S	0.96	MVA	48	52	54	53	55	56	55	54	69 ⁴	71	73	75	77	80	83	86
			MW	46	50	52	51	53	54	53	52	66	68	70	72	74	77	80	82
38 S ⁶	S	0.92	MVA	35	33	33	31	32	34	33	33	33	33	33	34	34	34	34	34
			MW	34	32	31	30	31	31	30	30	30	30	30	31	31	31	31	31

Notes:

1. No. 37 Substation POD supplies distribution both at 13 kV and 25 kV, while No. 24 Substation POD supplies distribution only at 25 kV
2. The POD power factor is calculated using the POD MW and MVA values over the POD peak period
3. No. 37 Substation loading incorporates a planned load transfer from 25-37.111 to 25-24.114 to manage forecasted overloads on 37.4TR in 2019
4. No. 24 Substation loading incorporates a planned load transfer to return the load being temporarily transferred away in 2019
5. No. 38 Substation is a 13 kV POD substation. The loading on this substation does not have any impact on the need for 25 kV capacity in the study area. It is provided for the completeness of documentation only

Table 3 – Transformer Load Forecast – Existing System

Transformer	Capacity (MVA)	Peak	Actual Load						Forecasted Load									
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
37.4TR	13.3 ¹	S	7	7	10	9	9	12	3 ²	4	5	7	8	9	9	10	10	10
24.1TR	50	S	39	27	27	28	30	33	23 ³	23	36 ⁴	36	37	38	39	40	41	42
24.2TR	50	S	14	26	27	26	27	26	33 ³	33	35	37	38	39	41	43	44	46

Notes:

1. Autotransformer 37.4TR supplies feeder 25-37.111 with a capacity rating less than the thermal limit of the feeder cable (25.9 MVA)
2. 37.4TR transformer loading incorporates a planned load transfer from 25-37.111 to 25-24.114 to manage forecasted overloads on in 2019
3. Transformer loading incorporates multiple load transfers, including removal of FortisAlberta load and temporary load transfer away from the substation in order to support No. 37 Substation load
4. Transformer loading incorporates a planned load transfer to return the load being temporarily transferred away in 2019

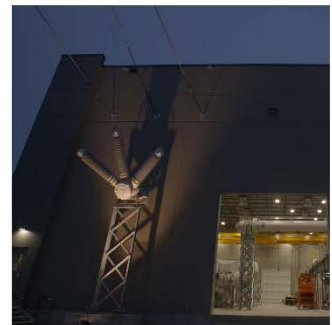
Table 4 – 25kV Feeder Load Forecast – Existing System (MVA)

Feeder ¹	Peak	Actual Load [MVA]						Forecasted Load [MVA]									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
25-37.111 ²	S	7	7	10	9	9	12	3 ⁴	4	5	7	8	9	9	10	10	10
25-24.114	S	6	6	6	5	6	2 ³	12 ⁴	14	18	20	21	21	22	24	25	27

Notes:

1. Maximum thermal capacity of 25 kV feeder is 25.9 MVA
2. Autotransformer 37.4TR supplies feeder 25-37.111 with a capacity rating of 13.3 MVA, which is less than the thermal limit of the feeder cable (25.9 MVA)
3. 25-24.114 feeder loading incorporates a planned load transfer to manage customer load development
4. Feeder loading incorporates a planned load transfer from 25-37.111 to 25-24.114 to manage forecasted overloads on 37.4TR in 2019

**ENMAX Power Corporation
Project P2102 –
AESO SON Round 2 Question
Responses
Revision 1.0**



Introduction

The following document presents EPC's response to questions posed by the AESO in their second "**P2102 – Transmission Facility Owner (TFO) and Distribution Facility Owner (DFO) Questions related to the Distribution Deficiency**" document and received by EPC on November 28th, 2019.

Original questions and EPC's responses are provided below. Questions and responses are broken up into the following two categories:

- 1) Question posed to EPC as the Transmission Facility Owner (TFO)
- 2) Question posed to EPC as the Distribution Facility Owner (DFO)

Question posed to EPC as the TFO

TFO Question 10.

"Preamble: EPC TFO states that "In the event of a contingency on 24.1TR, 24.2TR, or 37.4TR EPC would follow a process similar to that described in Table 1 and Table 2."

- a) *In the event of one of the unplanned outages described in the SON, Table 5 and Table 6, during a summer peak hour on a year after 2021 that would yield some unsupplied load, what would be the limiting factor or factors?*
 - *POD transformer capacity*
 - *Load transfer capability*
 - *Restoration time*
- b) *Does EPC Operations perform, or have the capability of performing, contingency analysis 24/7? Would it be possible for operations to carry out mitigation measures under peak conditions, in preparation for the next contingency?*

TFO Response 10.

- a) For a N-1 contingency on feeder 25-24.114, the limiting factor for the unsupplied load in 2021 is feeder load transfer capability. POD transformer capacity will also become a limiting factor starting in 2023. For 25-37.111 contingency, the limiting factor also starts with just the feeder load transfer capability in 2023 and evolves to be both feeder load transfer capability and the POD transformer capacity starting in 2025. For a N-1 contingency on either transformer 24.1TR or 24.2TR, the limiting factors include all three, POD transformer capacity, feeder load transfer capability and restoration time.

For N-1 feeder contingencies described in SON¹, Table 5, EPC has considered the maximum usable capacity on all the tie-away feeders when calculating the feeder load at risk. For transformer N-1 contingencies described in SON, Table 6, EPC has considered available transfer capacity from transformers within the same substation and transformers in adjacent substations through multiple distribution feeders when calculating the load at risk.

- b) EPC Operations does not perform real time contingency analysis, 24 hours a day 7 days a week, for either of its Transmission or Distribution systems. EPC Operations develops a weekly

¹ "Statement of Need – No. 37 Substation 138/25 kV Transformer Addition", ENMAX Power Corporation, August 2018.

contingency plan that highlights planned outages and potential restoration procedures for select contingency events.

In the event of a contingency, EPC Operations assesses the state of its Transmission and Distribution systems and responds accordingly, as described in Table 1, Table 2, and Table 13 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document.

EPC does not plan its Transmission or Distribution systems to require operational load transfers pre-contingency. EPC does routinely assess and implement permanent load transfers between distribution feeders in order to maximize system capacity and limit risk in the event of contingencies. Such load transfers have been implemented at ENMAX No. 24 and No. 37 substations as described in EPC's SON.²

² See Notes 3 and 4 on Table 5 and Table 6 within EPC's "Statement of Need – No. 37 Substation 138/25 kV Transformer Addition" report dated August 2018.

Questions posed to EPC as the DFO

DFO Question 16.

“Preamble: EPC provided updated load forecast tables in Appendix B

- a) Table 3 shows the total forecasted 25 kV load in the project area in the year 2028 will be 98 MVA, compared to 59 MVA in the year 2019. This is over 39% load growth in 9 years. Table 4 shows the forecasted load in the year 2028 will be 37 MVA compared to 15 MVA in the year 2019. This is over 100% growth of this load. Please explain the rationale for the load growth. It would be helpful to*
- Show the customer load addition expected for each year and at which feeder and substation.*
 - Provide more detail about load changes on 37.4TR, 24.1TR and 24.2TR in 2019 and load changes on 24.1TR in 2021. Can EPC provide more details about how these load changes are calculated? What is the load growth component and what is the load transfer component of each change? If load is transferred out, which feeder and substations are those loads transferred to?*
- b) Please describe how EPC accounts for new load in its load forecast (i.e. firm contracts)”*

DFO Response 16.

- a) As indicated in Table 3 of Appendix B in the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document, the footnote explained that the loading on 24.1TR and 24.2TR incorporates temporary load transfers away from the study area, which accounts for approximately 10 MVA of the load in that area. As shown in Table 3, the actual load for the study area in 2018 was 71 MVA prior to the load transfer. The load temporarily transferred away in 2019 is planned to be transferred back in 2021 once the proposed new transformer in No. 37 Substation is installed. Over the 11-year period from 2018 to 2028, the area load is forecast to grow 27 MVA from 71 MVA to 98 MVA. The compounded year over year growth rate is calculated to be 3.3%.

Table 3 also includes the actual area load from 2013 to 2018. For this six-year period when the Calgary economic recession was at its worst, the area load grew from 60 MVA in 2013 to 71 MVA in 2018. The compounded year over year growth rate is calculated to be 3.4% which is slightly higher than the forecast compounded year over year growth rate from 2018 to 2028.

The study area covers a wealth of brown/green field land designated for industrial use by the City of Calgary. It is a prime area for large industrial operations. New customer connection requests in this area have been received at a steady pace. EPC expects the load growth rate for the area to be at least 3.3%, depending on the rate of economic recovery.

A summary of total customer load additions on each feeder for each year is provided in Appendix B1 of this document. Appendix B2 provides the details on load transfers occurred in 2019 and planned for 2021.

- b) To account for new load in its distribution load forecast, EPC gathers customer load information through active communication with project managers and developers, field checks, analysis of individual customer connection requests, historical loading for different types of load, study of area outline plans, etc.

EPC does not use customer contract load in its load forecast. EPC uses the customer provided loading information as one input and conducts its own calculations based on building size, type of load, comparison with similar existing services, and engineering judgment on a case by case basis in order to achieve a more accurate load estimate.

As shown in Tables 17, 18 and 19 in the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document, the variances between the 2018 actual load and the forecasted load for the relevant No. 24 and 37 Substation transformers and feeders are +/-1 MVA. In addition, the forecasted 2018 EPC system overall load is 2% lower than the recorded 2018 actual load for the summer season, which is the study season for the project need.

DFO Question 17.

“Preamble: EPC states that “For Table 5 (Feeder Load at Risk), the maximum tie-away capacity is the maximum capacity available to effectively transfer load to backup feeders by tying away either the entire feeder or sections of the feeder”. To help us better understand the maximum tie-away capacity, please provide:

- a) A Single Line Diagram (SLD) or switching map that clearly shows how loads in the project area can be transferred to various substations (including but not limited to SS-38, SS-37, and SS-24).*
- b) Feeder Load tables that show the actual and forecasted load under normal conditions (no outages) and maximum tie-away capability at each feeder at various back-up substations under N-1 contingency events. See Appendix A - Example Load Table.”*

DFO Response 17.

- a) Distribution feeder switching maps are provided in Appendix A of this document, outlining EPC planned load transfers in 2019 and 2021.

In Appendix A1, two normally closed switches are opened and one normally open tie switch is closed to complete the transfer of a section of feeder 25-37.111 to 25-24.114.

In Appendix A2, a normally closed tie switch is opened and a permanent connection is made to complete the load transfer of a section of feeder 25-24.121 to 25-24.113.

In Appendix A3, a normally open tie switch is closed and a normally closed switch is opened to complete the load transfer of a section of feeder 25-26.113 to 25-24.121.

In Appendix A4, a normally open tie switch is closed and a normally closed switch is opened to complete the load transfer of a section of feeder 25-24.123 to 25-24.121.

In Appendix A5, a normally open tie switch is closed and a normally closed switch is opened to complete the load transfer of a section of feeder 25-24.121 to 25-24.114.

- b) Please see Appendix C of this document for the feeder load and maximum tie-away capability tables. Note that a simple summation of the data in Appendix B1 and the previous year load will not arrive at the transformer loading values in Appendix C due

to feeder peak diversification. The multiple feeders supplied by one transformer typically do not peak at the same time due to differences in feeder load characteristics. When forecasting the transformer loading, EPC applies a six-year average diversification factor on each feeder.

DFO Question 18.

“Preamble: Based on Appendix A-A1-A3 EPC DFO states that ‘All new distribution facilities within the ENMAX 25 kV Boundary, as defined in map DSP - M.001, will be planned and designed to 25 kV standards’

- a) What is the rationale for the 25 kV Standard in the EPC Distribution System Performance document?*
- b) Could all or part of new customer loads be supplied from the existing 13 kV system?”*

DFO Response 18.

- a) A 25 kV feeder can supply more load and has longer reach than a 13 kV feeder of the same conductor type. For the same amount of load, the required current at 25 kV will be approximately half of that at 13 kV resulting in lower line loss as well as lower voltage drop for the 25 kV supply. Due to longer reach of the 25 kV feeders, less feeder infrastructure will be required to supply the area load. Consequently, less 25 kV POD infrastructure (number of breakers, switchgear, busses, etc.) will be required. Therefore, EPC adopted the 25 kV standard for the outer city areas because it is more efficient to operate due to lower line losses and more economic to build compared to 13 kV system.

The 25 kV Standard only applies to the outer city areas as defined by the *ENMAX 25 kV Boundary* map. The inner-city areas have already been established with 13 kV supply when the 25 kV Standard was adopted, and will remain 13 kV due to prohibitive cost to convert to 25 kV.

- b) According to the EPC Distribution System Performance standard, all new distribution facilities within the ENMAX 25 kV Boundary shall be planned and designed to the 25 kV standards. Over the past few decades, the project area has been built up with 25kV facilities. Introducing 13 kV into the area will hinder operational flexibility as the two voltage systems cannot provide mutual backup to one another. Therefore, it would be imprudent for EPC to maintain two voltage classes within a common service area.

DFO Question 19.

“Preamble: EPC DFO states that ‘EPC acknowledges that all loads have public safety and environmental sensitivity considerations attached in the event of an outage’

- a) Please provide the anticipated magnitude, outage duration and types of loads at risk.*
- b) Is unsupplied load anticipated during non-peak conditions? If yes, provide supporting data.*

- c) *Please identify the customers impacted that would result in public safety or environmental sensitivity concerns.*

DFO Response 19.

- a) Many factors affect the magnitude and duration of an outage. These factors include the types of the outage (planned or unplanned), the source of the outage, the affected equipment, and the state of the surrounding transmission and distribution systems at the time of the outage. A complete substation trip could result in the momentary outage of all load supplied by EPC No. 37 or EPC No. 24 Substations while a feeder fault could result in a momentary outage to those customers supplied by that feeder.

General response times for the restoration of load are provided as part of EPC’s General Response Processes in Table 1, Table 2, and Table 13 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document³.

EPC classifies load by rate class in accordance with its Distribution Tariff Rate Schedule⁴ as shown in Table 1 below. EPC No. 24 and No. 37 substations each serve a mixture of D100 (Residential), D200 (Small Commercial), D300 (Medium Commercial), D310 (Large Commercial – Secondary Fed), D410 (Large Commercial – Primary Fed), and D500 (Streetlight) customer load. Total customer counts by rate class are provided in Table 15 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document. Loads from each of these rate classes is at risk.

Table 1: EPC Load Classifications by Rate Class

Rate Class	Description
D100	Residential
D200	Small Commercial
D300	Medium Commercial
D310	Large Commercial – Secondary Fed
D410	Large Commercial – Primary Fed
D500	Streetlights

- b) Unsupplied load is also anticipated during non-peak seasons. EPC conducted a time-series analysis using 2018 feeder load profiles throughout the summer season (May to September) and applied it to the 10-year forecasted load to produce daily load at risk graphs for each year. See Appendix D of this document for the load at risk graphs for transformers 24.1TR/24.2TR at No. 24 as an example. Note that these graphs are based on the loading shown in the updated load forecast provided in Appendix C of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document. It is also important to note that the winter peak load has historically been 11% lower than the summer peak. Unsupplied load is also anticipated during the winter season (October to April), albeit at lower magnitude.

³ “ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0”, ENMAX Power Corporation, Nov 1st, 2019.

⁴ <http://www.auc.ab.ca/Shared%20Documents/ENMAXPower-RateSchedule.pdf>

- c) EPC acknowledges that all loads have public safety and environmental sensitivity considerations attached to them in the event of an outage. EPC does not track how end use customers utilize power and is unable to speak to specific safety or environmental risks individual customers may encounter in the event of an outage. Generic examples of potential safety and environmental risks that could be present in the event of an outage include:
- Loss of traffic and street lighting.
 - The loss of traffic lights and street lighting may result in an increased risk of traffic and pedestrian accidents.
 - Loss of HVAC, heating, and cooling systems.
 - The operation of HVAC, heating, and cooling systems can be critical to the safety and wellbeing of customers. Safety risks associated with HVAC, heating, and cooling systems can be heightened during times of extreme weather conditions.
 - Inability to operate critical medical devices.
 - Many people rely on the use of electronic medical devices such CPAP machines, blood pressure monitors, nebulizers, and medical alert systems. These devices may be installed in personal residences, worksites, or other locations and require a continuous supply of power in order to operate. Power outages can prevent these devices from working and lead to medical distress for their users.
 - Loss of safety and environmental early detection and warning systems.
 - Many safety alarm and early warning systems, such as fire alarms, gas detection (CO₂, ammonia, etc.), pressure sensors, etc., rely on a continuous supply of power in order to operate. These systems may fail to operate in the event of a power outage if an adequate backup power supply is not present.
 - Loss of security systems.

DFO Question 20.

“Preamble: In Table 23, ENMAX indicated that there were unplanned outages.

- a) Please confirm if any DFO customers were impacted by those unplanned outages and the level of unsupplied load, if any, in MVA, for each of those unplanned events.”*

DFO Response 20.

- a) EPC can confirm that all outages in Table 23 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document listed with load loss greater than 0 MW resulted in a customer impact. The magnitude of load tripped during each outage is provided in the last column of Table 23 and is listed in mega-watts. The reactive component of load tripped during the listed events is not readily available.

Of the events listed in Table 23, three events resulted in loss of load for a period longer than the switching time required to restore service through a single manual switching operation. These events are listed below in Table 2. EPC was unable to restore any load for those events within a single manual switching operation due to the location and cause of fault.

Table 2: EPC Feeder 25-37.111 – Historical Outage Event that Could Not be Restored Through A Single Manual Switching Operation.

Outage Type	Feeder	Outage Date/Time	Cause	Duration (Min)	Load Loss (MW)
Feeder	25-37.111	11/2/2016 4:33	Public Interference	22	3.2
Feeder	25-37.111	4/7/2013 3:24	Pole Fire	434	2.5
Feeder	25-37.111	1/24/2009 16:17	Equipment Failure	14	3

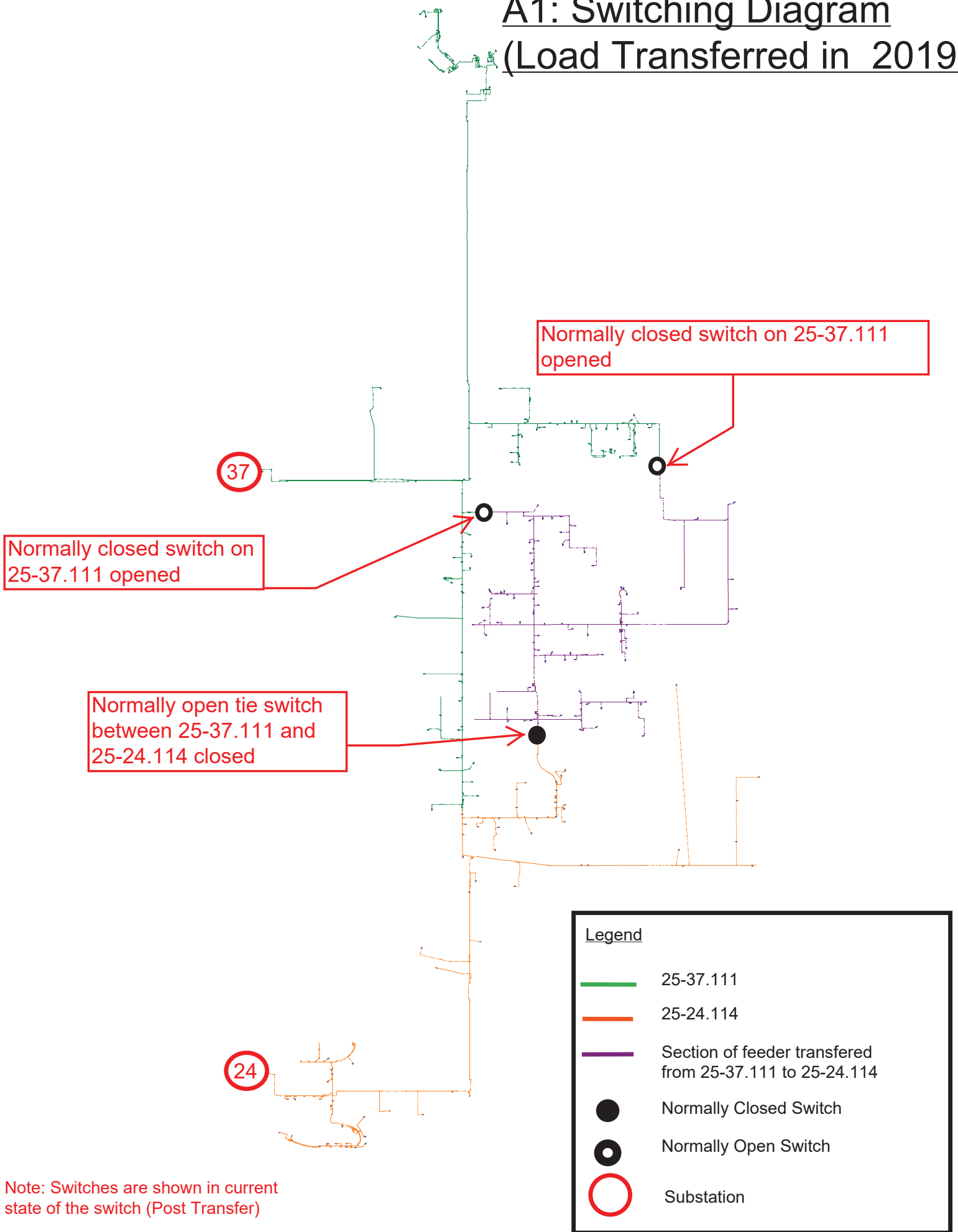
Appendix A

EPC Planned Load Transfer Switching Diagram

Distribution Switching Diagram List

Switching Diagram	Description
A1	2019 Load Transfers – Feeders 25-37.111 to 25-24.114
A2	2019 Load Transfers – Feeders 25-24.121 to 25-24.113
A3	2021 Load Transfers – Feeders 25-26.113 to 25-24.121
A4	2021 Load Transfers – Feeders 25-24.123 to 25-24.121
A5	2021 Load Transfers – Feeders 25-24.121 to 25-24.114

A1: Switching Diagram (Load Transferred in 2019)



Note: Switches are shown in current state of the switch (Post Transfer)

A2: Switching Diagram (Load Transferred in 2019)

Permanent connection made between 25-24.121 and 25-24.113 for load transfer

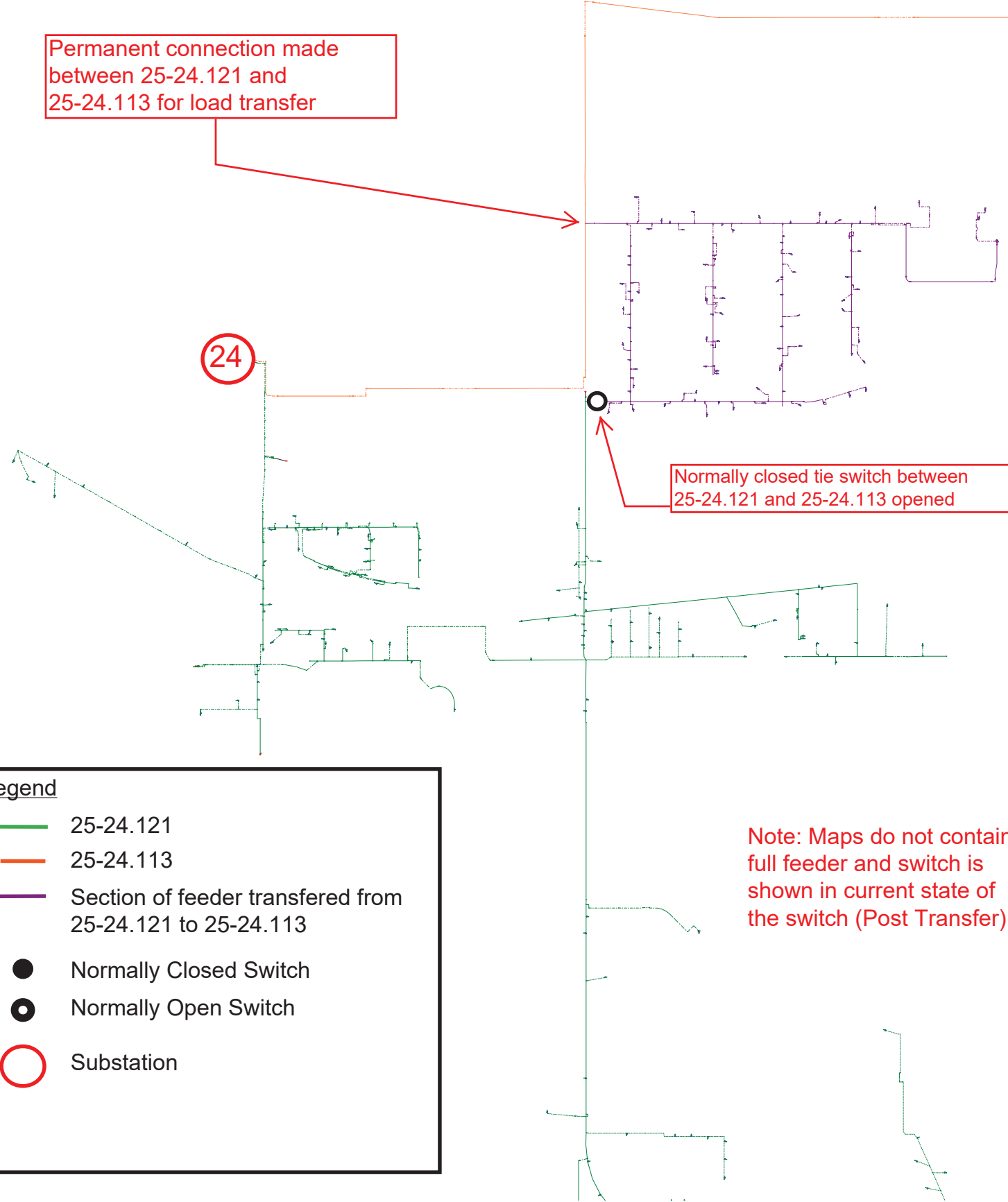
24

Normally closed tie switch between 25-24.121 and 25-24.113 opened

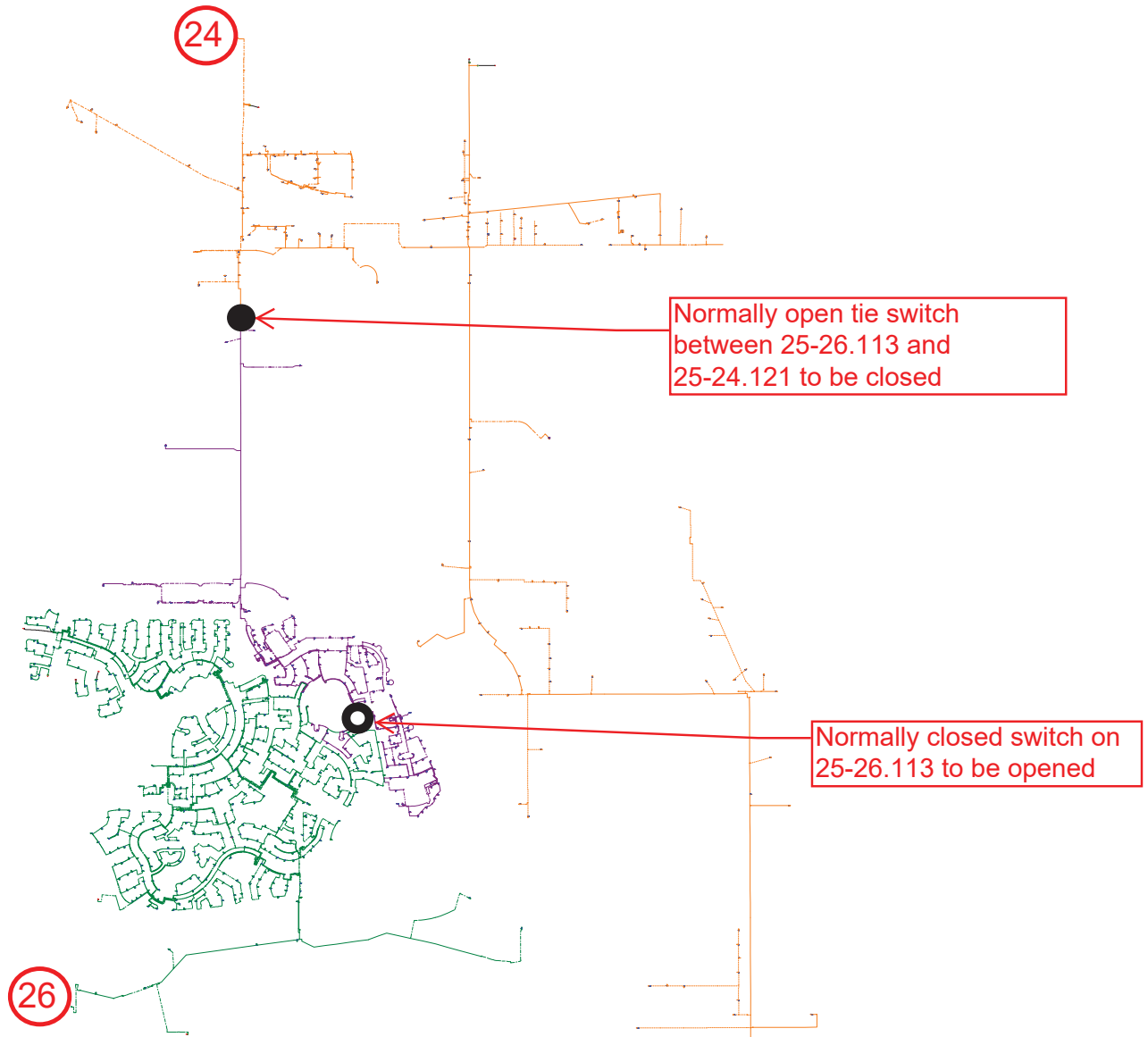
Legend

- 25-24.121
- 25-24.113
- Section of feeder transferred from 25-24.121 to 25-24.113
- Normally Closed Switch
- Normally Open Switch
- Substation

Note: Maps do not contain full feeder and switch is shown in current state of the switch (Post Transfer)



A3: Switching Diagram (Load Transfer 2021)

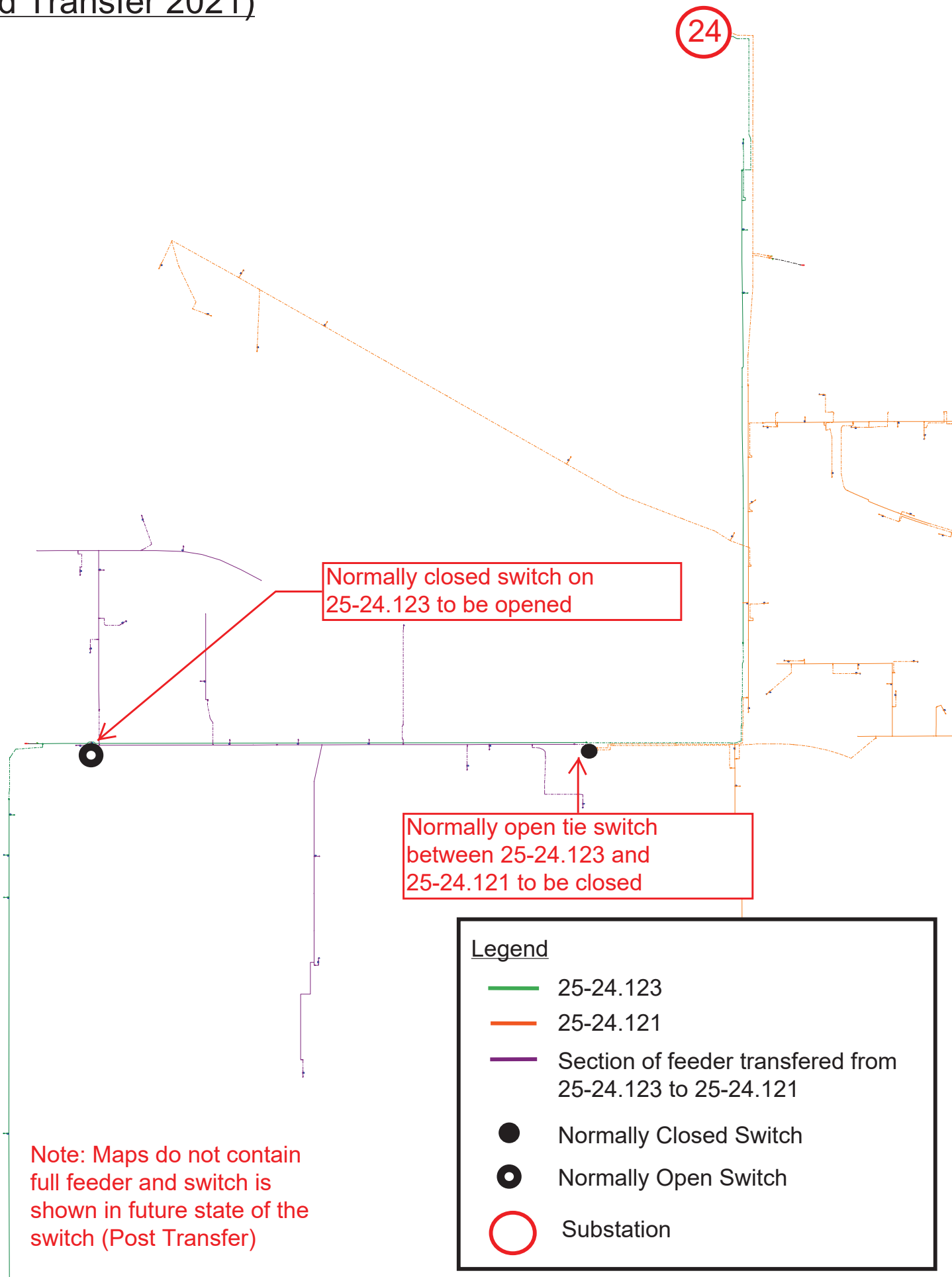


Legend

- 25-26.113
- 25-24.121
- Section of feeder transferred from 25-26.113 to 25-24.121
- Normally Closed Switch
- Normally Open Switch
- Substation

Note: Switches are shown in future state of the switch (Post Transfer).

A4: Switching Diagram (Load Transfer 2021)



Legend

- 25-24.123
- 25-24.121
- Section of feeder transferred from 25-24.123 to 25-24.121
- Normally Closed Switch
- ⦿ Normally Open Switch
- Substation

A5: Switching Diagram (Load Transfer 2021)

24

Normally open tie switch between 25-24.121 and 25-24.114 to be closed

Normally closed switch on 25-24.121 to be opened

Legend

- 25-24.121
- 25-24.114
- Section of feeder transferred from 25-24.121 to 25-24.114
- Normally Closed Switch
- Normally Open Switch
- Substation

Note: Map do not contain full feeders and switches are shown in future state of the switch (Post Transfer).

Appendix B

Load Additions and Load Transfers

Appendix B1: Load Growth in Study Region

Load Addition (kVA)											
Transformer	Feeder	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
24.1TR	25-24.111	0	0	100	150	200	200	200	400	400	400
24.1TR	25-24.112	50	100	260	250	300	300	400	600	600	600
24.1TR	25-24.121	5070	205	1110	610	610	110	140	140	210	210
24.1TR	25-24.122	0	0	0	0	0	0	0	0	0	0
24.2TR	25-24.113	0	-3000	0	0	0	0	0	0	0	0
24.2TR	25-24.114	200	1400	3854	1500	850	900	1050	1350	1350	1350
24.2TR	25-24.123	480	800	600	470	500	500	750	750	750	750
24.2TR	25-24.124	0	0	0	0	0	0	0	0	0	0
37.4TR	25-37.111	1250	1340	1120	1340	1110	1080	480	480	280	280

Appendix B2: Load Transfers in Study Region

Load Transfer (MVA)				
From	To	Year	Size (MVA)	Comment
25-37.111	25-24.114	2019	10.2	Necessary load transfer to maintain system reliability
25-24.113	FortisAlberta	2019	8.6	FortisAlberta load transferred to Chestemere Substation 419S
25-24.121	25-24.113	2019	8.0	Necessary load transfer to maintain system reliability
25-24.122	FortisAlberta	2019	5.9	FortisAlberta load transferred to Chestemere Substation 419S
25-26.113	25-24.121	2021	9.9	Necessary load transfer to maintain system reliability
25-24.123	25-24.121	2021	2.2	Necessary load transfer to maintain system reliability
25-24.121	25-24.114	2021	0.5	Necessary load transfer to maintain system reliability

Appendix C

Feeder Load Table

Appendix C: Load Table

Equipment Information / Ratings				Actual Recorded Values (Peak MVA)						Forecasted Values (Peak MVA)									
Sub	Feeder/TX ID	Capacity	S/W Peak	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
24S	24.1TR	30/40/50	S	39	27	27	28	30	28	20	20	32	33	34	35	36	37	38	39
24S	25-24.111	30/40/50	S	13	5	5	5	6	6	6	6	6	6	6	6	7	7	7	8
24S	25-24.112		S	12	12	12	12	11	12	12	12	12	12	13	13	13	14	15	15
24S	25-24.121		S	10	7	7	7	9	7	4	4	17	18	18	18	19	19	19	19
24S	25-24.122		S	5	5	6	6	6	6	0	0	0	0	0	0	0	0	0	0
24S	24.2TR		S	14	26	27	26	27	26	33	33	35	37	38	39	41	43	44	46
24S	25-24.113		S	7	8	9	7	9	9	8	5	5	5	5	5	5	5	5	5
24S	25-24.114		S	6	6	6	5	6	2	12	14	18	20	21	21	22	24	25	27
24S	25-24.123		S	0	11	11	11	12	13	13	14	12	13	13	14	14	15	16	17
24S	25-24.124		S	4	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5
24S			S	48	52	54	53	55	51	52	52	65	68	70	72	74	77	80	83
37S	37.1TR	30/40/50	S	25	24	24	23	24	23	24	24	24	25	25	26	27	27	27	27
37S	8-37.11	30/40/50	S	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
37S	8-37.12		S	4	4	4	4	5	4	4	4	4	4	4	4	4	3	3	3
37S	8-37.21		S	7	7	8	8	7	8	8	9	9	9	10	10	10	10	10	10
37S	8-37.22		S	9	9	9	7	8	8	8	8	8	8	8	8	9	9	9	9
37S	37.2TR		S	24	24	31	33	33	35	27	29	31	33	35	36	37	38	39	39
37S	8-37.13		S	4	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4
37S	8-37.14		S	1	1	2	3	4	4	4	5	5	5	6	6	7	7	7	8
37S	8-37.15		S	3	4	6	10	10	10	11	11	12	13	13	13	14	14	14	14
37S	8-37.23		S	5	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0
37S	25-37.111		S	7	7	10	9	9	12	3	4	5	7	8	9	9	10	10	10
37S	8-37.25	S	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	
37S		S	49	48	50	54	56	57	49	51	54	56	58	60	62	63	64	65	

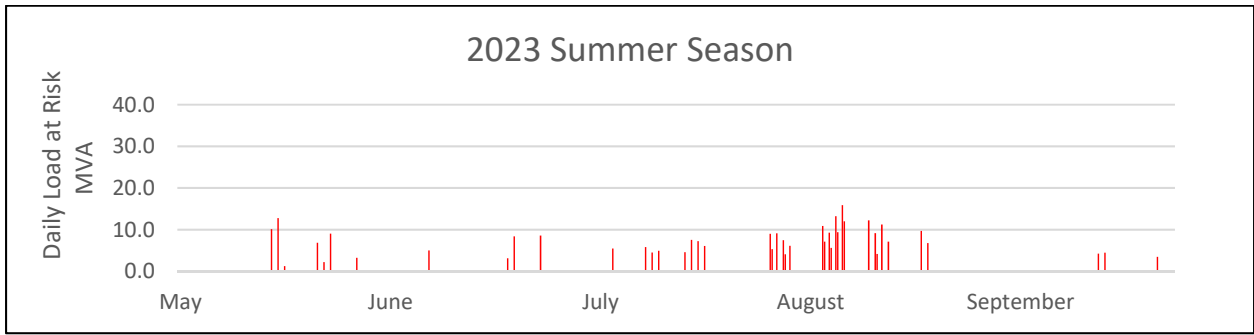
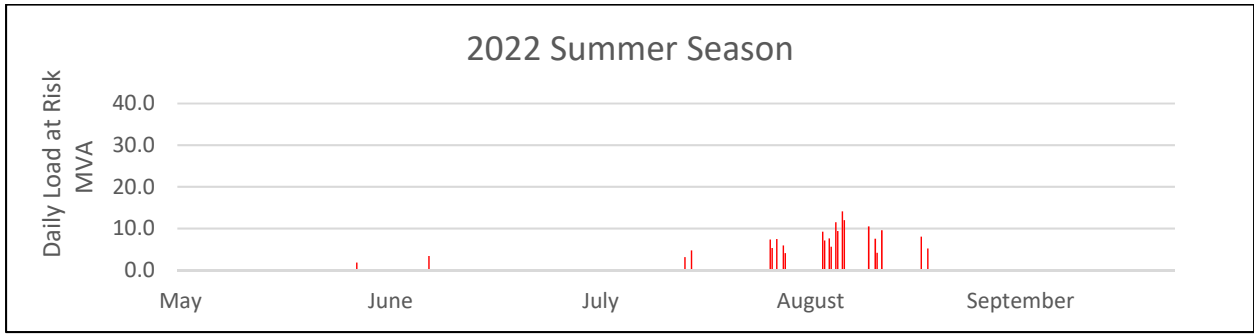
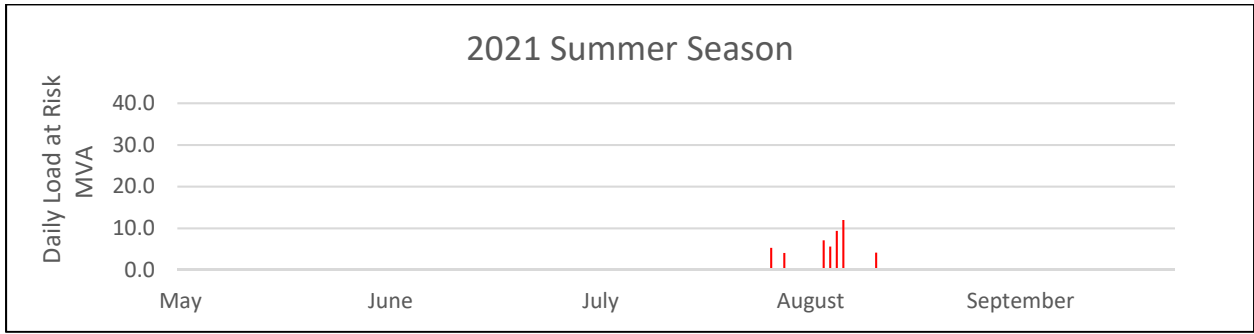
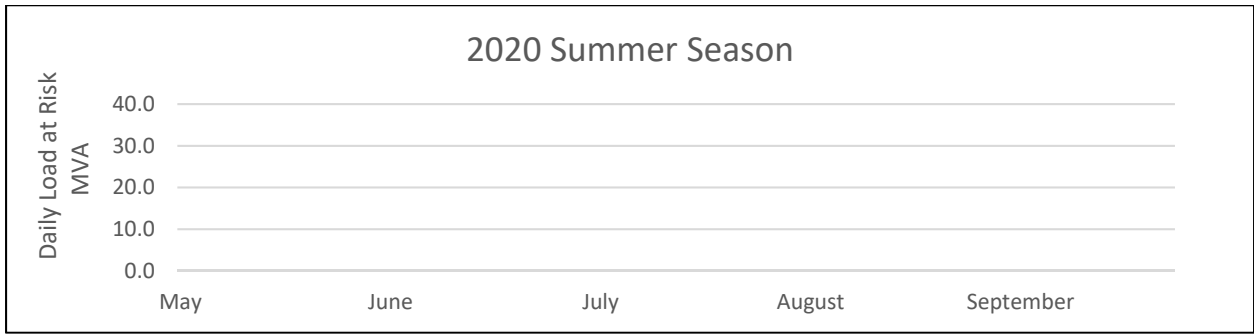
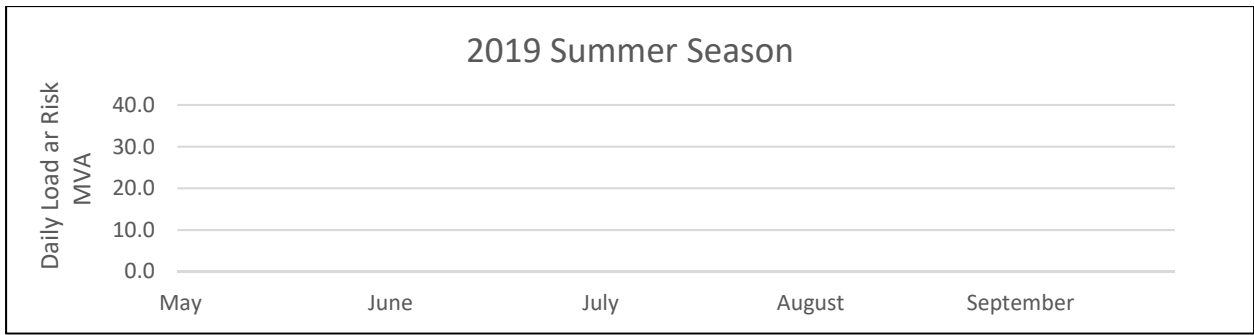
Total Area Load	S	97	100	104	107	110	109	101	103	119	124	128	132	136	140	144	147
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25-24.114 Total Load:	2	12	14	18	20	21	21	22	24	25	27
N-1 Capacity:	0	0	0	0	0	0	0	0	0	0	0
Back up from 25-24.121	2	12	14	0	0	0	0	0	0	0	0
Back up from 25-37.111	0	0	0	6	6	0	0	0	0	0	0
N-1 Unsupplied load	0	0	0	12	14	21	21	22	24	25	27
25-37.111 Total Load:	12	3	4	5	7	8	9	9	10	10	10
N-1 Capacity:	0	0	0	0	0	0	0	0	0	0	0
Back up from 25-24.114	12	3	4	5	6	2	2	2	0	0	0
N-1 Unsupplied load	0	0	0	0	1	6	7	7	10	10	10

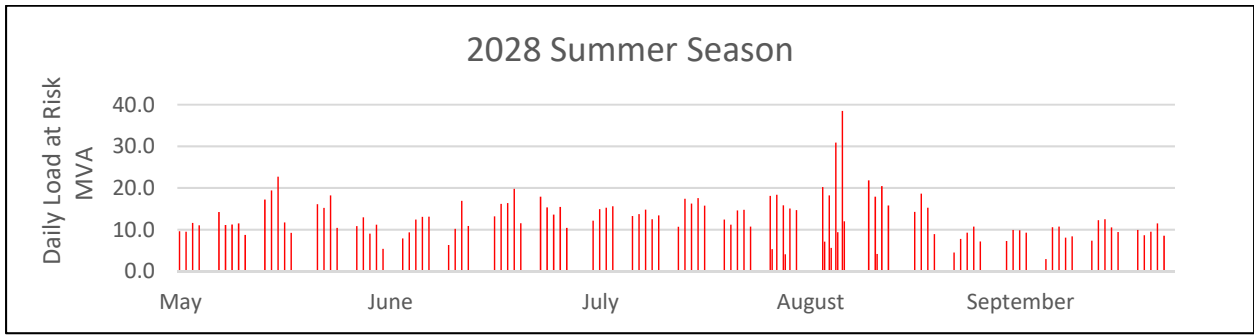
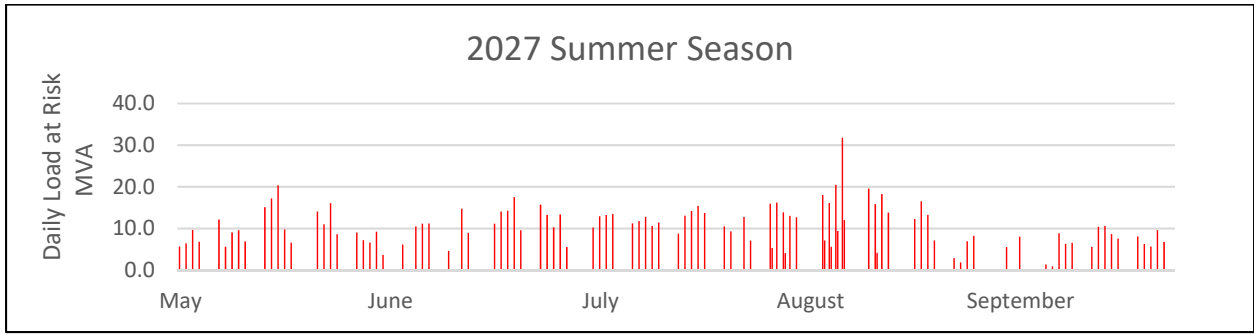
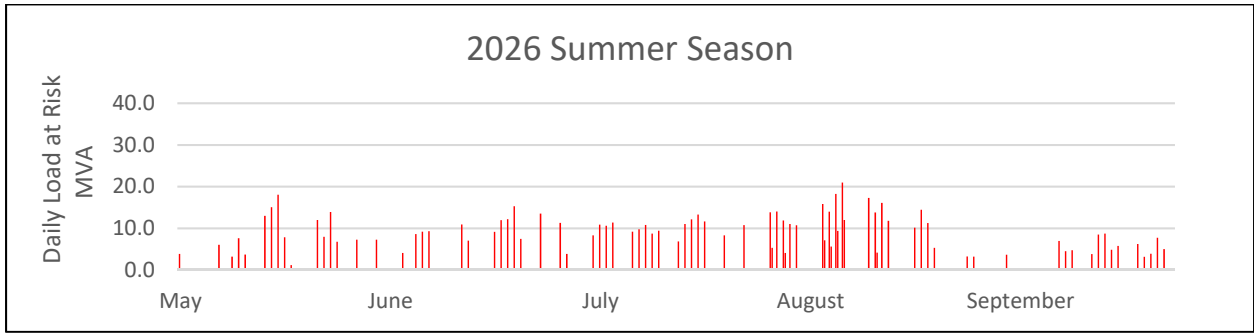
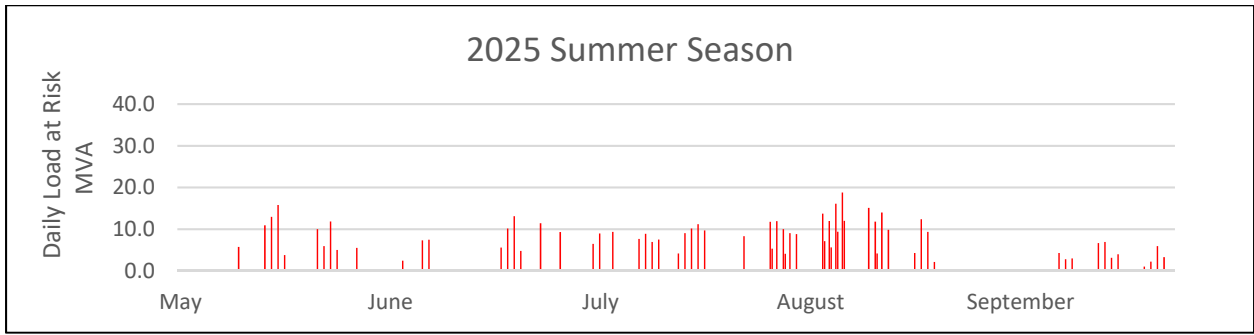
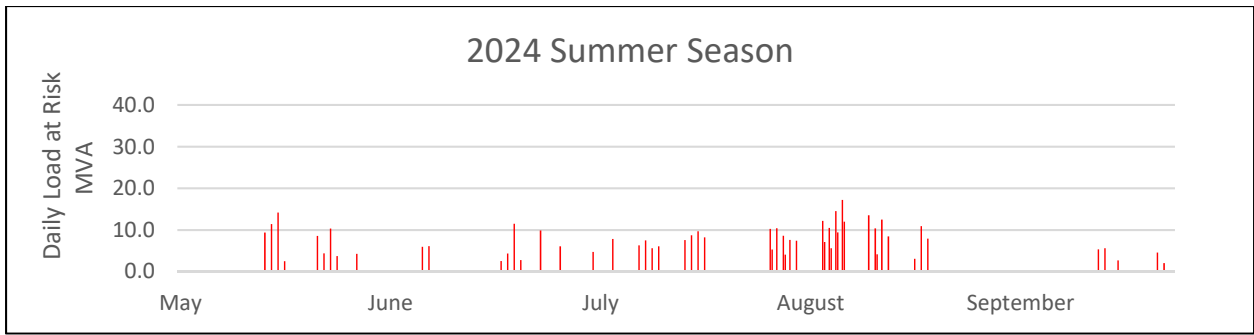
Appendix D

Load At Risk Charts

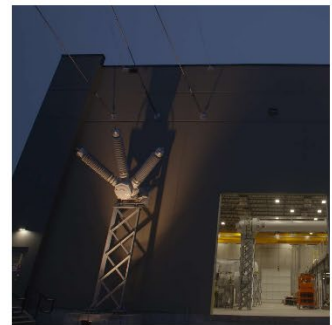
Appendix D – Summer Season Daily 24.1TR / 24.2TR Load At risk



Appendix D – Summer Season Daily 24.1TR / 24.2TR Load At risk



**ENMAX Power Corporation
Project P2102 –
AESO SON Round 2 Question
Responses
Revision 3.0**



Introduction

The following document presents EPC's response to questions posed by the AESO in their second "**P2102 – Transmission Facility Owner (TFO) and Distribution Facility Owner (DFO) Questions related to the Distribution Deficiency**" document and received by EPC on November 28th, 2019.

Original questions and EPC's responses are provided below. Questions and responses are broken up into the following two categories:

- 1) Question posed to EPC as the Transmission Facility Owner (TFO)
- 2) Question posed to EPC as the Distribution Facility Owner (DFO)

Question posed to EPC as the TFO

TFO Question 10.

"Preamble: EPC TFO states that "In the event of a contingency on 24.1TR, 24.2TR, or 37.4TR EPC would follow a process similar to that described in Table 1 and Table 2."

- a) In the event of one of the unplanned outages described in the SON, Table 5 and Table 6, during a summer peak hour on a year after 2021 that would yield some unsupplied load, what would be the limiting factor or factors?
 - *POD transformer capacity*
 - *Load transfer capability*
 - *Restoration time**
- b) Does EPC Operations perform, or have the capability of performing, contingency analysis 24/7? Would it be possible for operations to carry out mitigation measures under peak conditions, in preparation for the next contingency?*

TFO Response 10.

- a) For a N-1 contingency on feeder 25-24.114, the limiting factor for the unsupplied load in 2021 is feeder load transfer capability. POD transformer capacity will also become a limiting factor starting in 2023. For 25-37.111 contingency, the limiting factor also starts with just the feeder load transfer capability in 2023 and evolves to be both feeder load transfer capability and the POD transformer capacity starting in 2025. For a N-1 contingency on either transformer 24.1TR or 24.2TR, the limiting factors include all three, POD transformer capacity, feeder load transfer capability and restoration time.

For N-1 feeder contingencies described in SON¹, Table 5, EPC has considered the maximum usable capacity on all the tie-away feeders when calculating the feeder load at risk. For transformer N-1 contingencies described in SON, Table 6, EPC has considered available transfer capacity from transformers within the same substation and transformers in adjacent substations through multiple distribution feeders when calculating the load at risk.

- b) EPC Operations does not perform real time contingency analysis, 24 hours a day 7 days a week, for either of its Transmission or Distribution systems. EPC Operations develops a weekly

¹ "Statement of Need – No. 37 Substation 138/25 kV Transformer Addition", ENMAX Power Corporation, August 2018.

contingency plan that highlights planned outages and potential restoration procedures for select contingency events.

In the event of a contingency, EPC Operations assesses the state of its Transmission and Distribution systems and responds accordingly, as described in Table 1, Table 2, and Table 13 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document.

EPC does not plan its Transmission or Distribution systems to require operational load transfers pre-contingency. EPC does routinely assess and implement permanent load transfers between distribution feeders in order to maximize system capacity and limit risk in the event of contingencies. Such load transfers have been implemented at ENMAX No. 24 and No. 37 substations as described in EPC's SON.²

² See Notes 3 and 4 on Table 5 and Table 6 within EPC's "Statement of Need – No. 37 Substation 138/25 kV Transformer Addition" report dated August 2018.

Questions posed to EPC as the DFO

DFO Question 16.

“Preamble: EPC provided updated load forecast tables in Appendix B

- a) *Table 3 shows the total forecasted 25 kV load in the project area in the year 2028 will be 98 MVA, compared to 59 MVA in the year 2019. This is over 39% load growth in 9 years. Table 4 shows the forecasted load in the year 2028 will be 37 MVA compared to 15 MVA in the year 2019. This is over 100% growth of this load. Please explain the rationale for the load growth. It would be helpful to*
- Show the customer load addition expected for each year and at which feeder and substation.*
 - Provide more detail about load changes on 37.4TR, 24.1TR and 24.2TR in 2019 and load changes on 24.1TR in 2021. Can EPC provide more details about how these load changes are calculated? What is the load growth component and what is the load transfer component of each change? If load is transferred out, which feeder and substations are those loads transferred to?*
- b) *Please describe how EPC accounts for new load in its load forecast (i.e. firm contracts)”*

DFO Response 16.

- a) As indicated in Table 3 of Appendix B in the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document, the footnote explained that the loading on 24.1TR and 24.2TR incorporates temporary load transfers away from the study area, which accounts for approximately 10 MVA of the load. As shown in Table 3, the actual load for the study area in 2018 was 71 MVA prior to the load transfer. The load temporarily transferred away in 2019 is planned to be transferred back in 2021 once the proposed new transformer in No. 37 Substation is installed. Over the 11-year period from 2018 to 2028, the area load is forecast to grow 27 MVA from 71 MVA to 98 MVA. The compounded year over year growth rate is calculated to be 3.3%.

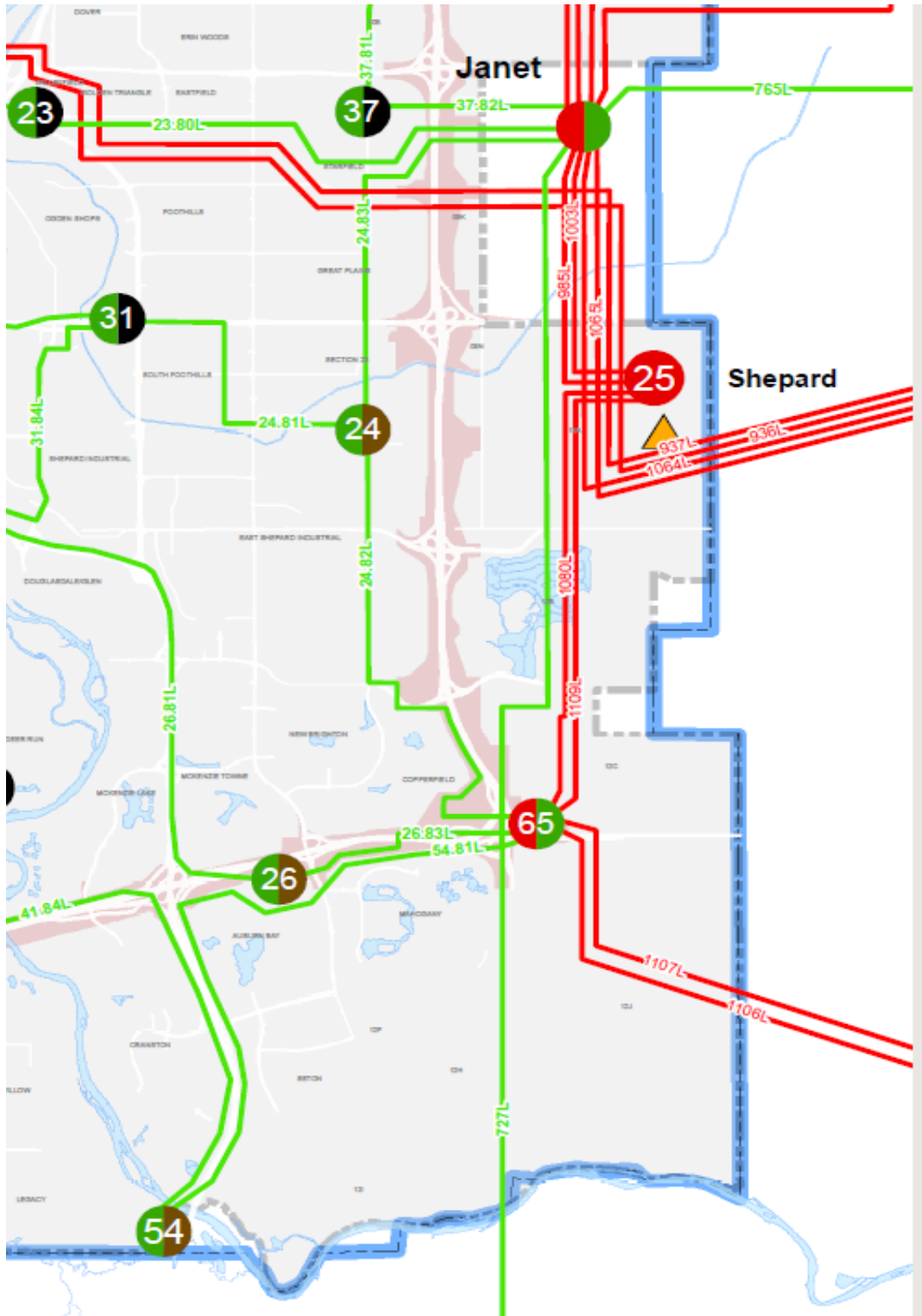
Table 3 also includes the actual study area load from 2013 to 2018. For this six-year period when the Calgary economic recession was at its worst, the area load grew from 60 MVA in 2013 to 71 MVA in 2018. The compounded year over year growth rate is calculated to be 3.4% which is slightly higher than the forecast compounded year over year growth rate from 2018 to 2028.

The study area covers a wealth of brown/green field land designated for industrial use by the City of Calgary. It is a prime area for large industrial operations. New customer connection requests in this area have been received at a steady pace.

Detailed feeder loading for ENMAX No. 24, 26, 37 and No. 54 Substations is provided in Appendix C. Loading details for ENMAX No. 26 and 54 Substations, which are located south to the study area (see Figure 1 below), are included for completeness only due to the interconnected nature of the 25 kV system. ENMAX No. 26 substation provides reliability support to ENMAX No. 24 Substation to the north and ENMAX No. 54 Substation to the south. As indicated in Appendix C, from 2013 to 2018, the combined load of ENMAX No. 26 and ENMAX No. 54 Substations grew from 50 MVA to 83 MVA with a compounded year over year growth rate at 10.7%. From 2018 to 2028, the combined load is forecast to grow from 83 MVA to 113 MVA (excluding load transfer) with a compounded year over year growth rate at 3.1%. Due to the continuous growth on the two

substations, two load transfer from No. 26 Substation to No. 24 Substation is required in 2021 as indicated in Appendix B2.

Figure 1: Substation Locations



A summary of total customer load additions on each feeder for each year in the study area as well as at No. 26 Substation and No. 54 Substation is provided in Appendix B1 of this document. Appendix B2, of this document, provides the details on load transfers occurred in 2019 and planned for 2021.

- b) EPC does not use customer contract load in its load forecast. To account for new load in its distribution load forecast, EPC gathers customer load information through active communication with project managers and developers, field checks, analysis of individual customer connection requests, historical loading for different types of load, and a study of area outline plans.

EPC accounts for large (>1,000 kVA) discrete load additions and organic load growth in new residential developments differently in load forecast. Typically for a discrete project, EPC receives customer project information including service size, electrical demand, and energization date from the customer and assesses the requested demand against the historical loading of similar customer loads that exist in the system. In most cases, the demand is adjusted downward to align with historical findings and reflect the expected load aggregated on the feeder level. For short term forecast (1 – 5 year window), the estimated load is added to the forecast only after the customer is committed to the project by paying a deposit. For longer term forecast (6 – 10 -year window), EPC collects project information directly from the developers and performs its own assessment before entering it into load forecast. Once incorporated into the forecast, the progress of the project is monitored through regular communication with the project team and occasional site visits, and the forecasted load is adjusted as expected load or in-service date changes. If part of a customer load has materialized in previous years, the forecasted load growth for future years is adjusted accordingly.

Organic load growth in residential areas is forecasted following a different process. The long-term forecast (five to 10 years) for the development is based on information received through City of Calgary's (CoC) Circulation process, CoC's Area Structure Plans and discussions with the CoC's Planning Group. A new residential development is not advanced to the short term (one to five years) forecast until EPC receives service request from the developer. Once the service plan for the development is underway, EPC obtains the estimated number of lots that electrical services will be installed for the next three years and incorporates the expected load into the load forecast. Once incorporated, the forecast for the residential community is visited annually and is reassessed based on conditions of construction.

As shown in Tables 17, 18 and 19 in the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document, the variances between the 2018 actual load and the forecasted load for the relevant No. 24 and 37 Substation transformers and feeders are within +/- 1 MVA. In addition, the forecasted 2018 EPC system overall load is 2% lower than the recorded 2018 actual load for the summer season, which is the study season for the project need.

DFO Question 17.

“Preamble: EPC states that “For Table 5 (Feeder Load at Risk), the maximum tie-away capacity is the maximum capacity available to effectively transfer load to backup feeders by tying away either the entire feeder or sections of the feeder”. To help us better understand the maximum tie-away capacity, please provide:

- a) *A Single Line Diagram (SLD) or switching map that clearly shows how loads in the project area can be transferred to various substations (including but not limited to SS-38, SS-37, and SS-24).*
- b) *Feeder Load tables that show the actual and forecasted load under normal conditions (no outages) and maximum tie-away capability at each feeder at various back-up substations under N-1 contingency events. See Appendix A - Example Load Table.”*

DFO Response 17.

- a) Distribution feeder switching maps are provided in Appendix A of this document, outlining EPC planned load transfers in 2019 and 2021.

In Appendix A1, two normally closed switches are opened and one normally open tie switch is closed to complete the transfer of a section of feeder 25-37.111 to 25-24.114.

In Appendix A2, a normally closed tie switch is opened and a permanent connection is made to complete the load transfer of a section of feeder 25-24.121 to 25-24.113.

In Appendix A3, a normally open tie switch is closed and a normally closed switch is opened to complete the load transfer of a section of feeder 25-26.113 to 25-24.121.

In Appendix A4, a normally open tie switch is closed and a normally closed switch is opened to complete the load transfer of a section of feeder 25-24.123 to 25-24.121.

In Appendix A5, a normally open tie switch is closed and a normally closed switch is opened to complete the load transfer of a section of feeder 25-24.121 to 25-24.114.

- b) Please see Appendix C of this document for the feeder load and maximum tie-away capability tables. Note that a simple summation of the data in Appendix B1 and the previous year load will not arrive at the transformer loading values in Appendix C due to feeder peak diversification. The multiple feeders supplied by one transformer typically do not peak at the same time due to differences in feeder load characteristics. When forecasting the transformer loading, EPC applies a six-year average diversification factor on each feeder.

DFO Question 18.

“Preamble: Based on Appendix A-A1-A3 EPC DFO states that ‘All new distribution facilities within the ENMAX 25 kV Boundary, as defined in map DSP - M.001, will be planned and designed to 25 kV standards’

- a) *What is the rationale for the 25 kV Standard in the EPC Distribution System Performance document?*
- b) *Could all or part of new customer loads be supplied from the existing 13 kV system?”*

DFO Response 18.

- a) A 25 kV feeder can supply more load and has longer reach than a 13 kV feeder of the same conductor type. For the same amount of load, the required current at 25 kV will be approximately

half of that at 13 kV resulting in lower line loss as well as lower voltage drop for the 25 kV supply. Due to longer reach of the 25 kV feeders, less feeder infrastructure will be required to supply the area load. Consequently, less 25 kV POD infrastructure (number of breakers, switchgear, busses, etc.) will be required. Therefore, EPC adopted the 25 kV standard for the outer city areas because it is more efficient to operate due to lower line loss and more economic to build compared to 13 kV system.

The 25 kV Standard only applies to the outer city areas as defined by the *ENMAX 25 kV Boundary* map. The inner-city areas have already been established with 13 kV supply when the 25 kV Standard was adopted, and will remain 13 kV due to prohibitive cost to convert to 25 kV.

- b) Customer load in the study area cannot be supplied from the existing 13 kV system. As pointed out in answer a), doing so directly contradicts the EPC Distribution System Performance standard. This standard was previously filed with AUC in filings 23966-F0029 and 21508-F0031. It has also been used to guide multiple connection projects that EPC previous filed with the AESO such as AESO P682 (7 Sub Transformer Addition), P1787 (7 Sub Transformer Upgrade), P829 (54 Sub new POD), P1314 (162 Sub New POD) and P1644 (162 Sub 2nd Transformer) that have been approved by both the AESO and AUC.

In the 1970s, the City of Calgary Electric System (now EPC) standardized the primary distribution supply at 25 kV for any new development within the 25 kV boundary. As a result of years of following the standard for system development, currently the study area, which is within the 25 kV boundary, has become clustered with loads that are supplied by 25 kV infrastructure. The forecasted 25 kV new customer loads are not concentrated in one area that can be easily supplied from a different voltage. They are requested by customers/developers and scattered across the 25 kV area southeast of Stoney Trail and the Western Irrigation Canal. Extending existing 13 kV feeders or building new 13 kV feeders into the 25 kV service area to supply each of these loads will cost substantially more than supplying the customers from the 25 kV feeders due to distance. Two 138/13kV substations adjacent to the study area (Nos. 23 and 31 Substations, refer to Figure 1) are located in well-developed urban environment, and bringing new feeders from them will result in high development cost. Introducing 13 kV will also limit the operational capability as the two voltage systems cannot provide mutual backup. Furthermore, as discussed in response a), using 13kV supply can result in higher voltage drop and line loss.

As an example, the new load mentioned in the DFO Response 15 1) in P2102 – AESO SON Question Responses Revision 1.0 has formally requested for service with estimated 10 MVA of power demand. It is located a few meters away from an existing 25 kV feeder. However, if it were to be supplied from 13 kV, a new feeder of approximately 4.5 km from the closest 138/13.2 kV substation (No. 31 Substation) will be required through fully developed urban area and crossings of major roads (Glenmore Trail and Barlow Trail) and Western Irrigation Canal. In addition, another 13 kV feeder will be required for backup because the new 13 kV feeder cannot be tied to the existing 25 kV feeders in the area during contingency. The resulting high cost makes the 13 kV solution economically prohibitive as compared to 25 kV supply.

DFO Question 19.

“Preamble: EPC DFO states that ‘EPC acknowledges that all loads have public safety and environmental sensitivity considerations attached in the event of an outage’

- a) Please provide the anticipated magnitude, outage duration and types of loads at risk.*
- b) Is unsupplied load anticipated during non-peak conditions? If yes, provide supporting data.*
- c) Please identify the customers impacted that would result in public safety or environmental sensitivity concerns.*

DFO Response 19.

- a) Many factors affect the magnitude and duration of an outage. These factors include the types of the outage (planned or unplanned), the source of the outage, the affected equipment, and the state of the surrounding transmission and distribution systems at the time of the outage. A complete substation trip could result in the momentary outage of all load supplied by EPC No. 37 or EPC No. 24 Substations while a feeder fault could result in a momentary outage to those customers supplied by that feeder.

General response times for the restoration of load are provided as part of EPC’s General Response Processes in Table 1, Table 2, and Table 13 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document³.

EPC classifies load by rate class in accordance with its Distribution Tariff Rate Schedule⁴ as shown in Table 1 below. EPC No. 24 and No. 37 substations each serve a mixture of D100 (Residential), D200 (Small Commercial), D300 (Medium Commercial), D310 (Large Commercial – Secondary Fed), D410 (Large Commercial – Primary Fed), and D500 (Streetlight) customer load. Total customer counts by rate class are provided in Table 15 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document. Loads from each of these rate classes is at risk.

Table 1: EPC Load Classifications by Rate Class

Rate Class	Description
D100	Residential
D200	Small Commercial
D300	Medium Commercial
D310	Large Commercial – Secondary Fed
D410	Large Commercial – Primary Fed
D500	Streetlights

³ “ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0”, ENMAX Power Corporation, Nov 1st, 2019.

⁴ <http://www.auc.ab.ca/Shared%20Documents/ENMAXPower-RateSchedule.pdf>

- b) Unsupplied load is also anticipated during non-peak seasons. EPC conducted a time-series analysis using 2018 feeder load profiles throughout the summer season (May to September) and applied it to the 10-year forecasted load to produce daily load at risk graphs for each year. See Appendix D of this document for the load at risk graphs for transformers 24.1TR/24.2TR at ENMAX No. 24 Substation as an example. For a contingency on either transformer, both the available capacity on the remaining transformer at No. 24 Substation and feeder tie-away capacity from No. 26 Substation are taken into consideration. As the time-series analysis uses 15-minute interval data, it is in essence coincident load analysis. Therefore, the load at risk graphs depict the amount of coincidental load that will be in excess of the available capacity at specific time intervals of each day. Note that these graphs are based on the loading shown in the updated load forecast provided in Appendix C of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document. It is also important to note that the winter peak load has historically been 11% lower than the summer peak. Unsupplied load is also anticipated during the winter season (October to April), albeit at lower magnitude.
- c) EPC acknowledges that all loads have public safety and environmental sensitivity considerations attached to them in the event of an outage. EPC does not track how end use customers utilize power and is unable to speak to specific safety or environmental risks individual customers may encounter in the event of an outage. Generic examples of potential safety and environmental risks that could be present in the event of an outage include:
- Loss of traffic and street lighting.
 - The loss of traffic lights and street lighting may result in an increased risk of traffic and pedestrian accidents.
 - Loss of HVAC, heating, and cooling systems.
 - The operation of HVAC, heating, and cooling systems can be critical to the safety and wellbeing of customers. Safety risks associated with HVAC, heating, and cooling systems can be heightened during times of extreme weather conditions.
 - Inability to operate critical medical devices.
 - Many people rely on the use of electronic medical devices such CPAP machines, blood pressure monitors, nebulizers, and medical alert systems. These devices may be installed in personal residences, worksites, or other locations and require a continuous supply of power in order to operate. Power outages can prevent these devices from working and lead to medical distress for their users.
 - Loss of safety and environmental early detection and warning systems.
 - Many safety alarm and early warning systems, such as fire alarms, gas detection (CO₂, ammonia, etc.), pressure sensors, etc., rely on a continuous supply of power in order to operate. These systems may fail to operate in the event of a power outage if an adequate backup power supply is not present.
 - Loss of security systems.

DFO Question 20.

“Preamble: In Table 23, ENMAX indicated that there were unplanned outages.

- a) Please confirm if any DFO customers were impacted by those unplanned outages and the level of unsupplied load, if any, in MVA, for each of those unplanned events.”*

DFO Response 20.

- a) EPC can confirm that all outages in Table 23 of the ENMAX Power Corporation Project P2102 – AESO SON Question Responses Revision 1.0 document listed with load loss greater than 0 MW resulted in a customer impact. The magnitude of load tripped during each outage is provided in the last column of Table 23 and is listed in mega-watts. The reactive component of load tripped during the listed events is not readily available.

Of the events listed in Table 23, three events resulted in loss of load for a period longer than the switching time required to restore service through a single manual switching operation. These events are listed below in Table 2. EPC was unable to restore any load for those events within a single manual switching operation due to the location and cause of fault.

Table 2: EPC Feeder 25-37.111 – Historical Outage Event that Could Not be Restored Through A Single Manual Switching Operation.

Outage Type	Feeder	Outage Date/Time	Cause	Duration (Min)	Load Loss (MW)
Feeder	25-37.111	11/2/2016 4:33	Public Interference	22	3.2
Feeder	25-37.111	4/7/2013 3:24	Pole Fire	434	2.5
Feeder	25-37.111	1/24/2009 16:17	Equipment Failure	14	3

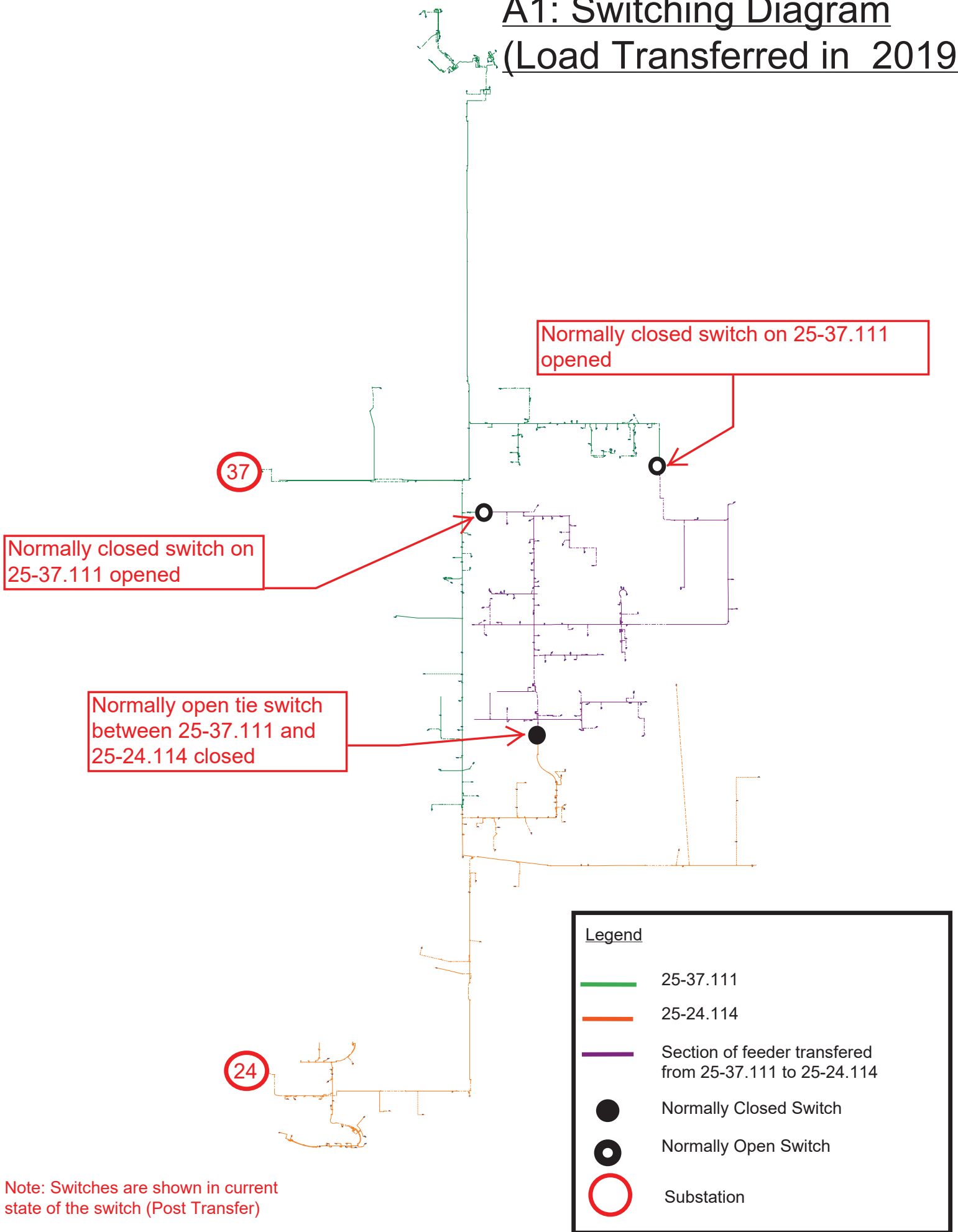
Appendix A

EPC Planned Load Transfer Switching Diagram

Distribution Switching Diagram List

Switching Diagram	Description
A1	2019 Load Transfers – Feeders 25-37.111 to 25-24.114
A2	2019 Load Transfers – Feeders 25-24.121 to 25-24.113
A3	2021 Load Transfers – Feeders 25-26.113 to 25-24.121
A4	2021 Load Transfers – Feeders 25-24.123 to 25-24.121
A5	2021 Load Transfers – Feeders 25-24.121 to 25-24.114

A1: Switching Diagram (Load Transferred in 2019)



Note: Switches are shown in current state of the switch (Post Transfer)

A2: Switching Diagram (Load Transferred in 2019)

Permanent connection made between 25-24.121 and 25-24.113 for load transfer

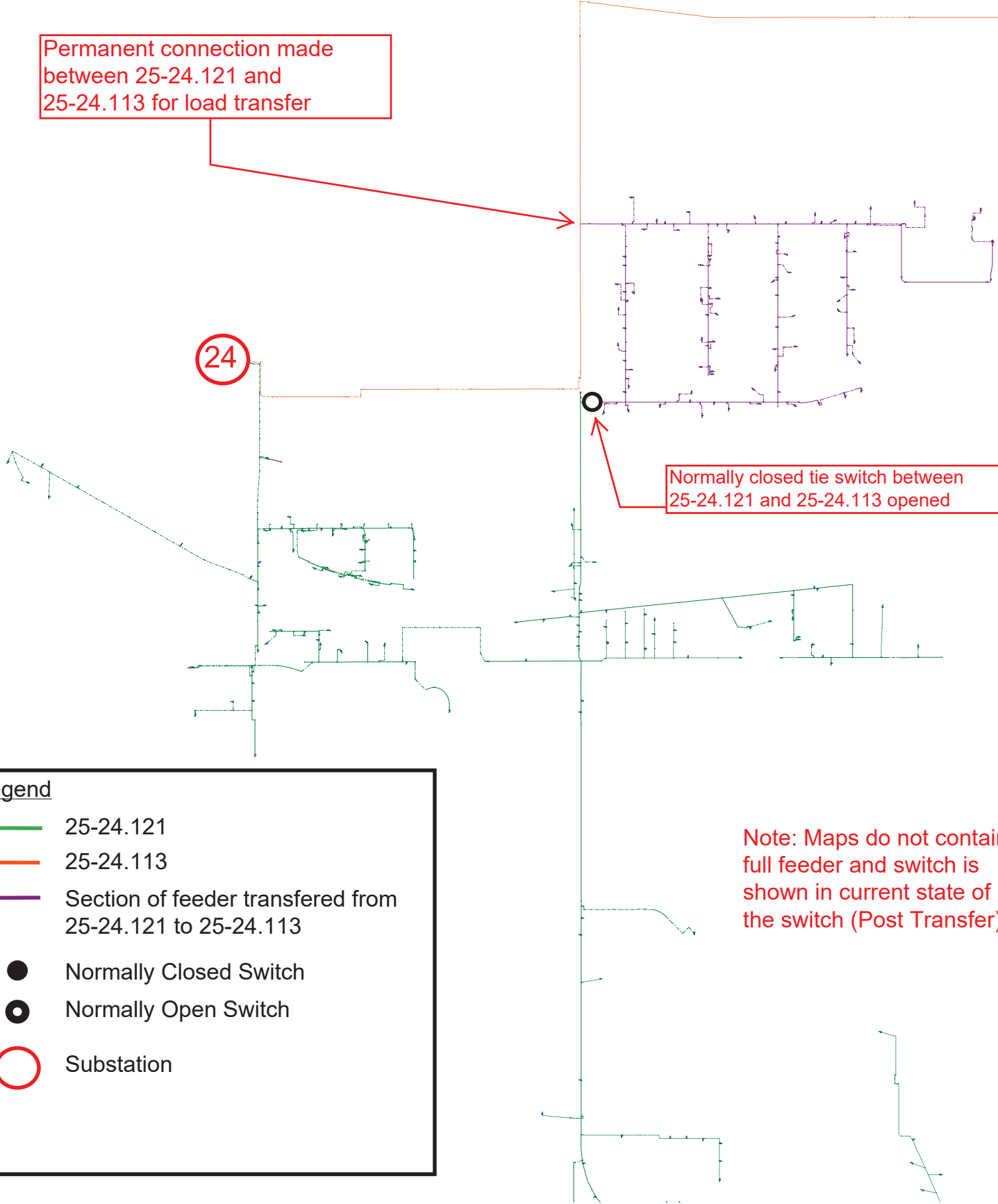
24

Normally closed tie switch between 25-24.121 and 25-24.113 opened

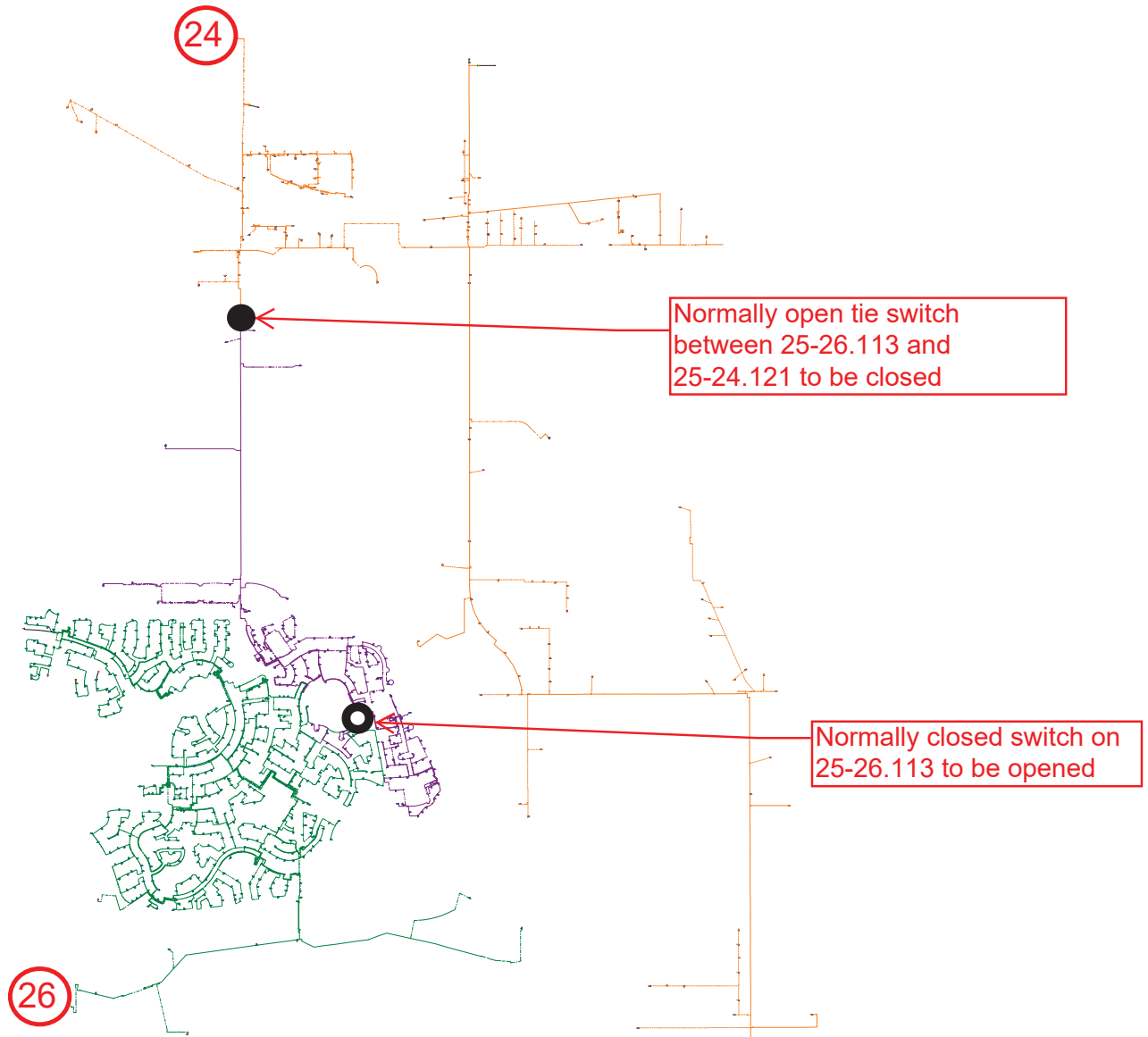
Legend

- 25-24.121
- 25-24.113
- Section of feeder transferred from 25-24.121 to 25-24.113
- Normally Closed Switch
- Normally Open Switch
- Substation

Note: Maps do not contain full feeder and switch is shown in current state of the switch (Post Transfer)



A3: Switching Diagram (Load Transfer 2021)



Normally open tie switch between 25-26.113 and 25-24.121 to be closed

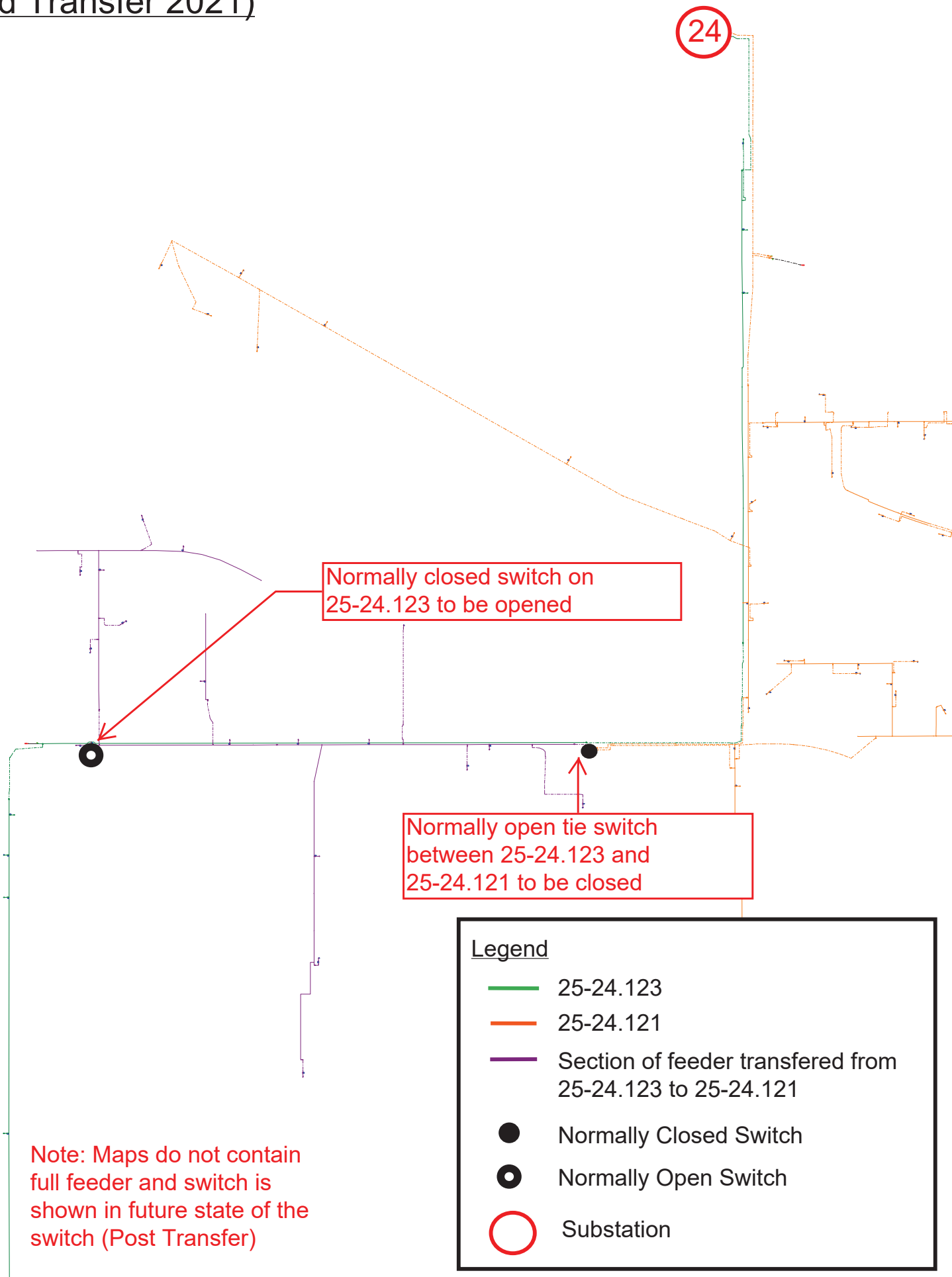
Normally closed switch on 25-26.113 to be opened

Legend

- 25-26.113
- 25-24.121
- Section of feeder transferred from 25-26.113 to 25-24.121
- Normally Closed Switch
- Normally Open Switch
- Substation

Note: Switches are shown in future state of the switch (Post Transfer).

A4: Switching Diagram (Load Transfer 2021)



A5: Switching Diagram (Load Transfer 2021)

24

Normally open tie switch between 25-24.121 and 25-24.114 to be closed

Normally closed switch on 25-24.121 to be opened

Legend

- 25-24.121
- 25-24.114
- Section of feeder transferred from 25-24.121 to 25-24.114
- Normally Closed Switch
- Normally Open Switch
- Substation

Note: Map do not contain full feeders and switches are shown in future state of the switch (Post Transfer).

Appendix B

Load Additions and Load Transfers

Appendix B1: Load Growth in Study Region and Greater Area

Load Addition (kVA)											
Transformer	Feeder	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
24.1TR	25-24.111	0	0	100	150	200	200	200	400	400	400
24.1TR	25-24.112	50	100	260	250	300	300	400	600	600	600
24.1TR	25-24.121	5070	205	1110	610	610	110	140	140	210	210
24.1TR	25-24.122	0	0	0	0	0	0	0	0	0	0
24.2TR	25-24.113	0	-3000 ¹	0	0	0	0	0	0	0	0
24.2TR	25-24.114	200	1400	3854	1500	850	900	1050	1350	1350	1350
24.2TR	25-24.123	480	800	600	470	500	500	750	750	750	750
24.2TR	25-24.124	0	0	0	0	0	0	0	0	0	0
37.4TR	25-37.111	1250	1340	1120	1340	1110	1080	480	480	280	280
26.1TR	25-26.112	2060	1405	820	260	80	160	160	240	240	240
26.1TR	25-26.121	0	0	280	350	280	310	310	440	440	440
26.2TR	25-26.113	1000	1000	250	560	560	720	720	870	870	550
26.2TR	25-26.123	215	320	245	250	225	290	280	320	180	180
54.1TR	25-54.111	2060	1920	1956	1734	1480	1380	875	905	1005	1005
54.1TR	25-54.121	110	180	70	70	0	0	0	0	0	0

1. Load decrease is due to forecasted customer load reduction

Appendix B2: Load Transfers in Study Region and Greater Area

Load Transfer (MVA)				
From	To	Year	Size (MVA)	Comment
25-37.111	25-24.114	2019	10.2	Necessary load transfer to maintain system reliability
25-24.113	FortisAlberta	2019	8.6	FortisAlberta load transferred to Chestemere Substation 419S
25-24.121	25-24.113	2019	8.0	Necessary load transfer to maintain system reliability
25-24.122	FortisAlberta	2019	5.9	FortisAlberta load transferred to Chestemere Substation 419S
25-26.113*	25-24.121	2021	9.9	In 2018, 9.9MVA of load was temporarily transferred away from No.24 substation to No.26 substation to accommodate a new customer connection coming to 24 sub. In 2021, driven by the fact that No.54 substation area will have more load growth and hence require increased backup capacity from No.26 substation and the fact that a portion of load at No.24 substation was transferred to FortisAlberta in 2019, the 9.9MVA of load is planned to be returned from No.26 substation to No.24 substation.
25-24.123	25-24.121	2021	2.2	Necessary load transfer to maintain system reliability
25-24.121	25-24.114	2021	0.5	Necessary load transfer to maintain system reliability
25-26.112	25-26.113	2021	9.3	Necessary load transfer to maintain system reliability
25-54.111*	25-26.121	2021	11.3	Transfer of load to mitigate feeder overload and transformer N-1 contingency at No. 54 Substation

* The two load transfers are driven by the load growth at No.54 Substation

Appendix C

Feeder Load Table

Appendix C: Load Table

Equipment Information / Ratings				Actual Recorded Values (Peak MVA)							Forecasted Values (Peak MVA)								
Sub	Feeder/TX ID	Capacity	S/W Peak	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
24S	24.1TR	30/40/50	S	39	27	27	28	30	33	23	23	36	36	37	38	39	40	41	42
24S	25-24.111	30/40/50	S	13	5	5	5	6	6	6	6	6	6	7	7	7	8	8	
24S	25-24.112		S	12	12	12	12	11	14	14	14	14	14	14	15	15	16	16	17
24S	25-24.121		S	10	7	7	7	9	8	5	5	18	19	19	19	20	20	20	20
24S	25-24.122		S	5	5	6	6	6	6	0	0	0	0	0	0	0	0	0	0
24S	24.2TR		S	14	26	27	26	27	26	33	33	35	37	38	39	41	43	44	46
24S	25-24.113		S	7	8	9	7	9	9	8	5	5	5	5	5	5	5	5	5
24S	25-24.114		S	6	6	6	5	6	2	12	14	18	20	21	21	22	24	25	27
24S	25-24.123		S	0	11	11	11	12	13	13	14	12	13	13	14	14	15	16	17
24S	25-24.124	S	4	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
24S		S	48	52	54	53	55	56	55	54	69	71	73	75	77	80	83	86	
37S	37.1TR	30/40/50	S	25	24	24	23	24	23	24	24	24	25	25	26	27	27	27	27
37S	8-37.11	30/40/50	S	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
37S	8-37.12		S	4	4	4	4	5	4	4	4	4	4	4	4	3	3	3	
37S	8-37.21		S	7	7	8	8	7	8	8	9	9	9	10	10	10	10	10	10
37S	8-37.22		S	9	9	9	7	8	8	8	8	8	8	8	8	9	9	9	9
37S	37.2TR		S	24	24	31	33	33	35	27	29	31	33	35	36	37	38	39	39
37S	8-37.13		S	4	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4
37S	8-37.14		S	1	1	2	3	4	4	4	5	5	5	6	6	7	7	7	8
37S	8-37.15		S	3	4	6	10	10	10	11	11	12	13	13	13	14	14	14	14
37S	8-37.23		S	5	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0
37S	25-37.111		S	7	7	10	9	9	12	3	4	5	7	8	9	9	10	10	10
37S	8-37.25	S	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	
37S		S	49	48	50	54	56	57	49	51	54	56	58	60	62	63	64	65	
26S	26.1TR	30/40/50	S	32	26	23	16	16	26	27	28	31	32	33	33	34	34	35	36
26S	25-26.111	30/40/50	S	20	10	10	10	10	10	11	11	11	11	11	11	11	11	12	12
26S	25-26.112		S	9	9	11	2	3	12	14	15	7	7	7	7	7	8	8	8
26S	25-26.121		S	0	0	0	0	0	0	0	0	12	12	12	12	13	13	14	14
26S	25-26.122		S	5	5	6	6	4	4	4	4	4	4	4	4	4	4	4	4
26S	26.2TR		S	7	8	12	25	26	28	28	29	29	30	31	32	33	34	35	35
26S	25-26.113		S	0	0	0	13	16	15	16	17	16	17	17	18	19	20	21	21
26S	25-26.123		S	8	8	12	13	13	14	14	14	14	15	15	15	15	16	16	16
26S	25-26.124		S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26S		S	39	34	35	40	42	53	54	57	60	61	63	64	66	67	69	71	
54S	54.1TR	30/40/50	S	11	21	26	23	29	30	31	33	25	26	28	29	30	31	32	32
54S	25-54.111	30/40/50	S	0	10	12	13	15	16	19	20	11	13	14	16	17	18	19	20
54S	25-54.112		S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54S	25-54.121		S	8	10	11	11	12	12	12	13	13	13	13	13	13	13	13	13
54S	25-54.122		S	4	5	6	3	5	4	4	4	4	4	4	4	4	4	4	4
54S			S	11	21	26	23	29	30	31	33	25	26	28	29	30	31	32	32
Total Area Load			S	147	155	165	171	181	196	190	196	207	215	222	228	235	241	248	254

Green highlight indicates that the loading in the cell includes both load growth and load transfer. See table below for separation of load growth vs. load transfer.

Feeder	Year	Load Growth Component	Load Transfer Component
25-24.121	2019	5.07	-8.00
25-24.121	2021	1.10	11.6
25-24.114	2019	0.20	10.2
25-24.114	2021	3.85	0.5
25-24.123	2021	0.60	-2.20
25-37.111	2019	1.25	-10.2
25-26.112	2021	0.82	-9.30
25-26.113	2021	0.25	-0.63
25-26.121	2021	0.28	11.3
25-54.111	2021	1.97	-11.3

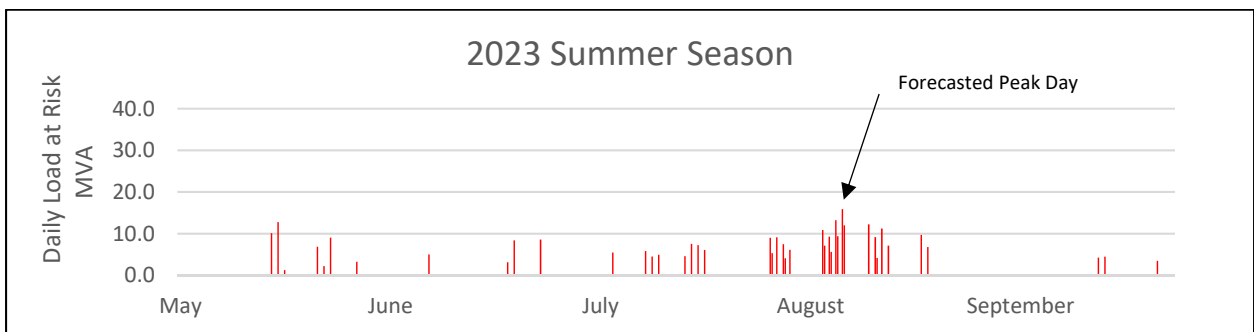
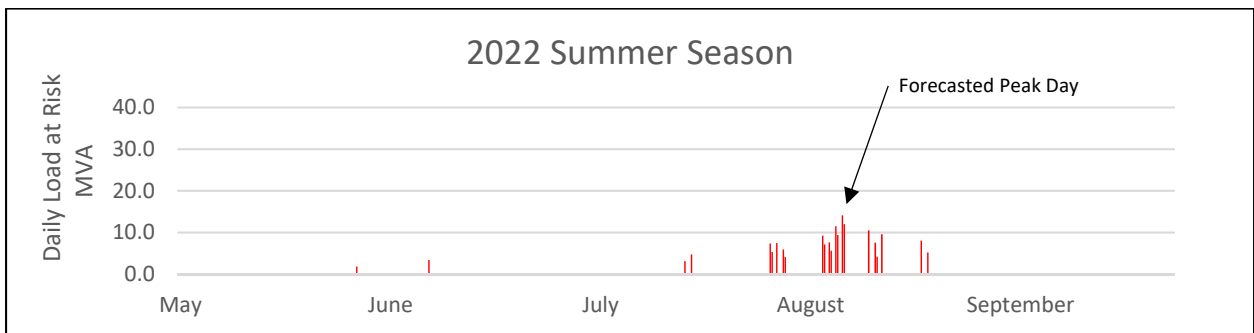
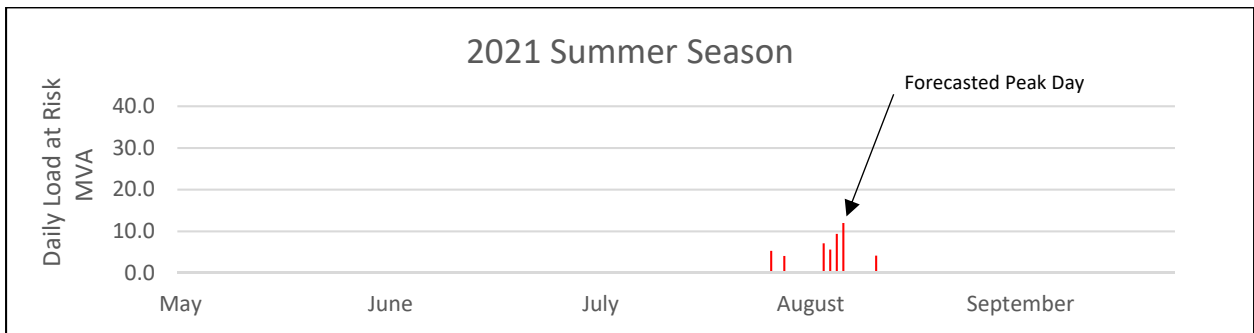
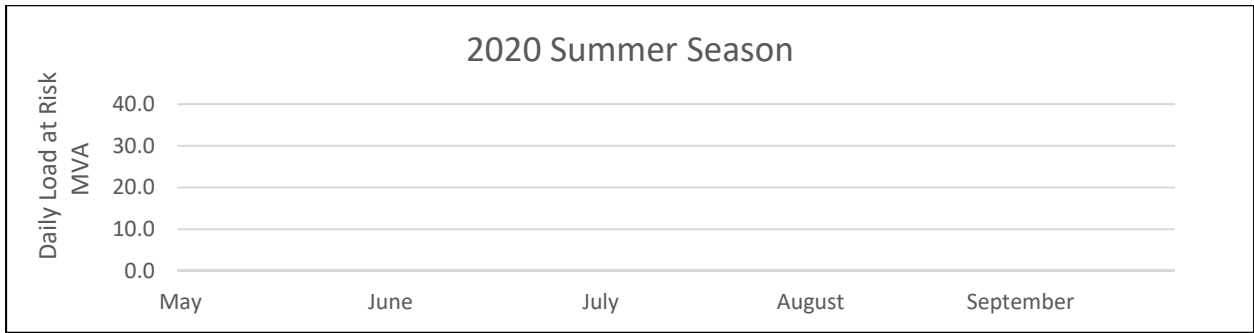
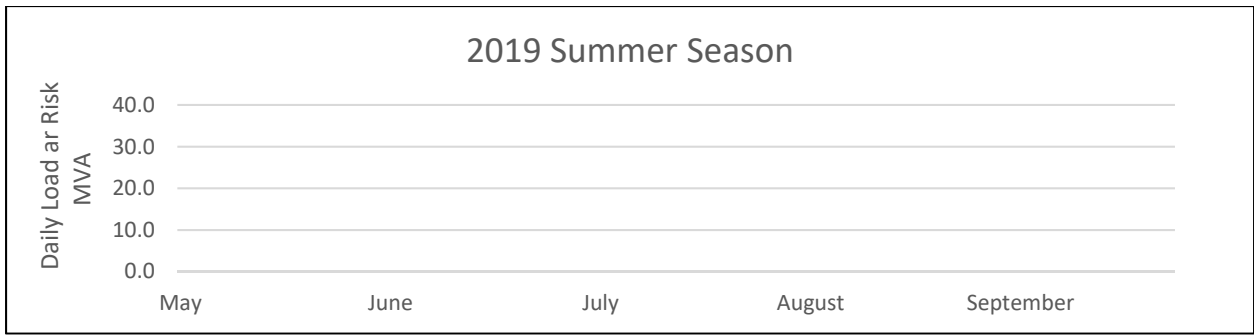
For specifics about Load transfer please refer to Appendix B2

25-24.114 Total Load:	2	12	14	18	20	21	21	22	24	25	27
N-1 Capacity:	0	0	0	0	0	0	0	0	0	0	0
Back up from 25-24.121	2	12	14	0	0	0	0	0	0	0	0
Back up from 25-37.111	0	0	0	6	6	0	0	0	0	0	0
N-1 Unsupplied load	0	0	0	12	14	21	21	22	24	25	27
25-37.111 Total Load:	12	3	4	5	7	8	9	9	10	10	10
N-1 Capacity:	0	0	0	0	0	0	0	0	0	0	0
Back up from 25-24.114	12	3	4	5	6	2	2	2	0	0	0
N-1 Unsupplied load	0	0	0	0	1	6	7	7	10	10	10

Appendix D

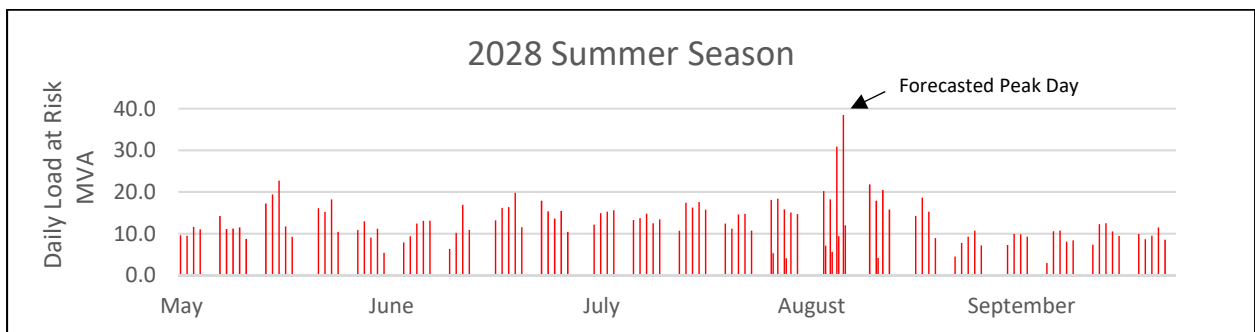
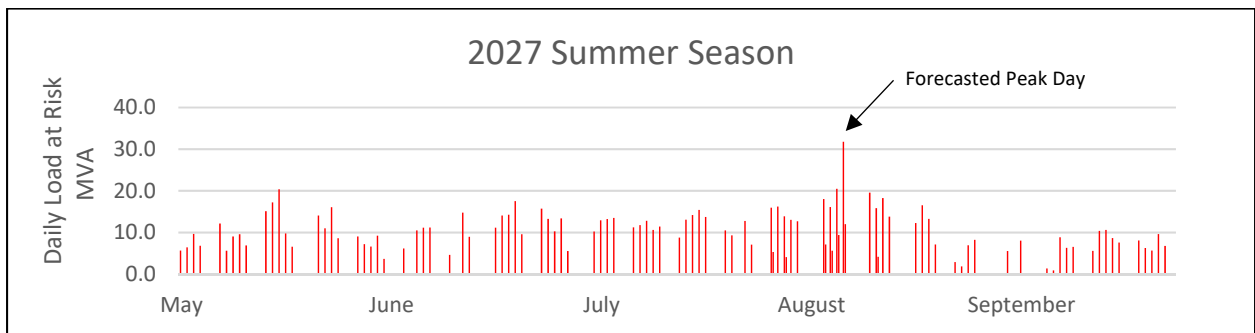
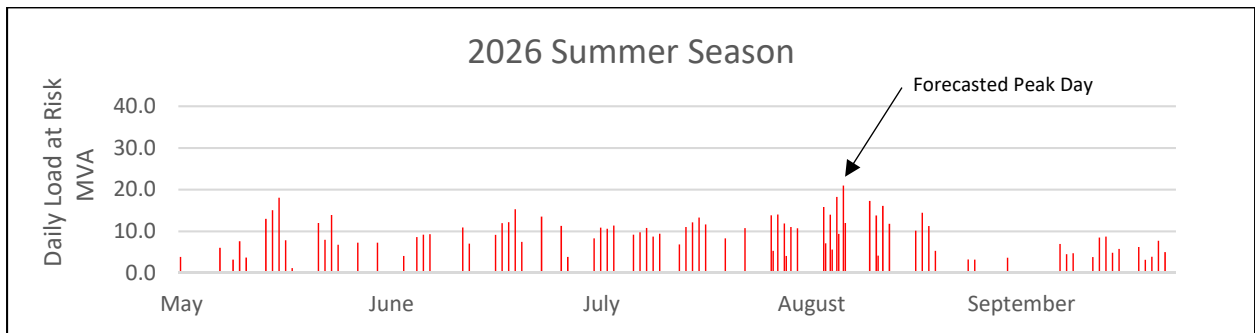
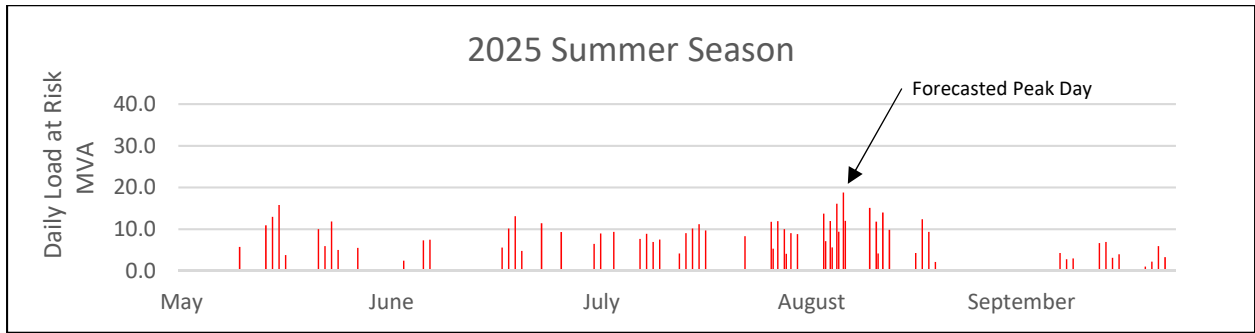
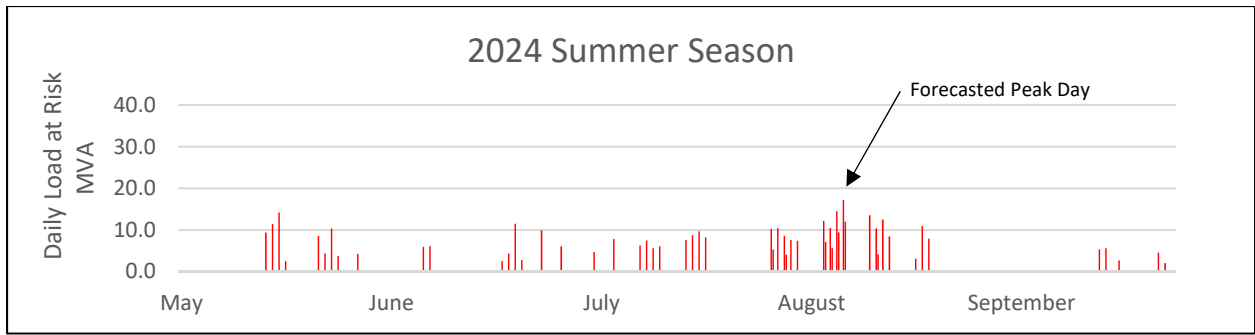
Load At Risk Charts

Appendix D – Summer Season Daily 24.1TR / 24.2TR Load At risk



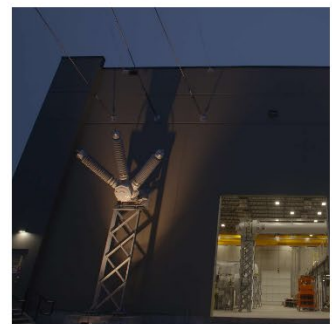
All other days indicating LAR/Unsupplied Load are considered nonpeak.

Appendix D – Summer Season Daily 24.1TR / 24.2TR Load At risk



All other days indicating LAR/Unsupplied Load are considered nonpeak.

**ENMAX Power Corporation
Project P2102 –
AESO SON Round 5 Question
Responses
Revision 1.0**



Introduction

The following document presents EPC's response to questions posed by the AESO in the fifth "**P2102 – Distribution Facility Owner (DFO) Questions related to the Distribution Deficiency**" document originally received by EPC on September 30th, 2020 and updated by the AESO on October 21, 2020.

The AESO's questions and EPC's responses are provided below.

Questions posed to EPC as the DFO

AESO Question P2102-2020SEP30-1

Preamble: In the Requirement for Load Transfers from No. 26 Substation to No. 24 Substation Section, EPC states that ‘One factor driving the deficiency in 2021 is a load transfer from No. 26 Substation to No. 24 Substation. This load transfer is needed’ . . .

Based on EPC P2102-AESO SON Round 2 Question Responses R3.0 Appendix B2, there are additional load transfers to No. 26 substation. This contributes to the need for load transfer from No. 26 substation to No. 24 substation and ultimately contributing to the deficiency.

- a) Could EPC elaborate on why 11.3 MVA load transfer from 25-54.111 to SS-26.121 is needed?
- b) Is the N-1 feeder and transformer overload at No. 54 substation referred to in the table below an existing issue?
- c) What year does the N-1 feeder/transformer overload occur at No. 54 substation? Why is the load being transferred in 2021?
- d) Will there be any N-1 load at risk at No. 54 substation if the load transfer does not happen in 2021?

Appendix B2: Load Transfers in Study Region and Greater Area¹

Load Transfer (MVA)				
From	To	Year	Size (MVA)	Comment
25-37.111	25-24.114	2019	10.2	Necessary load transfer to maintain system reliability
25-24.113	FortisAlberta	2019	8.6	FortisAlberta load transferred to Chestemere Substation 419S
25-24.121	25-24.113	2019	8.0	Necessary load transfer to maintain system reliability
25-24.122	FortisAlberta	2019	5.9	FortisAlberta load transferred to Chestemere Substation 419S
25-26.113*	25-24.121	2021	9.9	In 2018, 9.9MVA of load was temporarily transferred away from No. 24 substation to No. 26 substation to accommodate a new customer connection coming to 24 sub. In 2021, driven by the fact that No.54 substation area will have more load growth and hence require increased backup capacity from No.26 substation and the fact that a portion of load at No.24 substation was transferred to FortisAlberta in 2019, the 9.9MVA of load is planned to be returned from No.26 substation to No.24 substation.
25-24.123	25-24.121	2021	2.2	Necessary load transfer to maintain system reliability
25-24.121	25-24.114	2021	0.5	Necessary load transfer to maintain system reliability
25-26.112	25-26.113	2021	9.3	Necessary load transfer to maintain system reliability
25-54.111*	25-26.121	2021	11.3	Transfer of load to mitigate feeder overload and transformer N-1 contingency at No. 54 Substation

* The two load transfers are driven by the load growth at No. 54 Substation

DFO Response P2102-2020SEP30-1.

- a) As stated in the table above, the 11.3 MVA load transfer from 25-54.111 to 25-26.121 is needed to mitigate feeder and transformer N-1 overload/deficiencies at ENMAX No. 54 Substation. ENMAX No. 54 Substation contains a single 50 MVA 138/25 kV transformer, which is supplying four 25 kV feeders (25-54.111, 25-54.112, 25-54.121, and 25-54.122) with one feeder (25-54.112) currently not servicing any load. Table 1 below shows the load forecast for the feeders and the transformer at ENMAX No. 54 Substation without the proposed load transfer from feeder 25-54.111 to feeder 25-26.121.

¹ Appendix B2, ENMAX Power Corporation Project P2102 – AESO SON Round 2 Question Responses Revision 3.0, ENMAX Power Corporation, March 23, 2020

Table 1: ENMAX No. 54 Substation Feeder and Transformer Load Forecast (MVA)

Feeder/TX ID	Season	2020	2021	2022	2023	2024	2025	2026	2027	2028
25-54.111	S	20	23	25	26	28	29	30	32	33
25-54.111	W	23	26	29	31	33	35	36	38	40
25-54.112	S	-	-	-	-	-	-	-	-	-
25-54.112	W	-	-	-	-	-	-	-	-	-
25-54.121	S	13	13	13	13	13	13	13	13	13
25-54.121	W	12	12	12	12	12	12	12	12	12
25-54.122	S	4	4	4	4	4	4	4	4	4
25-54.122	W	4	4	4	4	4	4	4	4	4
54.1TR	S	33	35	37	39	40	41	42	43	45
54.1TR	W	36	38	41	43	45	46	47	49	51

Notes:

1. Red indicates overload on the feeder or transformer.
2. Feeder maximum thermal capacity is 26 MVA.

The following are the identified deficiencies at ENMAX No. 54 Substation:

- Feeder 25-54.111 overload starting in the winter of 2021 under normal operating conditions (N-0), as shown in Table 1. This capacity deficiency will limit EPC's ability to connect new customers onto the system.
- Load at risk during a loss of feeder 25-6.111 or the single 50 MVA 138/25 kV transformer at ENMAX No. 6 Substation, starting in 2020 as shown in Table 2. Feeder 25-54.111 is the only feeder providing reliability support to the 25 kV load at ENMAX No. 6 Substation. Currently, only one feeder from ENMAX No. 6 Substation is supplying customers.
- Load at risk during loss of transformer 54.1TR starting from 2020 as shown in Table 3. It is important to note that the amount of load at risk is assessed based on the assumption that the load transfer from ENMAX No. 26 Substation to ENMAX No. 24 Substation is completed prior to Winter 2021. If the load transfer were not to happen, the amount of load at risk would be much higher due to capacity limitation on the transformers at ENMAX No. 26 Substation.

Table 2: Feeder 25-6.111 Load at Risk – Peak Conditions (MVA)

25-6.111 ¹ Contingency	Season	2020	2021	2022	2023	2024	2025	2026	2027	2028
Feeder Loading	W	6	7	8	9	10	10	11	12	13
Total Tie Away ²	W	2	0	0	0	0	0	0	0	0
Load at Risk³	W	4	7	8	9	10	10	11	12	13

Notes:

1. Feeder maximum thermal capacity is 26 MVA.
2. Total Tie Away is the maximum capacity available to effectively transfer load away from the out-of-service feeder using existing feeder ties.
3. Load at Risk is the customer load that cannot be returned to service within a timeframe of one manual switching operation during an N-1 contingency.

Table 3: 54.1TR Load at Risk – Peak Conditions (MVA)

54.1TR Contingency	Season	2020	2021	2022	2023	2024	2025	2026	2027	2028
54.1TR Loading	W	36	38	41	43	45	46	47	49	51
Total Tie-away	W	29	32	31	26	22	19	16	16	16
Load at Risk*	W	6	7	10	16	23	27	31	33	34

To resolve the deficiencies listed above, EPC explored the following three options:

- Option 1: Build a new feeder from ENMAX No. 26 Substation (25-26.121) to offload feeder 25-54.111.
- Option 2: Build a new feeder from ENMAX No. 54 Substation to offload feeder 25-54.111.
- Option 3: Build a new feeder from ENMAX No. 6 Substation to offload feeder 25-54.111.

Option 2 will resolve the feeder deficiencies. However, it cannot resolve the transformer N-1 deficiency. Therefore, this option is technically unviable and dismissed.

Option 3 was dismissed as it will require the installation of 11 km of new feeder to the tie point and results in an over 23 km long feeder due to the geographic location of ENMAX No. 6 Substation. A 23 km long feeder would cause under voltage issues for customers during normal operation.

Option 1 is the only technically viable solution to solve all the deficiencies.

The load transfer from feeder 25-54.111 to feeder 25-26.121 (Option 1) is needed in order to resolve the identified deficiencies. It is required to fulfill EPC's obligation as a DFO to provide electric services to new customers and to meet the reliability requirements as stipulated by the EPC Distribution System Performance Standard. This project is currently in execution for completion before winter 2021.

- b) The overload is not an existing issue. It is forecast to occur starting in winter 2020.
- c) See response to part a) above for when the load at risk is expected. EPC strives to resolve system deficiencies in a timely manner; however, it may take longer to plan and execute the project. The load is scheduled to be transferred in 2021.
- d) Yes. See response to part a) above.

AESO Question P2102-2020SEP30-2

Preamble: In N-1 Unsupplied Feeder Load Calculation Clarification Section, EPC states that ‘The ‘Capacity utilized for tie-away’ is the amount of load on the feeder under contingency that could be effectively tied away considering the limitations based on the geographic location of the feeder’s in-line normally closed switches”. Also, that ‘Although feeder 25-24.114 is tied to two feeders, 25-24.121 and 25-37.111, only one can be utilized during a contingency. EPC planning criteria allows for one manual operation for each feeder switching.’

- a) Can EPC confirm whether there is Distributed Automation (DA) installed such that load can be automatically tied-away to adjacent feeders (25-24.121 and 25-37.111) in the event of the loss of feeder 25-24.114?
- b) In case there is no DA installed, what would be the cost of installing DA?
- c) What would be the load at risk in 2021 if both feeders could provide backup capability to feeder 25-24.114?
- d) Can EPC explain why feeder 25-24.121 cannot provide backup capability for the full peak load supplied by feeder 25-24.114? Does this contravene System Condition A2 Appendix 1 of the ENMAX Distribution System Performance: ‘Three phase main distribution system feeders shall be planned, designed, and operated to enable full mutual backup capability during a feeder N-1 contingency over peak loading conditions’

DFO Response P2102-2020SEP30-2

- a) Confirmed. DA switches are installed on all three feeders.

DA switches are designed to automatically isolate a faulted feeder segment, as bounded by DA switches, and restore non-faulted segments. When a fault occurs, normally closed DA switches that bound the faulted section open, clearing the fault. This may result in the feeder being split into multiple segments. Normally open DA switches between feeders, i.e., feeder ties, then attempt to restore de-energized, non-faulted segments by tying these segments to an adjacent feeder. Before closing in, each DA switch verifies that the resulting connection will not result in an overload. If an overload is anticipated the DA switch will not operate.

If more than one normally open DA switch exists on a non-faulted segment, a race condition will occur. Under this condition, each DA switch on the segment will attempt to operate. The first DA switch to successfully close in will win the race and the remaining DA switches will cease operation.

DA switches will not intentionally sectionalize a non-faulted feeder or feeder segment in order to maximize load restoration. If an entire segment cannot be tied-away in full without risk of overload by a single DA switch, then the segment will remain de-energized and operator intervention will be required.

As a result, the installation of more DA switches will not reduce the load at risk for feeder 25-24.114.

- b) See response to part a) above.

- c) If both feeders 25-24.121 and 25-37.111 can be used to restore customer load on feeder 25-24.114, there would be 4 MVA of load at risk starting in 2021 in the best hypothetical case.

The best hypothetical case is that all the remaining capacity on feeder 25-24.121 could be used in addition to the usable capacity on feeder 25-37.111. As shown in **Table 2: Backup Calculations for 25-24.114 Contingency (load in MVA)** of the **Addendum to Statement of Need**² document, feeder 25-24.121 is forecast to have 8 MVA of remaining capacity available and 6 MVA of usable capacity on feeder 25-37.111 in 2021. Therefore, the total hypothetical tie-away capacity for feeder 25-24.114 would be 14 MVA (8 MVA + 6 MVA) in 2021. Given the forecast load on feeder 25.24.114 is 18 MVA, this would leave 4 MVA of load at risk in 2021 under this best hypothetical case.

This is a hypothetical case as the load on a feeder cannot be practically dissected in a way that would allow for the utilization of the full feeder capacity. In reality, more than 4 MVA of load would be at risk.

- d) Feeder 25-24.121 cannot provide backup capability for the full peak load supplied by feeder 25-24.114 because of load transfer and new customer load additions. This contravenes System Condition A2 in Appendix 1 of the **ENMAX Distribution System Performance Standard**, and therefore needs to be resolved.

It may appear that this feeder deficiency is created by the load transfer from ENMAX No. 26 Substation to ENMAX No. 24 Substation. However, as stated in the **EPC Statement of Need – 37 Sub 138/25 kV Transformer Addition**, dated August 2018 (“SON”), this load was temporarily transferred from ENMAX No. 24 Substation to ENMAX No. 26 Substation to accommodate load growth in the ENMAX No. 24 Substation and ENMAX No. 37 Substation area and is expected to be returned to ENMAX No. 24 Substation in 2021. As demonstrated in the **N-1 Unsupplied Feeder Load Calculation Clarification** subsection of the **Addendum to Statement of Need**² and EPC’s response to **AESO Question P2102-2020SEP30-4** below, this load transfer is needed in order to maintain standard reliability at ENMAX No. 26 Substation and ENMAX No. 54 Substation. The transformation capacity at ENMAX No. 26 Substation is required to support ENMAX No. 54 Substation, which is demonstrated in EPC’s response to **AESO Question P2102-2020SEP30-1** above.

With the load from ENMAX No. 26 Substation returned to ENMAX No. 24 Substation, the feeder backup deficiency on 25-24.114 is only one part of a larger area transformation capacity deficiency. A holistic and cost-effective solution is required to resolve all the deficiencies within the area. As proposed in the EPC SON³, installing a 138/25 kV transformer at ENMAX No. 37 Substation to supply two 25 kV feeders will provide full back up capability for feeder 25-24.114 and resolve the transformation deficiency on the east Calgary 25 kV system.

² “Addendum to Statement of Need No. 37 Substation 138/25 kV Transformer Addition”, ENMAX Power Corporation, originally dated June 16th, 2020 and signed on November 3, 2020.

³ “Statement of Need No. 37 Substation 138/25 kV Transformer Addition”, ENMAX Power Corporation, Aug 21, 2018

AESO Question P2102-2020SEP30-3

Preamble: In the Utilization of Existing Feeder Supplying Fortis Section, EPC states that 'The other feeder 25-24.122 is planned to supply new customer loads in the new future. Using 25-24.122 to off load the heavily loaded will not more tie way capability to adjacent substations.'

- a) Could EPC rephrase to provide clarity for the statement?
- b) The peak load forecast at feeder 25-24.122 is zero from 2019 to 2028 in P2102 SON Question Responses Round 2 Rev3, Appendix C: Load Table. Could EPC clarify why the new customer load mentioned is not shown?
- c) What is the new customer load and when will the new customer start to use the 25-24.122 capacity?
- d) Could 25-24.122 capacity be used temporarily till the "new customer load" connects?

DFO Response P2102-2020SEP30-3

- a) The statement was intended to say: The other feeder 25-24.122 is planned to supply new customer loads in the near future. Using 25-24.122 to off load the heavily loaded feeders will not create more tie away capability to adjacent substations.
- b) At the time EPC filed the **P2102 SON Question Responses Round 2 Rev3** document, the new customer load that was mentioned in the response was still in the intake process and had not been incorporated into system load forecast. EPC follows its own distribution planning process to incorporate new customer loads into its forecast at the appropriate time.
- c) The new customer is an industrial customer. The customer has requested for a service demand of 13.7 MVA. EPC performed its own assessment and forecasts the load to be approximately 9.5 MVA.

The electrical service to the new customer is planned to be energized by December 2020. This customer will be initially supplied by feeder 25-24.111 and later transferred to feeder 25-24.122 in the time range of 2025. EPC plans its distribution system to serve its customers in an efficient and cost-effective manner. In this case, the new load will be connected to the feeder that is closest to the customer (25-24.111) and transferred to a different feeder (25-24.122) when there is a need in order to meet the EPC Distribution System Performance Standard.

- d) Using feeder 25-24.122 to temporarily off load other feeders from ENMAX No. 24 Substation does not create more tie-away capability, which is what is needed to resolve the transformer N-1 deficiency at ENMAX No. 24 Substation. In addition, feeder 25-24.122 cannot be used temporarily without a cost. A new circuit must be constructed to tie it to an existing feeder in order to transfer load to it. EPC plans its distribution system according to the EPC Distribution System Performance Standard and justifies its capital spending as the need arises. As stated in the answer to part c) above, this load transfer is not needed until 2025 based on the most current information. The load transfer timeline will be reviewed on an annual basis, and it may be advanced or delayed as system conditions change.

AESO Question P2102-2020SEP30-4

Preamble: In the Requirement for Load Transfers from No. 26 Substation to No. 24 Substation Section, EPC states that 'To alleviate the identified overload, EPC must offload 25-26.112 by transferring back the 10 MVA of load from No. 26 Substation to No. 24 Substation.'

- a) Can other normally points between different feeders at No. 26 substation be created? What would be the cost?
- b) Could other feeders within No. 26 substation be used to offload or provide backup capability to any of the three feeders 25-26.112, 25-26.113 or 25-26.123?
- c) Could a new feeder connected to the available breaker at No. 26 substation be built to offload or provide backup capability to any of the three feeders 25-26.112, 25-26.113 or 25-26.123?
- d) What would be the cost?

DFO Response P2102-2020SEP30-4

- a) Creating other normally open points between feeders at ENMAX No. 26 Substation will not alleviate the identified overload. Load will need to be transferred to other feeder(s) in order to free up capacity on the three feeders (25-26.112, 25-26.113 and 25-26.123) to provide the required backup capability. This is not possible without introducing new deficiencies on the system.

As shown in **P2102 SON Question Responses Round 2 Rev3⁴, Appendix C**, there are in total six existing feeders at ENMAX No. 26 Substation. Two feeders, 25-26.122 and 25-26.124, are dedicated to a customer that cannot be used to backup other feeders. Feeder 25-26.111 is the only ENMAX No. 26 Substation feeder onto which load from feeders 25-26.112, 25-26.113 and 25-26.123 could be potentially transferred. However, feeder 25-26.111 is already loaded at 10 MVA and provides backup to feeders at both ENMAX No. 24 Substation (25-24.123) and ENMAX No. 54 Substation (25-54.111). Both feeders 25-24.123 and 25-54.111 are heavily loaded as shown in **P2102 SON Question Responses Round 2 Rev3, Appendix C**. Adding more load onto it will compromise its ability to back up these feeders.

In addition, without the 10 MVA load transfer from ENMAX No. 26 Substation to ENMAX No. 24 Substation the load on the transformer supplying feeder 25-26.111 (26.1TR) is forecasted to be 44 MVA in 2021. Transferring more load onto the transformer will load the transformer to its full capacity or overload it, therefore leaving no backup capability during contingencies. This option is technically not viable; therefore, cost was not estimated.

- b) See response to part a) above.
- c) Building a new feeder at ENMAX No. 26 Substation using the available breaker (25.26-114) will be able to mitigate the overload of the three feeders when only considering feeder capacity, but it will create numerous new deficiencies on the system. Without transferring the 10 MVA load from ENMAX No. 26 Substation to ENMAX No. 24 Substation, the total peak load on the two transformers at ENMAX No. 26 Substation is expected to be 75 MVA in 2021. The new feeder 25-26.114 will be able to help balance out the load on the two transformers to be 37 MVA and

⁴ "ENMAX Power Corporation Project P2102 – AESO SON Round 2 Question Responses Revision 3.0", ENMAX Power Corporation, March 23, 2020

38 MVA, respectively. With this level of load on the transformers, the remaining capacity on either transformer will not be able to support a single half loaded feeder. The following feeder ties will be rendered unusable during feeder contingency due to transformer overload, therefore, severely compromise operational flexibility:

- 25-26.113 to 25-26.112 in 2021
- 25-26.123 to 25-26.114 in 2021
- 25-24.123 to 25-26.111 in 2021
- 25-24.123 to 25-26.123 in 2021
- 25-54.111 to 25-26.111 in 2022
- 25-54.121 to 25-26.111 in 2022

This option may be able to resolve the backup deficiency among the three feeders but will create more deficiencies on the system. Therefore, it is technically unviable.

- d) As this option is technically unviable, an estimate was not completed.

AESO Question P2102-2020SEP30-5

Preamble: In the Alternatives: Distribution Load Transfers to Address Deficiencies Section, EPC discusses the option of 'building a new feeder from No. 26 Substation to create a new tie to No. 24 Substation.'

- a) Can EPC provide insights into the option of building a new feeder from No. 26 substation to create a new tie to No. 54 substation?

DFO Response P2102-2020SEP30-5

- a) Building a new feeder from ENMAX No. 26 Substation to create a new tie to ENMAX No. 54 Substation will not provide more tie-away capability for ENMAX No. 24 Substation, which is what is required to resolve the deficiencies at ENMAX No. 24 Substation. EPC does not plan the system to rely on cascading load transfers during contingencies.

In fact, a project is currently in execution to build a new feeder from ENMAX No. 26 Substation to facilitate the load transfer from ENMAX No. 54 Substation to ENMAX No. 26 Substation. The purpose of this feeder is to resolve the distribution deficiencies as described in the response to the **AESO Question P2102-2020SEP30-1** above.

AESO Question P2102-2020SEP30-6

Preamble: EPC states that "Due to the continuing economic uncertainty caused by both the COVID-19 pandemic as well as the collapse of oil price in the first half of 2020, EPC is unable to provide an updated load forecast for the study area at this time. EPC still supports the 2019 Load Forecast indicating 27MVA of load growth over the 2018 to 2028 period in the study area and the deficiencies identified".

- a) Please confirm EPC will be able to provide this information before filing the project.

DFO Response P2102-2020SEP30-6

- a) EPC is currently working on the 2021 - 2030 load forecast, which is expected to be completed in February 2021. Following the completion of the forecast, the identified deficiencies will be re-evaluated in a month time, and the information will be provided to the AESO afterward.

AESO Question P2102-2020SEP30-7

Preamble: In P2102 SON Question Responses Round 2 Rev3, Appendix D: Load at Risk Charts, EPC provided information about Summer season daily 24.1TR / 24.2TR load at risk.

- a) Could EPC provide the duration of the load at risk at feeders 25-24.114, and 25-37.111, and transformers 24.1TR, and 24.2TR, for the years 2021 to 2025?

DFO Response P2102-2020SEP30-7

- a) The duration of load at risk for feeders 25-24.114, 37.111, transformers 24.1TR and 24.2TR for the years 2021 to 2025 is shown in Table 4 below.

Table 4: Duration of Load at Risk (Hours)

Device	2021	2022	2023	2024	2025
24.1TR	80	203	401	575	792
24.2TR	80	203	401	575	792
25-24.114	1958	3012	3479	4082	4598
25-37.111	0	0	2	22	116

The duration of load at risk is the same for transformers 24.1TR and 24.2TR. This is because the same tie-away feeders are used for the load restoration during a contingency on either of the two transformers at ENMAX No. 24 Substation.

The duration of load at risk is calculated using historical load profiles based on 15-minute interval data and the forecast peak load for the feeders and transformers. It is important to note that the actual duration of load at risk will be much higher. During a feeder or transformer contingency, depending on the load profile, there may be load at risk during multiple 15-minute periods of a day, i.e., there are discrete periods during the day that load can be restored. However, in reality it is impossible to operate the switches/breakers in 15-minute intervals to restore load. In that case, it is more than likely that the load will be out of service for the duration of the contingency.



June 09, 2022,

ENMAX Project: 37 Substation Capacity Upgrade

Alberta Electric System Operator (AESO)
 330 5 Avenue SW
 Calgary, Alberta, T2P 0L4

Dear: Karen Yan & Mahmoud Ahmed

Re: **No. 37 Substation Capacity Upgrades Addendum – EPC Response to AESO Information Question dated June 7, 2022, Round 5, Ver. V1D1**

AESO Question

1. Power factors (at sub 37S and 24S) are significantly different between the Addendum and the original SON (0.89 Vs. 0.96), please clarify the reason?

EPC Response

EPC uses kW and kVA as measured at the MV bus to calculate the power factor of each Substation. New customers have connected within the study area, and old customers have disconnected from the system. The change in power factor indicates that the customer loads have become more inductive between the original SON submission in 2018 and the Addendum submission in 2022. EPC does not have data nor assesses customer power factors.

AESO Question

2. The sum of expected load additions (2022-2031) supplied from 25-37.111 in Frontier Industrial, Janet, and Emtor; the commercial development of East Hills; the residential community of Belvedere is $0+0+1+2=3$ MVA. The total forecast increase for 25.37.111 is $13.9-6.7= 7.2$ MVA, please provide reasons for the load forecast increase of 7.2 MVA.

EPC Response

Table 1 below summarizes all major customer load additions forecast for connection on feeder 25-37.111. The total non-diversified loading is 9MVA.

Table 1 – 25-37.111 Major Load Additions 2022-2031 (Forecast)

Description of 25-37.111 Load Addition	Updated Anticipated Load MVA (2022 - 2031)
Belvedere Residential	2
East Hills Commercial	0
Frontier Industrial	0
EMCOR Industrial	1
Janet Industrial	0
East Hills Village (Residential)	1
Film Studio Lot	5
Total Area Load Growth (Non-Diversified)	9

AESO Question

3. Please clarify the load flow analysis approach used to calculate the maximum backup capability. AESO requests additional details on the calculation approach of the following;
- Back up from 25-24.114 – Table 7
 - Back up from 24.2TR – Table 7
 - Total Unsupplied Load – Table 7
 - Back up from 26 S – Table 8
 - Back up from 37 S – Table 8
 - Remaining Load at 24 S – Table 8

EPC Response

Contingency assessments were completed, including distribution load flow analysis using CYME modelling software.

Table 7

Distribution feeder 25-24.114 is used to restore 25-37.111 following an N-1 feeder contingency. As shown in Table 7, 25-24.114 can fully restore all load on 25-37.111 between 2022 and 2024.

Starting in 2025, 25-24.114 experiences a thermal overload and can no longer fully restore 25-37.111. Under this condition, an assessment of normally closed switching points along 25-37.111 is assessed to determine the optimal location. A switch can be opened to complete a partial restoration that balances restoring as much load as possible on 25-37.111 without a thermal overload on 25-24.114.

Distribution feeder 25-24.114 is supplied from transformer 24.2TR. This means that under the N-1 feeder contingency for 25-37.111, the backup capacity from the perspective of the transformer comes from 24.2TR. As shown in Table 7, 24.2TR becomes the limiting factor starting in 2027, at which point there is a thermal overload experienced on 24.2TR, and the restoration can no longer be completed. The result is that the full load of distribution feeder 25-37.111 will be unsupplied.

Table 8

Table 8 provides the results of an N-1 transformer contingency assessment at No. 24 Substation for either 24.1TR or 24.2TR, both 50 MVA transformers. The assessment methodology relies on tie away to adjacent substations No. 26 and No. 37, the two directly adjacent substations with distribution interconnections, and the internal No. 24 Substation medium voltage bus tie transfer capability.

The restoration capability of No. 26 Substation and No. 37 substation is assessed based on the thermal capability of the adjacent distribution feeder ties and the substation transformers used in the restoration. Suppose a full or partial restoration through a distribution feeder tie can be completed without resulting in a thermal overload of a distribution feeder or substation transformer. In that case, it is recorded as a successful backup in Table 8 as either "Back up from 26S" or "Back up from 37S".

Once the distribution tie-away capability has been assessed and accounted for, the No. 24 Substation medium voltage bus tie transfer capability is assessed. Under an N-1 transformer contingency at No. 24 Substation, one 50 MVA transformer remains in service, which sets the thermal limit of the substation. Once as much load as can be tied away from the substation is achieved, any remaining load is transferred through the medium voltage bus tie. If the loading level remains below 50 MVA, then there is a complete restoration. This is the case in 2022, as shown in Table 8. Starting in 2023, backup from No. 37 Substation is no longer available due to a thermal overload experienced on 37.4TR, and the medium-voltage bus tie at No. 24 Substation will exceed 50MVA. A full or partial feeder supplied No. 24 Substation is chosen for load shedding in this condition. The feeder is selected to achieve the least amount of unsupplied load while reducing the medium voltage to a level below 50MVA.

AESO Question

4. Please provide the hourly active and reactive power data measurement for feeder 25-37.111 for 2021.

EPC Response

Please see attached document **2021 Loading for 25-37.111.xlsx** with hourly active (MW) and reactive (MVAR) measurements for feeder 25-37.111.

Please note the following:

- i) the power factor, as shown in the Addendum dated February 11, 2022, represents the power factor for the substation as taken from the 13kV medium voltage bus.
- ii) EPC does not forecast MW or MVAR, nor does it use the power factor in its forecasting practice. EPC forecasts current (amps) and uses the regulated voltage to calculate the apparent power (MVA).

AESO Question

5. Please clarify why the power factor for the forecasted additional load at Sub 37 was assumed as 0.89.

EPC Response

Please refer to the response provided for question 4 above.

AESO Question

6. Please provide the exact in-service date for the "Film Studio Lot" load addition. Also, please clarify the possibility of transferring this load to nearby substations.

EPC Response

The current anticipated in-service date for the film studio is March 1, 2023.

The film studio will be connected to 25-37.111 at a location just north of the feeder tie with 25-24.114. EPC confirms that transferring this customer load to 25-24.114 does not resolve the identified Load at Risk. Regardless of which feeder supplies this customer load under normal operation, during a contingency, the overloads will remain the same.

AESO Question

7. Please provide the updated "Forecast Areal Load Growth" map (i.e. the updated version of Figure 4 in the original SON).

EPC Response

Please see **Figure 1 - Forecasted Area Growth 2022-2031** for an updated "Forecast Area Load Growth 2022-2031" map.

AESO Question

8. Please provide simplified SLDs and/or tables showing the calculation of the backup values (i.e. Backup from 25-24.112, 24.2, Backup from 26S and 37S) presented in Table 7 and Table 8 in the SON addendum.

EPC Response

Please see **Figure 2: Contingency Assessment for the loss of 25-37.111 over the 2025 Forecast Summer Peak Transformer**. Figure 2 describes the N- feeder contingency assessment for 25-37.111 for 2025, the first year of demonstrated Load at Risk (Table 7).

Please see **Figure 3: Contingency Assessment for the loss of 24.1TR or 24.2TR over the 2023 Forecast Summer Peak Transformer**. Figure 3 describes the N-1 transformer contingency assessment for 24.1TR or 24.2TR for 2023, the first year of demonstrated Load at Risk (Table 8).

AESO Question

- Two projects (i.e. P2459 and P2475) proposed to connect to the Sub 24 with maximum capacities of 27 MW and 37 MW, respectively. Please clarify the impact of these two projects on Sub 24 total loading and the total unsupplied load at feeder 25-37.111.

EPC Response

Below is an updated Table 4 from the Addendum to Statement of Need submitted in February 2022

POD	DCG Name or ID	Type	Size (KW)	Comment
24 S	0020008003457	Solar	3700	Customer offset their demand and then exports to the grid—no Agreement to dispatch generation.
24 S	Deerfoot Park Solar Farm	Solar	37000	Therefore, this facility is not a dispatchable source of supply and was not considered in the forecast or contingency assessment.
24 S	Barlow Park Solar Farm	Solar	27000	Therefore, this facility is not a dispatchable source of supply and was not considered in the forecast or contingency assessment.

AESO Question

- Please provide the forecast duration of load at risk for the loss of 25.37.111.

EPC Response

The following table identifies the forecast load at risk duration for the loss of distribution feeder 25-37.111.

		Forecast Duration of Load at Risk full Year (hours)									
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Loss of Feeder 25-37.111											
Load at risk duration		0	0	0	2	10	18	42	67	114	136

AESO Question

- The load addition of 5 MW “Film Studio” with ISD of March 2023 is not reflected in the forecast of the feeder 25.37.111; please clarify.

EPC Response

The 5 MVA Film Studio load is reflected in the load forecast provided in the Addendum. This customer load is a staged addition over a 5 year period from 2023 – 2027.

AESO Question

- The average power factor calculated from the provided hourly MW & MVAR measurements at the feeder level is 0.957. This value is not matching the power factor used in the addendum. Please clarify the forecasting practice/approach that EPC used to develop the forecasts shown in Tables 1,2 and 3 of the addendum.

EPC Response

Tables 1 and 10, as provided in the Addendum dated February 11, 2022, identify the power factor for No. 37 Substation as measured at the 13kV bus. The AESO asked, in question 4, for the hourly power factor on feeder 25-37.111 for 2021, which is a different measurement as compared to the power factor for the substation and should not be expected to match. No. 37 Substation supplies ten distribution feeders, of which nine distribution feeders are supplied at 13kV, and one is supplied at 25kV through a 13.3 MVA transformer supplied from a 13kV bus (25-37.111).

EPC uses a “bottom-up” approach to develop its load forecast. The first step is to develop a distribution feeder forecast. This is completed by taking the recorded peak in amps, adding in forecasted customer growth (or reduction), planned load transfers, and applying a load growth factor based on a historical trend.

The second step is to complete a substation transformer forecast. Substation transformers are forecast for each year based on the summation of the distribution feeders that they supply as measured in current (Amps). This value is converted to apparent power (kVA) based on the regulated voltage of the system. Once converted, a transformer diversity factor is applied. The transformer diversity factor is determined based on the historical performance. It is calculated by dividing the summation of the recorded feeder loading into the transformer loading at the peak period.

Finally, substation load forecasts are developed by summing the peak forecast for each of the transformers at the substation and multiplying that value by a substation diversity factor. The substation diversity factor is determined based on a similar methodology as the transformer diversity factor.

Substation power factor is provided at the request of the AESO and is not used in the EPC load forecast methodology.

AESO Question

13. [Table 15 shows zero hours for the duration of the load at risk for the years 2023 and 2024. Please check this as the implementation of the preferred solution is assumed to cause changes starting in 2025.](#)

EPC Response

The target in-service date for this project is Q4 2024. The original Table 15 provided in the Addendum dated February 11, 2022, did not accurately reflect the forecast duration of load at risk in 2023 and 2024. Please see an updated table below that has been corrected.

Updated Table 15 – Forecast Duration of Load at Risk full year (Hours)

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Loss of Transformer 24.1TR or 24.2TR										
Load at Risk Duration	0	34	241	0	0	13	16	17	18	18

Clarification Questions & Responses

Responses to clarification questions arising from a meeting on May 25, 2022, between the AESO & ENMAX.

AESO Question

1. What is the approach that EPC takes to perform planned outages outside of the risk hours

EPC Response

EPC's approach is to schedule all planned outages during off-peak season/hours. All planned outages can be scheduled outside of the load at risk hours.

AESO Question

2. What is the probability of forced outage occurrence during these risk hours

EPC Response

EPC cannot predict the probability of forced outages. EPC performs deterministic planning and does not perform probabilistic planning

AESO Question

3. Are there identified critical loads in the project area? If so, what is defined as critical loads

EPC Response

EPC operation identifies hospitals, water treatment plants, etc., as critical loads. Most loads are commercial and residential in the project area and do not fall under critical loads.

Responses to a clarification question from an email dated June 8th, 2022, between the AESO & ENMAX.

AESO Question

1. Please provide additional details about the maximum allowable loading percentages of the feeders during normal operation (i.e., N-0). In other words, what is the maximum feeder loading during normal operation; is it 100% of the feeder capacity?

EPC Response

EPC plans the feeder to be loaded approximately 50% during N-0 operation; it allows the feeder to both have a backup and be a backup as required. It is understood that 50% is ideal; however, it is not always realistic within the confines of the distribution system. It is acceptable to be over 50% loading if another feeder can safely back it up.



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Project: P2102 – ENMAX No. 37 Substation Capacity Upgrade

Time	MW	MVAR
January 1, 2021 1:00	2.55	0.52
January 1, 2021 2:00	2.48	0.51
January 1, 2021 3:00	2.46	0.51
January 1, 2021 4:00	2.50	0.50
January 1, 2021 5:00	2.49	0.50
January 1, 2021 6:00	2.48	0.49
January 1, 2021 7:00	2.57	0.48
January 1, 2021 8:00	2.65	0.48
January 1, 2021 9:00	2.54	0.47
January 1, 2021 10:00	2.36	0.47
January 1, 2021 11:00	2.45	0.46
January 1, 2021 12:00	2.44	0.46
January 1, 2021 13:00	2.43	0.46
January 1, 2021 14:00	2.39	0.46
January 1, 2021 15:00	2.41	0.46
January 1, 2021 16:00	2.38	0.46
January 1, 2021 17:00	2.40	0.47
January 1, 2021 18:00	2.65	0.49
January 1, 2021 19:00	2.62	0.50
January 1, 2021 20:00	2.64	0.51
January 1, 2021 21:00	2.55	0.52
January 1, 2021 22:00	2.43	0.50
January 1, 2021 23:00	2.42	0.49
January 2, 2021 0:00	2.39	0.47
January 2, 2021 1:00	2.43	0.46
January 2, 2021 2:00	2.39	0.44
January 2, 2021 3:00	2.41	0.45
January 2, 2021 4:00	2.44	0.47
January 2, 2021 5:00	2.52	0.49
January 2, 2021 6:00	2.51	0.50
January 2, 2021 7:00	2.64	0.54
January 2, 2021 8:00	2.88	0.62
January 2, 2021 9:00	2.88	0.63
January 2, 2021 10:00	2.76	0.63
January 2, 2021 11:00	2.72	0.52
January 2, 2021 12:00	2.73	0.52
January 2, 2021 13:00	2.84	0.52
January 2, 2021 14:00	2.77	0.54
January 2, 2021 15:00	2.77	0.57
January 2, 2021 16:00	2.78	0.58
January 2, 2021 17:00	2.81	0.57
January 2, 2021 18:00	3.04	0.56
January 2, 2021 19:00	2.94	0.56
January 2, 2021 20:00	2.79	0.56
January 2, 2021 21:00	2.72	0.57
January 2, 2021 22:00	2.57	0.57
January 2, 2021 23:00	2.50	0.55
January 3, 2021 0:00	2.42	0.50
January 3, 2021 1:00	2.40	0.46
January 3, 2021 2:00	2.38	0.47
January 3, 2021 3:00	2.38	0.48
January 3, 2021 4:00	2.41	0.50
January 3, 2021 5:00	2.45	0.52
January 3, 2021 6:00	2.49	0.53
January 3, 2021 7:00	2.53	0.55
January 3, 2021 8:00	2.64	0.55
January 3, 2021 9:00	2.66	0.55
January 3, 2021 10:00	2.59	0.54
January 3, 2021 11:00	2.69	0.54
January 3, 2021 12:00	2.68	0.54
January 3, 2021 13:00	2.66	0.54
January 3, 2021 14:00	2.72	0.53



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January 3, 2021 15:00	2.64	0.53
January 3, 2021 16:00	2.67	0.53
January 3, 2021 17:00	2.75	0.53
January 3, 2021 18:00	3.01	0.53
January 3, 2021 19:00	2.85	0.53
January 3, 2021 20:00	2.73	0.53
January 3, 2021 21:00	2.64	0.53
January 3, 2021 22:00	2.61	0.53
January 3, 2021 23:00	2.56	0.51
January 4, 2021 0:00	2.52	0.46
January 4, 2021 1:00	2.49	0.45
January 4, 2021 2:00	2.46	0.46
January 4, 2021 3:00	2.45	0.48
January 4, 2021 4:00	2.47	0.49
January 4, 2021 5:00	2.54	0.52
January 4, 2021 6:00	2.82	0.56
January 4, 2021 7:00	3.23	0.63
January 4, 2021 8:00	4.12	0.94
January 4, 2021 9:00	4.26	1.09
January 4, 2021 10:00	4.13	1.05
January 4, 2021 11:00	4.35	1.15
January 4, 2021 12:00	4.47	1.26
January 4, 2021 13:00	4.54	1.26
January 4, 2021 14:00	4.56	1.25
January 4, 2021 15:00	4.36	1.20
January 4, 2021 16:00	4.08	1.05
January 4, 2021 17:00	3.91	0.98
January 4, 2021 18:00	3.82	0.91
January 4, 2021 19:00	3.57	0.89
January 4, 2021 20:00	3.45	0.86
January 4, 2021 21:00	3.24	0.84
January 4, 2021 22:00	3.02	0.81
January 4, 2021 23:00	2.95	0.79
January 5, 2021 0:00	2.81	0.70
January 5, 2021 1:00	2.45	0.57
January 5, 2021 2:00	2.51	0.58
January 5, 2021 3:00	2.51	0.60
January 5, 2021 4:00	2.43	0.61
January 5, 2021 5:00	2.52	0.61
January 5, 2021 6:00	2.93	0.71
January 5, 2021 7:00	3.32	0.79
January 5, 2021 8:00	4.06	1.04
January 5, 2021 9:00	4.38	1.17
January 5, 2021 10:00	4.31	1.16
January 5, 2021 11:00	4.41	1.22
January 5, 2021 12:00	4.37	1.17
January 5, 2021 13:00	4.14	1.03
January 5, 2021 14:00	4.30	1.10
January 5, 2021 15:00	4.20	1.09
January 5, 2021 16:00	3.97	0.99
January 5, 2021 17:00	3.53	0.74
January 5, 2021 18:00	3.62	0.74
January 5, 2021 19:00	3.49	0.75
January 5, 2021 20:00	3.41	0.71
January 5, 2021 21:00	3.15	0.68
January 5, 2021 22:00	2.89	0.66
January 5, 2021 23:00	2.83	0.64
January 6, 2021 0:00	2.75	0.62
January 6, 2021 1:00	2.57	0.61
January 6, 2021 2:00	2.54	0.62
January 6, 2021 3:00	2.48	0.62
January 6, 2021 4:00	2.44	0.62
January 6, 2021 5:00	2.56	0.63
January 6, 2021 6:00	3.00	0.78
January 6, 2021 7:00	3.42	0.81



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January 6, 2021 8:00	3.93	0.98
January 6, 2021 9:00	4.21	1.12
January 6, 2021 10:00	4.24	1.21
January 6, 2021 11:00	4.34	1.18
January 6, 2021 12:00	4.52	1.33
January 6, 2021 13:00	4.48	1.26
January 6, 2021 14:00	4.45	1.28
January 6, 2021 15:00	4.22	1.20
January 6, 2021 16:00	3.88	0.98
January 6, 2021 17:00	3.55	0.83
January 6, 2021 18:00	3.75	0.84
January 6, 2021 19:00	3.59	0.83
January 6, 2021 20:00	3.37	0.76
January 6, 2021 21:00	3.27	0.78
January 6, 2021 22:00	3.05	0.75
January 6, 2021 23:00	2.91	0.71
January 7, 2021 0:00	2.81	0.67
January 7, 2021 1:00	2.61	0.64
January 7, 2021 2:00	2.56	0.64
January 7, 2021 3:00	2.56	0.64
January 7, 2021 4:00	2.47	0.63
January 7, 2021 5:00	2.60	0.63
January 7, 2021 6:00	2.95	0.79
January 7, 2021 7:00	3.47	0.86
January 7, 2021 8:00	3.97	1.00
January 7, 2021 9:00	4.51	1.28
January 7, 2021 10:00	4.35	1.16
January 7, 2021 11:00	4.54	1.31
January 7, 2021 12:00	4.48	1.29
January 7, 2021 13:00	4.15	1.01
January 7, 2021 14:00	4.15	1.05
January 7, 2021 15:00	4.13	1.14
January 7, 2021 16:00	3.80	0.96
January 7, 2021 17:00	3.51	0.89
January 7, 2021 18:00	3.60	0.80
January 7, 2021 19:00	3.47	0.80
January 7, 2021 20:00	3.34	0.76
January 7, 2021 21:00	3.19	0.72
January 7, 2021 22:00	3.08	0.71
January 7, 2021 23:00	3.00	0.74
January 8, 2021 0:00	2.90	0.68
January 8, 2021 1:00	2.64	0.61
January 8, 2021 2:00	2.61	0.57
January 8, 2021 3:00	2.57	0.58
January 8, 2021 4:00	2.55	0.59
January 8, 2021 5:00	2.68	0.60
January 8, 2021 6:00	2.95	0.70
January 8, 2021 7:00	3.61	0.86
January 8, 2021 8:00	3.99	1.00
January 8, 2021 9:00	4.40	1.22
January 8, 2021 10:00	4.38	1.22
January 8, 2021 11:00	4.47	1.28
January 8, 2021 12:00	4.44	1.18
January 8, 2021 13:00	4.26	1.13
January 8, 2021 14:00	4.26	1.09
January 8, 2021 15:00	4.03	0.99
January 8, 2021 16:00	3.74	0.92
January 8, 2021 17:00	3.53	0.87
January 8, 2021 18:00	3.66	0.83
January 8, 2021 19:00	3.60	0.81
January 8, 2021 20:00	3.52	0.81
January 8, 2021 21:00	3.32	0.78
January 8, 2021 22:00	2.97	0.67
January 8, 2021 23:00	2.86	0.66
January 9, 2021 0:00	2.77	0.66



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January 9, 2021 1:00	2.62	0.65
January 9, 2021 2:00	2.57	0.64
January 9, 2021 3:00	2.58	0.63
January 9, 2021 4:00	2.60	0.62
January 9, 2021 5:00	2.70	0.62
January 9, 2021 6:00	2.83	0.65
January 9, 2021 7:00	3.06	0.73
January 9, 2021 8:00	3.22	0.76
January 9, 2021 9:00	3.13	0.68
January 9, 2021 10:00	3.00	0.65
January 9, 2021 11:00	3.11	0.63
January 9, 2021 12:00	3.07	0.63
January 9, 2021 13:00	3.00	0.63
January 9, 2021 14:00	3.03	0.62
January 9, 2021 15:00	2.97	0.62
January 9, 2021 16:00	2.82	0.62
January 9, 2021 17:00	2.89	0.61
January 9, 2021 18:00	3.23	0.60
January 9, 2021 19:00	3.15	0.59
January 9, 2021 20:00	3.02	0.58
January 9, 2021 21:00	2.88	0.57
January 9, 2021 22:00	2.85	0.55
January 9, 2021 23:00	2.76	0.54
January 10, 2021 0:00	2.67	0.53
January 10, 2021 1:00	2.66	0.54
January 10, 2021 2:00	2.67	0.55
January 10, 2021 3:00	2.63	0.55
January 10, 2021 4:00	2.63	0.56
January 10, 2021 5:00	2.69	0.57
January 10, 2021 6:00	2.72	0.58
January 10, 2021 7:00	2.77	0.59
January 10, 2021 8:00	2.84	0.60
January 10, 2021 9:00	2.79	0.59
January 10, 2021 10:00	2.72	0.58
January 10, 2021 11:00	2.85	0.59
January 10, 2021 12:00	2.85	0.61
January 10, 2021 13:00	2.88	0.63
January 10, 2021 14:00	2.81	0.64
January 10, 2021 15:00	2.77	0.66
January 10, 2021 16:00	2.77	0.67
January 10, 2021 17:00	2.81	0.68
January 10, 2021 18:00	3.07	0.69
January 10, 2021 19:00	2.96	0.66
January 10, 2021 20:00	2.76	0.64
January 10, 2021 21:00	2.66	0.61
January 10, 2021 22:00	2.60	0.58
January 10, 2021 23:00	2.57	0.56
January 11, 2021 0:00	2.50	0.55
January 11, 2021 1:00	2.47	0.55
January 11, 2021 2:00	2.48	0.54
January 11, 2021 3:00	2.48	0.54
January 11, 2021 4:00	2.51	0.54
January 11, 2021 5:00	2.59	0.60
January 11, 2021 6:00	2.83	0.67
January 11, 2021 7:00	3.30	0.74
January 11, 2021 8:00	3.99	1.04
January 11, 2021 9:00	4.31	1.18
January 11, 2021 10:00	4.19	1.14
January 11, 2021 11:00	4.26	1.11
January 11, 2021 12:00	4.28	1.18
January 11, 2021 13:00	4.21	1.15
January 11, 2021 14:00	4.38	1.32
January 11, 2021 15:00	4.38	1.30
January 11, 2021 16:00	3.96	1.07
January 11, 2021 17:00	3.50	0.87



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January 11, 2021 18:00	3.61	0.81
January 11, 2021 19:00	3.37	0.77
January 11, 2021 20:00	3.26	0.73
January 11, 2021 21:00	3.06	0.70
January 11, 2021 22:00	2.86	0.68
January 11, 2021 23:00	2.78	0.65
January 12, 2021 0:00	2.73	0.62
January 12, 2021 1:00	2.50	0.60
January 12, 2021 2:00	2.52	0.59
January 12, 2021 3:00	2.47	0.57
January 12, 2021 4:00	2.38	0.56
January 12, 2021 5:00	2.47	0.54
January 12, 2021 6:00	2.84	0.59
January 12, 2021 7:00	3.40	0.78
January 12, 2021 8:00	3.91	0.98
January 12, 2021 9:00	4.22	1.09
January 12, 2021 10:00	4.20	1.16
January 12, 2021 11:00	4.21	1.14
January 12, 2021 12:00	4.21	1.14
January 12, 2021 13:00	4.18	1.10
January 12, 2021 14:00	4.22	1.21
January 12, 2021 15:00	4.09	1.13
January 12, 2021 16:00	3.83	0.93
January 12, 2021 17:00	3.60	0.85
January 12, 2021 18:00	3.63	0.84
January 12, 2021 19:00	3.45	0.81
January 12, 2021 20:00	3.33	0.77
January 12, 2021 21:00	3.13	0.72
January 12, 2021 22:00	2.86	0.67
January 12, 2021 23:00	2.75	0.63
January 13, 2021 0:00	2.68	0.62
January 13, 2021 1:00	2.51	0.62
January 13, 2021 2:00	2.47	0.61
January 13, 2021 3:00	2.45	0.61
January 13, 2021 4:00	2.34	0.62
January 13, 2021 5:00	2.45	0.63
January 13, 2021 6:00	2.83	0.66
January 13, 2021 7:00	3.26	0.73
January 13, 2021 8:00	3.91	1.00
January 13, 2021 9:00	4.06	1.08
January 13, 2021 10:00	3.99	1.02
January 13, 2021 11:00	4.38	1.16
January 13, 2021 12:00	4.32	1.15
January 13, 2021 13:00	4.30	1.11
January 13, 2021 14:00	4.38	1.19
January 13, 2021 15:00	4.17	1.06
January 13, 2021 16:00	4.10	1.06
January 13, 2021 17:00	3.63	0.92
January 13, 2021 18:00	3.61	0.79
January 13, 2021 19:00	3.56	0.77
January 13, 2021 20:00	3.35	0.74
January 13, 2021 21:00	3.20	0.71
January 13, 2021 22:00	2.95	0.68
January 13, 2021 23:00	2.87	0.66
January 14, 2021 0:00	2.74	0.64
January 14, 2021 1:00	2.58	0.62
January 14, 2021 2:00	2.55	0.61
January 14, 2021 3:00	2.54	0.61
January 14, 2021 4:00	2.46	0.62
January 14, 2021 5:00	2.57	0.63
January 14, 2021 6:00	2.90	0.66
January 14, 2021 7:00	3.49	0.77
January 14, 2021 8:00	4.21	1.16
January 14, 2021 9:00	4.32	1.21
January 14, 2021 10:00	4.26	1.16



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January 14, 2021 11:00	4.47	1.19
January 14, 2021 12:00	4.53	1.24
January 14, 2021 13:00	4.34	1.15
January 14, 2021 14:00	4.36	1.20
January 14, 2021 15:00	4.25	1.15
January 14, 2021 16:00	4.06	1.00
January 14, 2021 17:00	3.63	0.85
January 14, 2021 18:00	3.84	0.89
January 14, 2021 19:00	3.71	0.85
January 14, 2021 20:00	3.66	0.83
January 14, 2021 21:00	3.42	0.79
January 14, 2021 22:00	3.09	0.72
January 14, 2021 23:00	2.90	0.66
January 15, 2021 0:00	2.82	0.64
January 15, 2021 1:00	2.69	0.63
January 15, 2021 2:00	2.66	0.63
January 15, 2021 3:00	2.69	0.62
January 15, 2021 4:00	2.57	0.61
January 15, 2021 5:00	2.66	0.60
January 15, 2021 6:00	2.80	0.61
January 15, 2021 7:00	3.30	0.67
January 15, 2021 8:00	3.95	0.96
January 15, 2021 9:00	4.20	1.15
January 15, 2021 10:00	4.10	1.10
January 15, 2021 11:00	4.30	1.15
January 15, 2021 12:00	4.28	1.14
January 15, 2021 13:00	4.25	1.08
January 15, 2021 14:00	4.32	1.22
January 15, 2021 15:00	4.13	1.15
January 15, 2021 16:00	3.76	0.96
January 15, 2021 17:00	3.37	0.84
January 15, 2021 18:00	3.40	0.79
January 15, 2021 19:00	3.33	0.73
January 15, 2021 20:00	3.21	0.70
January 15, 2021 21:00	3.05	0.66
January 15, 2021 22:00	2.81	0.63
January 15, 2021 23:00	2.72	0.59
January 16, 2021 0:00	2.61	0.55
January 16, 2021 1:00	2.47	0.54
January 16, 2021 2:00	2.43	0.55
January 16, 2021 3:00	2.44	0.55
January 16, 2021 4:00	2.44	0.55
January 16, 2021 5:00	2.50	0.55
January 16, 2021 6:00	2.58	0.57
January 16, 2021 7:00	2.83	0.70
January 16, 2021 8:00	3.01	0.77
January 16, 2021 9:00	3.00	0.71
January 16, 2021 10:00	2.95	0.76
January 16, 2021 11:00	2.87	0.67
January 16, 2021 12:00	2.97	0.79
January 16, 2021 13:00	2.88	0.66
January 16, 2021 14:00	2.79	0.58
January 16, 2021 15:00	2.76	0.59
January 16, 2021 16:00	2.66	0.60
January 16, 2021 17:00	2.65	0.61
January 16, 2021 18:00	2.93	0.61
January 16, 2021 19:00	2.87	0.62
January 16, 2021 20:00	2.73	0.62
January 16, 2021 21:00	2.62	0.61
January 16, 2021 22:00	2.53	0.58
January 16, 2021 23:00	2.46	0.56
January 17, 2021 0:00	2.40	0.54
January 17, 2021 1:00	2.36	0.56
January 17, 2021 2:00	2.33	0.57
January 17, 2021 3:00	2.35	0.58



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January 17, 2021 4:00	2.39	0.59
January 17, 2021 5:00	2.40	0.59
January 17, 2021 6:00	2.49	0.62
January 17, 2021 7:00	2.65	0.67
January 17, 2021 8:00	2.73	0.64
January 17, 2021 9:00	2.61	0.62
January 17, 2021 10:00	2.56	0.59
January 17, 2021 11:00	2.67	0.59
January 17, 2021 12:00	2.71	0.60
January 17, 2021 13:00	2.73	0.62
January 17, 2021 14:00	2.68	0.63
January 17, 2021 15:00	2.66	0.65
January 17, 2021 16:00	2.66	0.66
January 17, 2021 17:00	2.65	0.67
January 17, 2021 18:00	2.89	0.68
January 17, 2021 19:00	2.77	0.66
January 17, 2021 20:00	2.61	0.64
January 17, 2021 21:00	2.53	0.62
January 17, 2021 22:00	2.51	0.60
January 17, 2021 23:00	2.46	0.58
January 18, 2021 0:00	2.38	0.56
January 18, 2021 1:00	2.37	0.55
January 18, 2021 2:00	2.31	0.55
January 18, 2021 3:00	2.30	0.56
January 18, 2021 4:00	2.28	0.57
January 18, 2021 5:00	2.39	0.58
January 18, 2021 6:00	2.71	0.60
January 18, 2021 7:00	3.19	0.64
January 18, 2021 8:00	3.90	0.88
January 18, 2021 9:00	4.35	1.15
January 18, 2021 10:00	4.34	1.17
January 18, 2021 11:00	4.58	1.29
January 18, 2021 12:00	4.40	1.24
January 18, 2021 13:00	4.32	1.13
January 18, 2021 14:00	4.33	1.19
January 18, 2021 15:00	4.31	1.22
January 18, 2021 16:00	3.96	1.00
January 18, 2021 17:00	3.52	0.88
January 18, 2021 18:00	3.60	0.81
January 18, 2021 19:00	3.45	0.77
January 18, 2021 20:00	3.36	0.76
January 18, 2021 21:00	3.16	0.72
January 18, 2021 22:00	2.90	0.66
January 18, 2021 23:00	2.83	0.61
January 19, 2021 0:00	2.75	0.61
January 19, 2021 1:00	2.56	0.58
January 19, 2021 2:00	2.59	0.56
January 19, 2021 3:00	2.55	0.56
January 19, 2021 4:00	2.43	0.58
January 19, 2021 5:00	2.52	0.59
January 19, 2021 6:00	2.95	0.76
January 19, 2021 7:00	3.48	0.85
January 19, 2021 8:00	4.07	1.00
January 19, 2021 9:00	4.33	1.17
January 19, 2021 10:00	4.30	1.22
January 19, 2021 11:00	4.37	1.17
January 19, 2021 12:00	4.49	1.21
January 19, 2021 13:00	4.42	1.11
January 19, 2021 14:00	4.39	1.19
January 19, 2021 15:00	4.36	1.20
January 19, 2021 16:00	3.91	1.03
January 19, 2021 17:00	3.51	0.89
January 19, 2021 18:00	3.44	0.84
January 19, 2021 19:00	3.21	0.77
January 19, 2021 20:00	3.14	0.74



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January 19, 2021 21:00	2.97	0.70
January 19, 2021 22:00	2.78	0.66
January 19, 2021 23:00	2.70	0.64
January 20, 2021 0:00	2.60	0.63
January 20, 2021 1:00	2.48	0.62
January 20, 2021 2:00	2.49	0.63
January 20, 2021 3:00	2.52	0.63
January 20, 2021 4:00	2.37	0.63
January 20, 2021 5:00	2.49	0.64
January 20, 2021 6:00	2.88	0.66
January 20, 2021 7:00	3.38	0.75
January 20, 2021 8:00	4.18	1.06
January 20, 2021 9:00	4.33	1.15
January 20, 2021 10:00	4.36	1.15
January 20, 2021 11:00	4.41	1.13
January 20, 2021 12:00	4.31	1.12
January 20, 2021 13:00	4.14	1.00
January 20, 2021 14:00	4.31	1.09
January 20, 2021 15:00	4.16	1.07
January 20, 2021 16:00	3.90	0.98
January 20, 2021 17:00	3.46	0.81
January 20, 2021 18:00	3.44	0.73
January 20, 2021 19:00	3.44	0.69
January 20, 2021 20:00	3.36	0.68
January 20, 2021 21:00	3.16	0.65
January 20, 2021 22:00	2.93	0.63
January 20, 2021 23:00	2.81	0.60
January 21, 2021 0:00	2.71	0.57
January 21, 2021 1:00	2.49	0.55
January 21, 2021 2:00	2.51	0.56
January 21, 2021 3:00	2.52	0.57
January 21, 2021 4:00	2.43	0.58
January 21, 2021 5:00	2.50	0.58
January 21, 2021 6:00	2.80	0.63
January 21, 2021 7:00	3.47	0.77
January 21, 2021 8:00	4.06	0.98
January 21, 2021 9:00	4.24	1.06
January 21, 2021 10:00	4.23	1.06
January 21, 2021 11:00	4.37	1.12
January 21, 2021 12:00	4.28	1.13
January 21, 2021 13:00	4.27	1.02
January 21, 2021 14:00	4.36	1.18
January 21, 2021 15:00	4.29	1.14
January 21, 2021 16:00	3.96	1.03
January 21, 2021 17:00	3.46	0.80
January 21, 2021 18:00	3.58	0.75
January 21, 2021 19:00	3.50	0.73
January 21, 2021 20:00	3.33	0.72
January 21, 2021 21:00	3.16	0.70
January 21, 2021 22:00	2.95	0.68
January 21, 2021 23:00	2.82	0.66
January 22, 2021 0:00	2.74	0.62
January 22, 2021 1:00	2.54	0.57
January 22, 2021 2:00	2.49	0.56
January 22, 2021 3:00	2.52	0.57
January 22, 2021 4:00	2.46	0.59
January 22, 2021 5:00	2.59	0.62
January 22, 2021 6:00	2.80	0.66
January 22, 2021 7:00	3.23	0.71
January 22, 2021 8:00	3.93	1.01
January 22, 2021 9:00	4.39	1.24
January 22, 2021 10:00	4.40	1.21
January 22, 2021 11:00	4.45	1.23
January 22, 2021 12:00	4.56	1.28
January 22, 2021 13:00	4.39	1.13



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January 22, 2021 14:00	4.34	1.17
January 22, 2021 15:00	4.36	1.21
January 22, 2021 16:00	3.89	0.96
January 22, 2021 17:00	3.32	0.75
January 22, 2021 18:00	3.42	0.66
January 22, 2021 19:00	3.39	0.66
January 22, 2021 20:00	3.30	0.66
January 22, 2021 21:00	3.05	0.65
January 22, 2021 22:00	2.80	0.63
January 22, 2021 23:00	2.60	0.61
January 23, 2021 0:00	2.53	0.59
January 23, 2021 1:00	2.44	0.57
January 23, 2021 2:00	2.40	0.55
January 23, 2021 3:00	2.39	0.54
January 23, 2021 4:00	2.40	0.52
January 23, 2021 5:00	2.45	0.55
January 23, 2021 6:00	2.71	0.69
January 23, 2021 7:00	2.91	0.72
January 23, 2021 8:00	3.13	0.73
January 23, 2021 9:00	3.13	0.75
January 23, 2021 10:00	3.07	0.73
January 23, 2021 11:00	3.03	0.60
January 23, 2021 12:00	3.02	0.61
January 23, 2021 13:00	2.92	0.62
January 23, 2021 14:00	2.96	0.62
January 23, 2021 15:00	2.90	0.63
January 23, 2021 16:00	2.83	0.64
January 23, 2021 17:00	2.86	0.65
January 23, 2021 18:00	3.16	0.65
January 23, 2021 19:00	3.14	0.64
January 23, 2021 20:00	3.00	0.65
January 23, 2021 21:00	2.81	0.65
January 23, 2021 22:00	2.74	0.64
January 23, 2021 23:00	2.63	0.62
January 24, 2021 0:00	2.59	0.61
January 24, 2021 1:00	2.53	0.59
January 24, 2021 2:00	2.55	0.58
January 24, 2021 3:00	2.51	0.56
January 24, 2021 4:00	2.54	0.55
January 24, 2021 5:00	2.55	0.55
January 24, 2021 6:00	2.60	0.56
January 24, 2021 7:00	2.68	0.56
January 24, 2021 8:00	2.95	0.61
January 24, 2021 9:00	2.78	0.61
January 24, 2021 10:00	2.76	0.61
January 24, 2021 11:00	2.80	0.62
January 24, 2021 12:00	2.86	0.62
January 24, 2021 13:00	2.93	0.62
January 24, 2021 14:00	2.88	0.62
January 24, 2021 15:00	2.79	0.62
January 24, 2021 16:00	2.80	0.63
January 24, 2021 17:00	2.81	0.63
January 24, 2021 18:00	3.00	0.62
January 24, 2021 19:00	2.98	0.61
January 24, 2021 20:00	2.83	0.60
January 24, 2021 21:00	2.72	0.59
January 24, 2021 22:00	2.66	0.58
January 24, 2021 23:00	2.62	0.56
January 25, 2021 0:00	2.57	0.54
January 25, 2021 1:00	2.53	0.52
January 25, 2021 2:00	2.46	0.51
January 25, 2021 3:00	2.48	0.52
January 25, 2021 4:00	2.49	0.53
January 25, 2021 5:00	2.61	0.54
January 25, 2021 6:00	3.06	0.66



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January 25, 2021 7:00	3.67	0.81
January 25, 2021 8:00	4.31	1.05
January 25, 2021 9:00	4.77	1.22
January 25, 2021 10:00	4.66	1.23
January 25, 2021 11:00	4.88	1.36
January 25, 2021 12:00	4.91	1.37
January 25, 2021 13:00	4.73	1.24
January 25, 2021 14:00	4.77	1.32
January 25, 2021 15:00	4.68	1.25
January 25, 2021 16:00	4.35	1.05
January 25, 2021 17:00	3.77	0.85
January 25, 2021 18:00	3.85	0.82
January 25, 2021 19:00	3.75	0.81
January 25, 2021 20:00	3.69	0.79
January 25, 2021 21:00	3.52	0.77
January 25, 2021 22:00	3.20	0.72
January 25, 2021 23:00	3.06	0.67
January 26, 2021 0:00	3.02	0.72
January 26, 2021 1:00	2.75	0.57
January 26, 2021 2:00	2.75	0.57
January 26, 2021 3:00	2.68	0.57
January 26, 2021 4:00	2.65	0.57
January 26, 2021 5:00	2.67	0.58
January 26, 2021 6:00	3.19	0.78
January 26, 2021 7:00	3.67	0.86
January 26, 2021 8:00	4.27	1.03
January 26, 2021 9:00	4.59	1.23
January 26, 2021 10:00	4.56	1.18
January 26, 2021 11:00	4.57	1.15
January 26, 2021 12:00	4.54	1.13
January 26, 2021 13:00	4.55	1.11
January 26, 2021 14:00	4.57	1.15
January 26, 2021 15:00	4.49	1.05
January 26, 2021 16:00	4.26	0.96
January 26, 2021 17:00	3.87	0.82
January 26, 2021 18:00	3.79	0.71
January 26, 2021 19:00	3.75	0.70
January 26, 2021 20:00	3.64	0.71
January 26, 2021 21:00	3.47	0.71
January 26, 2021 22:00	3.22	0.71
January 26, 2021 23:00	3.13	0.68
January 27, 2021 0:00	3.00	0.65
January 27, 2021 1:00	2.75	0.64
January 27, 2021 2:00	2.72	0.64
January 27, 2021 3:00	2.68	0.62
January 27, 2021 4:00	2.60	0.62
January 27, 2021 5:00	2.69	0.63
January 27, 2021 6:00	3.09	0.64
January 27, 2021 7:00	3.52	0.71
January 27, 2021 8:00	4.18	0.99
January 27, 2021 9:00	4.47	1.15
January 27, 2021 10:00	4.56	1.13
January 27, 2021 11:00	4.71	1.21
January 27, 2021 12:00	4.73	1.28
January 27, 2021 13:00	4.68	1.23
January 27, 2021 14:00	4.84	1.31
January 27, 2021 15:00	4.61	1.20
January 27, 2021 16:00	4.45	1.06
January 27, 2021 17:00	3.99	0.95
January 27, 2021 18:00	3.99	0.86
January 27, 2021 19:00	3.87	0.87
January 27, 2021 20:00	3.68	0.87
January 27, 2021 21:00	3.45	0.76
January 27, 2021 22:00	3.20	0.69
January 27, 2021 23:00	3.06	0.67



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January 28, 2021 0:00	2.92	0.64
January 28, 2021 1:00	2.71	0.63
January 28, 2021 2:00	2.71	0.64
January 28, 2021 3:00	2.71	0.64
January 28, 2021 4:00	2.65	0.64
January 28, 2021 5:00	2.78	0.65
January 28, 2021 6:00	3.17	0.66
January 28, 2021 7:00	3.68	0.79
January 28, 2021 8:00	4.28	1.01
January 28, 2021 9:00	4.57	1.15
January 28, 2021 10:00	4.55	1.12
January 28, 2021 11:00	4.73	1.20
January 28, 2021 12:00	4.80	1.22
January 28, 2021 13:00	4.66	1.18
January 28, 2021 14:00	4.73	1.24
January 28, 2021 15:00	4.72	1.20
January 28, 2021 16:00	4.53	1.07
January 28, 2021 17:00	3.93	0.84
January 28, 2021 18:00	3.82	0.76
January 28, 2021 19:00	3.82	0.75
January 28, 2021 20:00	3.70	0.77
January 28, 2021 21:00	3.52	0.78
January 28, 2021 22:00	3.22	0.77
January 28, 2021 23:00	3.09	0.73
January 29, 2021 0:00	2.99	0.69
January 29, 2021 1:00	2.75	0.64
January 29, 2021 2:00	2.71	0.61
January 29, 2021 3:00	2.68	0.61
January 29, 2021 4:00	2.66	0.62
January 29, 2021 5:00	2.81	0.63
January 29, 2021 6:00	3.18	0.75
January 29, 2021 7:00	3.58	0.75
January 29, 2021 8:00	4.09	0.93
January 29, 2021 9:00	4.30	1.00
January 29, 2021 10:00	4.29	1.01
January 29, 2021 11:00	4.59	1.06
January 29, 2021 12:00	4.53	1.13
January 29, 2021 13:00	4.39	1.03
January 29, 2021 14:00	4.30	1.00
January 29, 2021 15:00	4.13	0.98
January 29, 2021 16:00	3.91	0.88
January 29, 2021 17:00	3.53	0.79
January 29, 2021 18:00	3.55	0.75
January 29, 2021 19:00	3.66	0.74
January 29, 2021 20:00	3.53	0.74
January 29, 2021 21:00	3.29	0.69
January 29, 2021 22:00	3.07	0.64
January 29, 2021 23:00	2.95	0.63
January 30, 2021 0:00	2.84	0.63
January 30, 2021 1:00	2.68	0.62
January 30, 2021 2:00	2.65	0.61
January 30, 2021 3:00	2.66	0.60
January 30, 2021 4:00	2.69	0.59
January 30, 2021 5:00	2.75	0.58
January 30, 2021 6:00	2.87	0.57
January 30, 2021 7:00	3.09	0.70
January 30, 2021 8:00	3.36	0.77
January 30, 2021 9:00	3.26	0.81
January 30, 2021 10:00	3.19	0.74
January 30, 2021 11:00	3.24	0.70
January 30, 2021 12:00	3.21	0.70
January 30, 2021 13:00	3.07	0.64
January 30, 2021 14:00	2.99	0.63
January 30, 2021 15:00	2.96	0.62
January 30, 2021 16:00	2.87	0.62



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January 30, 2021 17:00	2.87	0.61
January 30, 2021 18:00	3.00	0.61
January 30, 2021 19:00	3.12	0.60
January 30, 2021 20:00	2.99	0.60
January 30, 2021 21:00	2.87	0.59
January 30, 2021 22:00	2.78	0.59
January 30, 2021 23:00	2.70	0.58
January 31, 2021 0:00	2.63	0.57
January 31, 2021 1:00	2.58	0.57
January 31, 2021 2:00	2.59	0.56
January 31, 2021 3:00	2.57	0.55
January 31, 2021 4:00	2.58	0.54
January 31, 2021 5:00	2.61	0.55
January 31, 2021 6:00	2.64	0.56
January 31, 2021 7:00	2.81	0.66
January 31, 2021 8:00	2.92	0.69
January 31, 2021 9:00	2.70	0.62
January 31, 2021 10:00	2.69	0.57
January 31, 2021 11:00	2.88	0.58
January 31, 2021 12:00	2.83	0.58
January 31, 2021 13:00	2.73	0.60
January 31, 2021 14:00	2.75	0.63
January 31, 2021 15:00	2.76	0.64
January 31, 2021 16:00	2.81	0.64
January 31, 2021 17:00	2.73	0.63
January 31, 2021 18:00	2.88	0.63
January 31, 2021 19:00	2.98	0.63
January 31, 2021 20:00	2.81	0.62
January 31, 2021 21:00	2.70	0.61
January 31, 2021 22:00	2.68	0.61
January 31, 2021 23:00	2.62	0.60
February 1, 2021 0:00	2.57	0.59
February 1, 2021 1:00	2.54	0.58
February 1, 2021 2:00	2.52	0.58
February 1, 2021 3:00	2.47	0.59
February 1, 2021 4:00	2.51	0.62
February 1, 2021 5:00	2.62	0.64
February 1, 2021 6:00	3.12	0.77
February 1, 2021 7:00	3.60	0.91
February 1, 2021 8:00	4.02	1.05
February 1, 2021 9:00	4.15	1.16
February 1, 2021 10:00	4.20	1.18
February 1, 2021 11:00	4.22	1.14
February 1, 2021 12:00	4.17	1.11
February 1, 2021 13:00	4.21	1.16
February 1, 2021 14:00	4.34	1.31
February 1, 2021 15:00	4.20	1.21
February 1, 2021 16:00	4.22	1.18
February 1, 2021 17:00	3.72	0.94
February 1, 2021 18:00	3.63	0.86
February 1, 2021 19:00	3.66	0.82
February 1, 2021 20:00	3.55	0.82
February 1, 2021 21:00	3.36	0.80
February 1, 2021 22:00	3.08	0.73
February 1, 2021 23:00	2.95	0.70
February 2, 2021 0:00	2.90	0.63
February 2, 2021 1:00	2.66	0.54
February 2, 2021 2:00	2.61	0.53
February 2, 2021 3:00	2.55	0.52
February 2, 2021 4:00	2.58	0.52
February 2, 2021 5:00	2.70	0.52
February 2, 2021 6:00	3.11	0.60
February 2, 2021 7:00	3.56	0.78
February 2, 2021 8:00	4.30	1.09
February 2, 2021 9:00	4.44	1.21



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February 2, 2021 10:00	4.54	1.20
February 2, 2021 11:00	4.79	1.37
February 2, 2021 12:00	4.78	1.37
February 2, 2021 13:00	4.69	1.32
February 2, 2021 14:00	4.80	1.43
February 2, 2021 15:00	4.66	1.43
February 2, 2021 16:00	4.33	1.07
February 2, 2021 17:00	3.93	0.92
February 2, 2021 18:00	3.87	0.85
February 2, 2021 19:00	3.84	0.85
February 2, 2021 20:00	3.71	0.82
February 2, 2021 21:00	3.45	0.84
February 2, 2021 22:00	3.27	0.79
February 2, 2021 23:00	3.11	0.74
February 3, 2021 0:00	3.07	0.67
February 3, 2021 1:00	2.72	0.63
February 3, 2021 2:00	2.67	0.61
February 3, 2021 3:00	2.56	0.59
February 3, 2021 4:00	2.58	0.58
February 3, 2021 5:00	2.79	0.66
February 3, 2021 6:00	3.19	0.74
February 3, 2021 7:00	3.65	0.88
February 3, 2021 8:00	4.25	1.12
February 3, 2021 9:00	4.35	1.17
February 3, 2021 10:00	4.44	1.15
February 3, 2021 11:00	4.65	1.22
February 3, 2021 12:00	4.54	1.20
February 3, 2021 13:00	4.59	1.19
February 3, 2021 14:00	4.78	1.30
February 3, 2021 15:00	4.64	1.28
February 3, 2021 16:00	4.38	1.12
February 3, 2021 17:00	4.08	1.01
February 3, 2021 18:00	4.03	0.96
February 3, 2021 19:00	3.94	0.85
February 3, 2021 20:00	3.85	0.91
February 3, 2021 21:00	3.62	0.81
February 3, 2021 22:00	3.30	0.75
February 3, 2021 23:00	3.18	0.73
February 4, 2021 0:00	3.09	0.70
February 4, 2021 1:00	2.86	0.67
February 4, 2021 2:00	2.68	0.65
February 4, 2021 3:00	2.58	0.62
February 4, 2021 4:00	2.63	0.60
February 4, 2021 5:00	2.79	0.62
February 4, 2021 6:00	3.29	0.85
February 4, 2021 7:00	3.71	0.90
February 4, 2021 8:00	4.16	1.05
February 4, 2021 9:00	4.47	1.25
February 4, 2021 10:00	4.57	1.28
February 4, 2021 11:00	4.55	1.24
February 4, 2021 12:00	4.54	1.27
February 4, 2021 13:00	4.47	1.24
February 4, 2021 14:00	4.59	1.36
February 4, 2021 15:00	4.61	1.33
February 4, 2021 16:00	4.29	1.08
February 4, 2021 17:00	3.86	0.95
February 4, 2021 18:00	3.77	0.86
February 4, 2021 19:00	3.68	0.81
February 4, 2021 20:00	3.64	0.80
February 4, 2021 21:00	3.42	0.78
February 4, 2021 22:00	3.12	0.71
February 4, 2021 23:00	2.96	0.68
February 5, 2021 0:00	2.89	0.62
February 5, 2021 1:00	2.62	0.59
February 5, 2021 2:00	2.53	0.60



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February 5, 2021 3:00	2.51	0.60
February 5, 2021 4:00	2.53	0.60
February 5, 2021 5:00	2.65	0.61
February 5, 2021 6:00	3.09	0.73
February 5, 2021 7:00	3.60	0.88
February 5, 2021 8:00	4.21	1.10
February 5, 2021 9:00	4.29	1.21
February 5, 2021 10:00	4.49	1.22
February 5, 2021 11:00	4.57	1.18
February 5, 2021 12:00	4.68	1.22
February 5, 2021 13:00	4.55	1.14
February 5, 2021 14:00	4.40	1.01
February 5, 2021 15:00	4.33	1.01
February 5, 2021 16:00	4.14	0.98
February 5, 2021 17:00	3.70	0.84
February 5, 2021 18:00	3.65	0.76
February 5, 2021 19:00	3.75	0.76
February 5, 2021 20:00	3.62	0.74
February 5, 2021 21:00	3.46	0.72
February 5, 2021 22:00	3.25	0.70
February 5, 2021 23:00	3.12	0.68
February 6, 2021 0:00	3.02	0.66
February 6, 2021 1:00	2.70	0.65
February 6, 2021 2:00	2.65	0.65
February 6, 2021 3:00	2.67	0.65
February 6, 2021 4:00	2.70	0.65
February 6, 2021 5:00	2.78	0.65
February 6, 2021 6:00	2.93	0.67
February 6, 2021 7:00	3.18	0.74
February 6, 2021 8:00	3.52	0.91
February 6, 2021 9:00	3.33	0.78
February 6, 2021 10:00	3.41	0.81
February 6, 2021 11:00	3.56	0.82
February 6, 2021 12:00	3.60	0.82
February 6, 2021 13:00	3.48	0.78
February 6, 2021 14:00	3.57	0.80
February 6, 2021 15:00	3.34	0.70
February 6, 2021 16:00	3.25	0.63
February 6, 2021 17:00	3.23	0.64
February 6, 2021 18:00	3.29	0.65
February 6, 2021 19:00	3.45	0.65
February 6, 2021 20:00	3.23	0.66
February 6, 2021 21:00	3.08	0.67
February 6, 2021 22:00	2.97	0.66
February 6, 2021 23:00	2.86	0.64
February 7, 2021 0:00	2.82	0.63
February 7, 2021 1:00	2.80	0.62
February 7, 2021 2:00	2.73	0.61
February 7, 2021 3:00	2.75	0.60
February 7, 2021 4:00	2.86	0.59
February 7, 2021 5:00	2.85	0.58
February 7, 2021 6:00	2.92	0.58
February 7, 2021 7:00	3.02	0.59
February 7, 2021 8:00	3.11	0.59
February 7, 2021 9:00	3.01	0.60
February 7, 2021 10:00	3.10	0.60
February 7, 2021 11:00	3.25	0.60
February 7, 2021 12:00	3.21	0.61
February 7, 2021 13:00	3.23	0.61
February 7, 2021 14:00	3.23	0.62
February 7, 2021 15:00	3.14	0.62
February 7, 2021 16:00	3.12	0.63
February 7, 2021 17:00	3.11	0.63
February 7, 2021 18:00	3.14	0.64
February 7, 2021 19:00	3.25	0.64



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February 7, 2021 20:00	3.12	0.65
February 7, 2021 21:00	3.02	0.65
February 7, 2021 22:00	2.89	0.65
February 7, 2021 23:00	2.85	0.63
February 8, 2021 0:00	2.76	0.62
February 8, 2021 1:00	2.71	0.60
February 8, 2021 2:00	2.70	0.59
February 8, 2021 3:00	2.76	0.60
February 8, 2021 4:00	2.82	0.61
February 8, 2021 5:00	2.94	0.62
February 8, 2021 6:00	3.30	0.71
February 8, 2021 7:00	3.84	0.94
February 8, 2021 8:00	4.30	1.05
February 8, 2021 9:00	4.39	1.05
February 8, 2021 10:00	4.53	0.94
February 8, 2021 11:00	4.69	1.04
February 8, 2021 12:00	4.69	1.06
February 8, 2021 13:00	4.62	1.00
February 8, 2021 14:00	4.66	1.00
February 8, 2021 15:00	4.55	1.02
February 8, 2021 16:00	4.43	0.99
February 8, 2021 17:00	4.06	0.79
February 8, 2021 18:00	3.89	0.75
February 8, 2021 19:00	3.91	0.74
February 8, 2021 20:00	3.84	0.76
February 8, 2021 21:00	3.66	0.78
February 8, 2021 22:00	3.39	0.79
February 8, 2021 23:00	3.29	0.75
February 9, 2021 0:00	3.23	0.71
February 9, 2021 1:00	2.99	0.67
February 9, 2021 2:00	2.95	0.64
February 9, 2021 3:00	2.88	0.65
February 9, 2021 4:00	2.87	0.66
February 9, 2021 5:00	3.01	0.67
February 9, 2021 6:00	3.48	0.83
February 9, 2021 7:00	3.82	0.86
February 9, 2021 8:00	4.49	1.11
February 9, 2021 9:00	4.58	1.18
February 9, 2021 10:00	4.74	1.12
February 9, 2021 11:00	5.09	1.23
February 9, 2021 12:00	4.97	1.24
February 9, 2021 13:00	4.80	1.12
February 9, 2021 14:00	4.92	1.18
February 9, 2021 15:00	4.78	1.14
February 9, 2021 16:00	4.68	1.09
February 9, 2021 17:00	4.36	0.96
February 9, 2021 18:00	4.12	0.88
February 9, 2021 19:00	4.12	0.86
February 9, 2021 20:00	3.98	0.85
February 9, 2021 21:00	3.80	0.81
February 9, 2021 22:00	3.52	0.79
February 9, 2021 23:00	3.43	0.78
February 10, 2021 0:00	3.35	0.77
February 10, 2021 1:00	3.24	0.76
February 10, 2021 2:00	3.21	0.75
February 10, 2021 3:00	3.18	0.74
February 10, 2021 4:00	3.09	0.73
February 10, 2021 5:00	3.23	0.73
February 10, 2021 6:00	3.51	0.77
February 10, 2021 7:00	3.84	0.82
February 10, 2021 8:00	4.35	0.92
February 10, 2021 9:00	4.39	0.94
February 10, 2021 10:00	4.53	0.93
February 10, 2021 11:00	4.75	1.00
February 10, 2021 12:00	4.90	1.07



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February 10, 2021 13:00	4.85	1.06
February 10, 2021 14:00	4.92	1.09
February 10, 2021 15:00	4.78	1.07
February 10, 2021 16:00	4.64	1.03
February 10, 2021 17:00	4.32	0.99
February 10, 2021 18:00	4.09	0.85
February 10, 2021 19:00	4.18	0.78
February 10, 2021 20:00	4.01	0.80
February 10, 2021 21:00	3.81	0.80
February 10, 2021 22:00	3.56	0.79
February 10, 2021 23:00	3.46	0.77
February 11, 2021 0:00	3.42	0.75
February 11, 2021 1:00	3.17	0.73
February 11, 2021 2:00	3.18	0.71
February 11, 2021 3:00	3.08	0.70
February 11, 2021 4:00	3.12	0.70
February 11, 2021 5:00	3.16	0.72
February 11, 2021 6:00	3.59	0.76
February 11, 2021 7:00	4.11	0.90
February 11, 2021 8:00	4.53	0.97
February 11, 2021 9:00	4.61	1.08
February 11, 2021 10:00	4.80	1.06
February 11, 2021 11:00	5.07	1.13
February 11, 2021 12:00	5.07	1.14
February 11, 2021 13:00	4.98	1.25
February 11, 2021 14:00	4.94	1.17
February 11, 2021 15:00	4.93	1.14
February 11, 2021 16:00	4.58	1.05
February 11, 2021 17:00	4.21	0.96
February 11, 2021 18:00	4.01	0.93
February 11, 2021 19:00	4.23	0.93
February 11, 2021 20:00	4.06	0.85
February 11, 2021 21:00	3.87	0.84
February 11, 2021 22:00	3.53	0.83
February 11, 2021 23:00	3.49	0.79
February 12, 2021 0:00	3.34	0.75
February 12, 2021 1:00	3.11	0.72
February 12, 2021 2:00	2.99	0.68
February 12, 2021 3:00	2.94	0.64
February 12, 2021 4:00	2.94	0.65
February 12, 2021 5:00	3.00	0.68
February 12, 2021 6:00	3.36	0.71
February 12, 2021 7:00	3.84	0.77
February 12, 2021 8:00	4.39	0.94
February 12, 2021 9:00	4.62	1.11
February 12, 2021 10:00	4.76	1.18
February 12, 2021 11:00	4.91	1.15
February 12, 2021 12:00	4.93	1.19
February 12, 2021 13:00	4.81	1.18
February 12, 2021 14:00	4.69	1.13
February 12, 2021 15:00	4.56	1.05
February 12, 2021 16:00	4.32	0.98
February 12, 2021 17:00	3.91	0.85
February 12, 2021 18:00	3.65	0.76
February 12, 2021 19:00	3.85	0.75
February 12, 2021 20:00	3.80	0.77
February 12, 2021 21:00	3.59	0.74
February 12, 2021 22:00	3.25	0.71
February 12, 2021 23:00	3.16	0.69
February 13, 2021 0:00	3.08	0.66
February 13, 2021 1:00	2.80	0.65
February 13, 2021 2:00	2.78	0.66
February 13, 2021 3:00	2.77	0.67
February 13, 2021 4:00	2.84	0.68
February 13, 2021 5:00	2.84	0.69



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February 13, 2021 6:00	3.08	0.70
February 13, 2021 7:00	3.29	0.71
February 13, 2021 8:00	3.41	0.72
February 13, 2021 9:00	2.37	0.51
February 13, 2021 10:00	0.00	0.00
February 13, 2021 11:00	0.00	0.00
February 13, 2021 12:00	0.00	0.00
February 13, 2021 13:00	0.00	0.00
February 13, 2021 14:00	0.00	0.00
February 13, 2021 15:00	0.00	0.00
February 13, 2021 16:00	0.00	0.00
February 13, 2021 17:00	0.00	0.00
February 13, 2021 18:00	0.00	0.00
February 13, 2021 19:00	0.00	0.00
February 13, 2021 20:00	0.00	0.00
February 13, 2021 21:00	0.00	0.00
February 13, 2021 22:00	0.00	0.00
February 13, 2021 23:00	0.00	0.00
February 14, 2021 0:00	0.00	0.00
February 14, 2021 1:00	0.00	0.00
February 14, 2021 2:00	0.00	0.00
February 14, 2021 3:00	0.00	0.00
February 14, 2021 4:00	0.00	0.00
February 14, 2021 5:00	0.00	0.00
February 14, 2021 6:00	0.00	0.00
February 14, 2021 7:00	0.00	0.00
February 14, 2021 8:00	0.00	0.00
February 14, 2021 9:00	0.00	0.00
February 14, 2021 10:00	0.00	0.00
February 14, 2021 11:00	0.00	0.00
February 14, 2021 12:00	0.00	0.00
February 14, 2021 13:00	0.00	0.00
February 14, 2021 14:00	0.00	0.00
February 14, 2021 15:00	0.00	0.00
February 14, 2021 16:00	0.00	0.00
February 14, 2021 17:00	2.42	0.55
February 14, 2021 18:00	3.09	0.67
February 14, 2021 19:00	3.26	0.66
February 14, 2021 20:00	3.13	0.66
February 14, 2021 21:00	3.06	0.65
February 14, 2021 22:00	3.00	0.64
February 14, 2021 23:00	2.86	0.64
February 15, 2021 0:00	2.82	0.63
February 15, 2021 1:00	2.80	0.63
February 15, 2021 2:00	2.75	0.62
February 15, 2021 3:00	2.78	0.62
February 15, 2021 4:00	2.80	0.61
February 15, 2021 5:00	2.84	0.61
February 15, 2021 6:00	2.85	0.60
February 15, 2021 7:00	2.98	0.59
February 15, 2021 8:00	2.99	0.57
February 15, 2021 9:00	2.80	0.56
February 15, 2021 10:00	2.87	0.56
February 15, 2021 11:00	2.89	0.55
February 15, 2021 12:00	2.94	0.55
February 15, 2021 13:00	2.93	0.55
February 15, 2021 14:00	2.93	0.55
February 15, 2021 15:00	2.89	0.54
February 15, 2021 16:00	2.89	0.54
February 15, 2021 17:00	2.84	0.54
February 15, 2021 18:00	2.84	0.54
February 15, 2021 19:00	3.09	0.55
February 15, 2021 20:00	3.05	0.55
February 15, 2021 21:00	2.96	0.55
February 15, 2021 22:00	2.88	0.55



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February 15, 2021 23:00	2.79	0.56
February 16, 2021 0:00	2.75	0.56
February 16, 2021 1:00	2.69	0.57
February 16, 2021 2:00	2.64	0.58
February 16, 2021 3:00	2.68	0.59
February 16, 2021 4:00	2.77	0.61
February 16, 2021 5:00	2.88	0.62
February 16, 2021 6:00	3.32	0.70
February 16, 2021 7:00	3.76	0.82
February 16, 2021 8:00	4.24	1.03
February 16, 2021 9:00	4.56	1.26
February 16, 2021 10:00	4.72	1.28
February 16, 2021 11:00	4.61	1.25
February 16, 2021 12:00	4.87	1.35
February 16, 2021 13:00	4.65	1.26
February 16, 2021 14:00	4.72	1.29
February 16, 2021 15:00	4.70	1.29
February 16, 2021 16:00	4.45	1.12
February 16, 2021 17:00	4.05	0.92
February 16, 2021 18:00	3.69	0.78
February 16, 2021 19:00	3.84	0.74
February 16, 2021 20:00	3.71	0.77
February 16, 2021 21:00	3.55	0.77
February 16, 2021 22:00	3.21	0.76
February 16, 2021 23:00	3.14	0.75
February 17, 2021 0:00	3.05	0.72
February 17, 2021 1:00	2.96	0.70
February 17, 2021 2:00	2.84	0.68
February 17, 2021 3:00	2.55	0.62
February 17, 2021 4:00	2.60	0.62
February 17, 2021 5:00	2.79	0.63
February 17, 2021 6:00	3.10	0.72
February 17, 2021 7:00	3.45	0.75
February 17, 2021 8:00	4.23	1.14
February 17, 2021 9:00	4.29	1.18
February 17, 2021 10:00	4.63	1.22
February 17, 2021 11:00	4.58	1.29
February 17, 2021 12:00	4.59	1.23
February 17, 2021 13:00	4.61	1.20
February 17, 2021 14:00	4.69	1.31
February 17, 2021 15:00	4.68	1.22
February 17, 2021 16:00	4.81	1.32
February 17, 2021 17:00	4.15	1.03
February 17, 2021 18:00	3.70	0.78
February 17, 2021 19:00	3.89	0.82
February 17, 2021 20:00	3.77	0.81
February 17, 2021 21:00	3.54	0.78
February 17, 2021 22:00	3.21	0.76
February 17, 2021 23:00	3.14	0.74
February 18, 2021 0:00	3.07	0.73
February 18, 2021 1:00	2.95	0.62
February 18, 2021 2:00	2.84	0.61
February 18, 2021 3:00	2.66	0.61
February 18, 2021 4:00	2.72	0.60
February 18, 2021 5:00	2.92	0.59
February 18, 2021 6:00	3.32	0.73
February 18, 2021 7:00	3.95	1.00
February 18, 2021 8:00	4.36	1.11
February 18, 2021 9:00	4.45	1.21
February 18, 2021 10:00	4.61	1.18
February 18, 2021 11:00	4.62	1.19
February 18, 2021 12:00	4.75	1.28
February 18, 2021 13:00	4.54	1.16
February 18, 2021 14:00	4.65	1.22
February 18, 2021 15:00	4.50	1.15



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February 18, 2021 16:00	4.27	0.99
February 18, 2021 17:00	3.81	0.90
February 18, 2021 18:00	3.60	0.77
February 18, 2021 19:00	3.67	0.70
February 18, 2021 20:00	3.62	0.68
February 18, 2021 21:00	3.42	0.67
February 18, 2021 22:00	3.08	0.65
February 18, 2021 23:00	2.99	0.63
February 19, 2021 0:00	2.95	0.62
February 19, 2021 1:00	2.79	0.61
February 19, 2021 2:00	2.68	0.60
February 19, 2021 3:00	2.51	0.59
February 19, 2021 4:00	2.58	0.58
February 19, 2021 5:00	2.76	0.57
February 19, 2021 6:00	3.03	0.60
February 19, 2021 7:00	3.45	0.69
February 19, 2021 8:00	3.85	0.94
February 19, 2021 9:00	4.06	1.10
February 19, 2021 10:00	4.26	1.15
February 19, 2021 11:00	4.41	1.20
February 19, 2021 12:00	4.48	1.18
February 19, 2021 13:00	4.43	1.15
February 19, 2021 14:00	4.58	1.26
February 19, 2021 15:00	4.32	1.21
February 19, 2021 16:00	3.94	0.91
February 19, 2021 17:00	3.43	0.80
February 19, 2021 18:00	3.20	0.71
February 19, 2021 19:00	3.41	0.70
February 19, 2021 20:00	3.46	0.73
February 19, 2021 21:00	3.26	0.74
February 19, 2021 22:00	2.95	0.71
February 19, 2021 23:00	2.81	0.67
February 20, 2021 0:00	2.76	0.63
February 20, 2021 1:00	2.70	0.60
February 20, 2021 2:00	2.63	0.59
February 20, 2021 3:00	2.46	0.58
February 20, 2021 4:00	2.52	0.60
February 20, 2021 5:00	2.66	0.66
February 20, 2021 6:00	3.05	0.80
February 20, 2021 7:00	3.29	0.88
February 20, 2021 8:00	3.28	0.85
February 20, 2021 9:00	3.19	0.91
February 20, 2021 10:00	3.44	0.88
February 20, 2021 11:00	3.51	0.96
February 20, 2021 12:00	3.44	0.85
February 20, 2021 13:00	3.13	0.71
February 20, 2021 14:00	3.16	0.70
February 20, 2021 15:00	3.13	0.75
February 20, 2021 16:00	2.99	0.75
February 20, 2021 17:00	3.06	0.73
February 20, 2021 18:00	3.02	0.75
February 20, 2021 19:00	3.21	0.75
February 20, 2021 20:00	3.09	0.73
February 20, 2021 21:00	2.89	0.69
February 20, 2021 22:00	2.76	0.65
February 20, 2021 23:00	2.69	0.61
February 21, 2021 0:00	2.62	0.58
February 21, 2021 1:00	2.48	0.57
February 21, 2021 2:00	2.38	0.55
February 21, 2021 3:00	2.36	0.54
February 21, 2021 4:00	2.56	0.52
February 21, 2021 5:00	2.56	0.53
February 21, 2021 6:00	2.66	0.54
February 21, 2021 7:00	2.71	0.55
February 21, 2021 8:00	2.64	0.56



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February 21, 2021 9:00	2.46	0.57
February 21, 2021 10:00	2.68	0.58
February 21, 2021 11:00	2.82	0.59
February 21, 2021 12:00	2.84	0.60
February 21, 2021 13:00	2.83	0.62
February 21, 2021 14:00	2.79	0.64
February 21, 2021 15:00	2.80	0.67
February 21, 2021 16:00	2.82	0.69
February 21, 2021 17:00	2.77	0.69
February 21, 2021 18:00	2.70	0.64
February 21, 2021 19:00	2.76	0.60
February 21, 2021 20:00	2.67	0.60
February 21, 2021 21:00	2.53	0.62
February 21, 2021 22:00	2.52	0.63
February 21, 2021 23:00	2.42	0.62
February 22, 2021 0:00	2.35	0.62
February 22, 2021 1:00	2.31	0.61
February 22, 2021 2:00	2.29	0.60
February 22, 2021 3:00	2.30	0.60
February 22, 2021 4:00	2.35	0.59
February 22, 2021 5:00	2.56	0.58
February 22, 2021 6:00	3.04	0.76
February 22, 2021 7:00	3.63	0.91
February 22, 2021 8:00	4.01	1.07
February 22, 2021 9:00	4.28	1.28
February 22, 2021 10:00	4.31	1.24
February 22, 2021 11:00	4.44	1.27
February 22, 2021 12:00	4.41	1.32
February 22, 2021 13:00	4.25	1.18
February 22, 2021 14:00	4.22	1.18
February 22, 2021 15:00	4.21	1.12
February 22, 2021 16:00	4.02	1.09
February 22, 2021 17:00	3.68	0.98
February 22, 2021 18:00	3.36	0.90
February 22, 2021 19:00	3.47	0.80
February 22, 2021 20:00	3.40	0.78
February 22, 2021 21:00	3.21	0.76
February 22, 2021 22:00	2.94	0.74
February 22, 2021 23:00	2.84	0.72
February 23, 2021 0:00	2.78	0.69
February 23, 2021 1:00	2.63	0.61
February 23, 2021 2:00	2.59	0.61
February 23, 2021 3:00	2.38	0.61
February 23, 2021 4:00	2.40	0.62
February 23, 2021 5:00	2.56	0.62
February 23, 2021 6:00	3.09	0.81
February 23, 2021 7:00	3.63	0.93
February 23, 2021 8:00	4.06	1.11
February 23, 2021 9:00	4.44	1.35
February 23, 2021 10:00	4.45	1.28
February 23, 2021 11:00	4.60	1.34
February 23, 2021 12:00	4.64	1.33
February 23, 2021 13:00	4.48	1.22
February 23, 2021 14:00	4.56	1.34
February 23, 2021 15:00	4.61	1.37
February 23, 2021 16:00	4.22	1.07
February 23, 2021 17:00	3.85	0.96
February 23, 2021 18:00	3.48	0.79
February 23, 2021 19:00	3.61	0.77
February 23, 2021 20:00	3.53	0.77
February 23, 2021 21:00	3.31	0.77
February 23, 2021 22:00	3.03	0.74
February 23, 2021 23:00	2.92	0.70
February 24, 2021 0:00	2.84	0.67
February 24, 2021 1:00	2.77	0.64



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February 24, 2021 2:00	2.66	0.61
February 24, 2021 3:00	2.44	0.60
February 24, 2021 4:00	2.50	0.61
February 24, 2021 5:00	2.67	0.61
February 24, 2021 6:00	3.20	0.81
February 24, 2021 7:00	3.79	1.06
February 24, 2021 8:00	4.17	1.24
February 24, 2021 9:00	4.46	1.33
February 24, 2021 10:00	4.54	1.27
February 24, 2021 11:00	4.70	1.39
February 24, 2021 12:00	4.66	1.39
February 24, 2021 13:00	4.55	1.37
February 24, 2021 14:00	4.46	1.26
February 24, 2021 15:00	4.67	1.38
February 24, 2021 16:00	4.26	1.14
February 24, 2021 17:00	4.02	1.02
February 24, 2021 18:00	3.65	0.92
February 24, 2021 19:00	3.62	0.84
February 24, 2021 20:00	3.58	0.82
February 24, 2021 21:00	3.37	0.81
February 24, 2021 22:00	3.13	0.78
February 24, 2021 23:00	3.00	0.75
February 25, 2021 0:00	2.93	0.72
February 25, 2021 1:00	2.82	0.65
February 25, 2021 2:00	2.69	0.65
February 25, 2021 3:00	2.57	0.65
February 25, 2021 4:00	2.55	0.65
February 25, 2021 5:00	2.67	0.65
February 25, 2021 6:00	3.08	0.75
February 25, 2021 7:00	3.55	0.95
February 25, 2021 8:00	4.14	1.19
February 25, 2021 9:00	4.45	1.22
February 25, 2021 10:00	4.52	1.20
February 25, 2021 11:00	4.71	1.30
February 25, 2021 12:00	4.55	1.32
February 25, 2021 13:00	4.47	1.22
February 25, 2021 14:00	4.38	1.18
February 25, 2021 15:00	4.22	1.09
February 25, 2021 16:00	3.99	1.03
February 25, 2021 17:00	3.87	0.95
February 25, 2021 18:00	3.52	0.80
February 25, 2021 19:00	3.55	0.75
February 25, 2021 20:00	3.57	0.75
February 25, 2021 21:00	3.38	0.73
February 25, 2021 22:00	3.07	0.69
February 25, 2021 23:00	2.93	0.64
February 26, 2021 0:00	2.85	0.59
February 26, 2021 1:00	2.73	0.58
February 26, 2021 2:00	2.64	0.60
February 26, 2021 3:00	2.43	0.62
February 26, 2021 4:00	2.51	0.63
February 26, 2021 5:00	2.60	0.65
February 26, 2021 6:00	2.95	0.78
February 26, 2021 7:00	3.36	0.79
February 26, 2021 8:00	3.74	0.98
February 26, 2021 9:00	3.92	1.06
February 26, 2021 10:00	4.14	1.08
February 26, 2021 11:00	4.49	1.18
February 26, 2021 12:00	4.50	1.20
February 26, 2021 13:00	4.64	1.21
February 26, 2021 14:00	4.69	1.22
February 26, 2021 15:00	4.48	1.22
February 26, 2021 16:00	4.09	1.00
February 26, 2021 17:00	3.79	0.91
February 26, 2021 18:00	3.53	0.78



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February 26, 2021 19:00	3.62	0.75
February 26, 2021 20:00	3.59	0.75
February 26, 2021 21:00	3.35	0.74
February 26, 2021 22:00	3.12	0.68
February 26, 2021 23:00	2.99	0.67
February 27, 2021 0:00	2.92	0.67
February 27, 2021 1:00	2.94	0.68
February 27, 2021 2:00	2.94	0.68
February 27, 2021 3:00	2.80	0.69
February 27, 2021 4:00	2.79	0.70
February 27, 2021 5:00	2.86	0.71
February 27, 2021 6:00	3.12	0.75
February 27, 2021 7:00	3.47	0.85
February 27, 2021 8:00	3.45	0.90
February 27, 2021 9:00	3.51	1.01
February 27, 2021 10:00	3.65	1.04
February 27, 2021 11:00	3.74	0.99
February 27, 2021 12:00	3.78	0.95
February 27, 2021 13:00	3.31	0.68
February 27, 2021 14:00	3.28	0.70
February 27, 2021 15:00	3.20	0.71
February 27, 2021 16:00	3.05	0.69
February 27, 2021 17:00	2.92	0.67
February 27, 2021 18:00	2.93	0.65
February 27, 2021 19:00	3.09	0.63
February 27, 2021 20:00	2.96	0.62
February 27, 2021 21:00	2.85	0.62
February 27, 2021 22:00	2.74	0.61
February 27, 2021 23:00	2.67	0.61
February 28, 2021 0:00	2.62	0.60
February 28, 2021 1:00	2.55	0.59
February 28, 2021 2:00	2.54	0.59
February 28, 2021 3:00	2.52	0.58
February 28, 2021 4:00	2.66	0.60
February 28, 2021 5:00	2.71	0.62
February 28, 2021 6:00	2.67	0.64
February 28, 2021 7:00	2.81	0.66
February 28, 2021 8:00	2.73	0.68
February 28, 2021 9:00	2.72	0.69
February 28, 2021 10:00	2.81	0.71
February 28, 2021 11:00	2.88	0.72
February 28, 2021 12:00	2.86	0.73
February 28, 2021 13:00	2.86	0.74
February 28, 2021 14:00	2.85	0.76
February 28, 2021 15:00	2.86	0.77
February 28, 2021 16:00	2.85	0.76
February 28, 2021 17:00	2.76	0.68
February 28, 2021 18:00	2.70	0.63
February 28, 2021 19:00	2.77	0.66
February 28, 2021 20:00	2.79	0.65
February 28, 2021 21:00	2.69	0.64
February 28, 2021 22:00	2.61	0.62
February 28, 2021 23:00	2.53	0.65
March 1, 2021 0:00	2.50	0.58
March 1, 2021 1:00	2.43	0.58
March 1, 2021 2:00	2.37	0.59
March 1, 2021 3:00	2.36	0.59
March 1, 2021 4:00	2.42	0.59
March 1, 2021 5:00	2.69	0.60
March 1, 2021 6:00	3.25	0.83
March 1, 2021 7:00	3.73	0.96
March 1, 2021 8:00	4.00	1.15
March 1, 2021 9:00	4.35	1.31
March 1, 2021 10:00	4.39	1.25
March 1, 2021 11:00	4.57	1.26



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March 1, 2021 12:00	4.51	1.35
March 1, 2021 13:00	4.42	1.32
March 1, 2021 14:00	4.52	1.42
March 1, 2021 15:00	4.64	1.44
March 1, 2021 16:00	4.20	1.22
March 1, 2021 17:00	3.84	1.09
March 1, 2021 18:00	3.42	0.87
March 1, 2021 19:00	3.38	0.75
March 1, 2021 20:00	3.39	0.75
March 1, 2021 21:00	3.14	0.75
March 1, 2021 22:00	2.89	0.73
March 1, 2021 23:00	2.77	0.70
March 2, 2021 0:00	2.72	0.65
March 2, 2021 1:00	2.66	0.61
March 2, 2021 2:00	2.66	0.60
March 2, 2021 3:00	2.40	0.59
March 2, 2021 4:00	2.38	0.59
March 2, 2021 5:00	2.57	0.58
March 2, 2021 6:00	3.00	0.74
March 2, 2021 7:00	3.62	0.88
March 2, 2021 8:00	3.94	1.04
March 2, 2021 9:00	4.16	1.11
March 2, 2021 10:00	4.36	1.19
March 2, 2021 11:00	4.49	1.22
March 2, 2021 12:00	4.59	1.31
March 2, 2021 13:00	4.61	1.30
March 2, 2021 14:00	4.73	1.39
March 2, 2021 15:00	4.77	1.44
March 2, 2021 16:00	4.39	1.18
March 2, 2021 17:00	3.88	0.98
March 2, 2021 18:00	3.59	0.82
March 2, 2021 19:00	3.54	0.71
March 2, 2021 20:00	3.46	0.72
March 2, 2021 21:00	3.17	0.71
March 2, 2021 22:00	2.90	0.70
March 2, 2021 23:00	2.83	0.69
March 3, 2021 0:00	2.76	0.68
March 3, 2021 1:00	2.66	0.63
March 3, 2021 2:00	2.60	0.56
March 3, 2021 3:00	2.30	0.54
March 3, 2021 4:00	2.38	0.59
March 3, 2021 5:00	2.54	0.63
March 3, 2021 6:00	3.12	0.79
March 3, 2021 7:00	3.43	0.80
March 3, 2021 8:00	3.89	1.06
March 3, 2021 9:00	4.25	1.29
March 3, 2021 10:00	4.47	1.34
March 3, 2021 11:00	4.45	1.33
March 3, 2021 12:00	4.61	1.51
March 3, 2021 13:00	4.39	1.32
March 3, 2021 14:00	4.56	1.41
March 3, 2021 15:00	4.41	1.29
March 3, 2021 16:00	4.34	1.21
March 3, 2021 17:00	3.86	1.04
March 3, 2021 18:00	3.39	0.87
March 3, 2021 19:00	3.40	0.81
March 3, 2021 20:00	3.43	0.79
March 3, 2021 21:00	3.29	0.76
March 3, 2021 22:00	3.00	0.74
March 3, 2021 23:00	2.90	0.73
March 4, 2021 0:00	2.83	0.72
March 4, 2021 1:00	2.69	0.70
March 4, 2021 2:00	2.58	0.66
March 4, 2021 3:00	2.34	0.59
March 4, 2021 4:00	2.41	0.58



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March 4, 2021 5:00	2.60	0.58
March 4, 2021 6:00	3.11	0.79
March 4, 2021 7:00	3.52	0.86
March 4, 2021 8:00	3.99	1.20
March 4, 2021 9:00	4.33	1.32
March 4, 2021 10:00	4.33	1.33
March 4, 2021 11:00	4.47	1.33
March 4, 2021 12:00	4.44	1.35
March 4, 2021 13:00	4.34	1.30
March 4, 2021 14:00	4.51	1.44
March 4, 2021 15:00	4.40	1.38
March 4, 2021 16:00	4.04	1.11
March 4, 2021 17:00	3.86	1.09
March 4, 2021 18:00	3.43	0.96
March 4, 2021 19:00	3.44	0.92
March 4, 2021 20:00	3.51	0.89
March 4, 2021 21:00	3.28	0.86
March 4, 2021 22:00	2.97	0.83
March 4, 2021 23:00	2.87	0.80
March 5, 2021 0:00	2.81	0.77
March 5, 2021 1:00	2.73	0.73
March 5, 2021 2:00	2.60	0.67
March 5, 2021 3:00	2.27	0.60
March 5, 2021 4:00	2.34	0.58
March 5, 2021 5:00	2.52	0.56
March 5, 2021 6:00	2.83	0.70
March 5, 2021 7:00	3.15	0.71
March 5, 2021 8:00	3.40	0.85
March 5, 2021 9:00	3.72	0.98
March 5, 2021 10:00	4.03	1.07
March 5, 2021 11:00	4.30	1.21
March 5, 2021 12:00	4.12	1.20
March 5, 2021 13:00	4.11	1.23
March 5, 2021 14:00	4.20	1.28
March 5, 2021 15:00	4.18	1.28
March 5, 2021 16:00	3.87	1.11
March 5, 2021 17:00	3.54	1.02
March 5, 2021 18:00	3.28	0.94
March 5, 2021 19:00	3.23	0.79
March 5, 2021 20:00	3.36	0.80
March 5, 2021 21:00	3.11	0.76
March 5, 2021 22:00	2.76	0.71
March 5, 2021 23:00	2.66	0.68
March 6, 2021 0:00	2.62	0.69
March 6, 2021 1:00	2.56	0.67
March 6, 2021 2:00	2.57	0.64
March 6, 2021 3:00	2.38	0.63
March 6, 2021 4:00	2.35	0.61
March 6, 2021 5:00	2.45	0.60
March 6, 2021 6:00	2.80	0.79
March 6, 2021 7:00	3.12	0.90
March 6, 2021 8:00	3.04	0.92
March 6, 2021 9:00	3.32	0.97
March 6, 2021 10:00	3.48	1.00
March 6, 2021 11:00	3.49	0.94
March 6, 2021 12:00	3.50	0.96
March 6, 2021 13:00	3.49	0.94
March 6, 2021 14:00	3.33	0.81
March 6, 2021 15:00	3.15	0.76
March 6, 2021 16:00	3.02	0.70
March 6, 2021 17:00	2.81	0.65
March 6, 2021 18:00	2.73	0.66
March 6, 2021 19:00	2.82	0.63
March 6, 2021 20:00	2.83	0.64
March 6, 2021 21:00	2.77	0.66



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March 6, 2021 22:00	2.62	0.66
March 6, 2021 23:00	2.52	0.66
March 7, 2021 0:00	2.53	0.66
March 7, 2021 1:00	2.48	0.65
March 7, 2021 2:00	2.41	0.63
March 7, 2021 3:00	2.29	0.61
March 7, 2021 4:00	2.37	0.60
March 7, 2021 5:00	2.43	0.59
March 7, 2021 6:00	2.50	0.59
March 7, 2021 7:00	2.58	0.58
March 7, 2021 8:00	2.34	0.57
March 7, 2021 9:00	2.43	0.60
March 7, 2021 10:00	2.58	0.62
March 7, 2021 11:00	2.72	0.63
March 7, 2021 12:00	2.79	0.63
March 7, 2021 13:00	2.79	0.64
March 7, 2021 14:00	2.72	0.65
March 7, 2021 15:00	2.68	0.66
March 7, 2021 16:00	2.63	0.67
March 7, 2021 17:00	2.64	0.66
March 7, 2021 18:00	2.60	0.64
March 7, 2021 19:00	2.51	0.62
March 7, 2021 20:00	2.63	0.61
March 7, 2021 21:00	2.52	0.60
March 7, 2021 22:00	2.51	0.59
March 7, 2021 23:00	2.44	0.58
March 8, 2021 0:00	2.33	0.55
March 8, 2021 1:00	2.36	0.52
March 8, 2021 2:00	2.39	0.51
March 8, 2021 3:00	2.41	0.53
March 8, 2021 4:00	2.36	0.55
March 8, 2021 5:00	2.53	0.58
March 8, 2021 6:00	2.93	0.78
March 8, 2021 7:00	3.35	0.85
March 8, 2021 8:00	3.70	0.98
March 8, 2021 9:00	4.22	1.20
March 8, 2021 10:00	4.42	1.24
March 8, 2021 11:00	4.53	1.27
March 8, 2021 12:00	4.52	1.31
March 8, 2021 13:00	4.51	1.27
March 8, 2021 14:00	4.36	1.32
March 8, 2021 15:00	4.46	1.32
March 8, 2021 16:00	4.28	1.20
March 8, 2021 17:00	3.78	1.03
March 8, 2021 18:00	3.48	0.86
March 8, 2021 19:00	3.50	0.83
March 8, 2021 20:00	3.59	0.81
March 8, 2021 21:00	3.46	0.79
March 8, 2021 22:00	3.12	0.77
March 8, 2021 23:00	3.03	0.74
March 9, 2021 0:00	2.98	0.72
March 9, 2021 1:00	2.91	0.69
March 9, 2021 2:00	2.80	0.65
March 9, 2021 3:00	2.53	0.64
March 9, 2021 4:00	2.50	0.63
March 9, 2021 5:00	2.63	0.63
March 9, 2021 6:00	3.11	0.74
March 9, 2021 7:00	3.51	0.86
March 9, 2021 8:00	4.06	1.15
March 9, 2021 9:00	4.39	1.28
March 9, 2021 10:00	4.49	1.29
March 9, 2021 11:00	4.63	1.23
March 9, 2021 12:00	4.69	1.32
March 9, 2021 13:00	4.63	1.34
March 9, 2021 14:00	4.65	1.38



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March 9, 2021 15:00	4.52	1.36
March 9, 2021 16:00	4.25	1.10
March 9, 2021 17:00	3.81	0.98
March 9, 2021 18:00	3.53	0.88
March 9, 2021 19:00	3.37	0.79
March 9, 2021 20:00	3.60	0.78
March 9, 2021 21:00	3.32	0.76
March 9, 2021 22:00	3.04	0.71
March 9, 2021 23:00	3.03	0.66
March 10, 2021 0:00	2.97	0.63
March 10, 2021 1:00	2.88	0.60
March 10, 2021 2:00	2.72	0.57
March 10, 2021 3:00	0.25	0.04
March 10, 2021 4:00	2.44	0.55
March 10, 2021 5:00	2.66	0.63
March 10, 2021 6:00	3.17	0.86
March 10, 2021 7:00	3.67	0.97
March 10, 2021 8:00	4.04	1.17
March 10, 2021 9:00	4.55	1.32
March 10, 2021 10:00	4.74	1.33
March 10, 2021 11:00	4.80	1.36
March 10, 2021 12:00	4.64	1.30
March 10, 2021 13:00	4.63	1.25
March 10, 2021 14:00	4.80	1.40
March 10, 2021 15:00	4.62	1.30
March 10, 2021 16:00	4.34	1.12
March 10, 2021 17:00	3.81	0.96
March 10, 2021 18:00	3.60	0.90
March 10, 2021 19:00	3.64	0.91
March 10, 2021 20:00	3.61	0.92
March 10, 2021 21:00	3.44	0.90
March 10, 2021 22:00	3.13	0.90
March 10, 2021 23:00	3.08	0.88
March 11, 2021 0:00	3.01	0.85
March 11, 2021 1:00	2.91	0.82
March 11, 2021 2:00	2.76	0.78
March 11, 2021 3:00	2.50	0.70
March 11, 2021 4:00	2.53	0.72
March 11, 2021 5:00	2.68	0.73
March 11, 2021 6:00	3.12	0.89
March 11, 2021 7:00	3.54	0.98
March 11, 2021 8:00	3.77	1.10
March 11, 2021 9:00	4.43	1.35
March 11, 2021 10:00	4.55	1.34
March 11, 2021 11:00	4.64	1.36
March 11, 2021 12:00	4.59	1.38
March 11, 2021 13:00	4.48	1.28
March 11, 2021 14:00	4.62	1.36
March 11, 2021 15:00	4.43	1.27
March 11, 2021 16:00	4.09	1.11
March 11, 2021 17:00	3.64	1.04
March 11, 2021 18:00	3.30	0.92
March 11, 2021 19:00	3.30	0.90
March 11, 2021 20:00	3.39	0.86
March 11, 2021 21:00	3.25	0.85
March 11, 2021 22:00	2.99	0.84
March 11, 2021 23:00	2.87	0.84
March 12, 2021 0:00	2.85	0.80
March 12, 2021 1:00	2.75	0.70
March 12, 2021 2:00	2.70	0.73
March 12, 2021 3:00	2.44	0.70
March 12, 2021 4:00	2.45	0.67
March 12, 2021 5:00	2.60	0.65
March 12, 2021 6:00	2.90	0.70
March 12, 2021 7:00	3.55	0.99



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March 12, 2021 8:00	3.69	1.09
March 12, 2021 9:00	4.14	1.23
March 12, 2021 10:00	4.26	1.25
March 12, 2021 11:00	4.17	1.17
March 12, 2021 12:00	4.23	1.29
March 12, 2021 13:00	4.31	1.35
March 12, 2021 14:00	4.38	1.37
March 12, 2021 15:00	4.15	1.38
March 12, 2021 16:00	3.72	1.15
March 12, 2021 17:00	3.25	0.97
March 12, 2021 18:00	2.97	0.87
March 12, 2021 19:00	2.92	0.86
March 12, 2021 20:00	3.15	0.84
March 12, 2021 21:00	3.01	0.81
March 12, 2021 22:00	2.69	0.78
March 12, 2021 23:00	2.59	0.76
March 13, 2021 0:00	2.58	0.74
March 13, 2021 1:00	2.43	0.70
March 13, 2021 2:00	2.37	0.66
March 13, 2021 3:00	2.22	0.65
March 13, 2021 4:00	2.21	0.66
March 13, 2021 5:00	2.26	0.67
March 13, 2021 6:00	2.64	0.81
March 13, 2021 7:00	2.86	0.88
March 13, 2021 8:00	2.88	0.95
March 13, 2021 9:00	3.12	0.99
March 13, 2021 10:00	3.15	1.01
March 13, 2021 11:00	3.33	1.09
March 13, 2021 12:00	3.40	1.12
March 13, 2021 13:00	3.08	1.01
March 13, 2021 14:00	2.96	0.95
March 13, 2021 15:00	2.88	0.93
March 13, 2021 16:00	2.75	0.90
March 13, 2021 17:00	2.68	0.83
March 13, 2021 18:00	2.59	0.79
March 13, 2021 19:00	2.58	0.74
March 13, 2021 20:00	2.50	0.73
March 13, 2021 21:00	2.38	0.73
March 13, 2021 22:00	2.32	0.72
March 13, 2021 23:00	2.33	0.70
March 14, 2021 0:00	2.24	0.69
March 14, 2021 1:00	2.22	0.67
March 14, 2021 3:00	2.18	0.67
March 14, 2021 4:00	2.22	0.67
March 14, 2021 5:00	2.30	0.67
March 14, 2021 6:00	2.32	0.68
March 14, 2021 7:00	2.42	0.68
March 14, 2021 8:00	2.44	0.68
March 14, 2021 9:00	2.34	0.72
March 14, 2021 10:00	2.47	0.77
March 14, 2021 11:00	2.58	0.79
March 14, 2021 12:00	2.64	0.81
March 14, 2021 13:00	2.67	0.86
March 14, 2021 14:00	2.69	0.91
March 14, 2021 15:00	2.69	0.93
March 14, 2021 16:00	2.64	0.87
March 14, 2021 17:00	2.55	0.85
March 14, 2021 18:00	2.48	0.83
March 14, 2021 19:00	2.28	0.80
March 14, 2021 20:00	2.25	0.78
March 14, 2021 21:00	2.42	0.77
March 14, 2021 22:00	2.34	0.76
March 14, 2021 23:00	2.30	0.73
March 15, 2021 0:00	2.20	0.71
March 15, 2021 1:00	2.17	0.69



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March 15, 2021 2:00	2.19	0.68
March 15, 2021 3:00	2.14	0.68
March 15, 2021 4:00	2.17	0.68
March 15, 2021 5:00	2.36	0.68
March 15, 2021 6:00	2.73	0.76
March 15, 2021 7:00	3.18	0.95
March 15, 2021 8:00	3.85	1.10
March 15, 2021 9:00	4.37	1.32
March 15, 2021 10:00	4.45	1.32
March 15, 2021 11:00	4.56	1.38
March 15, 2021 12:00	4.67	1.39
March 15, 2021 13:00	4.49	1.28
March 15, 2021 14:00	4.62	1.34
March 15, 2021 15:00	4.56	1.33
March 15, 2021 16:00	4.11	1.12
March 15, 2021 17:00	3.67	1.01
March 15, 2021 18:00	3.32	0.89
March 15, 2021 19:00	3.02	0.81
March 15, 2021 20:00	3.00	0.74
March 15, 2021 21:00	3.17	0.74
March 15, 2021 22:00	2.97	0.77
March 15, 2021 23:00	2.88	0.76
March 16, 2021 0:00	2.80	0.75
March 16, 2021 1:00	2.58	0.74
March 16, 2021 2:00	2.50	0.73
March 16, 2021 3:00	2.48	0.72
March 16, 2021 4:00	2.47	0.72
March 16, 2021 5:00	2.62	0.72
March 16, 2021 6:00	3.20	0.93
March 16, 2021 7:00	3.74	1.05
March 16, 2021 8:00	4.21	1.19
March 16, 2021 9:00	4.32	1.35
March 16, 2021 10:00	4.42	1.28
March 16, 2021 11:00	4.48	1.28
March 16, 2021 12:00	4.47	1.33
March 16, 2021 13:00	4.33	1.24
March 16, 2021 14:00	4.77	1.55
March 16, 2021 15:00	4.67	1.56
March 16, 2021 16:00	4.23	1.30
March 16, 2021 17:00	3.79	1.10
March 16, 2021 18:00	3.29	1.02
March 16, 2021 19:00	3.11	0.97
March 16, 2021 20:00	3.13	0.92
March 16, 2021 21:00	3.23	0.87
March 16, 2021 22:00	3.00	0.87
March 16, 2021 23:00	2.87	0.83
March 17, 2021 0:00	2.79	0.78
March 17, 2021 1:00	2.49	0.67
March 17, 2021 2:00	2.47	0.68
March 17, 2021 3:00	2.40	0.69
March 17, 2021 4:00	2.35	0.68
March 17, 2021 5:00	2.48	0.68
March 17, 2021 6:00	2.97	0.82
March 17, 2021 7:00	3.45	0.95
March 17, 2021 8:00	3.87	1.05
March 17, 2021 9:00	3.97	1.07
March 17, 2021 10:00	4.09	1.06
March 17, 2021 11:00	4.33	1.13
March 17, 2021 12:00	4.27	1.18
March 17, 2021 13:00	4.37	1.18
March 17, 2021 14:00	4.46	1.34
March 17, 2021 15:00	4.45	1.41
March 17, 2021 16:00	4.27	1.32
March 17, 2021 17:00	3.69	1.09
March 17, 2021 18:00	3.44	1.05



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March 17, 2021 19:00	3.21	0.97
March 17, 2021 20:00	3.16	0.91
March 17, 2021 21:00	3.26	0.90
March 17, 2021 22:00	2.97	0.88
March 17, 2021 23:00	2.84	0.84
March 18, 2021 0:00	2.71	0.77
March 18, 2021 1:00	2.46	0.65
March 18, 2021 2:00	2.41	0.63
March 18, 2021 3:00	2.39	0.65
March 18, 2021 4:00	2.33	0.68
March 18, 2021 5:00	2.53	0.71
March 18, 2021 6:00	3.16	0.90
March 18, 2021 7:00	3.71	1.06
March 18, 2021 8:00	4.11	1.23
March 18, 2021 9:00	4.31	1.32
March 18, 2021 10:00	4.36	1.30
March 18, 2021 11:00	4.21	1.15
March 18, 2021 12:00	4.16	1.12
March 18, 2021 13:00	4.09	1.11
March 18, 2021 14:00	4.33	1.33
March 18, 2021 15:00	4.21	1.32
March 18, 2021 16:00	4.03	1.24
March 18, 2021 17:00	3.50	1.11
March 18, 2021 18:00	3.23	1.05
March 18, 2021 19:00	2.98	0.92
March 18, 2021 20:00	2.92	0.90
March 18, 2021 21:00	3.06	0.86
March 18, 2021 22:00	2.82	0.77
March 18, 2021 23:00	2.70	0.78
March 19, 2021 0:00	2.66	0.75
March 19, 2021 1:00	2.39	0.72
March 19, 2021 2:00	2.39	0.71
March 19, 2021 3:00	2.24	0.67
March 19, 2021 4:00	2.27	0.66
March 19, 2021 5:00	2.45	0.68
March 19, 2021 6:00	2.85	0.81
March 19, 2021 7:00	3.27	0.90
March 19, 2021 8:00	3.76	1.08
March 19, 2021 9:00	3.97	1.18
March 19, 2021 10:00	4.01	1.18
March 19, 2021 11:00	4.19	1.28
March 19, 2021 12:00	4.32	1.37
March 19, 2021 13:00	4.19	1.30
March 19, 2021 14:00	4.16	1.32
March 19, 2021 15:00	4.06	1.33
March 19, 2021 16:00	3.64	1.08
March 19, 2021 17:00	3.33	0.98
March 19, 2021 18:00	3.07	0.92
March 19, 2021 19:00	2.96	0.88
March 19, 2021 20:00	2.91	0.80
March 19, 2021 21:00	3.01	0.79
March 19, 2021 22:00	2.67	0.76
March 19, 2021 23:00	2.57	0.72
March 20, 2021 0:00	2.53	0.69
March 20, 2021 1:00	2.35	0.66
March 20, 2021 2:00	2.32	0.64
March 20, 2021 3:00	2.29	0.65
March 20, 2021 4:00	2.28	0.64
March 20, 2021 5:00	2.44	0.76
March 20, 2021 6:00	2.65	0.84
March 20, 2021 7:00	2.79	0.82
March 20, 2021 8:00	2.91	0.91
March 20, 2021 9:00	2.86	0.92
March 20, 2021 10:00	2.95	0.93
March 20, 2021 11:00	3.13	0.97



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March 20, 2021 12:00	3.12	1.00
March 20, 2021 13:00	2.91	0.91
March 20, 2021 14:00	2.86	0.91
March 20, 2021 15:00	2.81	0.92
March 20, 2021 16:00	2.70	0.92
March 20, 2021 17:00	2.52	0.87
March 20, 2021 18:00	2.49	0.80
March 20, 2021 19:00	2.36	0.74
March 20, 2021 20:00	2.26	0.70
March 20, 2021 21:00	2.55	0.67
March 20, 2021 22:00	2.46	0.69
March 20, 2021 23:00	2.33	0.66
March 21, 2021 0:00	2.33	0.64
March 21, 2021 1:00	2.34	0.66
March 21, 2021 2:00	2.34	0.67
March 21, 2021 3:00	2.29	0.68
March 21, 2021 4:00	2.28	0.69
March 21, 2021 5:00	2.34	0.65
March 21, 2021 6:00	2.38	0.64
March 21, 2021 7:00	2.44	0.64
March 21, 2021 8:00	2.46	0.63
March 21, 2021 9:00	2.33	0.63
March 21, 2021 10:00	2.40	0.63
March 21, 2021 11:00	2.55	0.64
March 21, 2021 12:00	2.56	0.65
March 21, 2021 13:00	2.53	0.67
March 21, 2021 14:00	2.58	0.68
March 21, 2021 15:00	2.53	0.70
March 21, 2021 16:00	2.51	0.71
March 21, 2021 17:00	2.51	0.70
March 21, 2021 18:00	2.40	0.69
March 21, 2021 19:00	2.28	0.70
March 21, 2021 20:00	2.27	0.69
March 21, 2021 21:00	2.44	0.67
March 21, 2021 22:00	2.40	0.66
March 21, 2021 23:00	2.34	0.65
March 22, 2021 0:00	2.30	0.64
March 22, 2021 1:00	2.23	0.63
March 22, 2021 2:00	2.23	0.63
March 22, 2021 3:00	2.21	0.63
March 22, 2021 4:00	2.25	0.63
March 22, 2021 5:00	2.34	0.63
March 22, 2021 6:00	2.77	0.79
March 22, 2021 7:00	3.29	0.94
March 22, 2021 8:00	3.84	1.17
March 22, 2021 9:00	4.06	1.17
March 22, 2021 10:00	4.20	1.16
March 22, 2021 11:00	4.36	1.26
March 22, 2021 12:00	4.47	1.39
March 22, 2021 13:00	4.33	1.29
March 22, 2021 14:00	4.45	1.37
March 22, 2021 15:00	4.33	1.31
March 22, 2021 16:00	3.99	1.04
March 22, 2021 17:00	3.47	0.98
March 22, 2021 18:00	3.26	0.92
March 22, 2021 19:00	3.14	0.89
March 22, 2021 20:00	3.15	0.79
March 22, 2021 21:00	3.16	0.78
March 22, 2021 22:00	2.91	0.77
March 22, 2021 23:00	2.77	0.79
March 23, 2021 0:00	2.71	0.75
March 23, 2021 1:00	2.46	0.65
March 23, 2021 2:00	2.43	0.64
March 23, 2021 3:00	2.37	0.66
March 23, 2021 4:00	2.29	0.68



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March 23, 2021 5:00	2.42	0.70
March 23, 2021 6:00	2.97	0.85
March 23, 2021 7:00	3.48	0.93
March 23, 2021 8:00	3.97	1.15
March 23, 2021 9:00	4.36	1.32
March 23, 2021 10:00	4.56	1.33
March 23, 2021 11:00	4.71	1.38
March 23, 2021 12:00	4.76	1.40
March 23, 2021 13:00	4.60	1.38
March 23, 2021 14:00	4.57	1.36
March 23, 2021 15:00	4.47	1.38
March 23, 2021 16:00	4.01	1.11
March 23, 2021 17:00	3.45	0.98
March 23, 2021 18:00	3.29	0.91
March 23, 2021 19:00	3.18	0.92
March 23, 2021 20:00	3.08	0.89
March 23, 2021 21:00	3.21	0.86
March 23, 2021 22:00	2.99	0.87
March 23, 2021 23:00	2.88	0.89
March 24, 2021 0:00	2.80	0.80
March 24, 2021 1:00	2.52	0.66
March 24, 2021 2:00	2.46	0.63
March 24, 2021 3:00	2.43	0.64
March 24, 2021 4:00	2.36	0.65
March 24, 2021 5:00	2.45	0.67
March 24, 2021 6:00	2.93	0.81
March 24, 2021 7:00	3.47	1.02
March 24, 2021 8:00	3.95	1.17
March 24, 2021 9:00	4.13	1.22
March 24, 2021 10:00	4.30	1.25
March 24, 2021 11:00	4.28	1.24
March 24, 2021 12:00	4.20	1.13
March 24, 2021 13:00	4.24	1.13
March 24, 2021 14:00	4.27	1.16
March 24, 2021 15:00	4.24	1.21
March 24, 2021 16:00	3.98	1.13
March 24, 2021 17:00	3.54	0.98
March 24, 2021 18:00	3.19	0.95
March 24, 2021 19:00	3.07	0.91
March 24, 2021 20:00	3.01	0.87
March 24, 2021 21:00	3.13	0.84
March 24, 2021 22:00	2.87	0.81
March 24, 2021 23:00	2.79	0.78
March 25, 2021 0:00	2.76	0.73
March 25, 2021 1:00	2.50	0.68
March 25, 2021 2:00	2.46	0.68
March 25, 2021 3:00	2.34	0.66
March 25, 2021 4:00	2.36	0.67
March 25, 2021 5:00	2.51	0.68
March 25, 2021 6:00	3.00	0.83
March 25, 2021 7:00	3.46	0.99
March 25, 2021 8:00	4.03	1.11
March 25, 2021 9:00	4.33	1.28
March 25, 2021 10:00	4.52	1.30
March 25, 2021 11:00	4.54	1.38
March 25, 2021 12:00	4.68	1.35
March 25, 2021 13:00	4.61	1.33
March 25, 2021 14:00	4.51	1.32
March 25, 2021 15:00	4.52	1.35
March 25, 2021 16:00	4.00	1.08
March 25, 2021 17:00	3.70	1.01
March 25, 2021 18:00	3.47	0.96
March 25, 2021 19:00	3.17	0.89
March 25, 2021 20:00	3.10	0.84
March 25, 2021 21:00	3.27	0.82



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March 25, 2021 22:00	3.03	0.85
March 25, 2021 23:00	2.89	0.88
March 26, 2021 0:00	2.81	0.80
March 26, 2021 1:00	2.54	0.74
March 26, 2021 2:00	2.48	0.72
March 26, 2021 3:00	2.44	0.70
March 26, 2021 4:00	2.32	0.69
March 26, 2021 5:00	2.44	0.71
March 26, 2021 6:00	3.05	0.86
March 26, 2021 7:00	3.53	0.95
March 26, 2021 8:00	3.82	1.09
March 26, 2021 9:00	3.97	1.14
March 26, 2021 10:00	4.20	1.19
March 26, 2021 11:00	4.38	1.31
March 26, 2021 12:00	4.55	1.37
March 26, 2021 13:00	4.47	1.29
March 26, 2021 14:00	4.48	1.34
March 26, 2021 15:00	4.26	1.30
March 26, 2021 16:00	3.87	1.14
March 26, 2021 17:00	3.53	0.99
March 26, 2021 18:00	3.23	0.88
March 26, 2021 19:00	3.07	0.84
March 26, 2021 20:00	3.11	0.83
March 26, 2021 21:00	3.28	0.83
March 26, 2021 22:00	3.04	0.91
March 26, 2021 23:00	2.93	0.90
March 27, 2021 0:00	2.84	0.83
March 27, 2021 1:00	2.49	0.71
March 27, 2021 2:00	2.45	0.70
March 27, 2021 3:00	2.43	0.71
March 27, 2021 4:00	2.42	0.73
March 27, 2021 5:00	2.45	0.75
March 27, 2021 6:00	2.73	0.76
March 27, 2021 7:00	3.04	0.89
March 27, 2021 8:00	3.04	0.90
March 27, 2021 9:00	3.15	0.97
March 27, 2021 10:00	3.23	0.97
March 27, 2021 11:00	3.35	0.98
March 27, 2021 12:00	3.34	1.01
March 27, 2021 13:00	2.93	0.87
March 27, 2021 14:00	2.96	0.89
March 27, 2021 15:00	2.87	0.92
March 27, 2021 16:00	2.80	0.93
March 27, 2021 17:00	2.74	0.91
March 27, 2021 18:00	2.69	0.89
March 27, 2021 19:00	2.49	0.88
March 27, 2021 20:00	2.35	0.81
March 27, 2021 21:00	2.48	0.70
March 27, 2021 22:00	2.44	0.69
March 27, 2021 23:00	2.34	0.67
March 28, 2021 0:00	2.30	0.66
March 28, 2021 1:00	2.30	0.66
March 28, 2021 2:00	2.30	0.65
March 28, 2021 3:00	2.23	0.65
March 28, 2021 4:00	2.29	0.67
March 28, 2021 5:00	2.32	0.67
March 28, 2021 6:00	2.40	0.67
March 28, 2021 7:00	2.47	0.66
March 28, 2021 8:00	2.35	0.66
March 28, 2021 9:00	2.42	0.78
March 28, 2021 10:00	2.53	0.80
March 28, 2021 11:00	2.66	0.83
March 28, 2021 12:00	2.72	0.86
March 28, 2021 13:00	2.70	0.86
March 28, 2021 14:00	2.65	0.82



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March 28, 2021 15:00	2.58	0.83
March 28, 2021 16:00	2.59	0.84
March 28, 2021 17:00	2.61	0.84
March 28, 2021 18:00	2.59	0.81
March 28, 2021 19:00	2.34	0.74
March 28, 2021 20:00	2.26	0.72
March 28, 2021 21:00	2.50	0.71
March 28, 2021 22:00	2.55	0.69
March 28, 2021 23:00	2.51	0.66
March 29, 2021 0:00	2.42	0.66
March 29, 2021 1:00	2.38	0.67
March 29, 2021 2:00	2.40	0.62
March 29, 2021 3:00	2.39	0.63
March 29, 2021 4:00	2.48	0.67
March 29, 2021 5:00	2.61	0.70
March 29, 2021 6:00	3.11	0.76
March 29, 2021 7:00	3.62	0.88
March 29, 2021 8:00	4.01	1.03
March 29, 2021 9:00	4.20	1.16
March 29, 2021 10:00	4.51	1.24
March 29, 2021 11:00	4.50	1.21
March 29, 2021 12:00	4.58	1.32
March 29, 2021 13:00	4.39	1.20
March 29, 2021 14:00	4.50	1.34
March 29, 2021 15:00	4.52	1.36
March 29, 2021 16:00	4.23	1.21
March 29, 2021 17:00	3.72	0.99
March 29, 2021 18:00	3.52	0.92
March 29, 2021 19:00	3.37	0.88
March 29, 2021 20:00	3.16	0.84
March 29, 2021 21:00	3.27	0.76
March 29, 2021 22:00	3.05	0.79
March 29, 2021 23:00	2.91	0.81
March 30, 2021 0:00	2.84	0.78
March 30, 2021 1:00	2.67	0.76
March 30, 2021 2:00	2.63	0.73
March 30, 2021 3:00	2.47	0.70
March 30, 2021 4:00	2.43	0.69
March 30, 2021 5:00	2.62	0.73
March 30, 2021 6:00	3.04	0.78
March 30, 2021 7:00	3.52	0.91
March 30, 2021 8:00	3.85	1.06
March 30, 2021 9:00	4.18	1.25
March 30, 2021 10:00	4.48	1.29
March 30, 2021 11:00	4.55	1.29
March 30, 2021 12:00	4.52	1.31
March 30, 2021 13:00	4.37	1.21
March 30, 2021 14:00	4.40	1.23
March 30, 2021 15:00	4.45	1.27
March 30, 2021 16:00	4.22	1.24
March 30, 2021 17:00	4.05	1.23
March 30, 2021 18:00	3.73	1.13
March 30, 2021 19:00	3.36	1.01
March 30, 2021 20:00	3.19	0.99
March 30, 2021 21:00	3.19	0.89
March 30, 2021 22:00	3.08	0.86
March 30, 2021 23:00	2.96	0.84
March 31, 2021 0:00	2.83	0.82
March 31, 2021 1:00	2.57	0.72
March 31, 2021 2:00	2.52	0.66
March 31, 2021 3:00	2.41	0.63
March 31, 2021 4:00	2.40	0.65
March 31, 2021 5:00	2.61	0.70
March 31, 2021 6:00	3.00	0.78
March 31, 2021 7:00	3.49	0.86



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March 31, 2021 8:00	3.77	1.04
March 31, 2021 9:00	3.94	1.20
March 31, 2021 10:00	4.40	1.33
March 31, 2021 11:00	4.51	1.39
March 31, 2021 12:00	4.71	1.45
March 31, 2021 13:00	4.53	1.35
March 31, 2021 14:00	4.50	1.42
March 31, 2021 15:00	4.38	1.41
March 31, 2021 16:00	4.24	1.34
March 31, 2021 17:00	3.73	1.14
March 31, 2021 18:00	3.47	1.12
March 31, 2021 19:00	3.28	1.09
March 31, 2021 20:00	3.15	0.96
March 31, 2021 21:00	3.18	0.90
March 31, 2021 22:00	2.92	0.89
March 31, 2021 23:00	2.81	0.88
April 1, 2021 0:00	2.70	0.84
April 1, 2021 1:00	2.40	0.71
April 1, 2021 2:00	2.41	0.70
April 1, 2021 3:00	2.34	0.72
April 1, 2021 4:00	2.34	0.73
April 1, 2021 5:00	2.48	0.75
April 1, 2021 6:00	2.88	0.76
April 1, 2021 7:00	3.30	0.87
April 1, 2021 8:00	3.65	1.02
April 1, 2021 9:00	4.01	1.17
April 1, 2021 10:00	4.32	1.28
April 1, 2021 11:00	4.27	1.32
April 1, 2021 12:00	4.38	1.37
April 1, 2021 13:00	4.26	1.34
April 1, 2021 14:00	4.40	1.43
April 1, 2021 15:00	4.43	1.46
April 1, 2021 16:00	3.98	1.34
April 1, 2021 17:00	3.41	1.08
April 1, 2021 18:00	3.14	1.00
April 1, 2021 19:00	2.96	0.98
April 1, 2021 20:00	2.92	0.95
April 1, 2021 21:00	3.03	0.90
April 1, 2021 22:00	2.83	0.88
April 1, 2021 23:00	2.72	0.86
April 2, 2021 0:00	2.65	0.81
April 2, 2021 1:00	2.35	0.69
April 2, 2021 2:00	2.31	0.66
April 2, 2021 3:00	2.28	0.67
April 2, 2021 4:00	2.22	0.67
April 2, 2021 5:00	2.24	0.67
April 2, 2021 6:00	2.44	0.70
April 2, 2021 7:00	2.61	0.71
April 2, 2021 8:00	2.51	0.71
April 2, 2021 9:00	2.42	0.74
April 2, 2021 10:00	2.56	0.77
April 2, 2021 11:00	2.78	0.82
April 2, 2021 12:00	2.78	0.85
April 2, 2021 13:00	2.79	0.83
April 2, 2021 14:00	2.91	0.91
April 2, 2021 15:00	2.87	0.96
April 2, 2021 16:00	2.77	0.94
April 2, 2021 17:00	2.67	0.89
April 2, 2021 18:00	2.37	0.86
April 2, 2021 19:00	2.29	0.81
April 2, 2021 20:00	2.18	0.76
April 2, 2021 21:00	2.35	0.74
April 2, 2021 22:00	2.30	0.71
April 2, 2021 23:00	2.21	0.66
April 3, 2021 0:00	2.18	0.63



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April 3, 2021 1:00	2.17	0.64
April 3, 2021 2:00	2.21	0.66
April 3, 2021 3:00	2.14	0.68
April 3, 2021 4:00	2.15	0.69
April 3, 2021 5:00	2.23	0.69
April 3, 2021 6:00	2.36	0.69
April 3, 2021 7:00	2.39	0.68
April 3, 2021 8:00	2.28	0.68
April 3, 2021 9:00	2.24	0.68
April 3, 2021 10:00	2.33	0.67
April 3, 2021 11:00	2.52	0.67
April 3, 2021 12:00	2.60	0.70
April 3, 2021 13:00	2.63	0.74
April 3, 2021 14:00	2.64	0.79
April 3, 2021 15:00	2.63	0.79
April 3, 2021 16:00	2.55	0.79
April 3, 2021 17:00	2.52	0.78
April 3, 2021 18:00	2.47	0.78
April 3, 2021 19:00	2.25	0.75
April 3, 2021 20:00	2.11	0.70
April 3, 2021 21:00	2.23	0.69
April 3, 2021 22:00	2.25	0.66
April 3, 2021 23:00	2.18	0.62
April 4, 2021 0:00	2.15	0.63
April 4, 2021 1:00	2.07	0.64
April 4, 2021 2:00	2.11	0.65
April 4, 2021 3:00	2.09	0.65
April 4, 2021 4:00	2.12	0.65
April 4, 2021 5:00	2.19	0.65
April 4, 2021 6:00	2.25	0.65
April 4, 2021 7:00	2.28	0.63
April 4, 2021 8:00	2.02	0.61
April 4, 2021 9:00	2.32	0.83
April 4, 2021 10:00	3.58	1.24
April 4, 2021 11:00	3.75	1.30
April 4, 2021 12:00	3.84	1.31
April 4, 2021 13:00	3.89	1.31
April 4, 2021 14:00	3.20	1.11
April 4, 2021 15:00	1.97	0.76
April 4, 2021 16:00	2.10	0.74
April 4, 2021 17:00	2.26	0.71
April 4, 2021 18:00	2.15	0.69
April 4, 2021 19:00	2.02	0.68
April 4, 2021 20:00	1.94	0.68
April 4, 2021 21:00	2.17	0.67
April 4, 2021 22:00	2.26	0.69
April 4, 2021 23:00	2.24	0.68
April 5, 2021 0:00	2.23	0.66
April 5, 2021 1:00	2.19	0.62
April 5, 2021 2:00	2.21	0.62
April 5, 2021 3:00	2.23	0.62
April 5, 2021 4:00	2.25	0.63
April 5, 2021 5:00	2.35	0.63
April 5, 2021 6:00	2.79	0.78
April 5, 2021 7:00	3.17	0.74
April 5, 2021 8:00	3.45	0.88
April 5, 2021 9:00	3.84	1.08
April 5, 2021 10:00	4.04	1.15
April 5, 2021 11:00	4.04	1.17
April 5, 2021 12:00	3.97	1.17
April 5, 2021 13:00	3.98	1.15
April 5, 2021 14:00	4.12	1.28
April 5, 2021 15:00	4.12	1.30
April 5, 2021 16:00	3.65	1.10
April 5, 2021 17:00	3.48	1.05



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April 5, 2021 18:00	3.23	1.04
April 5, 2021 19:00	2.95	1.01
April 5, 2021 20:00	2.86	0.98
April 5, 2021 21:00	2.94	0.94
April 5, 2021 22:00	2.78	0.91
April 5, 2021 23:00	2.70	0.87
April 6, 2021 0:00	2.59	0.81
April 6, 2021 1:00	2.34	0.68
April 6, 2021 2:00	2.36	0.69
April 6, 2021 3:00	2.30	0.68
April 6, 2021 4:00	2.25	0.68
April 6, 2021 5:00	2.42	0.70
April 6, 2021 6:00	3.09	0.88
April 6, 2021 7:00	3.47	1.01
April 6, 2021 8:00	3.76	1.15
April 6, 2021 9:00	4.16	1.29
April 6, 2021 10:00	4.26	1.26
April 6, 2021 11:00	4.30	1.38
April 6, 2021 12:00	4.21	1.30
April 6, 2021 13:00	4.07	1.16
April 6, 2021 14:00	4.23	1.29
April 6, 2021 15:00	4.17	1.30
April 6, 2021 16:00	3.90	1.24
April 6, 2021 17:00	3.59	1.16
April 6, 2021 18:00	3.31	1.10
April 6, 2021 19:00	3.10	1.05
April 6, 2021 20:00	3.03	1.00
April 6, 2021 21:00	3.03	0.98
April 6, 2021 22:00	2.93	0.94
April 6, 2021 23:00	2.80	0.89
April 7, 2021 0:00	2.68	0.81
April 7, 2021 1:00	2.38	0.67
April 7, 2021 2:00	2.32	0.66
April 7, 2021 3:00	2.21	0.67
April 7, 2021 4:00	2.22	0.69
April 7, 2021 5:00	2.39	0.70
April 7, 2021 6:00	2.73	0.71
April 7, 2021 7:00	3.18	0.85
April 7, 2021 8:00	3.70	1.17
April 7, 2021 9:00	4.11	1.23
April 7, 2021 10:00	4.36	1.26
April 7, 2021 11:00	4.63	1.46
April 7, 2021 12:00	4.72	1.55
April 7, 2021 13:00	4.54	1.49
April 7, 2021 14:00	4.58	1.54
April 7, 2021 15:00	4.51	1.56
April 7, 2021 16:00	4.12	1.33
April 7, 2021 17:00	3.78	1.19
April 7, 2021 18:00	3.19	1.02
April 7, 2021 19:00	2.97	0.95
April 7, 2021 20:00	2.91	0.90
April 7, 2021 21:00	2.93	0.88
April 7, 2021 22:00	2.82	0.88
April 7, 2021 23:00	2.75	0.88
April 8, 2021 0:00	2.68	0.82
April 8, 2021 1:00	2.35	0.71
April 8, 2021 2:00	2.33	0.68
April 8, 2021 3:00	2.21	0.66
April 8, 2021 4:00	2.16	0.67
April 8, 2021 5:00	2.37	0.69
April 8, 2021 6:00	2.76	0.73
April 8, 2021 7:00	3.21	0.92
April 8, 2021 8:00	3.79	1.19
April 8, 2021 9:00	4.17	1.25
April 8, 2021 10:00	4.45	1.26



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April 8, 2021 11:00	4.62	1.29
April 8, 2021 12:00	4.61	1.32
April 8, 2021 13:00	4.48	1.23
April 8, 2021 14:00	4.52	1.31
April 8, 2021 15:00	4.50	1.30
April 8, 2021 16:00	4.07	1.10
April 8, 2021 17:00	3.63	0.97
April 8, 2021 18:00	3.24	0.92
April 8, 2021 19:00	3.00	0.90
April 8, 2021 20:00	2.94	0.88
April 8, 2021 21:00	3.00	0.84
April 8, 2021 22:00	2.99	0.86
April 8, 2021 23:00	2.95	0.86
April 9, 2021 0:00	2.78	0.82
April 9, 2021 1:00	2.49	0.73
April 9, 2021 2:00	2.40	0.67
April 9, 2021 3:00	2.33	0.68
April 9, 2021 4:00	2.31	0.69
April 9, 2021 5:00	2.41	0.70
April 9, 2021 6:00	2.79	0.79
April 9, 2021 7:00	2.98	0.74
April 9, 2021 8:00	3.29	0.86
April 9, 2021 9:00	3.87	1.11
April 9, 2021 10:00	4.12	1.17
April 9, 2021 11:00	4.14	1.21
April 9, 2021 12:00	4.17	1.19
April 9, 2021 13:00	4.00	1.12
April 9, 2021 14:00	4.00	1.06
April 9, 2021 15:00	3.94	1.09
April 9, 2021 16:00	3.57	1.05
April 9, 2021 17:00	3.20	1.02
April 9, 2021 18:00	2.91	0.96
April 9, 2021 19:00	2.66	0.87
April 9, 2021 20:00	2.52	0.79
April 9, 2021 21:00	2.52	0.73
April 9, 2021 22:00	2.48	0.70
April 9, 2021 23:00	2.39	0.68
April 10, 2021 0:00	2.34	0.66
April 10, 2021 1:00	2.24	0.63
April 10, 2021 2:00	2.24	0.63
April 10, 2021 3:00	2.21	0.65
April 10, 2021 4:00	2.22	0.66
April 10, 2021 5:00	2.27	0.66
April 10, 2021 6:00	2.44	0.67
April 10, 2021 7:00	2.73	0.84
April 10, 2021 8:00	2.71	0.91
April 10, 2021 9:00	2.92	0.97
April 10, 2021 10:00	3.01	0.95
April 10, 2021 11:00	3.12	0.97
April 10, 2021 12:00	3.14	0.98
April 10, 2021 13:00	2.97	0.90
April 10, 2021 14:00	2.81	0.84
April 10, 2021 15:00	2.67	0.80
April 10, 2021 16:00	2.62	0.79
April 10, 2021 17:00	2.57	0.76
April 10, 2021 18:00	2.50	0.72
April 10, 2021 19:00	2.38	0.70
April 10, 2021 20:00	2.33	0.71
April 10, 2021 21:00	2.49	0.67
April 10, 2021 22:00	2.52	0.65
April 10, 2021 23:00	2.38	0.63
April 11, 2021 0:00	2.33	0.63
April 11, 2021 1:00	2.29	0.63
April 11, 2021 2:00	2.29	0.63
April 11, 2021 3:00	2.29	0.63



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April 11, 2021 4:00	2.34	0.63
April 11, 2021 5:00	2.34	0.66
April 11, 2021 6:00	2.45	0.67
April 11, 2021 7:00	2.45	0.65
April 11, 2021 8:00	2.23	0.65
April 11, 2021 9:00	2.39	0.68
April 11, 2021 10:00	2.57	0.69
April 11, 2021 11:00	2.71	0.72
April 11, 2021 12:00	2.79	0.77
April 11, 2021 13:00	2.57	0.75
April 11, 2021 14:00	2.57	0.75
April 11, 2021 15:00	2.61	0.78
April 11, 2021 16:00	2.64	0.80
April 11, 2021 17:00	2.56	0.78
April 11, 2021 18:00	2.41	0.78
April 11, 2021 19:00	2.17	0.69
April 11, 2021 20:00	2.11	0.67
April 11, 2021 21:00	2.24	0.67
April 11, 2021 22:00	2.36	0.69
April 11, 2021 23:00	2.28	0.69
April 12, 2021 0:00	2.28	0.69
April 12, 2021 1:00	2.21	0.69
April 12, 2021 2:00	2.19	0.69
April 12, 2021 3:00	2.21	0.70
April 12, 2021 4:00	2.25	0.71
April 12, 2021 5:00	2.37	0.72
April 12, 2021 6:00	2.98	0.81
April 12, 2021 7:00	3.53	0.97
April 12, 2021 8:00	3.75	1.11
April 12, 2021 9:00	4.11	1.15
April 12, 2021 10:00	4.30	1.24
April 12, 2021 11:00	4.47	1.31
April 12, 2021 12:00	4.56	1.33
April 12, 2021 13:00	4.47	1.28
April 12, 2021 14:00	4.70	1.38
April 12, 2021 15:00	4.53	1.34
April 12, 2021 16:00	4.08	1.15
April 12, 2021 17:00	3.58	0.96
April 12, 2021 18:00	3.21	0.89
April 12, 2021 19:00	3.04	0.85
April 12, 2021 20:00	2.88	0.77
April 12, 2021 21:00	2.82	0.71
April 12, 2021 22:00	2.81	0.70
April 12, 2021 23:00	2.75	0.70
April 13, 2021 0:00	2.70	0.67
April 13, 2021 1:00	2.45	0.63
April 13, 2021 2:00	2.43	0.65
April 13, 2021 3:00	2.36	0.66
April 13, 2021 4:00	2.36	0.66
April 13, 2021 5:00	2.50	0.69
April 13, 2021 6:00	2.98	0.84
April 13, 2021 7:00	3.37	0.98
April 13, 2021 8:00	3.78	1.14
April 13, 2021 9:00	4.45	1.37
April 13, 2021 10:00	4.58	1.36
April 13, 2021 11:00	4.49	1.37
April 13, 2021 12:00	4.45	1.34
April 13, 2021 13:00	4.46	1.32
April 13, 2021 14:00	4.54	1.37
April 13, 2021 15:00	4.57	1.45
April 13, 2021 16:00	4.11	1.23
April 13, 2021 17:00	3.63	1.06
April 13, 2021 18:00	3.25	1.03
April 13, 2021 19:00	3.08	0.99
April 13, 2021 20:00	2.96	0.94



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April 13, 2021 21:00	2.81	0.80
April 13, 2021 22:00	2.75	0.75
April 13, 2021 23:00	2.70	0.73
April 14, 2021 0:00	2.67	0.70
April 14, 2021 1:00	2.43	0.69
April 14, 2021 2:00	2.40	0.68
April 14, 2021 3:00	2.24	0.68
April 14, 2021 4:00	2.23	0.67
April 14, 2021 5:00	2.34	0.67
April 14, 2021 6:00	2.94	0.82
April 14, 2021 7:00	3.30	0.98
April 14, 2021 8:00	3.70	1.18
April 14, 2021 9:00	4.25	1.26
April 14, 2021 10:00	4.22	1.29
April 14, 2021 11:00	4.42	1.37
April 14, 2021 12:00	4.57	1.43
April 14, 2021 13:00	4.41	1.31
April 14, 2021 14:00	4.47	1.42
April 14, 2021 15:00	4.46	1.50
April 14, 2021 16:00	4.23	1.33
April 14, 2021 17:00	3.76	1.24
April 14, 2021 18:00	3.30	1.13
April 14, 2021 19:00	3.14	1.09
April 14, 2021 20:00	2.97	1.07
April 14, 2021 21:00	2.89	0.97
April 14, 2021 22:00	2.84	0.90
April 14, 2021 23:00	2.76	0.88
April 15, 2021 0:00	2.67	0.80
April 15, 2021 1:00	2.31	0.63
April 15, 2021 2:00	2.31	0.62
April 15, 2021 3:00	2.24	0.63
April 15, 2021 4:00	2.22	0.63
April 15, 2021 5:00	2.34	0.67
April 15, 2021 6:00	2.76	0.77
April 15, 2021 7:00	3.12	0.92
April 15, 2021 8:00	3.54	1.10
April 15, 2021 9:00	4.14	1.28
April 15, 2021 10:00	4.34	1.34
April 15, 2021 11:00	4.38	1.40
April 15, 2021 12:00	4.37	1.44
April 15, 2021 13:00	4.38	1.45
April 15, 2021 14:00	4.42	1.48
April 15, 2021 15:00	4.45	1.49
April 15, 2021 16:00	3.99	1.22
April 15, 2021 17:00	3.72	1.18
April 15, 2021 18:00	3.15	0.98
April 15, 2021 19:00	2.98	0.95
April 15, 2021 20:00	2.80	0.86
April 15, 2021 21:00	2.68	0.80
April 15, 2021 22:00	2.72	0.76
April 15, 2021 23:00	2.61	0.72
April 16, 2021 0:00	2.56	0.70
April 16, 2021 1:00	2.32	0.68
April 16, 2021 2:00	2.20	0.66
April 16, 2021 3:00	2.18	0.65
April 16, 2021 4:00	2.27	0.67
April 16, 2021 5:00	2.39	0.70
April 16, 2021 6:00	2.78	0.84
April 16, 2021 7:00	3.03	0.85
April 16, 2021 8:00	3.39	1.06
April 16, 2021 9:00	3.87	1.17
April 16, 2021 10:00	4.13	1.22
April 16, 2021 11:00	4.17	1.29
April 16, 2021 12:00	4.20	1.30
April 16, 2021 13:00	4.08	1.24



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April 16, 2021 14:00	3.91	1.15
April 16, 2021 15:00	3.73	1.08
April 16, 2021 16:00	3.43	1.05
April 16, 2021 17:00	3.07	1.04
April 16, 2021 18:00	2.87	0.99
April 16, 2021 19:00	2.68	0.91
April 16, 2021 20:00	2.53	0.84
April 16, 2021 21:00	2.52	0.80
April 16, 2021 22:00	2.58	0.77
April 16, 2021 23:00	2.48	0.73
April 17, 2021 0:00	2.37	0.69
April 17, 2021 1:00	2.23	0.62
April 17, 2021 2:00	2.23	0.61
April 17, 2021 3:00	2.19	0.60
April 17, 2021 4:00	2.16	0.61
April 17, 2021 5:00	2.27	0.64
April 17, 2021 6:00	2.57	0.84
April 17, 2021 7:00	2.70	0.86
April 17, 2021 8:00	2.53	0.84
April 17, 2021 9:00	2.67	0.88
April 17, 2021 10:00	2.83	0.90
April 17, 2021 11:00	2.98	0.96
April 17, 2021 12:00	2.79	0.84
April 17, 2021 13:00	2.85	0.88
April 17, 2021 14:00	2.84	0.92
April 17, 2021 15:00	2.79	0.91
April 17, 2021 16:00	2.80	0.88
April 17, 2021 17:00	2.70	0.86
April 17, 2021 18:00	2.57	0.85
April 17, 2021 19:00	2.37	0.81
April 17, 2021 20:00	2.14	0.76
April 17, 2021 21:00	2.19	0.71
April 17, 2021 22:00	2.33	0.71
April 17, 2021 23:00	2.22	0.70
April 18, 2021 0:00	2.17	0.68
April 18, 2021 1:00	2.16	0.65
April 18, 2021 2:00	2.09	0.61
April 18, 2021 3:00	2.15	0.63
April 18, 2021 4:00	2.18	0.65
April 18, 2021 5:00	2.25	0.67
April 18, 2021 6:00	2.34	0.68
April 18, 2021 7:00	2.36	0.69
April 18, 2021 8:00	2.22	0.66
April 18, 2021 9:00	2.28	0.64
April 18, 2021 10:00	2.50	0.69
April 18, 2021 11:00	2.62	0.73
April 18, 2021 12:00	2.80	0.74
April 18, 2021 13:00	2.69	0.70
April 18, 2021 14:00	2.69	0.68
April 18, 2021 15:00	2.67	0.69
April 18, 2021 16:00	2.66	0.70
April 18, 2021 17:00	2.68	0.70
April 18, 2021 18:00	2.59	0.69
April 18, 2021 19:00	2.39	0.66
April 18, 2021 20:00	2.21	0.63
April 18, 2021 21:00	2.20	0.61
April 18, 2021 22:00	2.45	0.61
April 18, 2021 23:00	2.34	0.62
April 19, 2021 0:00	2.32	0.62
April 19, 2021 1:00	2.25	0.60
April 19, 2021 2:00	2.26	0.61
April 19, 2021 3:00	2.31	0.64
April 19, 2021 4:00	2.29	0.66
April 19, 2021 5:00	2.43	0.67
April 19, 2021 6:00	3.07	0.87



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April 19, 2021 7:00	3.46	1.02
April 19, 2021 8:00	3.68	1.13
April 19, 2021 9:00	4.39	1.28
April 19, 2021 10:00	4.48	1.29
April 19, 2021 11:00	4.64	1.38
April 19, 2021 12:00	4.77	1.41
April 19, 2021 13:00	4.47	1.31
April 19, 2021 14:00	4.56	1.32
April 19, 2021 15:00	4.51	1.35
April 19, 2021 16:00	4.11	1.19
April 19, 2021 17:00	3.53	1.03
April 19, 2021 18:00	3.16	0.92
April 19, 2021 19:00	2.93	0.81
April 19, 2021 20:00	2.85	0.77
April 19, 2021 21:00	2.77	0.73
April 19, 2021 22:00	2.76	0.74
April 19, 2021 23:00	2.73	0.75
April 20, 2021 0:00	2.66	0.75
April 20, 2021 1:00	2.31	0.70
April 20, 2021 2:00	2.27	0.68
April 20, 2021 3:00	2.19	0.67
April 20, 2021 4:00	2.27	0.69
April 20, 2021 5:00	2.42	0.72
April 20, 2021 6:00	2.86	0.77
April 20, 2021 7:00	3.50	1.10
April 20, 2021 8:00	3.87	1.26
April 20, 2021 9:00	4.32	1.40
April 20, 2021 10:00	4.47	1.39
April 20, 2021 11:00	4.48	1.40
April 20, 2021 12:00	4.54	1.48
April 20, 2021 13:00	4.42	1.45
April 20, 2021 14:00	4.49	1.50
April 20, 2021 15:00	4.42	1.52
April 20, 2021 16:00	3.98	1.29
April 20, 2021 17:00	3.72	1.24
April 20, 2021 18:00	3.28	1.07
April 20, 2021 19:00	3.04	1.01
April 20, 2021 20:00	2.99	0.96
April 20, 2021 21:00	2.79	0.89
April 20, 2021 22:00	2.77	0.87
April 20, 2021 23:00	2.72	0.84
April 21, 2021 0:00	2.61	0.82
April 21, 2021 1:00	2.30	0.70
April 21, 2021 2:00	2.23	0.67
April 21, 2021 3:00	2.16	0.65
April 21, 2021 4:00	2.19	0.66
April 21, 2021 5:00	2.43	0.70
April 21, 2021 6:00	2.96	0.87
April 21, 2021 7:00	3.15	0.97
April 21, 2021 8:00	3.57	1.15
April 21, 2021 9:00	4.09	1.20
April 21, 2021 10:00	4.30	1.24
April 21, 2021 11:00	4.49	1.38
April 21, 2021 12:00	4.57	1.48
April 21, 2021 13:00	4.30	1.38
April 21, 2021 14:00	4.33	1.40
April 21, 2021 15:00	4.10	1.28
April 21, 2021 16:00	3.76	1.20
April 21, 2021 17:00	3.58	1.15
April 21, 2021 18:00	3.20	1.04
April 21, 2021 19:00	2.93	0.99
April 21, 2021 20:00	2.85	0.95
April 21, 2021 21:00	2.75	0.90
April 21, 2021 22:00	2.72	0.86
April 21, 2021 23:00	2.63	0.79



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April 22, 2021 0:00	2.55	0.73
April 22, 2021 1:00	2.26	0.67
April 22, 2021 2:00	2.22	0.65
April 22, 2021 3:00	2.11	0.65
April 22, 2021 4:00	2.12	0.65
April 22, 2021 5:00	2.32	0.67
April 22, 2021 6:00	2.70	0.71
April 22, 2021 7:00	3.08	0.79
April 22, 2021 8:00	3.57	1.01
April 22, 2021 9:00	4.10	1.15
April 22, 2021 10:00	4.32	1.13
April 22, 2021 11:00	4.52	1.18
April 22, 2021 12:00	4.40	1.19
April 22, 2021 13:00	4.42	1.19
April 22, 2021 14:00	4.47	1.23
April 22, 2021 15:00	4.35	1.20
April 22, 2021 16:00	3.97	1.09
April 22, 2021 17:00	3.59	1.04
April 22, 2021 18:00	3.31	0.97
April 22, 2021 19:00	2.98	0.86
April 22, 2021 20:00	2.84	0.83
April 22, 2021 21:00	2.83	0.84
April 22, 2021 22:00	2.82	0.85
April 22, 2021 23:00	2.71	0.80
April 23, 2021 0:00	2.66	0.77
April 23, 2021 1:00	2.36	0.74
April 23, 2021 2:00	2.28	0.71
April 23, 2021 3:00	2.18	0.68
April 23, 2021 4:00	2.27	0.71
April 23, 2021 5:00	2.45	0.74
April 23, 2021 6:00	2.85	0.84
April 23, 2021 7:00	3.26	0.95
April 23, 2021 8:00	3.70	1.18
April 23, 2021 9:00	4.17	1.26
April 23, 2021 10:00	4.37	1.31
April 23, 2021 11:00	4.45	1.30
April 23, 2021 12:00	4.37	1.32
April 23, 2021 13:00	4.13	1.25
April 23, 2021 14:00	4.19	1.26
April 23, 2021 15:00	4.08	1.24
April 23, 2021 16:00	3.52	0.96
April 23, 2021 17:00	3.11	0.81
April 23, 2021 18:00	2.87	0.79
April 23, 2021 19:00	2.69	0.77
April 23, 2021 20:00	2.63	0.76
April 23, 2021 21:00	2.57	0.74
April 23, 2021 22:00	2.58	0.75
April 23, 2021 23:00	2.52	0.73
April 24, 2021 0:00	2.44	0.70
April 24, 2021 1:00	2.18	0.70
April 24, 2021 2:00	2.12	0.69
April 24, 2021 3:00	2.14	0.69
April 24, 2021 4:00	2.21	0.69
April 24, 2021 5:00	2.20	0.69
April 24, 2021 6:00	2.38	0.78
April 24, 2021 7:00	2.71	0.86
April 24, 2021 8:00	2.66	0.90
April 24, 2021 9:00	2.95	0.96
April 24, 2021 10:00	3.14	0.98
April 24, 2021 11:00	3.18	0.98
April 24, 2021 12:00	3.16	0.94
April 24, 2021 13:00	2.99	0.88
April 24, 2021 14:00	2.90	0.86
April 24, 2021 15:00	2.83	0.87
April 24, 2021 16:00	2.65	0.76



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April 24, 2021 17:00	2.51	0.74
April 24, 2021 18:00	2.44	0.75
April 24, 2021 19:00	2.30	0.75
April 24, 2021 20:00	2.18	0.71
April 24, 2021 21:00	2.20	0.68
April 24, 2021 22:00	2.31	0.64
April 24, 2021 23:00	2.25	0.64
April 25, 2021 0:00	2.17	0.64
April 25, 2021 1:00	2.13	0.58
April 25, 2021 2:00	2.09	0.62
April 25, 2021 3:00	2.11	0.67
April 25, 2021 4:00	2.29	0.69
April 25, 2021 5:00	2.30	0.70
April 25, 2021 6:00	2.35	0.70
April 25, 2021 7:00	2.21	0.70
April 25, 2021 8:00	2.08	0.69
April 25, 2021 9:00	2.17	0.69
April 25, 2021 10:00	2.42	0.69
April 25, 2021 11:00	3.12	0.95
April 25, 2021 12:00	4.42	1.33
April 25, 2021 13:00	4.41	1.34
April 25, 2021 14:00	4.35	1.39
April 25, 2021 15:00	3.91	1.26
April 25, 2021 16:00	4.38	1.38
April 25, 2021 17:00	3.50	1.15
April 25, 2021 18:00	2.41	0.74
April 25, 2021 19:00	2.20	0.70
April 25, 2021 20:00	2.03	0.68
April 25, 2021 21:00	2.02	0.67
April 25, 2021 22:00	2.26	0.72
April 25, 2021 23:00	2.23	0.69
April 26, 2021 0:00	2.15	0.65
April 26, 2021 1:00	2.11	0.65
April 26, 2021 2:00	2.08	0.66
April 26, 2021 3:00	2.13	0.67
April 26, 2021 4:00	2.24	0.68
April 26, 2021 5:00	2.41	0.71
April 26, 2021 6:00	2.86	0.79
April 26, 2021 7:00	3.12	0.95
April 26, 2021 8:00	3.49	1.15
April 26, 2021 9:00	3.93	1.23
April 26, 2021 10:00	4.16	1.27
April 26, 2021 11:00	4.34	1.40
April 26, 2021 12:00	4.34	1.44
April 26, 2021 13:00	4.27	1.38
April 26, 2021 14:00	4.42	1.51
April 26, 2021 15:00	4.32	1.44
April 26, 2021 16:00	3.82	1.25
April 26, 2021 17:00	3.48	1.13
April 26, 2021 18:00	3.04	1.03
April 26, 2021 19:00	2.77	0.98
April 26, 2021 20:00	2.64	0.95
April 26, 2021 21:00	2.57	0.88
April 26, 2021 22:00	2.63	0.84
April 26, 2021 23:00	2.55	0.84
April 27, 2021 0:00	2.47	0.81
April 27, 2021 1:00	2.37	0.76
April 27, 2021 2:00	2.27	0.70
April 27, 2021 3:00	2.08	0.68
April 27, 2021 4:00	2.14	0.68
April 27, 2021 5:00	2.34	0.68
April 27, 2021 6:00	2.97	0.85
April 27, 2021 7:00	3.14	0.95
April 27, 2021 8:00	3.57	1.18
April 27, 2021 9:00	4.05	1.30



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April 27, 2021 10:00	4.09	1.29
April 27, 2021 11:00	4.31	1.45
April 27, 2021 12:00	4.27	1.41
April 27, 2021 13:00	4.22	1.32
April 27, 2021 14:00	4.42	1.41
April 27, 2021 15:00	4.13	1.23
April 27, 2021 16:00	3.70	1.11
April 27, 2021 17:00	3.45	1.02
April 27, 2021 18:00	3.15	0.98
April 27, 2021 19:00	2.86	0.89
April 27, 2021 20:00	2.75	0.84
April 27, 2021 21:00	2.66	0.79
April 27, 2021 22:00	2.63	0.77
April 27, 2021 23:00	2.49	0.77
April 28, 2021 0:00	2.46	0.74
April 28, 2021 1:00	2.29	0.69
April 28, 2021 2:00	2.30	0.67
April 28, 2021 3:00	2.10	0.66
April 28, 2021 4:00	2.14	0.66
April 28, 2021 5:00	2.38	0.66
April 28, 2021 6:00	2.72	0.69
April 28, 2021 7:00	2.97	0.85
April 28, 2021 8:00	3.53	1.11
April 28, 2021 9:00	3.88	1.25
April 28, 2021 10:00	4.10	1.25
April 28, 2021 11:00	4.26	1.37
April 28, 2021 12:00	4.38	1.47
April 28, 2021 13:00	4.12	1.32
April 28, 2021 14:00	3.95	1.27
April 28, 2021 15:00	3.86	1.28
April 28, 2021 16:00	3.69	1.24
April 28, 2021 17:00	3.44	1.19
April 28, 2021 18:00	3.17	1.10
April 28, 2021 19:00	2.89	0.99
April 28, 2021 20:00	2.81	0.94
April 28, 2021 21:00	2.62	0.87
April 28, 2021 22:00	2.67	0.85
April 28, 2021 23:00	2.59	0.85
April 29, 2021 0:00	2.47	0.80
April 29, 2021 1:00	2.23	0.66
April 29, 2021 2:00	2.19	0.67
April 29, 2021 3:00	2.10	0.64
April 29, 2021 4:00	2.14	0.65
April 29, 2021 5:00	2.26	0.66
April 29, 2021 6:00	2.64	0.81
April 29, 2021 7:00	2.89	0.88
April 29, 2021 8:00	3.45	1.11
April 29, 2021 9:00	4.01	1.27
April 29, 2021 10:00	4.29	1.26
April 29, 2021 11:00	4.32	1.33
April 29, 2021 12:00	4.43	1.42
April 29, 2021 13:00	4.18	1.30
April 29, 2021 14:00	4.18	1.29
April 29, 2021 15:00	4.03	1.32
April 29, 2021 16:00	3.75	1.21
April 29, 2021 17:00	3.42	1.16
April 29, 2021 18:00	3.06	1.04
April 29, 2021 19:00	2.79	0.94
April 29, 2021 20:00	2.66	0.93
April 29, 2021 21:00	2.58	0.90
April 29, 2021 22:00	2.63	0.87
April 29, 2021 23:00	2.55	0.84
April 30, 2021 0:00	2.47	0.78
April 30, 2021 1:00	2.17	0.71
April 30, 2021 2:00	2.13	0.69



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April 30, 2021 3:00	1.97	0.70
April 30, 2021 4:00	2.03	0.73
April 30, 2021 5:00	2.25	0.73
April 30, 2021 6:00	2.67	0.86
April 30, 2021 7:00	2.88	0.95
April 30, 2021 8:00	3.31	1.13
April 30, 2021 9:00	3.58	1.19
April 30, 2021 10:00	3.67	1.16
April 30, 2021 11:00	3.76	1.25
April 30, 2021 12:00	3.85	1.32
April 30, 2021 13:00	3.74	1.22
April 30, 2021 14:00	3.78	1.30
April 30, 2021 15:00	3.61	1.27
April 30, 2021 16:00	3.21	1.10
April 30, 2021 17:00	3.07	1.10
April 30, 2021 18:00	2.86	1.07
April 30, 2021 19:00	2.77	1.02
April 30, 2021 20:00	2.69	0.99
April 30, 2021 21:00	2.56	0.92
April 30, 2021 22:00	2.47	0.87
April 30, 2021 23:00	2.39	0.85
May 1, 2021 0:00	2.36	0.82
May 1, 2021 1:00	2.07	0.71
May 1, 2021 2:00	2.04	0.69
May 1, 2021 3:00	2.02	0.69
May 1, 2021 4:00	2.06	0.68
May 1, 2021 5:00	2.09	0.67
May 1, 2021 6:00	2.08	0.66
May 1, 2021 7:00	1.91	0.63
May 1, 2021 8:00	1.94	0.62
May 1, 2021 9:00	2.14	0.68
May 1, 2021 10:00	2.29	0.68
May 1, 2021 11:00	2.47	0.72
May 1, 2021 12:00	2.49	0.76
May 1, 2021 13:00	2.53	0.80
May 1, 2021 14:00	2.53	0.81
May 1, 2021 15:00	2.55	0.82
May 1, 2021 16:00	2.54	0.80
May 1, 2021 17:00	2.48	0.78
May 1, 2021 18:00	2.46	0.76
May 1, 2021 19:00	2.33	0.74
May 1, 2021 20:00	2.07	0.71
May 1, 2021 21:00	1.99	0.68
May 1, 2021 22:00	2.18	0.67
May 1, 2021 23:00	1.96	0.66
May 2, 2021 0:00	1.96	0.63
May 2, 2021 1:00	1.93	0.65
May 2, 2021 2:00	1.86	0.65
May 2, 2021 3:00	1.90	0.63
May 2, 2021 4:00	2.09	0.66
May 2, 2021 5:00	2.24	0.65
May 2, 2021 6:00	2.19	0.65
May 2, 2021 7:00	2.00	0.64
May 2, 2021 8:00	1.89	0.63
May 2, 2021 9:00	1.99	0.63
May 2, 2021 10:00	2.18	0.63
May 2, 2021 11:00	2.40	0.68
May 2, 2021 12:00	2.41	0.74
May 2, 2021 13:00	2.40	0.76
May 2, 2021 14:00	2.44	0.75
May 2, 2021 15:00	2.42	0.74
May 2, 2021 16:00	2.40	0.73
May 2, 2021 17:00	2.37	0.72
May 2, 2021 18:00	2.24	0.72
May 2, 2021 19:00	2.08	0.71



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May 2, 2021 20:00	1.95	0.69
May 2, 2021 21:00	1.89	0.63
May 2, 2021 22:00	2.09	0.63
May 2, 2021 23:00	2.09	0.65
May 3, 2021 0:00	2.12	0.65
May 3, 2021 1:00	2.00	0.65
May 3, 2021 2:00	2.03	0.65
May 3, 2021 3:00	2.09	0.65
May 3, 2021 4:00	2.16	0.64
May 3, 2021 5:00	2.33	0.64
May 3, 2021 6:00	2.78	0.79
May 3, 2021 7:00	2.87	0.81
May 3, 2021 8:00	3.41	1.02
May 3, 2021 9:00	3.78	1.21
May 3, 2021 10:00	4.02	1.17
May 3, 2021 11:00	3.91	1.16
May 3, 2021 12:00	3.92	1.16
May 3, 2021 13:00	3.94	1.12
May 3, 2021 14:00	4.10	1.19
May 3, 2021 15:00	4.12	1.26
May 3, 2021 16:00	3.91	1.20
May 3, 2021 17:00	3.50	1.06
May 3, 2021 18:00	3.13	0.95
May 3, 2021 19:00	2.91	0.88
May 3, 2021 20:00	2.68	0.83
May 3, 2021 21:00	2.59	0.80
May 3, 2021 22:00	2.58	0.79
May 3, 2021 23:00	2.51	0.78
May 4, 2021 0:00	2.41	0.71
May 4, 2021 1:00	2.16	0.69
May 4, 2021 2:00	2.14	0.69
May 4, 2021 3:00	2.06	0.68
May 4, 2021 4:00	2.09	0.68
May 4, 2021 5:00	2.26	0.67
May 4, 2021 6:00	2.61	0.73
May 4, 2021 7:00	2.88	0.86
May 4, 2021 8:00	3.66	1.21
May 4, 2021 9:00	4.06	1.27
May 4, 2021 10:00	4.19	1.25
May 4, 2021 11:00	4.32	1.30
May 4, 2021 12:00	4.51	1.39
May 4, 2021 13:00	4.26	1.27
May 4, 2021 14:00	4.40	1.39
May 4, 2021 15:00	4.24	1.40
May 4, 2021 16:00	3.83	1.18
May 4, 2021 17:00	3.35	0.97
May 4, 2021 18:00	3.12	0.94
May 4, 2021 19:00	2.84	0.83
May 4, 2021 20:00	2.74	0.80
May 4, 2021 21:00	2.61	0.79
May 4, 2021 22:00	2.61	0.74
May 4, 2021 23:00	2.58	0.81
May 5, 2021 0:00	2.55	0.76
May 5, 2021 1:00	2.24	0.72
May 5, 2021 2:00	2.16	0.71
May 5, 2021 3:00	2.10	0.71
May 5, 2021 4:00	2.13	0.72
May 5, 2021 5:00	2.33	0.72
May 5, 2021 6:00	2.59	0.71
May 5, 2021 7:00	2.67	0.77
May 5, 2021 8:00	3.40	1.10
May 5, 2021 9:00	3.84	1.23
May 5, 2021 10:00	3.92	1.19
May 5, 2021 11:00	4.03	1.21
May 5, 2021 12:00	4.01	1.21



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May 5, 2021 13:00	4.00	1.26
May 5, 2021 14:00	4.10	1.37
May 5, 2021 15:00	4.28	1.43
May 5, 2021 16:00	3.89	1.29
May 5, 2021 17:00	3.40	1.05
May 5, 2021 18:00	3.01	1.00
May 5, 2021 19:00	2.83	0.96
May 5, 2021 20:00	2.72	0.88
May 5, 2021 21:00	2.50	0.80
May 5, 2021 22:00	2.53	0.78
May 5, 2021 23:00	2.52	0.75
May 6, 2021 0:00	2.48	0.73
May 6, 2021 1:00	2.16	0.64
May 6, 2021 2:00	2.06	0.62
May 6, 2021 3:00	2.05	0.63
May 6, 2021 4:00	2.09	0.65
May 6, 2021 5:00	2.30	0.68
May 6, 2021 6:00	2.60	0.80
May 6, 2021 7:00	2.90	0.92
May 6, 2021 8:00	3.40	1.13
May 6, 2021 9:00	3.80	1.19
May 6, 2021 10:00	4.07	1.23
May 6, 2021 11:00	4.22	1.36
May 6, 2021 12:00	4.09	1.25
May 6, 2021 13:00	4.06	1.19
May 6, 2021 14:00	4.12	1.25
May 6, 2021 15:00	4.01	1.20
May 6, 2021 16:00	3.82	1.19
May 6, 2021 17:00	3.49	1.06
May 6, 2021 18:00	3.05	0.93
May 6, 2021 19:00	2.79	0.89
May 6, 2021 20:00	2.67	0.86
May 6, 2021 21:00	2.52	0.81
May 6, 2021 22:00	2.52	0.77
May 6, 2021 23:00	2.48	0.76
May 7, 2021 0:00	2.44	0.75
May 7, 2021 1:00	2.29	0.74
May 7, 2021 2:00	2.22	0.72
May 7, 2021 3:00	2.15	0.70
May 7, 2021 4:00	2.08	0.68
May 7, 2021 5:00	2.20	0.67
May 7, 2021 6:00	2.60	0.83
May 7, 2021 7:00	2.84	0.84
May 7, 2021 8:00	3.29	1.07
May 7, 2021 9:00	3.79	1.16
May 7, 2021 10:00	3.98	1.18
May 7, 2021 11:00	3.95	1.17
May 7, 2021 12:00	4.16	1.29
May 7, 2021 13:00	4.02	1.23
May 7, 2021 14:00	3.74	1.06
May 7, 2021 15:00	3.57	1.03
May 7, 2021 16:00	3.39	1.04
May 7, 2021 17:00	3.00	0.96
May 7, 2021 18:00	2.77	0.89
May 7, 2021 19:00	2.79	0.89
May 7, 2021 20:00	2.71	0.86
May 7, 2021 21:00	2.49	0.81
May 7, 2021 22:00	2.53	0.79
May 7, 2021 23:00	2.45	0.79
May 8, 2021 0:00	2.34	0.73
May 8, 2021 1:00	2.09	0.64
May 8, 2021 2:00	2.03	0.62
May 8, 2021 3:00	2.11	0.64
May 8, 2021 4:00	2.12	0.64
May 8, 2021 5:00	2.12	0.64



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May 8, 2021 6:00	2.23	0.64
May 8, 2021 7:00	2.18	0.64
May 8, 2021 8:00	2.24	0.64
May 8, 2021 9:00	2.36	0.65
May 8, 2021 10:00	2.56	0.67
May 8, 2021 11:00	2.66	0.69
May 8, 2021 12:00	2.66	0.70
May 8, 2021 13:00	2.67	0.73
May 8, 2021 14:00	2.66	0.75
May 8, 2021 15:00	2.66	0.77
May 8, 2021 16:00	2.73	0.78
May 8, 2021 17:00	2.72	0.78
May 8, 2021 18:00	2.68	0.77
May 8, 2021 19:00	2.40	0.75
May 8, 2021 20:00	2.19	0.71
May 8, 2021 21:00	2.13	0.70
May 8, 2021 22:00	2.27	0.71
May 8, 2021 23:00	2.22	0.68
May 9, 2021 0:00	2.14	0.64
May 9, 2021 1:00	2.09	0.63
May 9, 2021 2:00	2.12	0.65
May 9, 2021 3:00	2.13	0.67
May 9, 2021 4:00	2.25	0.69
May 9, 2021 5:00	2.25	0.66
May 9, 2021 6:00	2.31	0.65
May 9, 2021 7:00	2.26	0.63
May 9, 2021 8:00	2.23	0.62
May 9, 2021 9:00	2.21	0.64
May 9, 2021 10:00	2.43	0.67
May 9, 2021 11:00	2.53	0.68
May 9, 2021 12:00	2.61	0.68
May 9, 2021 13:00	2.55	0.70
May 9, 2021 14:00	2.57	0.72
May 9, 2021 15:00	2.52	0.73
May 9, 2021 16:00	2.58	0.74
May 9, 2021 17:00	2.45	0.73
May 9, 2021 18:00	2.36	0.72
May 9, 2021 19:00	2.17	0.71
May 9, 2021 20:00	2.01	0.70
May 9, 2021 21:00	1.95	0.69
May 9, 2021 22:00	2.14	0.69
May 9, 2021 23:00	2.17	0.67
May 10, 2021 0:00	2.11	0.63
May 10, 2021 1:00	2.07	0.61
May 10, 2021 2:00	2.03	0.62
May 10, 2021 3:00	2.03	0.63
May 10, 2021 4:00	2.13	0.64
May 10, 2021 5:00	2.35	0.65
May 10, 2021 6:00	2.74	0.84
May 10, 2021 7:00	2.91	0.93
May 10, 2021 8:00	3.36	1.06
May 10, 2021 9:00	4.00	1.19
May 10, 2021 10:00	4.23	1.29
May 10, 2021 11:00	4.23	1.32
May 10, 2021 12:00	4.06	1.23
May 10, 2021 13:00	3.99	1.15
May 10, 2021 14:00	4.18	1.32
May 10, 2021 15:00	4.15	1.38
May 10, 2021 16:00	3.70	1.16
May 10, 2021 17:00	3.36	1.07
May 10, 2021 18:00	3.05	1.04
May 10, 2021 19:00	2.81	0.99
May 10, 2021 20:00	2.73	0.93
May 10, 2021 21:00	2.52	0.89
May 10, 2021 22:00	2.49	0.80



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May 10, 2021 23:00	2.50	0.80
May 11, 2021 0:00	2.37	0.77
May 11, 2021 1:00	2.10	0.67
May 11, 2021 2:00	2.06	0.65
May 11, 2021 3:00	2.03	0.64
May 11, 2021 4:00	2.12	0.65
May 11, 2021 5:00	2.21	0.67
May 11, 2021 6:00	2.61	0.82
May 11, 2021 7:00	2.82	0.86
May 11, 2021 8:00	3.38	1.12
May 11, 2021 9:00	3.99	1.26
May 11, 2021 10:00	4.11	1.26
May 11, 2021 11:00	4.16	1.30
May 11, 2021 12:00	4.17	1.26
May 11, 2021 13:00	3.99	1.21
May 11, 2021 14:00	4.21	1.36
May 11, 2021 15:00	4.21	1.37
May 11, 2021 16:00	3.67	1.16
May 11, 2021 17:00	3.38	1.07
May 11, 2021 18:00	3.08	1.01
May 11, 2021 19:00	2.88	0.98
May 11, 2021 20:00	2.75	0.91
May 11, 2021 21:00	2.53	0.85
May 11, 2021 22:00	2.50	0.79
May 11, 2021 23:00	2.52	0.79
May 12, 2021 0:00	2.44	0.74
May 12, 2021 1:00	2.16	0.69
May 12, 2021 2:00	2.14	0.68
May 12, 2021 3:00	2.10	0.69
May 12, 2021 4:00	2.15	0.69
May 12, 2021 5:00	2.28	0.70
May 12, 2021 6:00	2.68	0.80
May 12, 2021 7:00	2.97	0.93
May 12, 2021 8:00	3.45	1.10
May 12, 2021 9:00	3.95	1.26
May 12, 2021 10:00	4.04	1.25
May 12, 2021 11:00	4.05	1.30
May 12, 2021 12:00	4.12	1.32
May 12, 2021 13:00	4.00	1.23
May 12, 2021 14:00	4.09	1.35
May 12, 2021 15:00	4.08	1.42
May 12, 2021 16:00	3.66	1.23
May 12, 2021 17:00	3.54	1.25
May 12, 2021 18:00	3.19	1.10
May 12, 2021 19:00	3.02	1.02
May 12, 2021 20:00	2.81	0.98
May 12, 2021 21:00	2.61	0.93
May 12, 2021 22:00	2.53	0.88
May 12, 2021 23:00	2.53	0.85
May 13, 2021 0:00	2.45	0.81
May 13, 2021 1:00	2.13	0.73
May 13, 2021 2:00	2.07	0.68
May 13, 2021 3:00	2.01	0.65
May 13, 2021 4:00	2.06	0.64
May 13, 2021 5:00	2.20	0.71
May 13, 2021 6:00	2.55	0.82
May 13, 2021 7:00	2.78	0.89
May 13, 2021 8:00	3.11	0.96
May 13, 2021 9:00	3.65	1.14
May 13, 2021 10:00	4.01	1.27
May 13, 2021 11:00	4.08	1.33
May 13, 2021 12:00	4.18	1.34
May 13, 2021 13:00	4.07	1.28
May 13, 2021 14:00	4.13	1.35
May 13, 2021 15:00	4.01	1.34



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May 13, 2021 16:00	3.67	1.22
May 13, 2021 17:00	3.55	1.21
May 13, 2021 18:00	3.12	1.01
May 13, 2021 19:00	2.81	0.91
May 13, 2021 20:00	2.68	0.85
May 13, 2021 21:00	2.48	0.80
May 13, 2021 22:00	2.44	0.77
May 13, 2021 23:00	2.50	0.78
May 14, 2021 0:00	2.36	0.76
May 14, 2021 1:00	2.10	0.67
May 14, 2021 2:00	2.04	0.66
May 14, 2021 3:00	1.97	0.64
May 14, 2021 4:00	2.01	0.62
May 14, 2021 5:00	2.13	0.67
May 14, 2021 6:00	2.38	0.77
May 14, 2021 7:00	2.61	0.84
May 14, 2021 8:00	2.98	0.93
May 14, 2021 9:00	3.37	1.02
May 14, 2021 10:00	3.72	1.12
May 14, 2021 11:00	3.78	1.16
May 14, 2021 12:00	3.80	1.23
May 14, 2021 13:00	3.74	1.22
May 14, 2021 14:00	3.85	1.28
May 14, 2021 15:00	3.66	1.24
May 14, 2021 16:00	3.34	1.16
May 14, 2021 17:00	2.94	1.06
May 14, 2021 18:00	2.80	1.02
May 14, 2021 19:00	2.67	1.00
May 14, 2021 20:00	2.62	0.93
May 14, 2021 21:00	2.32	0.87
May 14, 2021 22:00	2.21	0.82
May 14, 2021 23:00	2.24	0.78
May 15, 2021 0:00	2.17	0.71
May 15, 2021 1:00	2.04	0.63
May 15, 2021 2:00	1.99	0.63
May 15, 2021 3:00	1.98	0.65
May 15, 2021 4:00	2.08	0.66
May 15, 2021 5:00	2.07	0.70
May 15, 2021 6:00	2.24	0.86
May 15, 2021 7:00	2.23	0.92
May 15, 2021 8:00	2.26	0.91
May 15, 2021 9:00	2.50	0.85
May 15, 2021 10:00	2.63	0.89
May 15, 2021 11:00	2.66	0.95
May 15, 2021 12:00	2.54	0.88
May 15, 2021 13:00	2.49	0.90
May 15, 2021 14:00	2.58	0.96
May 15, 2021 15:00	2.61	0.97
May 15, 2021 16:00	2.65	0.97
May 15, 2021 17:00	2.61	0.96
May 15, 2021 18:00	2.50	0.95
May 15, 2021 19:00	2.39	0.94
May 15, 2021 20:00	2.20	0.90
May 15, 2021 21:00	2.03	0.84
May 15, 2021 22:00	2.08	0.81
May 15, 2021 23:00	2.11	0.77
May 16, 2021 0:00	2.07	0.75
May 16, 2021 1:00	1.99	0.72
May 16, 2021 2:00	1.97	0.71
May 16, 2021 3:00	1.95	0.69
May 16, 2021 4:00	2.04	0.67
May 16, 2021 5:00	2.08	0.67
May 16, 2021 6:00	2.15	0.68
May 16, 2021 7:00	1.92	0.71
May 16, 2021 8:00	1.92	0.71



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May 16, 2021 9:00	1.98	0.70
May 16, 2021 10:00	2.19	0.79
May 16, 2021 11:00	2.40	0.88
May 16, 2021 12:00	2.53	0.93
May 16, 2021 13:00	2.60	0.96
May 16, 2021 14:00	2.56	0.95
May 16, 2021 15:00	2.57	0.97
May 16, 2021 16:00	2.55	0.99
May 16, 2021 17:00	2.58	1.01
May 16, 2021 18:00	2.52	1.02
May 16, 2021 19:00	2.36	1.01
May 16, 2021 20:00	2.15	0.94
May 16, 2021 21:00	1.98	0.86
May 16, 2021 22:00	2.02	0.74
May 16, 2021 23:00	2.16	0.70
May 17, 2021 0:00	2.07	0.71
May 17, 2021 1:00	1.94	0.68
May 17, 2021 2:00	1.89	0.67
May 17, 2021 3:00	1.96	0.70
May 17, 2021 4:00	2.01	0.73
May 17, 2021 5:00	2.19	0.76
May 17, 2021 6:00	2.57	0.89
May 17, 2021 7:00	2.77	0.99
May 17, 2021 8:00	3.26	1.13
May 17, 2021 9:00	3.63	1.20
May 17, 2021 10:00	3.89	1.21
May 17, 2021 11:00	4.02	1.28
May 17, 2021 12:00	4.18	1.33
May 17, 2021 13:00	4.12	1.35
May 17, 2021 14:00	4.33	1.51
May 17, 2021 15:00	4.43	1.60
May 17, 2021 16:00	4.20	1.59
May 17, 2021 17:00	3.87	1.45
May 17, 2021 18:00	3.40	1.29
May 17, 2021 19:00	3.24	1.22
May 17, 2021 20:00	2.99	1.16
May 17, 2021 21:00	2.80	1.10
May 17, 2021 22:00	2.66	1.01
May 17, 2021 23:00	2.61	0.97
May 18, 2021 0:00	2.53	0.85
May 18, 2021 1:00	2.29	0.74
May 18, 2021 2:00	2.20	0.71
May 18, 2021 3:00	2.03	0.71
May 18, 2021 4:00	2.14	0.71
May 18, 2021 5:00	2.30	0.69
May 18, 2021 6:00	2.69	0.86
May 18, 2021 7:00	3.14	1.12
May 18, 2021 8:00	3.38	1.17
May 18, 2021 9:00	3.88	1.36
May 18, 2021 10:00	4.14	1.38
May 18, 2021 11:00	4.22	1.48
May 18, 2021 12:00	4.39	1.49
May 18, 2021 13:00	4.26	1.42
May 18, 2021 14:00	4.17	1.34
May 18, 2021 15:00	4.05	1.34
May 18, 2021 16:00	3.87	1.29
May 18, 2021 17:00	3.55	1.21
May 18, 2021 18:00	3.19	1.12
May 18, 2021 19:00	3.05	1.05
May 18, 2021 20:00	2.90	0.98
May 18, 2021 21:00	2.68	0.91
May 18, 2021 22:00	2.57	0.85
May 18, 2021 23:00	2.59	0.82
May 19, 2021 0:00	2.55	0.79
May 19, 2021 1:00	2.30	0.74



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May 19, 2021 2:00	2.19	0.70
May 19, 2021 3:00	2.01	0.65
May 19, 2021 4:00	2.01	0.64
May 19, 2021 5:00	2.24	0.64
May 19, 2021 6:00	2.43	0.67
May 19, 2021 7:00	2.69	0.77
May 19, 2021 8:00	3.27	0.92
May 19, 2021 9:00	3.91	1.16
May 19, 2021 10:00	4.17	1.24
May 19, 2021 11:00	4.20	1.28
May 19, 2021 12:00	4.32	1.31
May 19, 2021 13:00	4.20	1.30
May 19, 2021 14:00	4.30	1.31
May 19, 2021 15:00	4.08	1.21
May 19, 2021 16:00	3.75	1.04
May 19, 2021 17:00	3.50	1.00
May 19, 2021 18:00	3.19	0.95
May 19, 2021 19:00	3.01	0.89
May 19, 2021 20:00	2.92	0.85
May 19, 2021 21:00	2.56	0.79
May 19, 2021 22:00	2.45	0.79
May 19, 2021 23:00	2.56	0.78
May 20, 2021 0:00	2.56	0.75
May 20, 2021 1:00	2.39	0.72
May 20, 2021 2:00	2.23	0.69
May 20, 2021 3:00	2.11	0.69
May 20, 2021 4:00	2.14	0.70
May 20, 2021 5:00	2.28	0.71
May 20, 2021 6:00	2.62	0.70
May 20, 2021 7:00	3.04	0.91
May 20, 2021 8:00	3.48	1.09
May 20, 2021 9:00	4.14	1.34
May 20, 2021 10:00	4.31	1.30
May 20, 2021 11:00	4.33	1.30
May 20, 2021 12:00	4.52	1.34
May 20, 2021 13:00	4.30	1.22
May 20, 2021 14:00	4.35	1.28
May 20, 2021 15:00	4.22	1.26
May 20, 2021 16:00	3.92	1.13
May 20, 2021 17:00	3.60	1.03
May 20, 2021 18:00	3.10	0.93
May 20, 2021 19:00	2.93	0.81
May 20, 2021 20:00	2.84	0.79
May 20, 2021 21:00	2.64	0.76
May 20, 2021 22:00	2.60	0.76
May 20, 2021 23:00	2.65	0.79
May 21, 2021 0:00	2.54	0.76
May 21, 2021 1:00	2.39	0.71
May 21, 2021 2:00	2.34	0.70
May 21, 2021 3:00	2.10	0.70
May 21, 2021 4:00	2.11	0.70
May 21, 2021 5:00	2.29	0.68
May 21, 2021 6:00	2.51	0.66
May 21, 2021 7:00	2.65	0.70
May 21, 2021 8:00	3.03	0.86
May 21, 2021 9:00	3.44	0.98
May 21, 2021 10:00	3.65	0.96
May 21, 2021 11:00	3.70	0.98
May 21, 2021 12:00	3.61	0.94
May 21, 2021 13:00	3.50	0.93
May 21, 2021 14:00	3.53	0.97
May 21, 2021 15:00	3.59	1.04
May 21, 2021 16:00	3.26	1.02
May 21, 2021 17:00	2.89	0.91
May 21, 2021 18:00	2.69	0.86



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May 21, 2021 19:00	2.58	0.76
May 21, 2021 20:00	2.46	0.72
May 21, 2021 21:00	2.29	0.67
May 21, 2021 22:00	2.21	0.64
May 21, 2021 23:00	2.34	0.67
May 22, 2021 0:00	2.28	0.64
May 22, 2021 1:00	2.11	0.62
May 22, 2021 2:00	2.04	0.61
May 22, 2021 3:00	1.97	0.59
May 22, 2021 4:00	2.04	0.58
May 22, 2021 5:00	2.11	0.61
May 22, 2021 6:00	2.44	0.80
May 22, 2021 7:00	2.35	0.80
May 22, 2021 8:00	2.48	0.82
May 22, 2021 9:00	2.52	0.77
May 22, 2021 10:00	2.73	0.81
May 22, 2021 11:00	2.64	0.78
May 22, 2021 12:00	2.58	0.70
May 22, 2021 13:00	2.51	0.70
May 22, 2021 14:00	2.56	0.74
May 22, 2021 15:00	2.52	0.79
May 22, 2021 16:00	2.50	0.85
May 22, 2021 17:00	2.46	0.84
May 22, 2021 18:00	2.41	0.81
May 22, 2021 19:00	2.21	0.77
May 22, 2021 20:00	2.01	0.73
May 22, 2021 21:00	1.95	0.67
May 22, 2021 22:00	1.94	0.61
May 22, 2021 23:00	2.10	0.60
May 23, 2021 0:00	2.05	0.60
May 23, 2021 1:00	2.02	0.61
May 23, 2021 2:00	1.98	0.61
May 23, 2021 3:00	2.02	0.61
May 23, 2021 4:00	2.14	0.61
May 23, 2021 5:00	2.19	0.61
May 23, 2021 6:00	2.06	0.60
May 23, 2021 7:00	1.93	0.64
May 23, 2021 8:00	1.85	0.61
May 23, 2021 9:00	1.92	0.56
May 23, 2021 10:00	2.10	0.56
May 23, 2021 11:00	2.31	0.59
May 23, 2021 12:00	2.37	0.61
May 23, 2021 13:00	2.38	0.63
May 23, 2021 14:00	2.40	0.65
May 23, 2021 15:00	2.42	0.68
May 23, 2021 16:00	2.38	0.70
May 23, 2021 17:00	2.32	0.70
May 23, 2021 18:00	2.31	0.70
May 23, 2021 19:00	2.11	0.67
May 23, 2021 20:00	1.98	0.66
May 23, 2021 21:00	1.92	0.65
May 23, 2021 22:00	2.09	0.65
May 23, 2021 23:00	2.11	0.64
May 24, 2021 0:00	2.07	0.64
May 24, 2021 1:00	2.00	0.64
May 24, 2021 2:00	1.98	0.65
May 24, 2021 3:00	1.96	0.64
May 24, 2021 4:00	1.99	0.64
May 24, 2021 5:00	2.03	0.64
May 24, 2021 6:00	1.96	0.63
May 24, 2021 7:00	1.89	0.60
May 24, 2021 8:00	1.85	0.61
May 24, 2021 9:00	1.96	0.63
May 24, 2021 10:00	2.08	0.65
May 24, 2021 11:00	2.21	0.67



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May 24, 2021 12:00	2.24	0.67
May 24, 2021 13:00	2.22	0.68
May 24, 2021 14:00	2.29	0.71
May 24, 2021 15:00	2.25	0.70
May 24, 2021 16:00	2.24	0.70
May 24, 2021 17:00	2.08	0.69
May 24, 2021 18:00	2.02	0.67
May 24, 2021 19:00	1.98	0.67
May 24, 2021 20:00	1.91	0.67
May 24, 2021 21:00	1.83	0.62
May 24, 2021 22:00	2.00	0.62
May 24, 2021 23:00	2.03	0.62
May 25, 2021 0:00	2.04	0.61
May 25, 2021 1:00	2.06	0.59
May 25, 2021 2:00	2.03	0.59
May 25, 2021 3:00	2.06	0.59
May 25, 2021 4:00	2.09	0.59
May 25, 2021 5:00	2.27	0.61
May 25, 2021 6:00	2.54	0.66
May 25, 2021 7:00	2.80	0.77
May 25, 2021 8:00	3.47	1.03
May 25, 2021 9:00	3.83	1.23
May 25, 2021 10:00	4.26	1.35
May 25, 2021 11:00	4.40	1.48
May 25, 2021 12:00	4.42	1.49
May 25, 2021 13:00	4.33	1.39
May 25, 2021 14:00	4.49	1.44
May 25, 2021 15:00	4.30	1.31
May 25, 2021 16:00	3.85	1.20
May 25, 2021 17:00	3.32	1.01
May 25, 2021 18:00	3.10	0.96
May 25, 2021 19:00	2.95	0.92
May 25, 2021 20:00	2.86	0.89
May 25, 2021 21:00	2.69	0.86
May 25, 2021 22:00	2.61	0.84
May 25, 2021 23:00	2.59	0.85
May 26, 2021 0:00	2.56	0.82
May 26, 2021 1:00	2.44	0.75
May 26, 2021 2:00	2.37	0.77
May 26, 2021 3:00	2.13	0.70
May 26, 2021 4:00	2.17	0.68
May 26, 2021 5:00	2.33	0.72
May 26, 2021 6:00	2.70	0.85
May 26, 2021 7:00	3.04	0.93
May 26, 2021 8:00	3.47	1.05
May 26, 2021 9:00	3.85	1.05
May 26, 2021 10:00	4.24	1.15
May 26, 2021 11:00	4.29	1.19
May 26, 2021 12:00	4.34	1.22
May 26, 2021 13:00	4.20	1.19
May 26, 2021 14:00	4.37	1.39
May 26, 2021 15:00	4.26	1.38
May 26, 2021 16:00	3.87	1.22
May 26, 2021 17:00	3.43	1.09
May 26, 2021 18:00	3.06	1.01
May 26, 2021 19:00	2.91	0.99
May 26, 2021 20:00	2.88	0.94
May 26, 2021 21:00	2.65	0.90
May 26, 2021 22:00	2.52	0.86
May 26, 2021 23:00	2.66	0.86
May 27, 2021 0:00	2.62	0.85
May 27, 2021 1:00	2.45	0.79
May 27, 2021 2:00	2.30	0.70
May 27, 2021 3:00	2.02	0.65
May 27, 2021 4:00	2.07	0.68



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May 27, 2021 5:00	2.28	0.70
May 27, 2021 6:00	2.56	0.86
May 27, 2021 7:00	2.87	0.91
May 27, 2021 8:00	3.42	1.12
May 27, 2021 9:00	3.68	1.20
May 27, 2021 10:00	4.02	1.34
May 27, 2021 11:00	4.32	1.48
May 27, 2021 12:00	4.43	1.53
May 27, 2021 13:00	4.26	1.47
May 27, 2021 14:00	4.35	1.50
May 27, 2021 15:00	4.37	1.51
May 27, 2021 16:00	3.83	1.30
May 27, 2021 17:00	3.49	1.29
May 27, 2021 18:00	3.18	1.21
May 27, 2021 19:00	3.02	1.13
May 27, 2021 20:00	2.91	1.04
May 27, 2021 21:00	2.67	0.94
May 27, 2021 22:00	2.49	0.90
May 27, 2021 23:00	2.67	0.90
May 28, 2021 0:00	2.62	0.83
May 28, 2021 1:00	2.43	0.77
May 28, 2021 2:00	2.27	0.68
May 28, 2021 3:00	2.02	0.64
May 28, 2021 4:00	2.10	0.65
May 28, 2021 5:00	2.22	0.65
May 28, 2021 6:00	2.38	0.74
May 28, 2021 7:00	2.79	0.91
May 28, 2021 8:00	3.26	1.03
May 28, 2021 9:00	3.56	1.11
May 28, 2021 10:00	3.84	1.14
May 28, 2021 11:00	4.03	1.26
May 28, 2021 12:00	4.04	1.28
May 28, 2021 13:00	3.88	1.24
May 28, 2021 14:00	3.94	1.29
May 28, 2021 15:00	3.87	1.22
May 28, 2021 16:00	3.52	1.12
May 28, 2021 17:00	3.22	1.07
May 28, 2021 18:00	2.95	0.95
May 28, 2021 19:00	2.77	0.86
May 28, 2021 20:00	2.60	0.83
May 28, 2021 21:00	2.40	0.80
May 28, 2021 22:00	2.26	0.79
May 28, 2021 23:00	2.33	0.76
May 29, 2021 0:00	2.31	0.73
May 29, 2021 1:00	2.18	0.72
May 29, 2021 2:00	2.12	0.69
May 29, 2021 3:00	2.00	0.67
May 29, 2021 4:00	2.02	0.65
May 29, 2021 5:00	2.15	0.64
May 29, 2021 6:00	2.17	0.67
May 29, 2021 7:00	2.23	0.79
May 29, 2021 8:00	2.40	0.84
May 29, 2021 9:00	2.73	0.98
May 29, 2021 10:00	2.87	1.03
May 29, 2021 11:00	2.99	0.99
May 29, 2021 12:00	2.90	0.94
May 29, 2021 13:00	2.80	0.97
May 29, 2021 14:00	2.88	0.95
May 29, 2021 15:00	2.86	0.97
May 29, 2021 16:00	2.80	1.01
May 29, 2021 17:00	2.80	1.03
May 29, 2021 18:00	2.74	0.99
May 29, 2021 19:00	2.51	0.96
May 29, 2021 20:00	2.39	0.92
May 29, 2021 21:00	2.27	0.88



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May 29, 2021 22:00	2.29	0.84
May 29, 2021 23:00	2.38	0.79
May 30, 2021 0:00	2.35	0.77
May 30, 2021 1:00	2.25	0.75
May 30, 2021 2:00	2.04	0.71
May 30, 2021 3:00	1.93	0.67
May 30, 2021 4:00	2.07	0.64
May 30, 2021 5:00	2.12	0.61
May 30, 2021 6:00	1.97	0.60
May 30, 2021 7:00	1.89	0.67
May 30, 2021 8:00	1.97	0.70
May 30, 2021 9:00	2.00	0.68
May 30, 2021 10:00	2.19	0.74
May 30, 2021 11:00	2.39	0.83
May 30, 2021 12:00	2.44	0.86
May 30, 2021 13:00	2.56	0.88
May 30, 2021 14:00	2.57	0.91
May 30, 2021 15:00	2.52	0.93
May 30, 2021 16:00	2.52	0.96
May 30, 2021 17:00	2.50	0.98
May 30, 2021 18:00	2.42	0.93
May 30, 2021 19:00	2.23	0.88
May 30, 2021 20:00	2.09	0.84
May 30, 2021 21:00	1.88	0.78
May 30, 2021 22:00	1.86	0.72
May 30, 2021 23:00	2.06	0.66
May 31, 2021 0:00	2.04	0.66
May 31, 2021 1:00	1.94	0.64
May 31, 2021 2:00	1.94	0.64
May 31, 2021 3:00	1.93	0.66
May 31, 2021 4:00	1.98	0.68
May 31, 2021 5:00	2.18	0.69
May 31, 2021 6:00	2.39	0.72
May 31, 2021 7:00	2.64	0.73
May 31, 2021 8:00	3.15	0.93
May 31, 2021 9:00	3.56	1.11
May 31, 2021 10:00	4.02	1.40
May 31, 2021 11:00	4.24	1.47
May 31, 2021 12:00	4.28	1.51
May 31, 2021 13:00	4.24	1.43
May 31, 2021 14:00	4.44	1.54
May 31, 2021 15:00	4.47	1.57
May 31, 2021 16:00	4.12	1.50
May 31, 2021 17:00	3.81	1.45
May 31, 2021 18:00	3.49	1.42
May 31, 2021 19:00	3.27	1.27
May 31, 2021 20:00	3.13	1.21
May 31, 2021 21:00	2.81	1.13
May 31, 2021 22:00	2.49	1.00
May 31, 2021 23:00	2.59	0.95
June 1, 2021 0:00	2.56	0.89
June 1, 2021 1:00	2.47	0.85
June 1, 2021 2:00	2.31	0.81
June 1, 2021 3:00	2.02	0.68
June 1, 2021 4:00	2.04	0.68
June 1, 2021 5:00	2.20	0.72
June 1, 2021 6:00	2.53	0.87
June 1, 2021 7:00	2.72	0.93
June 1, 2021 8:00	3.24	1.13
June 1, 2021 9:00	3.69	1.29
June 1, 2021 10:00	3.90	1.33
June 1, 2021 11:00	4.20	1.43
June 1, 2021 12:00	4.52	1.57
June 1, 2021 13:00	4.57	1.60
June 1, 2021 14:00	4.77	1.72



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June 1, 2021 15:00	4.65	1.73
June 1, 2021 16:00	4.30	1.54
June 1, 2021 17:00	3.90	1.49
June 1, 2021 18:00	3.51	1.41
June 1, 2021 19:00	3.34	1.35
June 1, 2021 20:00	3.22	1.25
June 1, 2021 21:00	2.92	1.18
June 1, 2021 22:00	2.53	1.05
June 1, 2021 23:00	2.63	1.00
June 2, 2021 0:00	2.64	0.97
June 2, 2021 1:00	2.47	0.90
June 2, 2021 2:00	2.37	0.85
June 2, 2021 3:00	2.06	0.75
June 2, 2021 4:00	2.04	0.75
June 2, 2021 5:00	2.23	0.76
June 2, 2021 6:00	2.37	0.78
June 2, 2021 7:00	2.64	0.85
June 2, 2021 8:00	3.21	1.05
June 2, 2021 9:00	3.92	1.42
June 2, 2021 10:00	4.27	1.49
June 2, 2021 11:00	4.57	1.68
June 2, 2021 12:00	4.63	1.72
June 2, 2021 13:00	4.68	1.74
June 2, 2021 14:00	4.77	1.83
June 2, 2021 15:00	4.71	1.81
June 2, 2021 16:00	4.38	1.61
June 2, 2021 17:00	4.10	1.62
June 2, 2021 18:00	3.83	1.56
June 2, 2021 19:00	3.59	1.44
June 2, 2021 20:00	3.42	1.33
June 2, 2021 21:00	3.07	1.21
June 2, 2021 22:00	2.71	1.10
June 2, 2021 23:00	2.75	1.04
June 3, 2021 0:00	2.64	0.96
June 3, 2021 1:00	2.52	0.89
June 3, 2021 2:00	2.46	0.84
June 3, 2021 3:00	2.21	0.78
June 3, 2021 4:00	2.20	0.75
June 3, 2021 5:00	2.28	0.73
June 3, 2021 6:00	2.53	0.93
June 3, 2021 7:00	2.88	1.08
June 3, 2021 8:00	3.45	1.32
June 3, 2021 9:00	4.02	1.49
June 3, 2021 10:00	4.22	1.53
June 3, 2021 11:00	4.53	1.69
June 3, 2021 12:00	4.82	1.86
June 3, 2021 13:00	4.84	1.79
June 3, 2021 14:00	5.01	1.94
June 3, 2021 15:00	4.79	1.90
June 3, 2021 16:00	4.67	1.81
June 3, 2021 17:00	4.29	1.72
June 3, 2021 18:00	3.90	1.61
June 3, 2021 19:00	3.57	1.43
June 3, 2021 20:00	3.32	1.34
June 3, 2021 21:00	2.97	1.19
June 3, 2021 22:00	2.56	1.08
June 3, 2021 23:00	2.67	1.04
June 4, 2021 0:00	2.57	0.96
June 4, 2021 1:00	2.46	0.89
June 4, 2021 2:00	2.45	0.87
June 4, 2021 3:00	2.15	0.76
June 4, 2021 4:00	2.17	0.78
June 4, 2021 5:00	2.25	0.82
June 4, 2021 6:00	2.36	0.84
June 4, 2021 7:00	2.52	0.86



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June 4, 2021 8:00	3.10	1.01
June 4, 2021 9:00	3.64	1.26
June 4, 2021 10:00	4.08	1.42
June 4, 2021 11:00	4.29	1.54
June 4, 2021 12:00	4.25	1.54
June 4, 2021 13:00	4.25	1.47
June 4, 2021 14:00	4.25	1.57
June 4, 2021 15:00	4.29	1.63
June 4, 2021 16:00	4.14	1.51
June 4, 2021 17:00	3.73	1.50
June 4, 2021 18:00	3.47	1.44
June 4, 2021 19:00	3.25	1.37
June 4, 2021 20:00	3.22	1.30
June 4, 2021 21:00	2.88	1.19
June 4, 2021 22:00	2.40	1.04
June 4, 2021 23:00	2.32	0.91
June 5, 2021 0:00	2.17	0.81
June 5, 2021 1:00	2.00	0.73
June 5, 2021 2:00	1.98	0.71
June 5, 2021 3:00	2.00	0.71
June 5, 2021 4:00	2.00	0.68
June 5, 2021 5:00	2.01	0.70
June 5, 2021 6:00	2.15	0.81
June 5, 2021 7:00	2.11	0.91
June 5, 2021 8:00	2.14	0.92
June 5, 2021 9:00	2.36	0.94
June 5, 2021 10:00	2.74	0.97
June 5, 2021 11:00	2.81	1.01
June 5, 2021 12:00	2.67	0.92
June 5, 2021 13:00	2.62	0.91
June 5, 2021 14:00	2.57	0.80
June 5, 2021 15:00	2.53	0.82
June 5, 2021 16:00	2.44	0.84
June 5, 2021 17:00	2.42	0.86
June 5, 2021 18:00	2.39	0.88
June 5, 2021 19:00	2.24	0.82
June 5, 2021 20:00	2.07	0.74
June 5, 2021 21:00	1.91	0.67
June 5, 2021 22:00	2.01	0.66
June 5, 2021 23:00	2.01	0.66
June 6, 2021 0:00	1.95	0.65
June 6, 2021 1:00	1.93	0.65
June 6, 2021 2:00	1.87	0.65
June 6, 2021 3:00	1.92	0.65
June 6, 2021 4:00	2.01	0.65
June 6, 2021 5:00	2.05	0.62
June 6, 2021 6:00	1.98	0.61
June 6, 2021 7:00	1.94	0.66
June 6, 2021 8:00	1.94	0.72
June 6, 2021 9:00	2.06	0.73
June 6, 2021 10:00	2.26	0.69
June 6, 2021 11:00	2.31	0.69
June 6, 2021 12:00	2.32	0.76
June 6, 2021 13:00	2.28	0.81
June 6, 2021 14:00	2.32	0.85
June 6, 2021 15:00	2.39	0.87
June 6, 2021 16:00	2.39	0.83
June 6, 2021 17:00	2.34	0.77
June 6, 2021 18:00	2.29	0.81
June 6, 2021 19:00	2.10	0.77
June 6, 2021 20:00	1.86	0.72
June 6, 2021 21:00	1.76	0.66
June 6, 2021 22:00	1.87	0.64
June 6, 2021 23:00	2.01	0.64
June 7, 2021 0:00	1.98	0.63



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June 7, 2021 1:00	1.93	0.61
June 7, 2021 2:00	1.95	0.60
June 7, 2021 3:00	1.91	0.60
June 7, 2021 4:00	1.96	0.63
June 7, 2021 5:00	2.17	0.68
June 7, 2021 6:00	2.44	0.72
June 7, 2021 7:00	2.79	0.89
June 7, 2021 8:00	3.37	1.09
June 7, 2021 9:00	3.65	1.20
June 7, 2021 10:00	3.93	1.27
June 7, 2021 11:00	4.26	1.42
June 7, 2021 12:00	4.28	1.42
June 7, 2021 13:00	4.08	1.28
June 7, 2021 14:00	4.08	1.30
June 7, 2021 15:00	3.92	1.27
June 7, 2021 16:00	3.52	1.07
June 7, 2021 17:00	3.14	1.00
June 7, 2021 18:00	2.90	0.96
June 7, 2021 19:00	2.74	0.90
June 7, 2021 20:00	2.64	0.87
June 7, 2021 21:00	2.41	0.81
June 7, 2021 22:00	2.18	0.74
June 7, 2021 23:00	2.36	0.75
June 8, 2021 0:00	2.42	0.71
June 8, 2021 1:00	2.31	0.65
June 8, 2021 2:00	2.20	0.67
June 8, 2021 3:00	2.02	0.59
June 8, 2021 4:00	1.97	0.58
June 8, 2021 5:00	2.18	0.61
June 8, 2021 6:00	2.38	0.65
June 8, 2021 7:00	2.73	0.76
June 8, 2021 8:00	3.20	0.88
June 8, 2021 9:00	3.67	1.11
June 8, 2021 10:00	3.96	1.15
June 8, 2021 11:00	4.14	1.31
June 8, 2021 12:00	4.04	1.24
June 8, 2021 13:00	4.00	1.22
June 8, 2021 14:00	4.17	1.29
June 8, 2021 15:00	4.15	1.39
June 8, 2021 16:00	3.86	1.24
June 8, 2021 17:00	3.54	1.14
June 8, 2021 18:00	3.19	1.09
June 8, 2021 19:00	3.01	1.04
June 8, 2021 20:00	2.80	0.96
June 8, 2021 21:00	2.62	0.88
June 8, 2021 22:00	2.35	0.86
June 8, 2021 23:00	2.54	0.87
June 9, 2021 0:00	2.53	0.87
June 9, 2021 1:00	2.42	0.80
June 9, 2021 2:00	2.20	0.70
June 9, 2021 3:00	1.98	0.68
June 9, 2021 4:00	2.02	0.62
June 9, 2021 5:00	2.19	0.64
June 9, 2021 6:00	2.29	0.67
June 9, 2021 7:00	2.65	0.74
June 9, 2021 8:00	3.25	0.98
June 9, 2021 9:00	3.70	1.11
June 9, 2021 10:00	4.06	1.23
June 9, 2021 11:00	4.30	1.40
June 9, 2021 12:00	4.28	1.40
June 9, 2021 13:00	4.24	1.35
June 9, 2021 14:00	4.41	1.36
June 9, 2021 15:00	4.33	1.33
June 9, 2021 16:00	4.07	1.29
June 9, 2021 17:00	3.65	1.25



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June 9, 2021 18:00	3.33	1.16
June 9, 2021 19:00	3.07	1.01
June 9, 2021 20:00	2.85	0.93
June 9, 2021 21:00	2.57	0.87
June 9, 2021 22:00	2.29	0.80
June 9, 2021 23:00	2.50	0.80
June 10, 2021 0:00	2.41	0.78
June 10, 2021 1:00	2.31	0.71
June 10, 2021 2:00	2.31	0.70
June 10, 2021 3:00	2.11	0.70
June 10, 2021 4:00	2.09	0.69
June 10, 2021 5:00	2.23	0.67
June 10, 2021 6:00	2.45	0.71
June 10, 2021 7:00	2.62	0.75
June 10, 2021 8:00	3.22	0.96
June 10, 2021 9:00	3.82	1.20
June 10, 2021 10:00	4.02	1.19
June 10, 2021 11:00	4.25	1.27
June 10, 2021 12:00	4.38	1.34
June 10, 2021 13:00	4.25	1.31
June 10, 2021 14:00	4.07	1.17
June 10, 2021 15:00	3.90	1.13
June 10, 2021 16:00	3.71	1.05
June 10, 2021 17:00	3.38	1.00
June 10, 2021 18:00	2.95	0.95
June 10, 2021 19:00	2.86	0.91
June 10, 2021 20:00	2.82	0.90
June 10, 2021 21:00	2.51	0.83
June 10, 2021 22:00	2.28	0.80
June 10, 2021 23:00	2.50	0.82
June 11, 2021 0:00	2.46	0.79
June 11, 2021 1:00	2.28	0.69
June 11, 2021 2:00	2.22	0.63
June 11, 2021 3:00	2.05	0.62
June 11, 2021 4:00	2.06	0.61
June 11, 2021 5:00	2.19	0.64
June 11, 2021 6:00	2.33	0.72
June 11, 2021 7:00	2.62	0.86
June 11, 2021 8:00	3.10	0.98
June 11, 2021 9:00	3.56	1.09
June 11, 2021 10:00	3.70	1.18
June 11, 2021 11:00	3.71	1.08
June 11, 2021 12:00	3.77	1.15
June 11, 2021 13:00	3.76	1.11
June 11, 2021 14:00	3.81	1.17
June 11, 2021 15:00	3.74	1.20
June 11, 2021 16:00	3.51	1.18
June 11, 2021 17:00	3.21	1.12
June 11, 2021 18:00	2.93	0.96
June 11, 2021 19:00	2.80	0.94
June 11, 2021 20:00	2.79	0.91
June 11, 2021 21:00	2.56	0.84
June 11, 2021 22:00	2.19	0.76
June 11, 2021 23:00	2.16	0.72
June 12, 2021 0:00	2.14	0.69
June 12, 2021 1:00	1.98	0.67
June 12, 2021 2:00	1.96	0.67
June 12, 2021 3:00	1.92	0.67
June 12, 2021 4:00	1.93	0.64
June 12, 2021 5:00	2.04	0.60
June 12, 2021 6:00	1.93	0.56
June 12, 2021 7:00	2.00	0.62
June 12, 2021 8:00	2.20	0.67
June 12, 2021 9:00	2.42	0.74
June 12, 2021 10:00	2.80	0.95



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June 12, 2021 11:00	2.83	0.91
June 12, 2021 12:00	2.93	0.99
June 12, 2021 13:00	2.83	0.98
June 12, 2021 14:00	2.57	0.87
June 12, 2021 15:00	2.67	0.93
June 12, 2021 16:00	2.53	0.94
June 12, 2021 17:00	2.54	0.93
June 12, 2021 18:00	2.47	0.92
June 12, 2021 19:00	2.37	0.90
June 12, 2021 20:00	2.24	0.88
June 12, 2021 21:00	2.19	0.87
June 12, 2021 22:00	2.10	0.80
June 12, 2021 23:00	2.17	0.75
June 13, 2021 0:00	2.11	0.69
June 13, 2021 1:00	1.99	0.63
June 13, 2021 2:00	1.99	0.62
June 13, 2021 3:00	2.00	0.62
June 13, 2021 4:00	2.12	0.62
June 13, 2021 5:00	2.14	0.62
June 13, 2021 6:00	1.95	0.62
June 13, 2021 7:00	1.94	0.73
June 13, 2021 8:00	2.04	0.75
June 13, 2021 9:00	2.09	0.71
June 13, 2021 10:00	2.26	0.76
June 13, 2021 11:00	2.38	0.83
June 13, 2021 12:00	2.45	0.91
June 13, 2021 13:00	2.61	0.97
June 13, 2021 14:00	2.72	1.02
June 13, 2021 15:00	2.80	1.14
June 13, 2021 16:00	2.80	1.15
June 13, 2021 17:00	2.81	1.16
June 13, 2021 18:00	2.78	1.16
June 13, 2021 19:00	2.62	1.11
June 13, 2021 20:00	2.41	1.05
June 13, 2021 21:00	2.27	0.98
June 13, 2021 22:00	2.11	0.88
June 13, 2021 23:00	2.20	0.84
June 14, 2021 0:00	2.16	0.81
June 14, 2021 1:00	2.07	0.77
June 14, 2021 2:00	2.00	0.73
June 14, 2021 3:00	2.01	0.71
June 14, 2021 4:00	2.02	0.71
June 14, 2021 5:00	2.27	0.71
June 14, 2021 6:00	2.30	0.74
June 14, 2021 7:00	2.74	0.97
June 14, 2021 8:00	3.25	1.14
June 14, 2021 9:00	3.62	1.16
June 14, 2021 10:00	4.08	1.37
June 14, 2021 11:00	4.39	1.54
June 14, 2021 12:00	4.51	1.60
June 14, 2021 13:00	4.54	1.66
June 14, 2021 14:00	4.72	1.72
June 14, 2021 15:00	4.70	1.80
June 14, 2021 16:00	4.64	1.82
June 14, 2021 17:00	4.19	1.65
June 14, 2021 18:00	3.77	1.52
June 14, 2021 19:00	3.52	1.44
June 14, 2021 20:00	3.36	1.36
June 14, 2021 21:00	2.99	1.20
June 14, 2021 22:00	2.58	1.02
June 14, 2021 23:00	2.66	1.00
June 15, 2021 0:00	2.57	0.95
June 15, 2021 1:00	2.27	0.83
June 15, 2021 2:00	2.20	0.81
June 15, 2021 3:00	2.12	0.78



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June 15, 2021 4:00	2.12	0.74
June 15, 2021 5:00	2.24	0.75
June 15, 2021 6:00	2.49	0.85
June 15, 2021 7:00	3.03	1.07
June 15, 2021 8:00	3.62	1.32
June 15, 2021 9:00	4.23	1.56
June 15, 2021 10:00	4.47	1.59
June 15, 2021 11:00	4.64	1.67
June 15, 2021 12:00	4.73	1.79
June 15, 2021 13:00	4.59	1.74
June 15, 2021 14:00	4.74	1.82
June 15, 2021 15:00	4.72	1.80
June 15, 2021 16:00	4.29	1.63
June 15, 2021 17:00	3.80	1.44
June 15, 2021 18:00	3.45	1.39
June 15, 2021 19:00	3.37	1.32
June 15, 2021 20:00	3.27	1.21
June 15, 2021 21:00	2.90	1.10
June 15, 2021 22:00	2.58	1.04
June 15, 2021 23:00	2.72	0.98
June 16, 2021 0:00	2.60	0.88
June 16, 2021 1:00	2.20	0.72
June 16, 2021 2:00	2.15	0.70
June 16, 2021 3:00	2.04	0.72
June 16, 2021 4:00	2.06	0.71
June 16, 2021 5:00	2.16	0.68
June 16, 2021 6:00	2.51	0.81
June 16, 2021 7:00	2.83	0.94
June 16, 2021 8:00	3.37	1.16
June 16, 2021 9:00	3.96	1.40
June 16, 2021 10:00	4.21	1.48
June 16, 2021 11:00	4.39	1.57
June 16, 2021 12:00	4.51	1.63
June 16, 2021 13:00	4.34	1.53
June 16, 2021 14:00	4.39	1.59
June 16, 2021 15:00	4.39	1.59
June 16, 2021 16:00	4.20	1.53
June 16, 2021 17:00	3.58	1.32
June 16, 2021 18:00	3.20	1.17
June 16, 2021 19:00	3.05	1.10
June 16, 2021 20:00	3.03	1.07
June 16, 2021 21:00	2.79	1.03
June 16, 2021 22:00	2.49	1.00
June 16, 2021 23:00	2.62	0.95
June 17, 2021 0:00	2.60	0.88
June 17, 2021 1:00	2.28	0.73
June 17, 2021 2:00	2.19	0.70
June 17, 2021 3:00	2.09	0.69
June 17, 2021 4:00	2.08	0.67
June 17, 2021 5:00	2.16	0.66
June 17, 2021 6:00	2.26	0.72
June 17, 2021 7:00	2.47	0.79
June 17, 2021 8:00	3.19	1.08
June 17, 2021 9:00	3.80	1.34
June 17, 2021 10:00	4.32	1.58
June 17, 2021 11:00	4.49	1.67
June 17, 2021 12:00	4.53	1.75
June 17, 2021 13:00	4.64	1.76
June 17, 2021 14:00	4.75	1.88
June 17, 2021 15:00	4.73	1.85
June 17, 2021 16:00	4.13	1.54
June 17, 2021 17:00	3.58	1.30
June 17, 2021 18:00	3.31	1.22
June 17, 2021 19:00	3.10	1.16
June 17, 2021 20:00	3.03	1.12



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June 17, 2021 21:00	2.74	1.03
June 17, 2021 22:00	2.41	0.93
June 17, 2021 23:00	2.53	0.84
June 18, 2021 0:00	2.48	0.78
June 18, 2021 1:00	2.13	0.66
June 18, 2021 2:00	2.08	0.65
June 18, 2021 3:00	2.02	0.65
June 18, 2021 4:00	2.03	0.64
June 18, 2021 5:00	2.16	0.64
June 18, 2021 6:00	2.21	0.82
June 18, 2021 7:00	2.53	0.87
June 18, 2021 8:00	3.18	1.07
June 18, 2021 9:00	3.69	1.24
June 18, 2021 10:00	3.92	1.26
June 18, 2021 11:00	4.06	1.33
June 18, 2021 12:00	4.21	1.54
June 18, 2021 13:00	4.17	1.48
June 18, 2021 14:00	4.38	1.66
June 18, 2021 15:00	4.17	1.60
June 18, 2021 16:00	3.93	1.49
June 18, 2021 17:00	3.52	1.38
June 18, 2021 18:00	3.29	1.34
June 18, 2021 19:00	3.17	1.29
June 18, 2021 20:00	3.15	1.23
June 18, 2021 21:00	2.91	1.15
June 18, 2021 22:00	2.55	1.02
June 18, 2021 23:00	2.31	0.83
June 19, 2021 0:00	2.21	0.83
June 19, 2021 1:00	2.06	0.70
June 19, 2021 2:00	2.03	0.68
June 19, 2021 3:00	2.05	0.67
June 19, 2021 4:00	2.04	0.66
June 19, 2021 5:00	2.06	0.64
June 19, 2021 6:00	2.08	0.75
June 19, 2021 7:00	2.19	0.91
June 19, 2021 8:00	2.36	0.95
June 19, 2021 9:00	2.50	0.94
June 19, 2021 10:00	2.65	0.93
June 19, 2021 11:00	2.81	0.97
June 19, 2021 12:00	2.92	0.99
June 19, 2021 13:00	2.75	0.98
June 19, 2021 14:00	2.67	0.89
June 19, 2021 15:00	2.59	0.83
June 19, 2021 16:00	2.51	0.85
June 19, 2021 17:00	2.48	0.83
June 19, 2021 18:00	2.41	0.80
June 19, 2021 19:00	2.26	0.77
June 19, 2021 20:00	2.14	0.75
June 19, 2021 21:00	2.01	0.74
June 19, 2021 22:00	2.02	0.74
June 19, 2021 23:00	2.04	0.71
June 20, 2021 0:00	2.02	0.68
June 20, 2021 1:00	1.96	0.65
June 20, 2021 2:00	1.88	0.64
June 20, 2021 3:00	1.94	0.65
June 20, 2021 4:00	2.03	0.65
June 20, 2021 5:00	2.06	0.65
June 20, 2021 6:00	1.92	0.65
June 20, 2021 7:00	1.84	0.71
June 20, 2021 8:00	1.89	0.73
June 20, 2021 9:00	1.92	0.71
June 20, 2021 10:00	2.06	0.73
June 20, 2021 11:00	2.25	0.77
June 20, 2021 12:00	2.42	0.81
June 20, 2021 13:00	2.41	0.84



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June 20, 2021 14:00	2.44	0.85
June 20, 2021 15:00	2.45	0.91
June 20, 2021 16:00	2.47	0.92
June 20, 2021 17:00	2.50	0.94
June 20, 2021 18:00	2.43	0.96
June 20, 2021 19:00	2.26	0.90
June 20, 2021 20:00	2.12	0.87
June 20, 2021 21:00	1.97	0.82
June 20, 2021 22:00	1.88	0.78
June 20, 2021 23:00	2.06	0.74
June 21, 2021 0:00	2.06	0.71
June 21, 2021 1:00	1.96	0.71
June 21, 2021 2:00	1.90	0.71
June 21, 2021 3:00	1.87	0.71
June 21, 2021 4:00	1.94	0.71
June 21, 2021 5:00	2.11	0.71
June 21, 2021 6:00	2.26	0.73
June 21, 2021 7:00	2.64	0.85
June 21, 2021 8:00	3.29	1.09
June 21, 2021 9:00	3.52	1.15
June 21, 2021 10:00	3.92	1.28
June 21, 2021 11:00	4.25	1.50
June 21, 2021 12:00	4.31	1.54
June 21, 2021 13:00	4.34	1.60
June 21, 2021 14:00	4.68	1.73
June 21, 2021 15:00	4.55	1.70
June 21, 2021 16:00	4.08	1.49
June 21, 2021 17:00	3.70	1.38
June 21, 2021 18:00	3.40	1.30
June 21, 2021 19:00	3.29	1.27
June 21, 2021 20:00	3.19	1.22
June 21, 2021 21:00	2.91	1.13
June 21, 2021 22:00	2.55	1.03
June 21, 2021 23:00	2.54	0.93
June 22, 2021 0:00	2.56	0.85
June 22, 2021 1:00	2.32	0.77
June 22, 2021 2:00	2.25	0.73
June 22, 2021 3:00	2.11	0.73
June 22, 2021 4:00	2.06	0.76
June 22, 2021 5:00	2.12	0.79
June 22, 2021 6:00	2.39	0.82
June 22, 2021 7:00	2.63	0.82
June 22, 2021 8:00	3.12	1.06
June 22, 2021 9:00	3.78	1.32
June 22, 2021 10:00	4.22	1.52
June 22, 2021 11:00	4.50	1.61
June 22, 2021 12:00	4.41	1.57
June 22, 2021 13:00	4.57	1.59
June 22, 2021 14:00	4.85	1.83
June 22, 2021 15:00	4.88	1.88
June 22, 2021 16:00	4.49	1.71
June 22, 2021 17:00	3.99	1.55
June 22, 2021 18:00	3.67	1.49
June 22, 2021 19:00	3.53	1.43
June 22, 2021 20:00	3.51	1.37
June 22, 2021 21:00	3.18	1.29
June 22, 2021 22:00	2.74	1.14
June 22, 2021 23:00	2.75	1.00
June 23, 2021 0:00	2.73	0.99
June 23, 2021 1:00	2.38	0.89
June 23, 2021 2:00	2.26	0.83
June 23, 2021 3:00	2.17	0.78
June 23, 2021 4:00	2.14	0.76
June 23, 2021 5:00	2.22	0.78
June 23, 2021 6:00	2.39	0.80



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June 23, 2021 7:00	2.83	0.99
June 23, 2021 8:00	3.45	1.22
June 23, 2021 9:00	3.75	1.26
June 23, 2021 10:00	4.13	1.35
June 23, 2021 11:00	4.21	1.49
June 23, 2021 12:00	4.25	1.53
June 23, 2021 13:00	4.34	1.53
June 23, 2021 14:00	4.37	1.61
June 23, 2021 15:00	4.36	1.56
June 23, 2021 16:00	4.17	1.53
June 23, 2021 17:00	3.67	1.36
June 23, 2021 18:00	3.36	1.28
June 23, 2021 19:00	3.08	1.18
June 23, 2021 20:00	3.02	1.13
June 23, 2021 21:00	2.69	0.98
June 23, 2021 22:00	2.43	0.86
June 23, 2021 23:00	2.53	0.86
June 24, 2021 0:00	2.49	0.83
June 24, 2021 1:00	2.24	0.77
June 24, 2021 2:00	2.21	0.71
June 24, 2021 3:00	2.06	0.71
June 24, 2021 4:00	2.03	0.71
June 24, 2021 5:00	2.14	0.71
June 24, 2021 6:00	2.62	0.85
June 24, 2021 7:00	2.95	0.89
June 24, 2021 8:00	3.38	1.11
June 24, 2021 9:00	3.93	1.32
June 24, 2021 10:00	4.30	1.37
June 24, 2021 11:00	4.46	1.46
June 24, 2021 12:00	4.45	1.51
June 24, 2021 13:00	4.29	1.41
June 24, 2021 14:00	4.43	1.49
June 24, 2021 15:00	4.13	1.34
June 24, 2021 16:00	3.85	1.27
June 24, 2021 17:00	3.52	1.19
June 24, 2021 18:00	3.09	1.11
June 24, 2021 19:00	3.03	1.14
June 24, 2021 20:00	3.02	1.12
June 24, 2021 21:00	2.74	1.04
June 24, 2021 22:00	2.47	0.92
June 24, 2021 23:00	2.58	0.88
June 25, 2021 0:00	2.50	0.84
June 25, 2021 1:00	2.18	0.68
June 25, 2021 2:00	2.13	0.69
June 25, 2021 3:00	2.11	0.70
June 25, 2021 4:00	2.10	0.71
June 25, 2021 5:00	2.23	0.73
June 25, 2021 6:00	2.52	0.86
June 25, 2021 7:00	2.73	0.93
June 25, 2021 8:00	3.17	1.07
June 25, 2021 9:00	3.76	1.26
June 25, 2021 10:00	4.08	1.35
June 25, 2021 11:00	4.30	1.55
June 25, 2021 12:00	4.44	1.63
June 25, 2021 13:00	4.40	1.60
June 25, 2021 14:00	4.57	1.67
June 25, 2021 15:00	4.56	1.68
June 25, 2021 16:00	4.29	1.62
June 25, 2021 17:00	3.95	1.54
June 25, 2021 18:00	3.65	1.50
June 25, 2021 19:00	3.42	1.43
June 25, 2021 20:00	3.32	1.38
June 25, 2021 21:00	2.92	1.15
June 25, 2021 22:00	2.55	1.03
June 25, 2021 23:00	2.36	0.90



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June 26, 2021 0:00	2.27	0.85
June 26, 2021 1:00	2.16	0.79
June 26, 2021 2:00	2.15	0.77
June 26, 2021 3:00	2.12	0.77
June 26, 2021 4:00	2.13	0.77
June 26, 2021 5:00	2.18	0.77
June 26, 2021 6:00	1.97	0.76
June 26, 2021 7:00	2.16	0.88
June 26, 2021 8:00	2.40	0.95
June 26, 2021 9:00	2.66	1.10
June 26, 2021 10:00	2.93	1.20
June 26, 2021 11:00	3.04	1.25
June 26, 2021 12:00	3.16	1.31
June 26, 2021 13:00	3.33	1.38
June 26, 2021 14:00	3.23	1.34
June 26, 2021 15:00	3.18	1.30
June 26, 2021 16:00	3.18	1.29
June 26, 2021 17:00	3.11	1.28
June 26, 2021 18:00	3.08	1.28
June 26, 2021 19:00	2.92	1.26
June 26, 2021 20:00	2.76	1.16
June 26, 2021 21:00	2.53	1.07
June 26, 2021 22:00	2.35	1.02
June 26, 2021 23:00	2.34	0.90
June 27, 2021 0:00	2.32	0.84
June 27, 2021 1:00	2.26	0.80
June 27, 2021 2:00	2.13	0.78
June 27, 2021 3:00	2.19	0.77
June 27, 2021 4:00	2.20	0.76
June 27, 2021 5:00	2.21	0.75
June 27, 2021 6:00	2.04	0.74
June 27, 2021 7:00	2.07	0.79
June 27, 2021 8:00	2.18	0.85
June 27, 2021 9:00	2.36	0.93
June 27, 2021 10:00	2.53	1.03
June 27, 2021 11:00	2.87	1.12
June 27, 2021 12:00	3.02	1.19
June 27, 2021 13:00	3.09	1.22
June 27, 2021 14:00	3.13	1.25
June 27, 2021 15:00	3.13	1.28
June 27, 2021 16:00	3.09	1.32
June 27, 2021 17:00	3.08	1.29
June 27, 2021 18:00	3.00	1.26
June 27, 2021 19:00	2.83	1.22
June 27, 2021 20:00	2.64	1.16
June 27, 2021 21:00	2.39	1.09
June 27, 2021 22:00	2.25	1.00
June 27, 2021 23:00	2.34	0.95
June 28, 2021 0:00	2.29	0.88
June 28, 2021 1:00	2.19	0.80
June 28, 2021 2:00	2.09	0.73
June 28, 2021 3:00	2.08	0.76
June 28, 2021 4:00	2.13	0.72
June 28, 2021 5:00	2.17	0.71
June 28, 2021 6:00	2.36	0.74
June 28, 2021 7:00	2.74	0.95
June 28, 2021 8:00	3.30	1.18
June 28, 2021 9:00	3.93	1.47
June 28, 2021 10:00	4.32	1.56
June 28, 2021 11:00	4.60	1.82
June 28, 2021 12:00	4.76	1.88
June 28, 2021 13:00	4.88	1.91
June 28, 2021 14:00	5.15	1.99
June 28, 2021 15:00	4.98	1.96
June 28, 2021 16:00	4.64	1.80



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June 28, 2021 17:00	4.35	1.76
June 28, 2021 18:00	4.08	1.71
June 28, 2021 19:00	3.96	1.66
June 28, 2021 20:00	3.85	1.60
June 28, 2021 21:00	3.55	1.48
June 28, 2021 22:00	2.95	1.22
June 28, 2021 23:00	2.96	1.08
June 29, 2021 0:00	2.85	1.01
June 29, 2021 1:00	2.48	0.91
June 29, 2021 2:00	2.40	0.85
June 29, 2021 3:00	2.30	0.86
June 29, 2021 4:00	2.24	0.83
June 29, 2021 5:00	2.27	0.80
June 29, 2021 6:00	2.50	0.87
June 29, 2021 7:00	2.80	1.01
June 29, 2021 8:00	3.75	1.45
June 29, 2021 9:00	4.40	1.68
June 29, 2021 10:00	4.68	1.79
June 29, 2021 11:00	5.14	1.99
June 29, 2021 12:00	5.05	1.91
June 29, 2021 13:00	5.20	1.99
June 29, 2021 14:00	5.31	2.14
June 29, 2021 15:00	5.17	1.99
June 29, 2021 16:00	4.83	1.94
June 29, 2021 17:00	4.49	1.89
June 29, 2021 18:00	4.23	1.81
June 29, 2021 19:00	3.99	1.70
June 29, 2021 20:00	3.81	1.63
June 29, 2021 21:00	3.49	1.47
June 29, 2021 22:00	2.95	1.32
June 29, 2021 23:00	2.92	1.17
June 30, 2021 0:00	2.81	1.11
June 30, 2021 1:00	2.43	0.95
June 30, 2021 2:00	2.28	0.93
June 30, 2021 3:00	2.23	0.87
June 30, 2021 4:00	2.20	0.82
June 30, 2021 5:00	2.23	0.81
June 30, 2021 6:00	2.37	0.82
June 30, 2021 7:00	2.83	1.03
June 30, 2021 8:00	3.68	1.43
June 30, 2021 9:00	4.16	1.62
June 30, 2021 10:00	4.48	1.70
June 30, 2021 11:00	4.74	1.83
June 30, 2021 12:00	5.08	1.99
June 30, 2021 13:00	5.13	1.99
June 30, 2021 14:00	5.06	1.96
June 30, 2021 15:00	5.00	1.96
June 30, 2021 16:00	4.77	1.89
June 30, 2021 17:00	4.24	1.76
June 30, 2021 18:00	3.97	1.67
June 30, 2021 19:00	3.76	1.62
June 30, 2021 20:00	3.55	1.51
June 30, 2021 21:00	3.17	1.37
June 30, 2021 22:00	2.69	1.17
June 30, 2021 23:00	2.73	1.10
July 1, 2021 0:00	2.66	1.04
July 1, 2021 1:00	2.30	0.90
July 1, 2021 2:00	2.21	0.87
July 1, 2021 3:00	2.16	0.86
July 1, 2021 4:00	2.19	0.84
July 1, 2021 5:00	2.20	0.82
July 1, 2021 6:00	2.22	0.87
July 1, 2021 7:00	2.20	0.82
July 1, 2021 8:00	2.60	0.94
July 1, 2021 9:00	2.84	1.07



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July 1, 2021 10:00	3.14	1.15
July 1, 2021 11:00	3.47	1.37
July 1, 2021 12:00	3.78	1.54
July 1, 2021 13:00	3.86	1.57
July 1, 2021 14:00	3.80	1.59
July 1, 2021 15:00	3.75	1.55
July 1, 2021 16:00	3.66	1.55
July 1, 2021 17:00	3.43	1.50
July 1, 2021 18:00	3.38	1.53
July 1, 2021 19:00	3.27	1.49
July 1, 2021 20:00	3.15	1.44
July 1, 2021 21:00	2.78	1.27
July 1, 2021 22:00	2.50	1.10
July 1, 2021 23:00	2.45	0.98
July 2, 2021 0:00	2.34	0.91
July 2, 2021 1:00	2.20	0.83
July 2, 2021 2:00	2.22	0.84
July 2, 2021 3:00	2.21	0.84
July 2, 2021 4:00	2.25	0.85
July 2, 2021 5:00	2.25	0.86
July 2, 2021 6:00	2.15	0.88
July 2, 2021 7:00	2.19	0.90
July 2, 2021 8:00	2.53	1.02
July 2, 2021 9:00	2.83	1.03
July 2, 2021 10:00	3.17	1.14
July 2, 2021 11:00	3.23	1.19
July 2, 2021 12:00	3.44	1.29
July 2, 2021 13:00	3.51	1.31
July 2, 2021 14:00	3.64	1.43
July 2, 2021 15:00	3.61	1.51
July 2, 2021 16:00	3.63	1.50
July 2, 2021 17:00	3.39	1.32
July 2, 2021 18:00	3.04	1.18
July 2, 2021 19:00	2.85	1.02
July 2, 2021 20:00	2.70	0.94
July 2, 2021 21:00	2.48	0.90
July 2, 2021 22:00	2.18	0.86
July 2, 2021 23:00	2.21	0.86
July 3, 2021 0:00	2.20	0.84
July 3, 2021 1:00	2.12	0.75
July 3, 2021 2:00	2.04	0.74
July 3, 2021 3:00	2.06	0.73
July 3, 2021 4:00	2.06	0.73
July 3, 2021 5:00	2.07	0.74
July 3, 2021 6:00	2.19	0.89
July 3, 2021 7:00	1.98	0.89
July 3, 2021 8:00	2.16	0.94
July 3, 2021 9:00	2.36	0.98
July 3, 2021 10:00	2.62	1.01
July 3, 2021 11:00	2.84	1.12
July 3, 2021 12:00	2.93	1.17
July 3, 2021 13:00	2.86	1.11
July 3, 2021 14:00	2.91	1.18
July 3, 2021 15:00	2.95	1.24
July 3, 2021 16:00	2.95	1.27
July 3, 2021 17:00	2.89	1.23
July 3, 2021 18:00	2.73	1.18
July 3, 2021 19:00	2.66	1.15
July 3, 2021 20:00	2.48	1.04
July 3, 2021 21:00	2.30	0.96
July 3, 2021 22:00	2.18	0.88
July 3, 2021 23:00	2.24	0.82
July 4, 2021 0:00	2.19	0.80
July 4, 2021 1:00	2.11	0.81
July 4, 2021 2:00	2.08	0.77



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July 4, 2021 3:00	2.08	0.75
July 4, 2021 4:00	2.16	0.74
July 4, 2021 5:00	2.18	0.74
July 4, 2021 6:00	2.02	0.64
July 4, 2021 7:00	1.88	0.62
July 4, 2021 8:00	1.97	0.71
July 4, 2021 9:00	2.10	0.85
July 4, 2021 10:00	2.22	0.85
July 4, 2021 11:00	2.35	0.85
July 4, 2021 12:00	2.41	0.84
July 4, 2021 13:00	2.45	0.86
July 4, 2021 14:00	2.50	0.94
July 4, 2021 15:00	2.48	0.97
July 4, 2021 16:00	2.48	0.95
July 4, 2021 17:00	2.48	0.92
July 4, 2021 18:00	2.29	0.88
July 4, 2021 19:00	2.15	0.82
July 4, 2021 20:00	1.99	0.76
July 4, 2021 21:00	1.86	0.70
July 4, 2021 22:00	1.87	0.69
July 4, 2021 23:00	2.06	0.69
July 5, 2021 0:00	2.06	0.69
July 5, 2021 1:00	2.02	0.69
July 5, 2021 2:00	1.98	0.69
July 5, 2021 3:00	1.98	0.68
July 5, 2021 4:00	2.02	0.69
July 5, 2021 5:00	2.13	0.73
July 5, 2021 6:00	2.38	0.76
July 5, 2021 7:00	2.59	0.79
July 5, 2021 8:00	3.13	1.00
July 5, 2021 9:00	3.86	1.31
July 5, 2021 10:00	4.10	1.28
July 5, 2021 11:00	4.17	1.37
July 5, 2021 12:00	4.27	1.40
July 5, 2021 13:00	4.14	1.30
July 5, 2021 14:00	4.31	1.45
July 5, 2021 15:00	4.12	1.38
July 5, 2021 16:00	3.83	1.21
July 5, 2021 17:00	3.39	1.11
July 5, 2021 18:00	3.12	1.06
July 5, 2021 19:00	2.93	1.02
July 5, 2021 20:00	2.84	1.00
July 5, 2021 21:00	2.60	0.88
July 5, 2021 22:00	2.32	0.81
July 5, 2021 23:00	2.47	0.82
July 6, 2021 0:00	2.43	0.79
July 6, 2021 1:00	2.30	0.76
July 6, 2021 2:00	2.26	0.73
July 6, 2021 3:00	2.14	0.69
July 6, 2021 4:00	2.10	0.69
July 6, 2021 5:00	2.22	0.70
July 6, 2021 6:00	2.57	0.82
July 6, 2021 7:00	2.89	0.95
July 6, 2021 8:00	3.21	1.09
July 6, 2021 9:00	3.69	1.29
July 6, 2021 10:00	4.18	1.38
July 6, 2021 11:00	4.23	1.40
July 6, 2021 12:00	4.34	1.49
July 6, 2021 13:00	4.54	1.60
July 6, 2021 14:00	4.69	1.75
July 6, 2021 15:00	4.56	1.69
July 6, 2021 16:00	4.42	1.69
July 6, 2021 17:00	3.86	1.52
July 6, 2021 18:00	3.62	1.36
July 6, 2021 19:00	3.29	1.23



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July 6, 2021 20:00	3.10	1.13
July 6, 2021 21:00	2.86	1.02
July 6, 2021 22:00	2.55	0.97
July 6, 2021 23:00	2.65	0.94
July 7, 2021 0:00	2.55	0.86
July 7, 2021 1:00	2.26	0.77
July 7, 2021 2:00	2.13	0.73
July 7, 2021 3:00	2.04	0.70
July 7, 2021 4:00	2.08	0.70
July 7, 2021 5:00	2.16	0.76
July 7, 2021 6:00	2.46	0.88
July 7, 2021 7:00	2.96	1.03
July 7, 2021 8:00	3.60	1.27
July 7, 2021 9:00	3.99	1.43
July 7, 2021 10:00	4.28	1.50
July 7, 2021 11:00	4.49	1.68
July 7, 2021 12:00	4.59	1.77
July 7, 2021 13:00	4.53	1.70
July 7, 2021 14:00	4.77	1.93
July 7, 2021 15:00	4.73	1.83
July 7, 2021 16:00	4.54	1.69
July 7, 2021 17:00	4.04	1.58
July 7, 2021 18:00	3.77	1.53
July 7, 2021 19:00	3.56	1.45
July 7, 2021 20:00	3.19	1.28
July 7, 2021 21:00	2.97	1.16
July 7, 2021 22:00	2.87	1.08
July 7, 2021 23:00	2.80	1.06
July 8, 2021 0:00	2.63	0.98
July 8, 2021 1:00	2.24	0.79
July 8, 2021 2:00	2.23	0.73
July 8, 2021 3:00	2.03	0.69
July 8, 2021 4:00	2.02	0.69
July 8, 2021 5:00	2.13	0.74
July 8, 2021 6:00	2.46	0.81
July 8, 2021 7:00	2.92	1.04
July 8, 2021 8:00	3.43	1.25
July 8, 2021 9:00	3.92	1.37
July 8, 2021 10:00	4.04	1.38
July 8, 2021 11:00	4.33	1.60
July 8, 2021 12:00	4.38	1.63
July 8, 2021 13:00	4.44	1.60
July 8, 2021 14:00	4.54	1.67
July 8, 2021 15:00	4.80	1.85
July 8, 2021 16:00	4.55	1.77
July 8, 2021 17:00	3.89	1.53
July 8, 2021 18:00	3.69	1.50
July 8, 2021 19:00	3.51	1.43
July 8, 2021 20:00	3.28	1.34
July 8, 2021 21:00	2.90	1.16
July 8, 2021 22:00	2.62	1.05
July 8, 2021 23:00	2.68	1.00
July 9, 2021 0:00	2.62	0.95
July 9, 2021 1:00	2.27	0.80
July 9, 2021 2:00	2.18	0.76
July 9, 2021 3:00	2.11	0.73
July 9, 2021 4:00	2.12	0.75
July 9, 2021 5:00	2.29	0.78
July 9, 2021 6:00	2.44	0.80
July 9, 2021 7:00	2.64	0.93
July 9, 2021 8:00	3.14	1.13
July 9, 2021 9:00	3.81	1.37
July 9, 2021 10:00	4.26	1.54
July 9, 2021 11:00	4.51	1.69
July 9, 2021 12:00	4.65	1.78



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July 9, 2021 13:00	4.67	1.75
July 9, 2021 14:00	4.54	1.73
July 9, 2021 15:00	4.50	1.73
July 9, 2021 16:00	4.34	1.68
July 9, 2021 17:00	3.99	1.68
July 9, 2021 18:00	3.75	1.61
July 9, 2021 19:00	3.56	1.50
July 9, 2021 20:00	3.34	1.39
July 9, 2021 21:00	2.99	1.23
July 9, 2021 22:00	2.57	1.05
July 9, 2021 23:00	2.39	0.88
July 10, 2021 0:00	2.29	0.83
July 10, 2021 1:00	2.13	0.76
July 10, 2021 2:00	2.06	0.75
July 10, 2021 3:00	2.05	0.75
July 10, 2021 4:00	2.07	0.75
July 10, 2021 5:00	2.11	0.77
July 10, 2021 6:00	2.23	0.91
July 10, 2021 7:00	2.10	0.86
July 10, 2021 8:00	2.30	0.88
July 10, 2021 9:00	2.58	0.99
July 10, 2021 10:00	2.84	1.08
July 10, 2021 11:00	3.16	1.25
July 10, 2021 12:00	3.39	1.36
July 10, 2021 13:00	3.31	1.31
July 10, 2021 14:00	3.29	1.37
July 10, 2021 15:00	3.32	1.38
July 10, 2021 16:00	3.38	1.37
July 10, 2021 17:00	3.35	1.36
July 10, 2021 18:00	3.18	1.34
July 10, 2021 19:00	3.02	1.30
July 10, 2021 20:00	2.81	1.23
July 10, 2021 21:00	2.53	1.09
July 10, 2021 22:00	2.28	0.96
July 10, 2021 23:00	2.29	0.85
July 11, 2021 0:00	2.23	0.77
July 11, 2021 1:00	2.13	0.74
July 11, 2021 2:00	2.08	0.73
July 11, 2021 3:00	2.07	0.72
July 11, 2021 4:00	2.11	0.73
July 11, 2021 5:00	2.11	0.73
July 11, 2021 6:00	1.98	0.72
July 11, 2021 7:00	1.83	0.73
July 11, 2021 8:00	1.90	0.74
July 11, 2021 9:00	2.03	0.75
July 11, 2021 10:00	2.19	0.77
July 11, 2021 11:00	2.38	0.78
July 11, 2021 12:00	2.51	0.80
July 11, 2021 13:00	2.48	0.84
July 11, 2021 14:00	2.50	0.89
July 11, 2021 15:00	2.68	0.97
July 11, 2021 16:00	2.70	1.03
July 11, 2021 17:00	2.63	1.06
July 11, 2021 18:00	2.57	1.04
July 11, 2021 19:00	2.39	0.97
July 11, 2021 20:00	2.20	0.90
July 11, 2021 21:00	2.04	0.83
July 11, 2021 22:00	1.95	0.75
July 11, 2021 23:00	2.10	0.70
July 12, 2021 0:00	2.05	0.67
July 12, 2021 1:00	1.97	0.66
July 12, 2021 2:00	1.94	0.66
July 12, 2021 3:00	1.95	0.66
July 12, 2021 4:00	1.97	0.67
July 12, 2021 5:00	2.13	0.71



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July 12, 2021 6:00	2.55	0.87
July 12, 2021 7:00	2.79	0.91
July 12, 2021 8:00	3.26	1.10
July 12, 2021 9:00	3.84	1.32
July 12, 2021 10:00	3.99	1.34
July 12, 2021 11:00	4.24	1.54
July 12, 2021 12:00	4.26	1.52
July 12, 2021 13:00	4.29	1.51
July 12, 2021 14:00	4.37	1.57
July 12, 2021 15:00	4.48	1.62
July 12, 2021 16:00	4.38	1.63
July 12, 2021 17:00	3.85	1.45
July 12, 2021 18:00	3.39	1.33
July 12, 2021 19:00	3.27	1.26
July 12, 2021 20:00	3.06	1.14
July 12, 2021 21:00	2.73	1.02
July 12, 2021 22:00	2.44	0.91
July 12, 2021 23:00	2.57	0.83
July 13, 2021 0:00	2.49	0.79
July 13, 2021 1:00	2.21	0.73
July 13, 2021 2:00	2.09	0.73
July 13, 2021 3:00	2.08	0.74
July 13, 2021 4:00	2.05	0.74
July 13, 2021 5:00	2.21	0.75
July 13, 2021 6:00	2.52	0.79
July 13, 2021 7:00	2.79	0.98
July 13, 2021 8:00	3.39	1.21
July 13, 2021 9:00	3.93	1.44
July 13, 2021 10:00	4.25	1.50
July 13, 2021 11:00	4.48	1.70
July 13, 2021 12:00	4.63	1.82
July 13, 2021 13:00	4.71	1.80
July 13, 2021 14:00	4.67	1.81
July 13, 2021 15:00	4.73	1.80
July 13, 2021 16:00	4.38	1.68
July 13, 2021 17:00	3.96	1.55
July 13, 2021 18:00	3.59	1.43
July 13, 2021 19:00	3.33	1.30
July 13, 2021 20:00	3.21	1.24
July 13, 2021 21:00	2.98	1.14
July 13, 2021 22:00	2.62	0.97
July 13, 2021 23:00	2.66	0.88
July 14, 2021 0:00	2.58	0.83
July 14, 2021 1:00	2.38	0.78
July 14, 2021 2:00	2.28	0.73
July 14, 2021 3:00	2.17	0.74
July 14, 2021 4:00	2.15	0.73
July 14, 2021 5:00	2.25	0.74
July 14, 2021 6:00	2.49	0.78
July 14, 2021 7:00	3.01	1.03
July 14, 2021 8:00	3.59	1.29
July 14, 2021 9:00	4.01	1.48
July 14, 2021 10:00	4.41	1.63
July 14, 2021 11:00	4.45	1.67
July 14, 2021 12:00	4.54	1.73
July 14, 2021 13:00	4.58	1.73
July 14, 2021 14:00	4.79	1.87
July 14, 2021 15:00	4.92	1.93
July 14, 2021 16:00	4.53	1.73
July 14, 2021 17:00	4.13	1.63
July 14, 2021 18:00	3.87	1.60
July 14, 2021 19:00	3.72	1.55
July 14, 2021 20:00	3.52	1.48
July 14, 2021 21:00	3.11	1.35
July 14, 2021 22:00	2.83	1.19



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July 14, 2021 23:00	2.86	1.13
July 15, 2021 0:00	2.73	1.05
July 15, 2021 1:00	2.43	0.89
July 15, 2021 2:00	2.22	0.83
July 15, 2021 3:00	2.12	0.79
July 15, 2021 4:00	2.13	0.81
July 15, 2021 5:00	2.28	0.79
July 15, 2021 6:00	2.50	0.81
July 15, 2021 7:00	2.77	0.92
July 15, 2021 8:00	3.47	1.24
July 15, 2021 9:00	3.97	1.42
July 15, 2021 10:00	4.24	1.51
July 15, 2021 11:00	4.61	1.71
July 15, 2021 12:00	4.87	1.82
July 15, 2021 13:00	4.72	1.69
July 15, 2021 14:00	4.83	1.79
July 15, 2021 15:00	4.89	1.85
July 15, 2021 16:00	4.44	1.64
July 15, 2021 17:00	4.00	1.60
July 15, 2021 18:00	3.85	1.55
July 15, 2021 19:00	3.62	1.49
July 15, 2021 20:00	3.42	1.37
July 15, 2021 21:00	3.02	1.19
July 15, 2021 22:00	2.71	1.06
July 15, 2021 23:00	2.78	0.99
July 16, 2021 0:00	2.64	0.92
July 16, 2021 1:00	2.36	0.85
July 16, 2021 2:00	2.24	0.81
July 16, 2021 3:00	2.11	0.78
July 16, 2021 4:00	2.16	0.77
July 16, 2021 5:00	2.34	0.77
July 16, 2021 6:00	2.66	0.92
July 16, 2021 7:00	2.77	0.96
July 16, 2021 8:00	3.26	1.15
July 16, 2021 9:00	3.71	1.31
July 16, 2021 10:00	4.12	1.39
July 16, 2021 11:00	4.25	1.50
July 16, 2021 12:00	4.49	1.64
July 16, 2021 13:00	4.39	1.55
July 16, 2021 14:00	4.31	1.61
July 16, 2021 15:00	4.30	1.59
July 16, 2021 16:00	3.89	1.48
July 16, 2021 17:00	3.77	1.48
July 16, 2021 18:00	3.59	1.47
July 16, 2021 19:00	3.44	1.42
July 16, 2021 20:00	3.34	1.30
July 16, 2021 21:00	2.92	1.18
July 16, 2021 22:00	2.57	1.02
July 16, 2021 23:00	2.40	0.91
July 17, 2021 0:00	2.23	0.82
July 17, 2021 1:00	2.10	0.74
July 17, 2021 2:00	2.07	0.73
July 17, 2021 3:00	2.04	0.73
July 17, 2021 4:00	2.05	0.72
July 17, 2021 5:00	2.13	0.73
July 17, 2021 6:00	2.31	0.78
July 17, 2021 7:00	2.25	0.85
July 17, 2021 8:00	2.35	0.88
July 17, 2021 9:00	2.56	0.97
July 17, 2021 10:00	2.80	1.01
July 17, 2021 11:00	2.69	0.96
July 17, 2021 12:00	2.73	0.95
July 17, 2021 13:00	2.80	0.99
July 17, 2021 14:00	2.78	1.00
July 17, 2021 15:00	2.84	1.08



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July 17, 2021 16:00	2.89	1.09
July 17, 2021 17:00	2.82	1.10
July 17, 2021 18:00	2.74	1.07
July 17, 2021 19:00	2.58	1.03
July 17, 2021 20:00	2.47	0.97
July 17, 2021 21:00	2.28	0.90
July 17, 2021 22:00	2.14	0.81
July 17, 2021 23:00	2.21	0.77
July 18, 2021 0:00	2.18	0.76
July 18, 2021 1:00	2.14	0.74
July 18, 2021 2:00	2.12	0.73
July 18, 2021 3:00	2.10	0.71
July 18, 2021 4:00	2.11	0.71
July 18, 2021 5:00	2.21	0.70
July 18, 2021 6:00	2.22	0.69
July 18, 2021 7:00	2.02	0.69
July 18, 2021 8:00	2.00	0.73
July 18, 2021 9:00	2.10	0.76
July 18, 2021 10:00	2.28	0.69
July 18, 2021 11:00	2.42	0.70
July 18, 2021 12:00	2.52	0.74
July 18, 2021 13:00	2.49	0.78
July 18, 2021 14:00	2.52	0.82
July 18, 2021 15:00	2.57	0.87
July 18, 2021 16:00	2.58	0.92
July 18, 2021 17:00	2.58	0.97
July 18, 2021 18:00	2.55	1.01
July 18, 2021 19:00	2.36	0.97
July 18, 2021 20:00	2.21	0.89
July 18, 2021 21:00	2.06	0.82
July 18, 2021 22:00	2.10	0.78
July 18, 2021 23:00	2.22	0.76
July 19, 2021 0:00	2.14	0.75
July 19, 2021 1:00	2.10	0.68
July 19, 2021 2:00	2.05	0.68
July 19, 2021 3:00	2.05	0.68
July 19, 2021 4:00	2.05	0.69
July 19, 2021 5:00	2.24	0.73
July 19, 2021 6:00	2.69	0.85
July 19, 2021 7:00	2.98	0.99
July 19, 2021 8:00	3.31	1.08
July 19, 2021 9:00	3.74	1.24
July 19, 2021 10:00	4.07	1.31
July 19, 2021 11:00	4.30	1.32
July 19, 2021 12:00	4.43	1.41
July 19, 2021 13:00	4.27	1.42
July 19, 2021 14:00	4.52	1.52
July 19, 2021 15:00	4.57	1.55
July 19, 2021 16:00	4.10	1.40
July 19, 2021 17:00	3.77	1.37
July 19, 2021 18:00	3.58	1.34
July 19, 2021 19:00	3.29	1.26
July 19, 2021 20:00	3.11	1.19
July 19, 2021 21:00	2.81	1.09
July 19, 2021 22:00	2.65	1.03
July 19, 2021 23:00	2.67	0.97
July 20, 2021 0:00	2.55	0.89
July 20, 2021 1:00	2.25	0.80
July 20, 2021 2:00	2.20	0.77
July 20, 2021 3:00	2.06	0.77
July 20, 2021 4:00	2.10	0.76
July 20, 2021 5:00	2.22	0.77
July 20, 2021 6:00	2.73	0.88
July 20, 2021 7:00	3.12	0.98
July 20, 2021 8:00	3.34	1.02



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July 20, 2021 9:00	3.95	1.36
July 20, 2021 10:00	4.19	1.38
July 20, 2021 11:00	4.23	1.37
July 20, 2021 12:00	4.27	1.37
July 20, 2021 13:00	4.20	1.27
July 20, 2021 14:00	4.48	1.48
July 20, 2021 15:00	4.23	1.44
July 20, 2021 16:00	4.01	1.34
July 20, 2021 17:00	3.59	1.25
July 20, 2021 18:00	3.44	1.26
July 20, 2021 19:00	3.34	1.29
July 20, 2021 20:00	3.30	1.29
July 20, 2021 21:00	2.87	1.09
July 20, 2021 22:00	2.61	0.93
July 20, 2021 23:00	2.69	0.91
July 21, 2021 0:00	2.63	0.84
July 21, 2021 1:00	2.36	0.78
July 21, 2021 2:00	2.27	0.74
July 21, 2021 3:00	2.18	0.70
July 21, 2021 4:00	2.13	0.67
July 21, 2021 5:00	2.24	0.70
July 21, 2021 6:00	2.57	0.67
July 21, 2021 7:00	2.63	0.74
July 21, 2021 8:00	3.34	1.06
July 21, 2021 9:00	3.72	1.27
July 21, 2021 10:00	3.85	1.27
July 21, 2021 11:00	4.24	1.41
July 21, 2021 12:00	4.37	1.47
July 21, 2021 13:00	4.26	1.44
July 21, 2021 14:00	4.50	1.55
July 21, 2021 15:00	4.55	1.63
July 21, 2021 16:00	4.18	1.49
July 21, 2021 17:00	3.86	1.46
July 21, 2021 18:00	3.60	1.40
July 21, 2021 19:00	3.47	1.36
July 21, 2021 20:00	3.37	1.38
July 21, 2021 21:00	3.11	1.26
July 21, 2021 22:00	2.77	1.15
July 21, 2021 23:00	2.84	1.08
July 22, 2021 0:00	2.67	0.95
July 22, 2021 1:00	2.27	0.80
July 22, 2021 2:00	2.19	0.77
July 22, 2021 3:00	2.12	0.76
July 22, 2021 4:00	2.13	0.76
July 22, 2021 5:00	2.25	0.77
July 22, 2021 6:00	2.51	0.77
July 22, 2021 7:00	2.73	0.84
July 22, 2021 8:00	3.31	1.06
July 22, 2021 9:00	3.79	1.22
July 22, 2021 10:00	4.10	1.32
July 22, 2021 11:00	4.25	1.47
July 22, 2021 12:00	4.41	1.51
July 22, 2021 13:00	4.40	1.51
July 22, 2021 14:00	4.51	1.66
July 22, 2021 15:00	4.34	1.61
July 22, 2021 16:00	4.03	1.47
July 22, 2021 17:00	3.60	1.39
July 22, 2021 18:00	3.38	1.24
July 22, 2021 19:00	3.01	1.06
July 22, 2021 20:00	2.90	0.99
July 22, 2021 21:00	2.65	0.86
July 22, 2021 22:00	2.47	0.79
July 22, 2021 23:00	2.57	0.79
July 23, 2021 0:00	2.48	0.80
July 23, 2021 1:00	2.26	0.74



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July 23, 2021 2:00	2.21	0.74
July 23, 2021 3:00	2.11	0.74
July 23, 2021 4:00	2.16	0.72
July 23, 2021 5:00	2.30	0.69
July 23, 2021 6:00	2.48	0.69
July 23, 2021 7:00	2.66	0.75
July 23, 2021 8:00	3.40	1.05
July 23, 2021 9:00	3.76	1.30
July 23, 2021 10:00	4.09	1.34
July 23, 2021 11:00	4.26	1.51
July 23, 2021 12:00	4.22	1.47
July 23, 2021 13:00	4.26	1.52
July 23, 2021 14:00	4.38	1.60
July 23, 2021 15:00	4.42	1.63
July 23, 2021 16:00	4.08	1.52
July 23, 2021 17:00	3.58	1.39
July 23, 2021 18:00	3.36	1.28
July 23, 2021 19:00	3.13	1.25
July 23, 2021 20:00	2.99	1.20
July 23, 2021 21:00	2.61	0.99
July 23, 2021 22:00	2.41	0.84
July 23, 2021 23:00	2.31	0.81
July 24, 2021 0:00	2.20	0.79
July 24, 2021 1:00	2.09	0.73
July 24, 2021 2:00	2.00	0.70
July 24, 2021 3:00	1.99	0.68
July 24, 2021 4:00	2.05	0.68
July 24, 2021 5:00	2.06	0.70
July 24, 2021 6:00	2.41	0.82
July 24, 2021 7:00	2.23	0.77
July 24, 2021 8:00	2.33	0.80
July 24, 2021 9:00	2.64	0.94
July 24, 2021 10:00	2.85	1.00
July 24, 2021 11:00	3.05	1.13
July 24, 2021 12:00	3.13	1.19
July 24, 2021 13:00	3.08	1.18
July 24, 2021 14:00	3.00	1.07
July 24, 2021 15:00	3.06	1.13
July 24, 2021 16:00	3.03	1.21
July 24, 2021 17:00	3.02	1.24
July 24, 2021 18:00	3.03	1.23
July 24, 2021 19:00	2.90	1.16
July 24, 2021 20:00	2.61	1.12
July 24, 2021 21:00	2.32	1.02
July 24, 2021 22:00	2.22	0.82
July 24, 2021 23:00	2.21	0.77
July 25, 2021 0:00	2.16	0.73
July 25, 2021 1:00	2.09	0.70
July 25, 2021 2:00	1.99	0.70
July 25, 2021 3:00	2.04	0.70
July 25, 2021 4:00	2.14	0.71
July 25, 2021 5:00	2.09	0.68
July 25, 2021 6:00	2.08	0.64
July 25, 2021 7:00	1.87	0.61
July 25, 2021 8:00	1.86	0.64
July 25, 2021 9:00	2.09	0.71
July 25, 2021 10:00	1.84	0.61
July 25, 2021 11:00	0.00	0.00
July 25, 2021 12:00	0.00	0.00
July 25, 2021 13:00	0.00	0.00
July 25, 2021 14:00	0.00	0.00
July 25, 2021 15:00	0.00	0.00
July 25, 2021 16:00	0.00	0.00
July 25, 2021 17:00	3.32	1.04
July 25, 2021 18:00	2.55	0.93



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July 25, 2021 19:00	2.73	1.07
July 25, 2021 20:00	2.46	0.98
July 25, 2021 21:00	2.23	0.89
July 25, 2021 22:00	2.24	0.79
July 25, 2021 23:00	2.26	0.72
July 26, 2021 0:00	2.20	0.70
July 26, 2021 1:00	2.06	0.67
July 26, 2021 2:00	2.01	0.64
July 26, 2021 3:00	1.99	0.63
July 26, 2021 4:00	2.02	0.65
July 26, 2021 5:00	2.21	0.66
July 26, 2021 6:00	2.60	0.80
July 26, 2021 7:00	2.84	0.87
July 26, 2021 8:00	3.11	0.93
July 26, 2021 9:00	3.52	1.06
July 26, 2021 10:00	3.88	1.17
July 26, 2021 11:00	4.21	1.35
July 26, 2021 12:00	4.50	1.60
July 26, 2021 13:00	4.50	1.59
July 26, 2021 14:00	4.70	1.78
July 26, 2021 15:00	4.70	1.78
July 26, 2021 16:00	4.14	1.47
July 26, 2021 17:00	3.88	1.44
July 26, 2021 18:00	3.55	1.34
July 26, 2021 19:00	3.41	1.34
July 26, 2021 20:00	3.28	1.23
July 26, 2021 21:00	2.93	1.08
July 26, 2021 22:00	2.70	1.00
July 26, 2021 23:00	2.77	0.95
July 27, 2021 0:00	2.57	0.88
July 27, 2021 1:00	2.32	0.81
July 27, 2021 2:00	2.21	0.78
July 27, 2021 3:00	2.08	0.77
July 27, 2021 4:00	2.11	0.75
July 27, 2021 5:00	2.20	0.73
July 27, 2021 6:00	2.57	0.82
July 27, 2021 7:00	2.92	0.94
July 27, 2021 8:00	3.33	1.15
July 27, 2021 9:00	3.77	1.24
July 27, 2021 10:00	3.98	1.31
July 27, 2021 11:00	4.31	1.50
July 27, 2021 12:00	4.50	1.62
July 27, 2021 13:00	4.37	1.56
July 27, 2021 14:00	4.60	1.69
July 27, 2021 15:00	4.58	1.72
July 27, 2021 16:00	4.16	1.50
July 27, 2021 17:00	3.74	1.42
July 27, 2021 18:00	3.59	1.40
July 27, 2021 19:00	3.25	1.22
July 27, 2021 20:00	3.13	1.13
July 27, 2021 21:00	2.88	1.05
July 27, 2021 22:00	2.65	0.95
July 27, 2021 23:00	2.68	0.94
July 28, 2021 0:00	2.48	0.81
July 28, 2021 1:00	2.23	0.74
July 28, 2021 2:00	2.13	0.73
July 28, 2021 3:00	2.03	0.74
July 28, 2021 4:00	2.08	0.74
July 28, 2021 5:00	2.19	0.75
July 28, 2021 6:00	2.55	0.84
July 28, 2021 7:00	2.86	0.92
July 28, 2021 8:00	3.19	1.12
July 28, 2021 9:00	3.82	1.31
July 28, 2021 10:00	4.15	1.39
July 28, 2021 11:00	4.27	1.46



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July 28, 2021 12:00	4.29	1.47
July 28, 2021 13:00	4.51	1.61
July 28, 2021 14:00	4.53	1.69
July 28, 2021 15:00	4.47	1.68
July 28, 2021 16:00	4.21	1.53
July 28, 2021 17:00	3.89	1.45
July 28, 2021 18:00	3.70	1.41
July 28, 2021 19:00	3.58	1.41
July 28, 2021 20:00	3.42	1.31
July 28, 2021 21:00	3.08	1.19
July 28, 2021 22:00	2.78	1.03
July 28, 2021 23:00	2.74	0.98
July 29, 2021 0:00	2.50	0.87
July 29, 2021 1:00	2.24	0.78
July 29, 2021 2:00	2.13	0.79
July 29, 2021 3:00	2.04	0.75
July 29, 2021 4:00	2.07	0.76
July 29, 2021 5:00	2.17	0.77
July 29, 2021 6:00	2.69	0.89
July 29, 2021 7:00	2.99	1.00
July 29, 2021 8:00	3.38	1.21
July 29, 2021 9:00	3.84	1.34
July 29, 2021 10:00	4.32	1.53
July 29, 2021 11:00	4.51	1.63
July 29, 2021 12:00	4.73	1.83
July 29, 2021 13:00	4.61	1.75
July 29, 2021 14:00	4.78	1.84
July 29, 2021 15:00	4.59	1.77
July 29, 2021 16:00	4.31	1.66
July 29, 2021 17:00	4.01	1.56
July 29, 2021 18:00	3.76	1.52
July 29, 2021 19:00	3.60	1.45
July 29, 2021 20:00	3.41	1.32
July 29, 2021 21:00	2.98	1.14
July 29, 2021 22:00	2.78	1.02
July 29, 2021 23:00	2.80	0.97
July 30, 2021 0:00	2.54	0.88
July 30, 2021 1:00	2.28	0.81
July 30, 2021 2:00	2.15	0.78
July 30, 2021 3:00	2.04	0.73
July 30, 2021 4:00	2.11	0.74
July 30, 2021 5:00	2.32	0.83
July 30, 2021 6:00	2.54	0.90
July 30, 2021 7:00	2.71	0.89
July 30, 2021 8:00	3.15	1.03
July 30, 2021 9:00	3.54	1.20
July 30, 2021 10:00	3.85	1.39
July 30, 2021 11:00	4.32	1.57
July 30, 2021 12:00	4.55	1.73
July 30, 2021 13:00	4.29	1.55
July 30, 2021 14:00	4.29	1.60
July 30, 2021 15:00	4.25	1.62
July 30, 2021 16:00	4.00	1.59
July 30, 2021 17:00	3.82	1.55
July 30, 2021 18:00	3.72	1.56
July 30, 2021 19:00	3.49	1.46
July 30, 2021 20:00	3.23	1.36
July 30, 2021 21:00	2.91	1.17
July 30, 2021 22:00	2.58	0.94
July 30, 2021 23:00	2.45	0.86
July 31, 2021 0:00	2.29	0.82
July 31, 2021 1:00	2.07	0.73
July 31, 2021 2:00	1.96	0.70
July 31, 2021 3:00	1.97	0.69
July 31, 2021 4:00	2.02	0.70



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July 31, 2021 5:00	2.07	0.72
July 31, 2021 6:00	2.28	0.72
July 31, 2021 7:00	2.28	0.80
July 31, 2021 8:00	2.44	0.95
July 31, 2021 9:00	2.57	0.92
July 31, 2021 10:00	2.86	1.06
July 31, 2021 11:00	3.00	1.11
July 31, 2021 12:00	3.10	1.16
July 31, 2021 13:00	3.09	1.09
July 31, 2021 14:00	3.21	1.16
July 31, 2021 15:00	3.22	1.19
July 31, 2021 16:00	3.13	1.22
July 31, 2021 17:00	3.16	1.28
July 31, 2021 18:00	3.13	1.30
July 31, 2021 19:00	2.88	1.23
July 31, 2021 20:00	2.60	1.13
July 31, 2021 21:00	2.35	0.99
July 31, 2021 22:00	2.34	0.92
July 31, 2021 23:00	2.30	0.88
August 1, 2021 0:00	2.18	0.83
August 1, 2021 1:00	2.05	0.79
August 1, 2021 2:00	1.95	0.75
August 1, 2021 3:00	1.95	0.72
August 1, 2021 4:00	2.02	0.71
August 1, 2021 5:00	2.01	0.69
August 1, 2021 6:00	2.13	0.81
August 1, 2021 7:00	1.96	0.73
August 1, 2021 8:00	1.87	0.75
August 1, 2021 9:00	2.12	0.85
August 1, 2021 10:00	2.40	0.96
August 1, 2021 11:00	2.57	0.96
August 1, 2021 12:00	2.76	1.11
August 1, 2021 13:00	2.95	1.23
August 1, 2021 14:00	3.09	1.28
August 1, 2021 15:00	3.13	1.31
August 1, 2021 16:00	3.16	1.35
August 1, 2021 17:00	3.14	1.36
August 1, 2021 18:00	3.08	1.33
August 1, 2021 19:00	2.87	1.30
August 1, 2021 20:00	2.57	1.18
August 1, 2021 21:00	2.39	1.08
August 1, 2021 22:00	2.47	1.04
August 1, 2021 23:00	2.36	0.94
August 2, 2021 0:00	2.25	0.89
August 2, 2021 1:00	2.13	0.83
August 2, 2021 2:00	2.04	0.81
August 2, 2021 3:00	2.03	0.79
August 2, 2021 4:00	2.05	0.76
August 2, 2021 5:00	2.04	0.75
August 2, 2021 6:00	2.17	0.77
August 2, 2021 7:00	2.13	0.81
August 2, 2021 8:00	2.22	0.82
August 2, 2021 9:00	2.28	0.76
August 2, 2021 10:00	2.50	0.77
August 2, 2021 11:00	2.65	0.83
August 2, 2021 12:00	2.78	0.90
August 2, 2021 13:00	2.82	0.96
August 2, 2021 14:00	2.84	0.96
August 2, 2021 15:00	2.87	0.98
August 2, 2021 16:00	2.82	1.00
August 2, 2021 17:00	2.69	1.04
August 2, 2021 18:00	2.60	1.00
August 2, 2021 19:00	2.48	0.97
August 2, 2021 20:00	2.38	0.93
August 2, 2021 21:00	2.22	0.91



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August 2, 2021 22:00	2.27	0.87
August 2, 2021 23:00	2.26	0.83
August 3, 2021 0:00	2.13	0.79
August 3, 2021 1:00	2.02	0.76
August 3, 2021 2:00	1.96	0.75
August 3, 2021 3:00	1.97	0.74
August 3, 2021 4:00	2.00	0.74
August 3, 2021 5:00	2.18	0.76
August 3, 2021 6:00	2.65	0.89
August 3, 2021 7:00	2.98	1.03
August 3, 2021 8:00	3.39	1.18
August 3, 2021 9:00	3.95	1.34
August 3, 2021 10:00	4.39	1.59
August 3, 2021 11:00	4.82	1.76
August 3, 2021 12:00	4.90	1.85
August 3, 2021 13:00	4.93	1.84
August 3, 2021 14:00	5.04	1.99
August 3, 2021 15:00	5.01	1.97
August 3, 2021 16:00	4.59	1.74
August 3, 2021 17:00	4.24	1.62
August 3, 2021 18:00	3.91	1.54
August 3, 2021 19:00	3.71	1.43
August 3, 2021 20:00	3.43	1.37
August 3, 2021 21:00	3.03	1.19
August 3, 2021 22:00	2.81	1.04
August 3, 2021 23:00	2.79	1.01
August 4, 2021 0:00	2.64	0.92
August 4, 2021 1:00	2.44	0.84
August 4, 2021 2:00	2.22	0.80
August 4, 2021 3:00	2.06	0.78
August 4, 2021 4:00	2.10	0.76
August 4, 2021 5:00	2.26	0.74
August 4, 2021 6:00	2.77	0.90
August 4, 2021 7:00	2.82	0.93
August 4, 2021 8:00	3.48	1.26
August 4, 2021 9:00	3.97	1.42
August 4, 2021 10:00	4.26	1.48
August 4, 2021 11:00	4.56	1.68
August 4, 2021 12:00	4.86	1.84
August 4, 2021 13:00	4.89	1.85
August 4, 2021 14:00	5.05	1.94
August 4, 2021 15:00	4.84	1.87
August 4, 2021 16:00	4.34	1.64
August 4, 2021 17:00	4.12	1.51
August 4, 2021 18:00	3.83	1.49
August 4, 2021 19:00	3.66	1.40
August 4, 2021 20:00	3.33	1.26
August 4, 2021 21:00	2.93	1.07
August 4, 2021 22:00	2.82	0.96
August 4, 2021 23:00	2.73	0.94
August 5, 2021 0:00	2.57	0.85
August 5, 2021 1:00	2.42	0.81
August 5, 2021 2:00	2.28	0.79
August 5, 2021 3:00	2.10	0.78
August 5, 2021 4:00	2.12	0.77
August 5, 2021 5:00	2.29	0.76
August 5, 2021 6:00	2.75	0.93
August 5, 2021 7:00	2.83	0.92
August 5, 2021 8:00	3.36	1.14
August 5, 2021 9:00	3.80	1.32
August 5, 2021 10:00	4.16	1.38
August 5, 2021 11:00	4.30	1.55
August 5, 2021 12:00	4.71	1.77
August 5, 2021 13:00	4.80	1.76
August 5, 2021 14:00	4.90	1.88



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August 5, 2021 15:00	4.88	1.86
August 5, 2021 16:00	4.43	1.62
August 5, 2021 17:00	4.13	1.55
August 5, 2021 18:00	3.93	1.56
August 5, 2021 19:00	3.65	1.50
August 5, 2021 20:00	3.50	1.40
August 5, 2021 21:00	3.20	1.25
August 5, 2021 22:00	2.94	1.10
August 5, 2021 23:00	2.81	0.98
August 6, 2021 0:00	2.67	0.91
August 6, 2021 1:00	2.59	0.85
August 6, 2021 2:00	2.43	0.81
August 6, 2021 3:00	2.22	0.73
August 6, 2021 4:00	2.16	0.72
August 6, 2021 5:00	2.39	0.75
August 6, 2021 6:00	2.76	0.86
August 6, 2021 7:00	2.97	0.95
August 6, 2021 8:00	3.45	1.22
August 6, 2021 9:00	3.74	1.33
August 6, 2021 10:00	4.18	1.46
August 6, 2021 11:00	4.54	1.66
August 6, 2021 12:00	4.37	1.51
August 6, 2021 13:00	4.36	1.47
August 6, 2021 14:00	4.47	1.66
August 6, 2021 15:00	4.38	1.60
August 6, 2021 16:00	4.15	1.52
August 6, 2021 17:00	3.73	1.33
August 6, 2021 18:00	3.36	1.19
August 6, 2021 19:00	3.11	1.07
August 6, 2021 20:00	2.83	0.96
August 6, 2021 21:00	2.63	0.93
August 6, 2021 22:00	2.49	0.84
August 6, 2021 23:00	2.25	0.77
August 7, 2021 0:00	2.13	0.71
August 7, 2021 1:00	2.02	0.65
August 7, 2021 2:00	1.98	0.65
August 7, 2021 3:00	1.96	0.65
August 7, 2021 4:00	1.96	0.66
August 7, 2021 5:00	2.05	0.65
August 7, 2021 6:00	2.43	0.82
August 7, 2021 7:00	2.50	0.85
August 7, 2021 8:00	2.40	0.82
August 7, 2021 9:00	2.58	0.84
August 7, 2021 10:00	2.76	0.92
August 7, 2021 11:00	2.93	0.95
August 7, 2021 12:00	3.05	1.02
August 7, 2021 13:00	2.85	0.86
August 7, 2021 14:00	3.00	1.01
August 7, 2021 15:00	2.99	1.07
August 7, 2021 16:00	2.97	1.05
August 7, 2021 17:00	2.97	1.08
August 7, 2021 18:00	2.97	1.10
August 7, 2021 19:00	2.79	1.04
August 7, 2021 20:00	2.53	0.92
August 7, 2021 21:00	2.41	0.83
August 7, 2021 22:00	2.42	0.81
August 7, 2021 23:00	2.21	0.75
August 8, 2021 0:00	2.14	0.71
August 8, 2021 1:00	2.01	0.69
August 8, 2021 2:00	1.93	0.68
August 8, 2021 3:00	1.91	0.68
August 8, 2021 4:00	2.00	0.67
August 8, 2021 5:00	2.04	0.67
August 8, 2021 6:00	2.06	0.67
August 8, 2021 7:00	2.01	0.67



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August 8, 2021 8:00	1.91	0.68
August 8, 2021 9:00	2.00	0.68
August 8, 2021 10:00	2.17	0.68
August 8, 2021 11:00	2.25	0.69
August 8, 2021 12:00	2.31	0.69
August 8, 2021 13:00	2.36	0.70
August 8, 2021 14:00	2.42	0.71
August 8, 2021 15:00	2.39	0.72
August 8, 2021 16:00	2.33	0.73
August 8, 2021 17:00	2.32	0.72
August 8, 2021 18:00	2.27	0.71
August 8, 2021 19:00	2.03	0.71
August 8, 2021 20:00	1.95	0.72
August 8, 2021 21:00	1.84	0.70
August 8, 2021 22:00	1.98	0.66
August 8, 2021 23:00	2.02	0.63
August 9, 2021 0:00	2.00	0.63
August 9, 2021 1:00	1.91	0.63
August 9, 2021 2:00	1.82	0.63
August 9, 2021 3:00	1.85	0.64
August 9, 2021 4:00	1.94	0.66
August 9, 2021 5:00	2.10	0.68
August 9, 2021 6:00	2.51	0.71
August 9, 2021 7:00	2.70	0.68
August 9, 2021 8:00	3.13	0.91
August 9, 2021 9:00	3.77	1.23
August 9, 2021 10:00	3.96	1.27
August 9, 2021 11:00	4.10	1.38
August 9, 2021 12:00	4.24	1.46
August 9, 2021 13:00	4.26	1.43
August 9, 2021 14:00	4.36	1.56
August 9, 2021 15:00	4.47	1.63
August 9, 2021 16:00	4.12	1.46
August 9, 2021 17:00	3.84	1.44
August 9, 2021 18:00	3.58	1.40
August 9, 2021 19:00	3.44	1.31
August 9, 2021 20:00	3.30	1.27
August 9, 2021 21:00	2.94	1.09
August 9, 2021 22:00	2.79	0.98
August 9, 2021 23:00	2.71	0.98
August 10, 2021 0:00	2.51	0.84
August 10, 2021 1:00	2.26	0.72
August 10, 2021 2:00	2.15	0.74
August 10, 2021 3:00	2.08	0.75
August 10, 2021 4:00	2.05	0.69
August 10, 2021 5:00	2.21	0.74
August 10, 2021 6:00	2.69	0.85
August 10, 2021 7:00	3.01	0.99
August 10, 2021 8:00	3.37	1.18
August 10, 2021 9:00	3.84	1.31
August 10, 2021 10:00	4.01	1.32
August 10, 2021 11:00	4.18	1.37
August 10, 2021 12:00	4.26	1.43
August 10, 2021 13:00	4.15	1.34
August 10, 2021 14:00	4.19	1.39
August 10, 2021 15:00	4.13	1.39
August 10, 2021 16:00	3.80	1.26
August 10, 2021 17:00	3.54	1.23
August 10, 2021 18:00	3.23	1.12
August 10, 2021 19:00	3.09	1.09
August 10, 2021 20:00	2.93	1.00
August 10, 2021 21:00	2.76	0.92
August 10, 2021 22:00	2.69	0.82
August 10, 2021 23:00	2.54	0.83
August 11, 2021 0:00	2.41	0.80



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August 11, 2021 1:00	2.17	0.70
August 11, 2021 2:00	2.03	0.69
August 11, 2021 3:00	2.00	0.69
August 11, 2021 4:00	2.03	0.68
August 11, 2021 5:00	2.12	0.67
August 11, 2021 6:00	2.54	0.77
August 11, 2021 7:00	2.76	0.85
August 11, 2021 8:00	3.36	1.14
August 11, 2021 9:00	3.86	1.35
August 11, 2021 10:00	4.11	1.42
August 11, 2021 11:00	4.19	1.45
August 11, 2021 12:00	4.30	1.48
August 11, 2021 13:00	4.33	1.50
August 11, 2021 14:00	4.51	1.66
August 11, 2021 15:00	4.40	1.62
August 11, 2021 16:00	4.01	1.32
August 11, 2021 17:00	3.48	1.18
August 11, 2021 18:00	3.23	1.13
August 11, 2021 19:00	3.02	1.04
August 11, 2021 20:00	2.90	1.00
August 11, 2021 21:00	2.67	0.88
August 11, 2021 22:00	2.65	0.82
August 11, 2021 23:00	2.56	0.88
August 12, 2021 0:00	2.40	0.85
August 12, 2021 1:00	2.08	0.71
August 12, 2021 2:00	2.00	0.71
August 12, 2021 3:00	1.99	0.70
August 12, 2021 4:00	1.98	0.70
August 12, 2021 5:00	2.11	0.72
August 12, 2021 6:00	2.54	0.81
August 12, 2021 7:00	2.79	0.81
August 12, 2021 8:00	3.22	1.06
August 12, 2021 9:00	3.80	1.33
August 12, 2021 10:00	3.98	1.35
August 12, 2021 11:00	4.22	1.49
August 12, 2021 12:00	4.29	1.54
August 12, 2021 13:00	4.32	1.48
August 12, 2021 14:00	4.51	1.67
August 12, 2021 15:00	4.53	1.63
August 12, 2021 16:00	4.06	1.45
August 12, 2021 17:00	3.88	1.45
August 12, 2021 18:00	3.48	1.38
August 12, 2021 19:00	3.32	1.30
August 12, 2021 20:00	3.16	1.22
August 12, 2021 21:00	2.88	1.10
August 12, 2021 22:00	2.70	0.93
August 12, 2021 23:00	2.63	0.90
August 13, 2021 0:00	2.47	0.80
August 13, 2021 1:00	2.17	0.72
August 13, 2021 2:00	2.09	0.70
August 13, 2021 3:00	1.93	0.70
August 13, 2021 4:00	1.94	0.70
August 13, 2021 5:00	2.20	0.70
August 13, 2021 6:00	2.59	0.80
August 13, 2021 7:00	2.75	0.84
August 13, 2021 8:00	3.26	1.04
August 13, 2021 9:00	3.61	1.19
August 13, 2021 10:00	4.05	1.36
August 13, 2021 11:00	4.19	1.49
August 13, 2021 12:00	4.30	1.56
August 13, 2021 13:00	4.31	1.46
August 13, 2021 14:00	4.47	1.64
August 13, 2021 15:00	4.54	1.71
August 13, 2021 16:00	4.29	1.59
August 13, 2021 17:00	3.97	1.54



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August 13, 2021 18:00	3.72	1.50
August 13, 2021 19:00	3.51	1.39
August 13, 2021 20:00	3.43	1.34
August 13, 2021 21:00	3.07	1.21
August 13, 2021 22:00	2.71	1.02
August 13, 2021 23:00	2.49	0.93
August 14, 2021 0:00	2.31	0.82
August 14, 2021 1:00	2.13	0.71
August 14, 2021 2:00	2.00	0.69
August 14, 2021 3:00	2.00	0.69
August 14, 2021 4:00	2.00	0.69
August 14, 2021 5:00	2.08	0.72
August 14, 2021 6:00	2.28	0.83
August 14, 2021 7:00	2.34	0.85
August 14, 2021 8:00	2.39	0.95
August 14, 2021 9:00	2.57	1.05
August 14, 2021 10:00	2.75	1.07
August 14, 2021 11:00	3.02	1.19
August 14, 2021 12:00	3.35	1.24
August 14, 2021 13:00	3.17	1.25
August 14, 2021 14:00	3.25	1.31
August 14, 2021 15:00	3.15	1.28
August 14, 2021 16:00	3.17	1.27
August 14, 2021 17:00	3.19	1.32
August 14, 2021 18:00	3.18	1.34
August 14, 2021 19:00	2.98	1.25
August 14, 2021 20:00	2.71	1.15
August 14, 2021 21:00	2.55	1.09
August 14, 2021 22:00	2.54	1.01
August 14, 2021 23:00	2.35	0.93
August 15, 2021 0:00	2.26	0.85
August 15, 2021 1:00	2.08	0.79
August 15, 2021 2:00	1.96	0.76
August 15, 2021 3:00	1.95	0.76
August 15, 2021 4:00	1.99	0.75
August 15, 2021 5:00	2.08	0.74
August 15, 2021 6:00	2.11	0.71
August 15, 2021 7:00	2.04	0.71
August 15, 2021 8:00	1.88	0.74
August 15, 2021 9:00	1.98	0.75
August 15, 2021 10:00	2.26	0.80
August 15, 2021 11:00	2.45	0.89
August 15, 2021 12:00	2.59	0.96
August 15, 2021 13:00	2.68	1.03
August 15, 2021 14:00	2.82	1.11
August 15, 2021 15:00	2.93	1.17
August 15, 2021 16:00	2.96	1.22
August 15, 2021 17:00	3.08	1.26
August 15, 2021 18:00	3.06	1.24
August 15, 2021 19:00	2.72	1.12
August 15, 2021 20:00	2.40	1.07
August 15, 2021 21:00	2.37	0.97
August 15, 2021 22:00	2.42	0.91
August 15, 2021 23:00	2.25	0.84
August 16, 2021 0:00	2.10	0.78
August 16, 2021 1:00	2.06	0.73
August 16, 2021 2:00	2.05	0.71
August 16, 2021 3:00	2.01	0.73
August 16, 2021 4:00	2.05	0.74
August 16, 2021 5:00	2.23	0.72
August 16, 2021 6:00	2.63	0.80
August 16, 2021 7:00	3.13	1.01
August 16, 2021 8:00	3.43	1.10
August 16, 2021 9:00	3.77	1.29
August 16, 2021 10:00	4.00	1.31



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August 16, 2021 11:00	4.19	1.41
August 16, 2021 12:00	4.16	1.43
August 16, 2021 13:00	4.23	1.42
August 16, 2021 14:00	4.47	1.60
August 16, 2021 15:00	4.36	1.53
August 16, 2021 16:00	4.06	1.38
August 16, 2021 17:00	3.64	1.23
August 16, 2021 18:00	3.33	1.10
August 16, 2021 19:00	3.06	1.01
August 16, 2021 20:00	2.84	0.91
August 16, 2021 21:00	2.71	0.84
August 16, 2021 22:00	2.59	0.82
August 16, 2021 23:00	2.54	0.82
August 17, 2021 0:00	2.37	0.79
August 17, 2021 1:00	2.17	0.67
August 17, 2021 2:00	2.14	0.65
August 17, 2021 3:00	2.10	0.64
August 17, 2021 4:00	2.10	0.66
August 17, 2021 5:00	2.25	0.68
August 17, 2021 6:00	2.63	0.79
August 17, 2021 7:00	3.04	0.88
August 17, 2021 8:00	3.38	1.06
August 17, 2021 9:00	3.69	1.23
August 17, 2021 10:00	3.79	1.09
August 17, 2021 11:00	4.00	1.16
August 17, 2021 12:00	4.12	1.24
August 17, 2021 13:00	4.16	1.22
August 17, 2021 14:00	4.24	1.29
August 17, 2021 15:00	4.03	1.18
August 17, 2021 16:00	3.71	1.04
August 17, 2021 17:00	3.30	0.95
August 17, 2021 18:00	3.00	0.93
August 17, 2021 19:00	2.88	0.89
August 17, 2021 20:00	2.82	0.88
August 17, 2021 21:00	2.82	0.87
August 17, 2021 22:00	2.82	0.88
August 17, 2021 23:00	2.63	0.88
August 18, 2021 0:00	2.38	0.74
August 18, 2021 1:00	2.16	0.64
August 18, 2021 2:00	2.10	0.62
August 18, 2021 3:00	2.02	0.61
August 18, 2021 4:00	2.01	0.60
August 18, 2021 5:00	2.18	0.58
August 18, 2021 6:00	2.47	0.64
August 18, 2021 7:00	2.84	0.84
August 18, 2021 8:00	3.27	1.03
August 18, 2021 9:00	3.86	1.26
August 18, 2021 10:00	4.20	1.41
August 18, 2021 11:00	4.24	1.48
August 18, 2021 12:00	4.29	1.54
August 18, 2021 13:00	4.33	1.53
August 18, 2021 14:00	4.45	1.59
August 18, 2021 15:00	4.37	1.60
August 18, 2021 16:00	3.96	1.43
August 18, 2021 17:00	3.64	1.33
August 18, 2021 18:00	3.24	1.26
August 18, 2021 19:00	3.15	1.18
August 18, 2021 20:00	2.96	1.06
August 18, 2021 21:00	2.71	0.94
August 18, 2021 22:00	2.70	0.90
August 18, 2021 23:00	2.59	0.89
August 19, 2021 0:00	2.45	0.78
August 19, 2021 1:00	2.15	0.64
August 19, 2021 2:00	2.08	0.63
August 19, 2021 3:00	2.04	0.62



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August 19, 2021 4:00	2.04	0.61
August 19, 2021 5:00	2.19	0.62
August 19, 2021 6:00	2.60	0.75
August 19, 2021 7:00	2.90	0.88
August 19, 2021 8:00	3.14	1.02
August 19, 2021 9:00	3.68	1.21
August 19, 2021 10:00	3.77	1.18
August 19, 2021 11:00	3.84	1.16
August 19, 2021 12:00	3.89	1.15
August 19, 2021 13:00	3.93	1.12
August 19, 2021 14:00	4.09	1.21
August 19, 2021 15:00	4.17	1.26
August 19, 2021 16:00	3.87	1.16
August 19, 2021 17:00	3.56	1.07
August 19, 2021 18:00	3.17	1.03
August 19, 2021 19:00	2.90	0.93
August 19, 2021 20:00	2.81	0.92
August 19, 2021 21:00	2.67	0.84
August 19, 2021 22:00	2.64	0.80
August 19, 2021 23:00	2.56	0.80
August 20, 2021 0:00	2.42	0.79
August 20, 2021 1:00	2.19	0.73
August 20, 2021 2:00	2.06	0.71
August 20, 2021 3:00	1.97	0.65
August 20, 2021 4:00	2.03	0.63
August 20, 2021 5:00	2.26	0.66
August 20, 2021 6:00	2.52	0.69
August 20, 2021 7:00	2.73	0.72
August 20, 2021 8:00	2.98	0.82
August 20, 2021 9:00	3.35	0.96
August 20, 2021 10:00	3.57	1.01
August 20, 2021 11:00	3.76	1.07
August 20, 2021 12:00	3.94	1.24
August 20, 2021 13:00	4.00	1.23
August 20, 2021 14:00	4.01	1.28
August 20, 2021 15:00	3.80	1.16
August 20, 2021 16:00	3.48	1.13
August 20, 2021 17:00	3.04	0.96
August 20, 2021 18:00	2.86	0.90
August 20, 2021 19:00	2.73	0.88
August 20, 2021 20:00	2.62	0.84
August 20, 2021 21:00	2.47	0.79
August 20, 2021 22:00	2.50	0.77
August 20, 2021 23:00	2.25	0.78
August 21, 2021 0:00	2.18	0.77
August 21, 2021 1:00	2.02	0.70
August 21, 2021 2:00	1.98	0.71
August 21, 2021 3:00	1.99	0.67
August 21, 2021 4:00	2.02	0.66
August 21, 2021 5:00	2.10	0.70
August 21, 2021 6:00	2.33	0.73
August 21, 2021 7:00	2.59	0.90
August 21, 2021 8:00	2.37	0.89
August 21, 2021 9:00	2.58	0.95
August 21, 2021 10:00	2.92	0.98
August 21, 2021 11:00	2.99	1.06
August 21, 2021 12:00	3.08	1.09
August 21, 2021 13:00	2.91	1.06
August 21, 2021 14:00	2.81	0.95
August 21, 2021 15:00	2.71	0.91
August 21, 2021 16:00	2.51	0.85
August 21, 2021 17:00	2.47	0.82
August 21, 2021 18:00	2.37	0.80
August 21, 2021 19:00	2.23	0.76
August 21, 2021 20:00	2.12	0.71



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August 21, 2021 21:00	2.13	0.71
August 21, 2021 22:00	2.28	0.70
August 21, 2021 23:00	2.12	0.67
August 22, 2021 0:00	2.02	0.65
August 22, 2021 1:00	1.95	0.66
August 22, 2021 2:00	1.91	0.66
August 22, 2021 3:00	1.92	0.66
August 22, 2021 4:00	2.03	0.66
August 22, 2021 5:00	2.06	0.66
August 22, 2021 6:00	2.19	0.82
August 22, 2021 7:00	2.26	0.84
August 22, 2021 8:00	2.12	0.86
August 22, 2021 9:00	2.22	0.85
August 22, 2021 10:00	2.42	0.90
August 22, 2021 11:00	2.47	0.90
August 22, 2021 12:00	2.61	0.95
August 22, 2021 13:00	2.74	1.01
August 22, 2021 14:00	2.65	0.99
August 22, 2021 15:00	2.63	0.94
August 22, 2021 16:00	2.51	0.92
August 22, 2021 17:00	2.50	0.90
August 22, 2021 18:00	2.33	0.82
August 22, 2021 19:00	2.16	0.80
August 22, 2021 20:00	2.02	0.80
August 22, 2021 21:00	2.06	0.67
August 22, 2021 22:00	2.17	0.67
August 22, 2021 23:00	2.10	0.65
August 23, 2021 0:00	2.04	0.63
August 23, 2021 1:00	1.95	0.62
August 23, 2021 2:00	1.94	0.63
August 23, 2021 3:00	1.89	0.64
August 23, 2021 4:00	1.96	0.65
August 23, 2021 5:00	2.19	0.66
August 23, 2021 6:00	2.56	0.70
August 23, 2021 7:00	2.84	0.72
August 23, 2021 8:00	3.21	0.92
August 23, 2021 9:00	3.60	1.14
August 23, 2021 10:00	3.79	1.12
August 23, 2021 11:00	3.92	1.18
August 23, 2021 12:00	3.92	1.18
August 23, 2021 13:00	4.00	1.17
August 23, 2021 14:00	4.10	1.33
August 23, 2021 15:00	4.20	1.38
August 23, 2021 16:00	3.75	1.17
August 23, 2021 17:00	3.42	1.07
August 23, 2021 18:00	3.20	1.03
August 23, 2021 19:00	3.00	0.95
August 23, 2021 20:00	2.88	0.88
August 23, 2021 21:00	2.82	0.81
August 23, 2021 22:00	2.67	0.77
August 23, 2021 23:00	2.64	0.75
August 24, 2021 0:00	2.57	0.73
August 24, 2021 1:00	2.43	0.69
August 24, 2021 2:00	2.26	0.65
August 24, 2021 3:00	2.13	0.63
August 24, 2021 4:00	2.14	0.63
August 24, 2021 5:00	2.30	0.63
August 24, 2021 6:00	2.74	0.81
August 24, 2021 7:00	3.15	0.95
August 24, 2021 8:00	3.31	1.00
August 24, 2021 9:00	3.60	1.08
August 24, 2021 10:00	3.99	1.20
August 24, 2021 11:00	4.10	1.29
August 24, 2021 12:00	4.23	1.38
August 24, 2021 13:00	4.08	1.28



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August 24, 2021 14:00	4.29	1.42
August 24, 2021 15:00	4.23	1.45
August 24, 2021 16:00	3.93	1.29
August 24, 2021 17:00	3.58	1.24
August 24, 2021 18:00	3.31	1.19
August 24, 2021 19:00	2.98	1.00
August 24, 2021 20:00	2.87	0.97
August 24, 2021 21:00	2.79	0.90
August 24, 2021 22:00	2.71	0.87
August 24, 2021 23:00	2.56	0.84
August 25, 2021 0:00	2.51	0.80
August 25, 2021 1:00	2.43	0.72
August 25, 2021 2:00	2.26	0.65
August 25, 2021 3:00	2.06	0.63
August 25, 2021 4:00	2.10	0.62
August 25, 2021 5:00	2.21	0.64
August 25, 2021 6:00	2.55	0.75
August 25, 2021 7:00	2.95	0.90
August 25, 2021 8:00	3.21	1.01
August 25, 2021 9:00	3.63	1.16
August 25, 2021 10:00	3.80	1.18
August 25, 2021 11:00	4.10	1.26
August 25, 2021 12:00	4.26	1.46
August 25, 2021 13:00	4.16	1.35
August 25, 2021 14:00	4.34	1.48
August 25, 2021 15:00	4.27	1.47
August 25, 2021 16:00	4.05	1.37
August 25, 2021 17:00	3.61	1.30
August 25, 2021 18:00	3.38	1.24
August 25, 2021 19:00	3.05	1.07
August 25, 2021 20:00	2.89	0.99
August 25, 2021 21:00	2.75	0.91
August 25, 2021 22:00	2.66	0.89
August 25, 2021 23:00	2.53	0.90
August 26, 2021 0:00	2.52	0.86
August 26, 2021 1:00	2.36	0.79
August 26, 2021 2:00	2.21	0.76
August 26, 2021 3:00	2.00	0.71
August 26, 2021 4:00	2.05	0.69
August 26, 2021 5:00	2.21	0.67
August 26, 2021 6:00	2.58	0.78
August 26, 2021 7:00	3.16	0.98
August 26, 2021 8:00	3.31	1.02
August 26, 2021 9:00	3.64	1.11
August 26, 2021 10:00	3.76	1.16
August 26, 2021 11:00	4.11	1.36
August 26, 2021 12:00	4.26	1.48
August 26, 2021 13:00	4.19	1.39
August 26, 2021 14:00	4.34	1.52
August 26, 2021 15:00	4.24	1.46
August 26, 2021 16:00	4.05	1.36
August 26, 2021 17:00	3.69	1.28
August 26, 2021 18:00	3.35	1.22
August 26, 2021 19:00	3.15	1.17
August 26, 2021 20:00	3.05	1.18
August 26, 2021 21:00	2.98	1.04
August 26, 2021 22:00	2.77	0.94
August 26, 2021 23:00	2.64	0.90
August 27, 2021 0:00	2.55	0.87
August 27, 2021 1:00	2.40	0.83
August 27, 2021 2:00	2.15	0.79
August 27, 2021 3:00	1.96	0.74
August 27, 2021 4:00	2.03	0.72
August 27, 2021 5:00	2.21	0.73
August 27, 2021 6:00	2.48	0.74



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August 27, 2021 7:00	2.77	0.81
August 27, 2021 8:00	3.05	0.93
August 27, 2021 9:00	3.43	1.08
August 27, 2021 10:00	4.02	1.25
August 27, 2021 11:00	4.14	1.30
August 27, 2021 12:00	4.13	1.32
August 27, 2021 13:00	4.12	1.29
August 27, 2021 14:00	4.24	1.42
August 27, 2021 15:00	4.10	1.43
August 27, 2021 16:00	3.53	1.17
August 27, 2021 17:00	3.26	1.12
August 27, 2021 18:00	3.02	1.03
August 27, 2021 19:00	2.85	0.97
August 27, 2021 20:00	2.72	0.89
August 27, 2021 21:00	2.71	0.83
August 27, 2021 22:00	2.47	0.79
August 27, 2021 23:00	2.26	0.75
August 28, 2021 0:00	2.19	0.71
August 28, 2021 1:00	2.04	0.70
August 28, 2021 2:00	2.01	0.70
August 28, 2021 3:00	2.01	0.70
August 28, 2021 4:00	2.02	0.68
August 28, 2021 5:00	2.16	0.66
August 28, 2021 6:00	2.32	0.70
August 28, 2021 7:00	2.38	0.70
August 28, 2021 8:00	2.25	0.66
August 28, 2021 9:00	2.39	0.69
August 28, 2021 10:00	2.71	0.80
August 28, 2021 11:00	2.82	0.84
August 28, 2021 12:00	2.93	0.95
August 28, 2021 13:00	2.83	0.97
August 28, 2021 14:00	2.93	0.97
August 28, 2021 15:00	2.87	0.99
August 28, 2021 16:00	2.79	1.01
August 28, 2021 17:00	2.75	1.03
August 28, 2021 18:00	2.81	1.03
August 28, 2021 19:00	2.66	0.99
August 28, 2021 20:00	2.46	0.95
August 28, 2021 21:00	2.38	0.90
August 28, 2021 22:00	2.45	0.86
August 28, 2021 23:00	2.28	0.83
August 29, 2021 0:00	2.23	0.80
August 29, 2021 1:00	2.15	0.77
August 29, 2021 2:00	2.03	0.74
August 29, 2021 3:00	1.93	0.68
August 29, 2021 4:00	1.90	0.66
August 29, 2021 5:00	1.97	0.68
August 29, 2021 6:00	2.24	0.85
August 29, 2021 7:00	2.22	0.89
August 29, 2021 8:00	2.09	0.87
August 29, 2021 9:00	2.14	0.84
August 29, 2021 10:00	2.35	0.92
August 29, 2021 11:00	2.40	0.99
August 29, 2021 12:00	2.44	0.94
August 29, 2021 13:00	2.53	0.98
August 29, 2021 14:00	2.63	1.02
August 29, 2021 15:00	2.67	1.05
August 29, 2021 16:00	2.69	1.08
August 29, 2021 17:00	2.72	1.11
August 29, 2021 18:00	2.60	1.06
August 29, 2021 19:00	2.42	1.00
August 29, 2021 20:00	2.21	0.96
August 29, 2021 21:00	2.10	0.85
August 29, 2021 22:00	2.19	0.77
August 29, 2021 23:00	2.10	0.74



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August 30, 2021 0:00	2.00	0.72
August 30, 2021 1:00	1.95	0.73
August 30, 2021 2:00	1.85	0.69
August 30, 2021 3:00	1.85	0.68
August 30, 2021 4:00	1.90	0.69
August 30, 2021 5:00	2.12	0.71
August 30, 2021 6:00	2.62	0.88
August 30, 2021 7:00	2.87	0.90
August 30, 2021 8:00	3.21	0.99
August 30, 2021 9:00	3.70	1.20
August 30, 2021 10:00	3.98	1.31
August 30, 2021 11:00	4.01	1.37
August 30, 2021 12:00	4.22	1.50
August 30, 2021 13:00	4.29	1.52
August 30, 2021 14:00	4.47	1.64
August 30, 2021 15:00	4.47	1.63
August 30, 2021 16:00	4.22	1.55
August 30, 2021 17:00	3.83	1.53
August 30, 2021 18:00	3.42	1.36
August 30, 2021 19:00	3.16	1.19
August 30, 2021 20:00	3.03	1.18
August 30, 2021 21:00	2.91	1.02
August 30, 2021 22:00	2.81	0.95
August 30, 2021 23:00	2.67	0.93
August 31, 2021 0:00	2.51	0.90
August 31, 2021 1:00	2.39	0.86
August 31, 2021 2:00	2.19	0.79
August 31, 2021 3:00	1.97	0.70
August 31, 2021 4:00	2.02	0.69
August 31, 2021 5:00	2.21	0.68
August 31, 2021 6:00	2.60	0.79
August 31, 2021 7:00	2.89	0.81
August 31, 2021 8:00	3.19	1.01
August 31, 2021 9:00	3.74	1.21
August 31, 2021 10:00	4.30	1.40
August 31, 2021 11:00	4.40	1.44
August 31, 2021 12:00	4.50	1.50
August 31, 2021 13:00	4.30	1.37
August 31, 2021 14:00	4.32	1.42
August 31, 2021 15:00	4.39	1.49
August 31, 2021 16:00	4.12	1.45
August 31, 2021 17:00	3.82	1.42
August 31, 2021 18:00	3.29	1.17
August 31, 2021 19:00	2.95	0.94
August 31, 2021 20:00	2.80	0.87
August 31, 2021 21:00	2.92	0.83
August 31, 2021 22:00	2.78	0.89
August 31, 2021 23:00	2.64	0.89
September 1, 2021 0:00	2.50	0.83
September 1, 2021 1:00	2.35	0.74
September 1, 2021 2:00	2.17	0.68
September 1, 2021 3:00	2.01	0.67
September 1, 2021 4:00	2.02	0.67
September 1, 2021 5:00	2.17	0.68
September 1, 2021 6:00	2.77	0.90
September 1, 2021 7:00	3.25	0.96
September 1, 2021 8:00	3.54	1.11
September 1, 2021 9:00	4.05	1.33
September 1, 2021 10:00	4.21	1.30
September 1, 2021 11:00	4.10	1.25
September 1, 2021 12:00	4.13	1.30
September 1, 2021 13:00	4.28	1.34
September 1, 2021 14:00	4.21	1.42
September 1, 2021 15:00	4.05	1.24
September 1, 2021 16:00	3.90	1.17



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September 1, 2021 17:00	3.48	1.14
September 1, 2021 18:00	3.28	1.10
September 1, 2021 19:00	2.96	0.99
September 1, 2021 20:00	2.89	0.96
September 1, 2021 21:00	2.90	0.79
September 1, 2021 22:00	2.73	0.83
September 1, 2021 23:00	2.59	0.82
September 2, 2021 0:00	2.51	0.80
September 2, 2021 1:00	2.30	0.72
September 2, 2021 2:00	2.18	0.75
September 2, 2021 3:00	2.03	0.71
September 2, 2021 4:00	2.03	0.67
September 2, 2021 5:00	2.23	0.69
September 2, 2021 6:00	2.74	0.87
September 2, 2021 7:00	3.13	0.99
September 2, 2021 8:00	3.29	1.08
September 2, 2021 9:00	3.68	1.18
September 2, 2021 10:00	4.02	1.30
September 2, 2021 11:00	4.29	1.44
September 2, 2021 12:00	4.23	1.31
September 2, 2021 13:00	4.22	1.25
September 2, 2021 14:00	4.27	1.28
September 2, 2021 15:00	4.38	1.40
September 2, 2021 16:00	3.94	1.26
September 2, 2021 17:00	3.27	1.09
September 2, 2021 18:00	3.02	1.03
September 2, 2021 19:00	2.75	0.91
September 2, 2021 20:00	2.64	0.85
September 2, 2021 21:00	2.69	0.83
September 2, 2021 22:00	2.55	0.83
September 2, 2021 23:00	2.45	0.81
September 3, 2021 0:00	2.37	0.76
September 3, 2021 1:00	2.22	0.73
September 3, 2021 2:00	2.12	0.74
September 3, 2021 3:00	1.98	0.72
September 3, 2021 4:00	2.01	0.72
September 3, 2021 5:00	2.19	0.72
September 3, 2021 6:00	2.53	0.78
September 3, 2021 7:00	2.91	0.83
September 3, 2021 8:00	3.13	0.92
September 3, 2021 9:00	3.57	1.14
September 3, 2021 10:00	3.94	1.22
September 3, 2021 11:00	4.31	1.47
September 3, 2021 12:00	4.28	1.47
September 3, 2021 13:00	4.21	1.52
September 3, 2021 14:00	4.42	1.66
September 3, 2021 15:00	4.29	1.59
September 3, 2021 16:00	3.83	1.46
September 3, 2021 17:00	3.68	1.44
September 3, 2021 18:00	3.65	1.43
September 3, 2021 19:00	3.62	1.42
September 3, 2021 20:00	3.59	1.41
September 3, 2021 21:00	3.56	1.40
September 3, 2021 22:00	3.53	1.39
September 3, 2021 23:00	3.50	1.38
September 4, 2021 0:00	3.47	1.37
September 4, 2021 1:00	3.43	1.36
September 4, 2021 2:00	3.40	1.35
September 4, 2021 3:00	3.37	1.33
September 4, 2021 4:00	3.34	1.32
September 4, 2021 5:00	3.31	1.31
September 4, 2021 6:00	3.28	1.30
September 4, 2021 7:00	3.25	1.29
September 4, 2021 8:00	3.22	1.28
September 4, 2021 9:00	3.19	1.27



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September 4, 2021 10:00	3.16	1.26
September 4, 2021 11:00	3.13	1.25
September 4, 2021 12:00	3.09	1.24
September 4, 2021 13:00	3.06	1.23
September 4, 2021 14:00	3.03	1.22
September 4, 2021 15:00	3.00	1.21
September 4, 2021 16:00	2.97	1.20
September 4, 2021 17:00	2.94	1.19
September 4, 2021 18:00	2.91	1.18
September 4, 2021 19:00	2.88	1.17
September 4, 2021 20:00	2.85	1.16
September 4, 2021 21:00	2.82	1.14
September 4, 2021 22:00	2.79	1.13
September 4, 2021 23:00	2.76	1.12
September 5, 2021 0:00	2.72	1.11
September 5, 2021 1:00	2.69	1.10
September 5, 2021 2:00	2.66	1.09
September 5, 2021 3:00	2.63	1.08
September 5, 2021 4:00	2.60	1.07
September 5, 2021 5:00	2.57	1.06
September 5, 2021 6:00	2.54	1.05
September 5, 2021 7:00	2.51	1.04
September 5, 2021 8:00	2.48	1.03
September 5, 2021 9:00	2.45	1.02
September 5, 2021 10:00	2.42	1.01
September 5, 2021 11:00	2.39	1.00
September 5, 2021 12:00	2.35	0.99
September 5, 2021 13:00	2.32	0.98
September 5, 2021 14:00	2.29	0.97
September 5, 2021 15:00	2.26	0.95
September 5, 2021 16:00	2.23	0.94
September 5, 2021 17:00	2.20	0.93
September 5, 2021 18:00	2.17	0.92
September 5, 2021 19:00	2.14	0.91
September 5, 2021 20:00	2.12	0.91
September 5, 2021 21:00	2.13	0.91
September 5, 2021 22:00	2.14	0.91
September 5, 2021 23:00	2.16	0.91
September 6, 2021 0:00	2.17	0.92
September 6, 2021 1:00	2.19	0.92
September 6, 2021 2:00	2.20	0.92
September 6, 2021 3:00	2.22	0.92
September 6, 2021 4:00	2.23	0.93
September 6, 2021 5:00	2.24	0.93
September 6, 2021 6:00	2.26	0.93
September 6, 2021 7:00	2.27	0.94
September 6, 2021 8:00	2.29	0.94
September 6, 2021 9:00	2.30	0.94
September 6, 2021 10:00	2.31	0.95
September 6, 2021 11:00	2.33	0.95
September 6, 2021 12:00	2.34	0.95
September 6, 2021 13:00	2.36	0.95
September 6, 2021 14:00	2.37	0.96
September 6, 2021 15:00	2.38	0.96
September 6, 2021 16:00	2.40	0.96
September 6, 2021 17:00	2.40	0.96
September 6, 2021 18:00	2.34	0.92
September 6, 2021 19:00	2.27	0.88
September 6, 2021 20:00	2.20	0.84
September 6, 2021 21:00	2.14	0.80
September 6, 2021 22:00	2.07	0.76
September 6, 2021 23:00	2.01	0.72
September 7, 2021 0:00	1.99	0.70
September 7, 2021 1:00	1.99	0.69
September 7, 2021 2:00	2.00	0.68



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September 7, 2021 3:00	2.13	0.73
September 7, 2021 4:00	2.41	0.82
September 7, 2021 5:00	2.68	0.92
September 7, 2021 6:00	2.96	1.02
September 7, 2021 7:00	3.24	1.12
September 7, 2021 8:00	3.52	1.22
September 7, 2021 9:00	3.78	1.32
September 7, 2021 10:00	3.97	1.40
September 7, 2021 11:00	4.16	1.48
September 7, 2021 12:00	4.34	1.56
September 7, 2021 13:00	4.37	1.58
September 7, 2021 14:00	4.27	1.56
September 7, 2021 15:00	4.18	1.55
September 7, 2021 16:00	4.08	1.53
September 7, 2021 17:00	3.90	1.49
September 7, 2021 18:00	3.61	1.41
September 7, 2021 19:00	3.47	1.37
September 7, 2021 20:00	3.21	1.23
September 7, 2021 21:00	3.03	1.04
September 7, 2021 22:00	2.77	0.96
September 7, 2021 23:00	2.65	0.94
September 8, 2021 0:00	2.55	0.92
September 8, 2021 1:00	2.42	0.86
September 8, 2021 2:00	2.21	0.76
September 8, 2021 3:00	1.97	0.72
September 8, 2021 4:00	2.00	0.70
September 8, 2021 5:00	2.19	0.73
September 8, 2021 6:00	2.54	0.77
September 8, 2021 7:00	2.82	0.76
September 8, 2021 8:00	3.22	0.84
September 8, 2021 9:00	3.75	1.21
September 8, 2021 10:00	4.05	1.27
September 8, 2021 11:00	4.36	1.41
September 8, 2021 12:00	4.47	1.47
September 8, 2021 13:00	4.30	1.48
September 8, 2021 14:00	4.37	1.49
September 8, 2021 15:00	4.23	1.44
September 8, 2021 16:00	4.10	1.39
September 8, 2021 17:00	3.80	1.40
September 8, 2021 18:00	3.48	1.35
September 8, 2021 19:00	3.29	1.28
September 8, 2021 20:00	3.00	1.08
September 8, 2021 21:00	3.04	1.00
September 8, 2021 22:00	2.80	1.00
September 8, 2021 23:00	2.68	0.97
September 9, 2021 0:00	2.56	0.91
September 9, 2021 1:00	2.35	0.81
September 9, 2021 2:00	2.16	0.71
September 9, 2021 3:00	1.98	0.70
September 9, 2021 4:00	1.99	0.69
September 9, 2021 5:00	2.19	0.72
September 9, 2021 6:00	2.64	0.85
September 9, 2021 7:00	3.14	1.02
September 9, 2021 8:00	3.36	1.10
September 9, 2021 9:00	4.08	1.41
September 9, 2021 10:00	4.28	1.43
September 9, 2021 11:00	4.42	1.49
September 9, 2021 12:00	4.46	1.56
September 9, 2021 13:00	4.41	1.53
September 9, 2021 14:00	4.58	1.69
September 9, 2021 15:00	4.73	1.79
September 9, 2021 16:00	4.51	1.67
September 9, 2021 17:00	4.12	1.59
September 9, 2021 18:00	3.75	1.44
September 9, 2021 19:00	3.42	1.32



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September 9, 2021 20:00	3.09	1.14
September 9, 2021 21:00	2.96	0.96
September 9, 2021 22:00	2.71	0.94
September 9, 2021 23:00	2.54	0.86
September 10, 2021 0:00	2.43	0.80
September 10, 2021 1:00	2.25	0.76
September 10, 2021 2:00	2.15	0.73
September 10, 2021 3:00	1.96	0.73
September 10, 2021 4:00	1.98	0.72
September 10, 2021 5:00	2.19	0.74
September 10, 2021 6:00	2.56	0.84
September 10, 2021 7:00	3.06	0.96
September 10, 2021 8:00	3.19	1.08
September 10, 2021 9:00	3.68	1.23
September 10, 2021 10:00	3.88	1.25
September 10, 2021 11:00	3.98	1.32
September 10, 2021 12:00	4.03	1.34
September 10, 2021 13:00	4.11	1.29
September 10, 2021 14:00	4.42	1.58
September 10, 2021 15:00	4.58	1.67
September 10, 2021 16:00	3.99	1.40
September 10, 2021 17:00	3.56	1.29
September 10, 2021 18:00	3.21	1.17
September 10, 2021 19:00	2.92	0.97
September 10, 2021 20:00	2.85	0.84
September 10, 2021 21:00	2.88	0.81
September 10, 2021 22:00	2.66	0.80
September 10, 2021 23:00	2.43	0.80
September 11, 2021 0:00	2.30	0.77
September 11, 2021 1:00	2.12	0.74
September 11, 2021 2:00	2.02	0.72
September 11, 2021 3:00	1.96	0.72
September 11, 2021 4:00	1.97	0.70
September 11, 2021 5:00	2.20	0.79
September 11, 2021 6:00	2.59	0.85
September 11, 2021 7:00	2.94	0.92
September 11, 2021 8:00	2.84	0.93
September 11, 2021 9:00	2.97	0.99
September 11, 2021 10:00	3.12	0.93
September 11, 2021 11:00	3.12	0.97
September 11, 2021 12:00	3.10	0.98
September 11, 2021 13:00	2.97	0.94
September 11, 2021 14:00	2.95	0.86
September 11, 2021 15:00	2.80	0.86
September 11, 2021 16:00	2.61	0.81
September 11, 2021 17:00	2.53	0.83
September 11, 2021 18:00	2.67	0.92
September 11, 2021 19:00	2.46	0.91
September 11, 2021 20:00	2.45	0.87
September 11, 2021 21:00	2.52	0.82
September 11, 2021 22:00	2.40	0.80
September 11, 2021 23:00	2.29	0.77
September 12, 2021 0:00	2.27	0.75
September 12, 2021 1:00	2.15	0.73
September 12, 2021 2:00	2.06	0.66
September 12, 2021 3:00	1.93	0.67
September 12, 2021 4:00	1.96	0.68
September 12, 2021 5:00	2.02	0.70
September 12, 2021 6:00	2.09	0.71
September 12, 2021 7:00	2.17	0.73
September 12, 2021 8:00	2.13	0.68
September 12, 2021 9:00	2.23	0.72
September 12, 2021 10:00	2.35	0.78
September 12, 2021 11:00	2.49	0.83
September 12, 2021 12:00	2.49	0.87



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September 12, 2021 13:00	2.56	0.89
September 12, 2021 14:00	2.55	0.89
September 12, 2021 15:00	2.53	0.88
September 12, 2021 16:00	2.39	0.86
September 12, 2021 17:00	2.38	0.84
September 12, 2021 18:00	2.31	0.81
September 12, 2021 19:00	2.10	0.79
September 12, 2021 20:00	2.08	0.77
September 12, 2021 21:00	2.23	0.72
September 12, 2021 22:00	2.27	0.70
September 12, 2021 23:00	2.16	0.69
September 13, 2021 0:00	2.07	0.68
September 13, 2021 1:00	1.99	0.67
September 13, 2021 2:00	1.95	0.68
September 13, 2021 3:00	1.97	0.70
September 13, 2021 4:00	1.98	0.72
September 13, 2021 5:00	2.19	0.70
September 13, 2021 6:00	2.69	0.88
September 13, 2021 7:00	3.12	0.99
September 13, 2021 8:00	3.46	1.15
September 13, 2021 9:00	3.80	1.27
September 13, 2021 10:00	4.12	1.31
September 13, 2021 11:00	4.19	1.39
September 13, 2021 12:00	4.23	1.46
September 13, 2021 13:00	4.19	1.49
September 13, 2021 14:00	4.34	1.56
September 13, 2021 15:00	4.26	1.47
September 13, 2021 16:00	4.08	1.44
September 13, 2021 17:00	3.75	1.35
September 13, 2021 18:00	3.55	1.30
September 13, 2021 19:00	3.28	1.15
September 13, 2021 20:00	3.10	1.05
September 13, 2021 21:00	3.08	0.92
September 13, 2021 22:00	2.75	0.90
September 13, 2021 23:00	2.66	0.88
September 14, 2021 0:00	2.56	0.86
September 14, 2021 1:00	2.36	0.79
September 14, 2021 2:00	2.24	0.73
September 14, 2021 3:00	2.04	0.71
September 14, 2021 4:00	2.03	0.70
September 14, 2021 5:00	2.24	0.72
September 14, 2021 6:00	2.68	0.81
September 14, 2021 7:00	3.22	1.00
September 14, 2021 8:00	3.58	1.14
September 14, 2021 9:00	3.93	1.34
September 14, 2021 10:00	4.01	1.32
September 14, 2021 11:00	4.38	1.46
September 14, 2021 12:00	4.39	1.55
September 14, 2021 13:00	4.31	1.53
September 14, 2021 14:00	4.47	1.64
September 14, 2021 15:00	4.36	1.54
September 14, 2021 16:00	4.14	1.38
September 14, 2021 17:00	3.75	1.31
September 14, 2021 18:00	3.45	1.22
September 14, 2021 19:00	3.17	1.09
September 14, 2021 20:00	3.14	0.99
September 14, 2021 21:00	3.20	0.96
September 14, 2021 22:00	2.84	0.92
September 14, 2021 23:00	2.71	0.89
September 15, 2021 0:00	2.61	0.85
September 15, 2021 1:00	2.45	0.82
September 15, 2021 2:00	2.28	0.80
September 15, 2021 3:00	2.11	0.78
September 15, 2021 4:00	2.13	0.75
September 15, 2021 5:00	2.29	0.75



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September 15, 2021 6:00	2.63	0.76
September 15, 2021 7:00	3.07	0.90
September 15, 2021 8:00	3.53	1.07
September 15, 2021 9:00	3.98	1.23
September 15, 2021 10:00	4.07	1.18
September 15, 2021 11:00	4.19	1.24
September 15, 2021 12:00	4.17	1.22
September 15, 2021 13:00	4.21	1.21
September 15, 2021 14:00	4.27	1.29
September 15, 2021 15:00	4.32	1.30
September 15, 2021 16:00	3.95	1.13
September 15, 2021 17:00	3.50	1.07
September 15, 2021 18:00	3.29	1.06
September 15, 2021 19:00	3.10	1.00
September 15, 2021 20:00	3.08	0.96
September 15, 2021 21:00	3.11	0.90
September 15, 2021 22:00	2.82	0.89
September 15, 2021 23:00	2.60	0.81
September 16, 2021 0:00	2.51	0.74
September 16, 2021 1:00	2.33	0.68
September 16, 2021 2:00	2.20	0.65
September 16, 2021 3:00	2.07	0.64
September 16, 2021 4:00	2.06	0.63
September 16, 2021 5:00	2.21	0.62
September 16, 2021 6:00	2.74	0.80
September 16, 2021 7:00	3.22	0.90
September 16, 2021 8:00	3.47	0.98
September 16, 2021 9:00	3.71	1.03
September 16, 2021 10:00	3.78	1.00
September 16, 2021 11:00	4.05	1.09
September 16, 2021 12:00	4.08	1.18
September 16, 2021 13:00	4.09	1.22
September 16, 2021 14:00	4.33	1.34
September 16, 2021 15:00	4.31	1.34
September 16, 2021 16:00	3.69	1.10
September 16, 2021 17:00	3.27	0.95
September 16, 2021 18:00	3.07	0.91
September 16, 2021 19:00	2.93	0.88
September 16, 2021 20:00	2.97	0.89
September 16, 2021 21:00	3.12	0.89
September 16, 2021 22:00	2.81	0.84
September 16, 2021 23:00	2.52	0.76
September 17, 2021 0:00	2.41	0.72
September 17, 2021 1:00	2.29	0.69
September 17, 2021 2:00	2.14	0.66
September 17, 2021 3:00	1.97	0.64
September 17, 2021 4:00	2.01	0.62
September 17, 2021 5:00	2.18	0.61
September 17, 2021 6:00	2.57	0.68
September 17, 2021 7:00	3.22	0.95
September 17, 2021 8:00	3.56	1.04
September 17, 2021 9:00	3.87	1.16
September 17, 2021 10:00	4.32	1.28
September 17, 2021 11:00	4.32	1.31
September 17, 2021 12:00	4.41	1.35
September 17, 2021 13:00	4.38	1.35
September 17, 2021 14:00	4.43	1.44
September 17, 2021 15:00	4.20	1.36
September 17, 2021 16:00	3.77	1.15
September 17, 2021 17:00	3.35	1.07
September 17, 2021 18:00	3.14	1.06
September 17, 2021 19:00	2.81	0.96
September 17, 2021 20:00	2.80	0.88
September 17, 2021 21:00	2.88	0.84
September 17, 2021 22:00	2.50	0.84



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September 17, 2021 23:00	2.42	0.87
September 18, 2021 0:00	2.36	0.81
September 18, 2021 1:00	2.23	0.70
September 18, 2021 2:00	2.14	0.68
September 18, 2021 3:00	2.05	0.68
September 18, 2021 4:00	2.06	0.69
September 18, 2021 5:00	2.13	0.70
September 18, 2021 6:00	2.47	0.85
September 18, 2021 7:00	2.68	0.89
September 18, 2021 8:00	2.65	0.88
September 18, 2021 9:00	2.77	0.93
September 18, 2021 10:00	2.97	0.90
September 18, 2021 11:00	3.05	0.89
September 18, 2021 12:00	2.95	0.85
September 18, 2021 13:00	2.73	0.80
September 18, 2021 14:00	2.81	0.84
September 18, 2021 15:00	2.72	0.90
September 18, 2021 16:00	2.65	0.93
September 18, 2021 17:00	2.62	0.91
September 18, 2021 18:00	2.56	0.87
September 18, 2021 19:00	2.41	0.85
September 18, 2021 20:00	2.30	0.79
September 18, 2021 21:00	2.42	0.73
September 18, 2021 22:00	2.31	0.67
September 18, 2021 23:00	2.25	0.66
September 19, 2021 0:00	2.21	0.65
September 19, 2021 1:00	2.16	0.63
September 19, 2021 2:00	2.10	0.62
September 19, 2021 3:00	2.02	0.63
September 19, 2021 4:00	2.03	0.64
September 19, 2021 5:00	1.99	0.65
September 19, 2021 6:00	2.12	0.66
September 19, 2021 7:00	2.27	0.67
September 19, 2021 8:00	2.13	0.68
September 19, 2021 9:00	2.18	0.72
September 19, 2021 10:00	2.39	0.76
September 19, 2021 11:00	2.57	0.80
September 19, 2021 12:00	2.53	0.81
September 19, 2021 13:00	2.38	0.75
September 19, 2021 14:00	2.36	0.76
September 19, 2021 15:00	2.36	0.82
September 19, 2021 16:00	2.41	0.80
September 19, 2021 17:00	2.37	0.80
September 19, 2021 18:00	2.32	0.83
September 19, 2021 19:00	2.14	0.81
September 19, 2021 20:00	2.11	0.78
September 19, 2021 21:00	2.30	0.76
September 19, 2021 22:00	2.21	0.73
September 19, 2021 23:00	2.13	0.70
September 20, 2021 0:00	2.08	0.66
September 20, 2021 1:00	2.00	0.63
September 20, 2021 2:00	1.99	0.62
September 20, 2021 3:00	2.01	0.62
September 20, 2021 4:00	1.99	0.62
September 20, 2021 5:00	2.12	0.63
September 20, 2021 6:00	2.57	0.75
September 20, 2021 7:00	3.07	0.89
September 20, 2021 8:00	3.43	0.94
September 20, 2021 9:00	3.83	1.17
September 20, 2021 10:00	4.12	1.28
September 20, 2021 11:00	4.12	1.34
September 20, 2021 12:00	4.19	1.44
September 20, 2021 13:00	4.14	1.39
September 20, 2021 14:00	4.25	1.45
September 20, 2021 15:00	4.28	1.47



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September 20, 2021 16:00	4.04	1.35
September 20, 2021 17:00	3.68	1.25
September 20, 2021 18:00	3.40	1.24
September 20, 2021 19:00	3.08	1.08
September 20, 2021 20:00	2.92	0.96
September 20, 2021 21:00	3.01	0.90
September 20, 2021 22:00	2.73	0.90
September 20, 2021 23:00	2.62	0.87
September 21, 2021 0:00	2.46	0.82
September 21, 2021 1:00	2.30	0.73
September 21, 2021 2:00	2.18	0.66
September 21, 2021 3:00	1.98	0.65
September 21, 2021 4:00	2.02	0.64
September 21, 2021 5:00	2.18	0.63
September 21, 2021 6:00	2.59	0.77
September 21, 2021 7:00	3.06	0.88
September 21, 2021 8:00	3.52	1.03
September 21, 2021 9:00	3.96	1.23
September 21, 2021 10:00	4.28	1.29
September 21, 2021 11:00	4.43	1.38
September 21, 2021 12:00	4.42	1.40
September 21, 2021 13:00	4.27	1.30
September 21, 2021 14:00	4.61	1.58
September 21, 2021 15:00	4.53	1.59
September 21, 2021 16:00	4.05	1.34
September 21, 2021 17:00	3.59	1.21
September 21, 2021 18:00	3.40	1.17
September 21, 2021 19:00	3.19	1.12
September 21, 2021 20:00	3.06	0.95
September 21, 2021 21:00	3.14	0.91
September 21, 2021 22:00	2.76	0.91
September 21, 2021 23:00	2.59	0.88
September 22, 2021 0:00	2.48	0.81
September 22, 2021 1:00	2.33	0.76
September 22, 2021 2:00	2.17	0.74
September 22, 2021 3:00	1.98	0.71
September 22, 2021 4:00	2.01	0.68
September 22, 2021 5:00	2.20	0.69
September 22, 2021 6:00	2.68	0.87
September 22, 2021 7:00	3.16	1.00
September 22, 2021 8:00	3.42	1.03
September 22, 2021 9:00	3.75	1.23
September 22, 2021 10:00	3.86	1.19
September 22, 2021 11:00	4.33	1.35
September 22, 2021 12:00	4.30	1.33
September 22, 2021 13:00	4.20	1.29
September 22, 2021 14:00	4.40	1.43
September 22, 2021 15:00	4.31	1.35
September 22, 2021 16:00	3.93	1.16
September 22, 2021 17:00	3.58	1.11
September 22, 2021 18:00	3.34	1.12
September 22, 2021 19:00	2.98	0.97
September 22, 2021 20:00	2.87	0.93
September 22, 2021 21:00	3.02	0.86
September 22, 2021 22:00	2.68	0.79
September 22, 2021 23:00	2.58	0.78
September 23, 2021 0:00	2.44	0.74
September 23, 2021 1:00	2.27	0.74
September 23, 2021 2:00	2.14	0.71
September 23, 2021 3:00	2.02	0.66
September 23, 2021 4:00	2.04	0.64
September 23, 2021 5:00	2.23	0.61
September 23, 2021 6:00	2.78	0.84
September 23, 2021 7:00	3.28	0.97
September 23, 2021 8:00	3.58	1.07



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September 23, 2021 9:00	3.95	1.23
September 23, 2021 10:00	4.06	1.25
September 23, 2021 11:00	4.08	1.31
September 23, 2021 12:00	4.04	1.32
September 23, 2021 13:00	4.02	1.26
September 23, 2021 14:00	4.16	1.34
September 23, 2021 15:00	4.17	1.39
September 23, 2021 16:00	4.04	1.36
September 23, 2021 17:00	3.71	1.33
September 23, 2021 18:00	3.24	1.16
September 23, 2021 19:00	3.03	1.07
September 23, 2021 20:00	2.97	0.94
September 23, 2021 21:00	2.96	0.91
September 23, 2021 22:00	2.64	0.81
September 23, 2021 23:00	2.52	0.77
September 24, 2021 0:00	2.40	0.73
September 24, 2021 1:00	2.29	0.65
September 24, 2021 2:00	2.14	0.62
September 24, 2021 3:00	1.99	0.63
September 24, 2021 4:00	2.02	0.66
September 24, 2021 5:00	2.19	0.68
September 24, 2021 6:00	2.72	0.83
September 24, 2021 7:00	3.13	0.92
September 24, 2021 8:00	3.36	1.01
September 24, 2021 9:00	3.73	1.19
September 24, 2021 10:00	3.94	1.19
September 24, 2021 11:00	4.04	1.26
September 24, 2021 12:00	4.23	1.40
September 24, 2021 13:00	4.27	1.43
September 24, 2021 14:00	4.18	1.45
September 24, 2021 15:00	4.16	1.46
September 24, 2021 16:00	4.03	1.46
September 24, 2021 17:00	3.81	1.44
September 24, 2021 18:00	3.18	1.13
September 24, 2021 19:00	2.89	0.95
September 24, 2021 20:00	3.02	0.96
September 24, 2021 21:00	2.99	0.88
September 24, 2021 22:00	2.64	0.86
September 24, 2021 23:00	2.49	0.84
September 25, 2021 0:00	2.36	0.80
September 25, 2021 1:00	2.24	0.76
September 25, 2021 2:00	2.07	0.71
September 25, 2021 3:00	1.97	0.63
September 25, 2021 4:00	1.99	0.62
September 25, 2021 5:00	2.11	0.64
September 25, 2021 6:00	2.41	0.83
September 25, 2021 7:00	2.65	0.88
September 25, 2021 8:00	2.70	0.85
September 25, 2021 9:00	2.77	0.93
September 25, 2021 10:00	2.89	0.97
September 25, 2021 11:00	2.96	1.02
September 25, 2021 12:00	2.82	0.86
September 25, 2021 13:00	2.81	0.87
September 25, 2021 14:00	2.81	0.88
September 25, 2021 15:00	2.72	0.86
September 25, 2021 16:00	2.61	0.83
September 25, 2021 17:00	2.55	0.84
September 25, 2021 18:00	2.54	0.85
September 25, 2021 19:00	2.40	0.82
September 25, 2021 20:00	2.35	0.78
September 25, 2021 21:00	2.44	0.76
September 25, 2021 22:00	2.37	0.73
September 25, 2021 23:00	2.22	0.69
September 26, 2021 0:00	2.14	0.66
September 26, 2021 1:00	2.02	0.63



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September 26, 2021 2:00	1.96	0.63
September 26, 2021 3:00	1.89	0.62
September 26, 2021 4:00	1.89	0.63
September 26, 2021 5:00	1.97	0.64
September 26, 2021 6:00	2.01	0.65
September 26, 2021 7:00	2.09	0.66
September 26, 2021 8:00	2.11	0.67
September 26, 2021 9:00	2.09	0.66
September 26, 2021 10:00	2.21	0.66
September 26, 2021 11:00	2.37	0.69
September 26, 2021 12:00	2.40	0.73
September 26, 2021 13:00	2.40	0.76
September 26, 2021 14:00	2.46	0.92
September 26, 2021 15:00	2.53	0.96
September 26, 2021 16:00	2.60	0.97
September 26, 2021 17:00	2.65	0.98
September 26, 2021 18:00	2.52	0.95
September 26, 2021 19:00	2.32	0.85
September 26, 2021 20:00	2.24	0.78
September 26, 2021 21:00	2.33	0.75
September 26, 2021 22:00	2.23	0.75
September 26, 2021 23:00	2.10	0.73
September 27, 2021 0:00	2.05	0.71
September 27, 2021 1:00	1.96	0.69
September 27, 2021 2:00	1.88	0.69
September 27, 2021 3:00	1.88	0.69
September 27, 2021 4:00	1.90	0.69
September 27, 2021 5:00	2.12	0.71
September 27, 2021 6:00	2.54	0.77
September 27, 2021 7:00	2.93	0.82
September 27, 2021 8:00	3.48	1.01
September 27, 2021 9:00	4.03	1.28
September 27, 2021 10:00	4.22	1.37
September 27, 2021 11:00	4.46	1.50
September 27, 2021 12:00	4.60	1.65
September 27, 2021 13:00	4.46	1.54
September 27, 2021 14:00	4.53	1.64
September 27, 2021 15:00	4.41	1.55
September 27, 2021 16:00	4.38	1.57
September 27, 2021 17:00	3.78	1.35
September 27, 2021 18:00	3.54	1.30
September 27, 2021 19:00	3.15	1.10
September 27, 2021 20:00	3.10	1.02
September 27, 2021 21:00	3.07	0.98
September 27, 2021 22:00	2.75	0.96
September 27, 2021 23:00	2.61	0.91
September 28, 2021 0:00	2.50	0.85
September 28, 2021 1:00	2.37	0.80
September 28, 2021 2:00	2.21	0.73
September 28, 2021 3:00	1.95	0.66
September 28, 2021 4:00	1.97	0.66
September 28, 2021 5:00	2.13	0.66
September 28, 2021 6:00	2.56	0.79
September 28, 2021 7:00	2.92	0.81
September 28, 2021 8:00	3.33	0.90
September 28, 2021 9:00	3.53	1.05
September 28, 2021 10:00	3.84	1.12
September 28, 2021 11:00	4.14	1.30
September 28, 2021 12:00	4.27	1.39
September 28, 2021 13:00	4.11	1.28
September 28, 2021 14:00	4.36	1.44
September 28, 2021 15:00	4.46	1.48
September 28, 2021 16:00	4.13	1.37
September 28, 2021 17:00	3.70	1.30
September 28, 2021 18:00	3.24	1.10



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September 28, 2021 19:00	3.05	1.01
September 28, 2021 20:00	3.08	0.94
September 28, 2021 21:00	3.05	0.93
September 28, 2021 22:00	2.68	0.88
September 28, 2021 23:00	2.60	0.86
September 29, 2021 0:00	2.51	0.80
September 29, 2021 1:00	2.34	0.73
September 29, 2021 2:00	2.20	0.66
September 29, 2021 3:00	2.01	0.64
September 29, 2021 4:00	2.05	0.63
September 29, 2021 5:00	2.22	0.62
September 29, 2021 6:00	2.54	0.66
September 29, 2021 7:00	3.03	0.79
September 29, 2021 8:00	3.48	0.95
September 29, 2021 9:00	3.60	1.07
September 29, 2021 10:00	3.83	1.11
September 29, 2021 11:00	4.23	1.31
September 29, 2021 12:00	4.32	1.44
September 29, 2021 13:00	4.15	1.33
September 29, 2021 14:00	4.52	1.52
September 29, 2021 15:00	4.44	1.51
September 29, 2021 16:00	4.06	1.34
September 29, 2021 17:00	3.51	1.12
September 29, 2021 18:00	3.13	0.98
September 29, 2021 19:00	2.91	0.87
September 29, 2021 20:00	3.04	0.80
September 29, 2021 21:00	2.97	0.80
September 29, 2021 22:00	2.68	0.82
September 29, 2021 23:00	2.57	0.82
September 30, 2021 0:00	2.50	0.74
September 30, 2021 1:00	2.33	0.66
September 30, 2021 2:00	2.21	0.66
September 30, 2021 3:00	2.05	0.66
September 30, 2021 4:00	2.06	0.66
September 30, 2021 5:00	2.23	0.67
September 30, 2021 6:00	2.78	0.85
September 30, 2021 7:00	3.08	0.93
September 30, 2021 8:00	3.53	1.09
September 30, 2021 9:00	3.71	1.18
September 30, 2021 10:00	4.01	1.24
September 30, 2021 11:00	4.14	1.28
September 30, 2021 12:00	4.24	1.40
September 30, 2021 13:00	4.18	1.37
September 30, 2021 14:00	4.33	1.52
September 30, 2021 15:00	4.21	1.44
September 30, 2021 16:00	3.81	1.24
September 30, 2021 17:00	3.50	1.22
September 30, 2021 18:00	3.19	1.13
September 30, 2021 19:00	2.99	1.04
September 30, 2021 20:00	3.13	1.03
September 30, 2021 21:00	3.06	0.96
September 30, 2021 22:00	2.78	0.90
September 30, 2021 23:00	2.67	0.92
October 1, 2021 0:00	2.59	0.89
October 1, 2021 1:00	2.42	0.85
October 1, 2021 2:00	2.23	0.80
October 1, 2021 3:00	2.05	0.73
October 1, 2021 4:00	2.06	0.71
October 1, 2021 5:00	2.26	0.71
October 1, 2021 6:00	2.58	0.71
October 1, 2021 7:00	3.01	0.87
October 1, 2021 8:00	3.47	1.06
October 1, 2021 9:00	3.86	1.19
October 1, 2021 10:00	3.85	1.18
October 1, 2021 11:00	3.94	1.23



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October 1, 2021 12:00	4.02	1.26
October 1, 2021 13:00	3.90	1.20
October 1, 2021 14:00	4.02	1.28
October 1, 2021 15:00	3.97	1.29
October 1, 2021 16:00	3.66	1.13
October 1, 2021 17:00	3.31	1.05
October 1, 2021 18:00	3.10	1.02
October 1, 2021 19:00	2.90	0.94
October 1, 2021 20:00	3.07	0.91
October 1, 2021 21:00	3.00	0.89
October 1, 2021 22:00	2.69	0.86
October 1, 2021 23:00	2.51	0.84
October 2, 2021 0:00	2.41	0.78
October 2, 2021 1:00	2.23	0.69
October 2, 2021 2:00	2.07	0.58
October 2, 2021 3:00	1.91	0.58
October 2, 2021 4:00	2.00	0.61
October 2, 2021 5:00	2.05	0.64
October 2, 2021 6:00	2.29	0.66
October 2, 2021 7:00	2.63	0.68
October 2, 2021 8:00	2.81	0.77
October 2, 2021 9:00	2.93	0.93
October 2, 2021 10:00	2.97	0.85
October 2, 2021 11:00	3.09	0.92
October 2, 2021 12:00	3.18	0.99
October 2, 2021 13:00	3.09	0.95
October 2, 2021 14:00	3.11	0.97
October 2, 2021 15:00	3.10	0.94
October 2, 2021 16:00	2.82	0.83
October 2, 2021 17:00	2.70	0.83
October 2, 2021 18:00	2.61	0.83
October 2, 2021 19:00	2.40	0.82
October 2, 2021 20:00	2.52	0.80
October 2, 2021 21:00	2.51	0.78
October 2, 2021 22:00	2.36	0.76
October 2, 2021 23:00	2.29	0.73
October 3, 2021 0:00	2.21	0.70
October 3, 2021 1:00	2.12	0.67
October 3, 2021 2:00	1.99	0.66
October 3, 2021 3:00	1.86	0.66
October 3, 2021 4:00	1.88	0.66
October 3, 2021 5:00	1.98	0.68
October 3, 2021 6:00	2.18	0.79
October 3, 2021 7:00	2.27	0.78
October 3, 2021 8:00	2.24	0.76
October 3, 2021 9:00	2.01	0.66
October 3, 2021 10:00	2.16	0.66
October 3, 2021 11:00	2.34	0.71
October 3, 2021 12:00	2.37	0.77
October 3, 2021 13:00	2.39	0.81
October 3, 2021 14:00	2.43	0.84
October 3, 2021 15:00	2.47	0.83
October 3, 2021 16:00	2.48	0.83
October 3, 2021 17:00	2.47	0.82
October 3, 2021 18:00	2.43	0.81
October 3, 2021 19:00	2.29	0.79
October 3, 2021 20:00	2.30	0.76
October 3, 2021 21:00	2.18	0.72
October 3, 2021 22:00	2.10	0.66
October 3, 2021 23:00	2.05	0.64
October 4, 2021 0:00	2.01	0.63
October 4, 2021 1:00	1.92	0.61
October 4, 2021 2:00	1.93	0.62
October 4, 2021 3:00	1.91	0.62
October 4, 2021 4:00	1.94	0.63



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October 4, 2021 5:00	2.17	0.64
October 4, 2021 6:00	2.56	0.67
October 4, 2021 7:00	3.18	0.90
October 4, 2021 8:00	3.60	1.01
October 4, 2021 9:00	3.94	1.23
October 4, 2021 10:00	4.04	1.18
October 4, 2021 11:00	4.19	1.28
October 4, 2021 12:00	4.34	1.31
October 4, 2021 13:00	4.32	1.31
October 4, 2021 14:00	4.40	1.42
October 4, 2021 15:00	4.30	1.40
October 4, 2021 16:00	4.03	1.24
October 4, 2021 17:00	3.73	1.13
October 4, 2021 18:00	3.38	1.05
October 4, 2021 19:00	3.03	0.90
October 4, 2021 20:00	3.23	0.90
October 4, 2021 21:00	3.10	0.92
October 4, 2021 22:00	2.80	0.85
October 4, 2021 23:00	2.67	0.82
October 5, 2021 0:00	2.51	0.78
October 5, 2021 1:00	2.39	0.74
October 5, 2021 2:00	2.26	0.74
October 5, 2021 3:00	2.02	0.69
October 5, 2021 4:00	2.10	0.65
October 5, 2021 5:00	2.27	0.65
October 5, 2021 6:00	2.58	0.67
October 5, 2021 7:00	2.97	0.80
October 5, 2021 8:00	3.57	0.98
October 5, 2021 9:00	3.97	1.23
October 5, 2021 10:00	4.12	1.20
October 5, 2021 11:00	4.35	1.28
October 5, 2021 12:00	4.48	1.37
October 5, 2021 13:00	4.40	1.30
October 5, 2021 14:00	4.50	1.39
October 5, 2021 15:00	4.42	1.45
October 5, 2021 16:00	4.12	1.36
October 5, 2021 17:00	3.81	1.27
October 5, 2021 18:00	3.21	0.99
October 5, 2021 19:00	2.98	0.90
October 5, 2021 20:00	3.20	0.88
October 5, 2021 21:00	3.07	0.86
October 5, 2021 22:00	2.78	0.84
October 5, 2021 23:00	2.63	0.82
October 6, 2021 0:00	2.48	0.79
October 6, 2021 1:00	2.32	0.75
October 6, 2021 2:00	2.21	0.69
October 6, 2021 3:00	2.01	0.68
October 6, 2021 4:00	2.08	0.71
October 6, 2021 5:00	2.19	0.66
October 6, 2021 6:00	2.67	0.79
October 6, 2021 7:00	3.10	0.81
October 6, 2021 8:00	3.77	1.00
October 6, 2021 9:00	3.81	1.13
October 6, 2021 10:00	4.05	1.05
October 6, 2021 11:00	4.26	1.20
October 6, 2021 12:00	4.38	1.25
October 6, 2021 13:00	4.28	1.23
October 6, 2021 14:00	4.60	1.36
October 6, 2021 15:00	4.61	1.45
October 6, 2021 16:00	4.55	1.50
October 6, 2021 17:00	3.88	1.23
October 6, 2021 18:00	3.48	1.05
October 6, 2021 19:00	3.11	0.87
October 6, 2021 20:00	3.23	0.86
October 6, 2021 21:00	3.07	0.88



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October 6, 2021 22:00	2.77	0.83
October 6, 2021 23:00	2.65	0.79
October 7, 2021 0:00	2.55	0.77
October 7, 2021 1:00	2.50	0.73
October 7, 2021 2:00	2.42	0.69
October 7, 2021 3:00	2.19	0.70
October 7, 2021 4:00	2.20	0.70
October 7, 2021 5:00	2.32	0.68
October 7, 2021 6:00	2.79	0.88
October 7, 2021 7:00	3.32	0.96
October 7, 2021 8:00	3.82	1.14
October 7, 2021 9:00	4.01	1.19
October 7, 2021 10:00	4.06	1.17
October 7, 2021 11:00	4.29	1.29
October 7, 2021 12:00	4.44	1.44
October 7, 2021 13:00	4.21	1.36
October 7, 2021 14:00	4.41	1.44
October 7, 2021 15:00	4.25	1.36
October 7, 2021 16:00	4.09	1.26
October 7, 2021 17:00	3.82	1.20
October 7, 2021 18:00	3.44	1.10
October 7, 2021 19:00	2.98	0.88
October 7, 2021 20:00	3.11	0.90
October 7, 2021 21:00	3.00	0.89
October 7, 2021 22:00	2.77	0.86
October 7, 2021 23:00	2.63	0.84
October 8, 2021 0:00	2.57	0.79
October 8, 2021 1:00	2.51	0.76
October 8, 2021 2:00	2.36	0.72
October 8, 2021 3:00	2.18	0.61
October 8, 2021 4:00	2.15	0.61
October 8, 2021 5:00	2.22	0.62
October 8, 2021 6:00	2.65	0.77
October 8, 2021 7:00	3.06	0.86
October 8, 2021 8:00	3.59	1.07
October 8, 2021 9:00	3.83	1.19
October 8, 2021 10:00	4.14	1.24
October 8, 2021 11:00	4.21	1.32
October 8, 2021 12:00	4.32	1.38
October 8, 2021 13:00	4.20	1.32
October 8, 2021 14:00	4.15	1.28
October 8, 2021 15:00	4.11	1.30
October 8, 2021 16:00	3.86	1.25
October 8, 2021 17:00	3.32	1.04
October 8, 2021 18:00	3.02	0.94
October 8, 2021 19:00	2.78	0.85
October 8, 2021 20:00	3.00	0.83
October 8, 2021 21:00	2.82	0.79
October 8, 2021 22:00	2.50	0.75
October 8, 2021 23:00	2.41	0.72
October 9, 2021 0:00	2.34	0.71
October 9, 2021 1:00	2.30	0.67
October 9, 2021 2:00	2.21	0.64
October 9, 2021 3:00	2.10	0.62
October 9, 2021 4:00	2.07	0.60
October 9, 2021 5:00	2.13	0.61
October 9, 2021 6:00	2.32	0.67
October 9, 2021 7:00	2.91	0.87
October 9, 2021 8:00	3.06	0.92
October 9, 2021 9:00	3.09	0.98
October 9, 2021 10:00	3.06	0.95
October 9, 2021 11:00	3.06	0.94
October 9, 2021 12:00	3.06	0.91
October 9, 2021 13:00	2.72	0.79
October 9, 2021 14:00	2.63	0.77



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October 9, 2021 15:00	2.58	0.79
October 9, 2021 16:00	2.62	0.79
October 9, 2021 17:00	2.54	0.79
October 9, 2021 18:00	2.39	0.74
October 9, 2021 19:00	2.25	0.69
October 9, 2021 20:00	2.37	0.70
October 9, 2021 21:00	2.28	0.68
October 9, 2021 22:00	2.21	0.66
October 9, 2021 23:00	2.09	0.64
October 10, 2021 0:00	2.02	0.63
October 10, 2021 1:00	1.94	0.62
October 10, 2021 2:00	1.89	0.61
October 10, 2021 3:00	1.91	0.61
October 10, 2021 4:00	2.00	0.60
October 10, 2021 5:00	2.04	0.60
October 10, 2021 6:00	2.19	0.71
October 10, 2021 7:00	2.28	0.73
October 10, 2021 8:00	2.53	0.86
October 10, 2021 9:00	2.41	0.84
October 10, 2021 10:00	2.40	0.86
October 10, 2021 11:00	2.63	0.92
October 10, 2021 12:00	2.45	0.79
October 10, 2021 13:00	2.44	0.67
October 10, 2021 14:00	2.53	0.69
October 10, 2021 15:00	2.56	0.71
October 10, 2021 16:00	2.60	0.72
October 10, 2021 17:00	2.54	0.69
October 10, 2021 18:00	2.34	0.64
October 10, 2021 19:00	2.24	0.62
October 10, 2021 20:00	2.40	0.66
October 10, 2021 21:00	2.34	0.65
October 10, 2021 22:00	2.31	0.63
October 10, 2021 23:00	2.18	0.63
October 11, 2021 0:00	2.13	0.62
October 11, 2021 1:00	2.08	0.62
October 11, 2021 2:00	2.00	0.62
October 11, 2021 3:00	2.02	0.62
October 11, 2021 4:00	1.93	0.63
October 11, 2021 5:00	2.01	0.65
October 11, 2021 6:00	2.06	0.67
October 11, 2021 7:00	2.24	0.68
October 11, 2021 8:00	2.29	0.67
October 11, 2021 9:00	2.23	0.66
October 11, 2021 10:00	2.22	0.65
October 11, 2021 11:00	2.32	0.65
October 11, 2021 12:00	2.29	0.67
October 11, 2021 13:00	2.37	0.66
October 11, 2021 14:00	2.25	0.61
October 11, 2021 15:00	2.21	0.59
October 11, 2021 16:00	2.20	0.60
October 11, 2021 17:00	2.19	0.62
October 11, 2021 18:00	2.00	0.60
October 11, 2021 19:00	1.99	0.54
October 11, 2021 20:00	2.20	0.53
October 11, 2021 21:00	2.17	0.56
October 11, 2021 22:00	2.12	0.57
October 11, 2021 23:00	2.05	0.57
October 12, 2021 0:00	2.03	0.57
October 12, 2021 1:00	2.03	0.58
October 12, 2021 2:00	2.00	0.58
October 12, 2021 3:00	2.00	0.59
October 12, 2021 4:00	2.06	0.59
October 12, 2021 5:00	2.27	0.63
October 12, 2021 6:00	2.62	0.70
October 12, 2021 7:00	3.14	0.87



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October 12, 2021 8:00	3.79	1.07
October 12, 2021 9:00	3.80	1.04
October 12, 2021 10:00	4.16	1.15
October 12, 2021 11:00	4.28	1.24
October 12, 2021 12:00	4.25	1.27
October 12, 2021 13:00	4.01	1.15
October 12, 2021 14:00	4.15	1.27
October 12, 2021 15:00	4.10	1.25
October 12, 2021 16:00	3.98	1.19
October 12, 2021 17:00	3.99	1.30
October 12, 2021 18:00	3.60	1.16
October 12, 2021 19:00	3.20	1.00
October 12, 2021 20:00	3.55	1.05
October 12, 2021 21:00	3.42	1.05
October 12, 2021 22:00	3.16	1.05
October 12, 2021 23:00	2.90	0.93
October 13, 2021 0:00	2.62	0.76
October 13, 2021 1:00	2.36	0.69
October 13, 2021 2:00	2.25	0.68
October 13, 2021 3:00	2.17	0.68
October 13, 2021 4:00	2.21	0.68
October 13, 2021 5:00	2.35	0.69
October 13, 2021 6:00	2.81	0.80
October 13, 2021 7:00	3.39	0.94
October 13, 2021 8:00	3.96	1.12
October 13, 2021 9:00	4.14	1.20
October 13, 2021 10:00	4.32	1.23
October 13, 2021 11:00	4.39	1.25
October 13, 2021 12:00	4.61	1.35
October 13, 2021 13:00	4.53	1.25
October 13, 2021 14:00	4.71	1.43
October 13, 2021 15:00	4.45	1.38
October 13, 2021 16:00	4.23	1.24
October 13, 2021 17:00	3.89	1.12
October 13, 2021 18:00	3.64	1.09
October 13, 2021 19:00	3.40	0.98
October 13, 2021 20:00	3.40	0.89
October 13, 2021 21:00	3.21	0.87
October 13, 2021 22:00	2.93	0.83
October 13, 2021 23:00	2.84	0.80
October 14, 2021 0:00	2.63	0.77
October 14, 2021 1:00	2.43	0.73
October 14, 2021 2:00	2.31	0.69
October 14, 2021 3:00	2.22	0.69
October 14, 2021 4:00	2.33	0.68
October 14, 2021 5:00	2.48	0.68
October 14, 2021 6:00	2.76	0.70
October 14, 2021 7:00	3.20	0.77
October 14, 2021 8:00	3.80	0.95
October 14, 2021 9:00	4.08	1.10
October 14, 2021 10:00	4.53	1.34
October 14, 2021 11:00	4.63	1.35
October 14, 2021 12:00	4.52	1.39
October 14, 2021 13:00	4.45	1.32
October 14, 2021 14:00	4.41	1.37
October 14, 2021 15:00	4.37	1.39
October 14, 2021 16:00	4.12	1.22
October 14, 2021 17:00	3.79	1.08
October 14, 2021 18:00	3.35	0.98
October 14, 2021 19:00	3.26	0.93
October 14, 2021 20:00	3.47	0.91
October 14, 2021 21:00	3.21	0.87
October 14, 2021 22:00	2.98	0.89
October 14, 2021 23:00	2.86	0.85
October 15, 2021 0:00	2.71	0.83



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October 15, 2021 1:00	2.45	0.71
October 15, 2021 2:00	2.35	0.69
October 15, 2021 3:00	2.23	0.69
October 15, 2021 4:00	2.30	0.69
October 15, 2021 5:00	2.44	0.69
October 15, 2021 6:00	2.74	0.73
October 15, 2021 7:00	3.17	0.85
October 15, 2021 8:00	3.96	1.18
October 15, 2021 9:00	4.03	1.15
October 15, 2021 10:00	4.34	1.27
October 15, 2021 11:00	4.47	1.31
October 15, 2021 12:00	4.54	1.43
October 15, 2021 13:00	4.38	1.36
October 15, 2021 14:00	4.28	1.30
October 15, 2021 15:00	4.20	1.31
October 15, 2021 16:00	4.08	1.34
October 15, 2021 17:00	3.76	1.24
October 15, 2021 18:00	3.51	1.17
October 15, 2021 19:00	3.20	1.05
October 15, 2021 20:00	3.45	1.11
October 15, 2021 21:00	3.18	0.97
October 15, 2021 22:00	2.92	0.94
October 15, 2021 23:00	2.64	0.88
October 16, 2021 0:00	2.39	0.75
October 16, 2021 1:00	2.15	0.69
October 16, 2021 2:00	2.11	0.71
October 16, 2021 3:00	2.06	0.70
October 16, 2021 4:00	2.07	0.69
October 16, 2021 5:00	2.14	0.71
October 16, 2021 6:00	2.41	0.73
October 16, 2021 7:00	2.73	0.78
October 16, 2021 8:00	2.84	0.83
October 16, 2021 9:00	2.78	0.82
October 16, 2021 10:00	2.94	0.79
October 16, 2021 11:00	3.15	0.83
October 16, 2021 12:00	3.15	0.85
October 16, 2021 13:00	2.99	0.82
October 16, 2021 14:00	2.91	0.86
October 16, 2021 15:00	2.92	0.78
October 16, 2021 16:00	2.67	0.75
October 16, 2021 17:00	2.62	0.77
October 16, 2021 18:00	2.59	0.79
October 16, 2021 19:00	2.53	0.80
October 16, 2021 20:00	2.66	0.81
October 16, 2021 21:00	2.54	0.79
October 16, 2021 22:00	2.31	0.76
October 16, 2021 23:00	2.18	0.73
October 17, 2021 0:00	2.08	0.69
October 17, 2021 1:00	2.02	0.66
October 17, 2021 2:00	1.95	0.63
October 17, 2021 3:00	1.92	0.59
October 17, 2021 4:00	2.04	0.58
October 17, 2021 5:00	2.15	0.61
October 17, 2021 6:00	2.20	0.62
October 17, 2021 7:00	2.32	0.62
October 17, 2021 8:00	2.37	0.61
October 17, 2021 9:00	2.24	0.64
October 17, 2021 10:00	2.31	0.71
October 17, 2021 11:00	2.46	0.74
October 17, 2021 12:00	2.52	0.78
October 17, 2021 13:00	2.46	0.82
October 17, 2021 14:00	2.44	0.83
October 17, 2021 15:00	2.40	0.85
October 17, 2021 16:00	2.42	0.84
October 17, 2021 17:00	2.45	0.83



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October 17, 2021 18:00	2.39	0.82
October 17, 2021 19:00	2.23	0.80
October 17, 2021 20:00	2.41	0.82
October 17, 2021 21:00	2.30	0.76
October 17, 2021 22:00	2.18	0.69
October 17, 2021 23:00	2.10	0.67
October 18, 2021 0:00	2.07	0.62
October 18, 2021 1:00	2.03	0.60
October 18, 2021 2:00	1.92	0.64
October 18, 2021 3:00	1.94	0.65
October 18, 2021 4:00	1.97	0.64
October 18, 2021 5:00	2.17	0.68
October 18, 2021 6:00	2.71	0.82
October 18, 2021 7:00	3.19	0.91
October 18, 2021 8:00	3.88	1.11
October 18, 2021 9:00	4.21	1.26
October 18, 2021 10:00	4.42	1.32
October 18, 2021 11:00	4.50	1.33
October 18, 2021 12:00	4.40	1.27
October 18, 2021 13:00	4.25	1.13
October 18, 2021 14:00	4.30	1.19
October 18, 2021 15:00	4.23	1.18
October 18, 2021 16:00	4.05	1.11
October 18, 2021 17:00	3.68	1.06
October 18, 2021 18:00	3.44	1.06
October 18, 2021 19:00	3.40	0.99
October 18, 2021 20:00	3.57	1.06
October 18, 2021 21:00	3.36	1.04
October 18, 2021 22:00	3.14	1.04
October 18, 2021 23:00	2.96	0.93
October 19, 2021 0:00	2.74	0.84
October 19, 2021 1:00	2.47	0.73
October 19, 2021 2:00	2.29	0.68
October 19, 2021 3:00	2.11	0.65
October 19, 2021 4:00	2.19	0.65
October 19, 2021 5:00	2.39	0.67
October 19, 2021 6:00	2.84	0.79
October 19, 2021 7:00	3.48	1.02
October 19, 2021 8:00	4.09	1.13
October 19, 2021 9:00	4.40	1.26
October 19, 2021 10:00	4.40	1.24
October 19, 2021 11:00	4.54	1.34
October 19, 2021 12:00	4.70	1.40
October 19, 2021 13:00	4.41	1.25
October 19, 2021 14:00	4.29	1.30
October 19, 2021 15:00	4.21	1.26
October 19, 2021 16:00	3.90	1.14
October 19, 2021 17:00	3.72	1.14
October 19, 2021 18:00	3.42	1.06
October 19, 2021 19:00	3.43	1.09
October 19, 2021 20:00	3.66	1.10
October 19, 2021 21:00	3.57	1.12
October 19, 2021 22:00	3.12	1.03
October 19, 2021 23:00	2.90	0.93
October 20, 2021 0:00	2.74	0.82
October 20, 2021 1:00	2.58	0.73
October 20, 2021 2:00	2.38	0.70
October 20, 2021 3:00	2.20	0.65
October 20, 2021 4:00	2.23	0.66
October 20, 2021 5:00	2.34	0.67
October 20, 2021 6:00	2.72	0.71
October 20, 2021 7:00	3.17	0.84
October 20, 2021 8:00	3.83	1.01
October 20, 2021 9:00	4.00	1.12
October 20, 2021 10:00	4.14	1.13



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October 20, 2021 11:00	4.24	1.14
October 20, 2021 12:00	4.33	1.21
October 20, 2021 13:00	4.18	1.12
October 20, 2021 14:00	4.21	1.19
October 20, 2021 15:00	4.41	1.35
October 20, 2021 16:00	4.32	1.29
October 20, 2021 17:00	3.92	1.24
October 20, 2021 18:00	3.64	1.22
October 20, 2021 19:00	3.49	1.06
October 20, 2021 20:00	3.70	1.12
October 20, 2021 21:00	3.55	1.10
October 20, 2021 22:00	3.27	1.10
October 20, 2021 23:00	3.08	1.03
October 21, 2021 0:00	2.85	0.87
October 21, 2021 1:00	2.64	0.82
October 21, 2021 2:00	2.33	0.75
October 21, 2021 3:00	2.14	0.69
October 21, 2021 4:00	2.19	0.70
October 21, 2021 5:00	2.37	0.72
October 21, 2021 6:00	2.75	0.87
October 21, 2021 7:00	3.30	1.01
October 21, 2021 8:00	3.95	1.17
October 21, 2021 9:00	4.25	1.30
October 21, 2021 10:00	4.14	1.29
October 21, 2021 11:00	4.18	1.34
October 21, 2021 12:00	4.37	1.37
October 21, 2021 13:00	4.30	1.32
October 21, 2021 14:00	4.59	1.58
October 21, 2021 15:00	4.36	1.51
October 21, 2021 16:00	4.19	1.36
October 21, 2021 17:00	3.84	1.20
October 21, 2021 18:00	3.39	1.08
October 21, 2021 19:00	3.27	0.96
October 21, 2021 20:00	3.30	0.94
October 21, 2021 21:00	3.09	0.88
October 21, 2021 22:00	2.85	0.87
October 21, 2021 23:00	2.69	0.86
October 22, 2021 0:00	2.69	0.81
October 22, 2021 1:00	2.56	0.75
October 22, 2021 2:00	2.26	0.71
October 22, 2021 3:00	2.10	0.68
October 22, 2021 4:00	2.11	0.65
October 22, 2021 5:00	2.31	0.67
October 22, 2021 6:00	2.61	0.73
October 22, 2021 7:00	3.19	0.89
October 22, 2021 8:00	4.11	1.19
October 22, 2021 9:00	4.22	1.26
October 22, 2021 10:00	4.33	1.31
October 22, 2021 11:00	4.43	1.32
October 22, 2021 12:00	4.59	1.40
October 22, 2021 13:00	4.53	1.36
October 22, 2021 14:00	4.63	1.49
October 22, 2021 15:00	4.41	1.44
October 22, 2021 16:00	4.02	1.26
October 22, 2021 17:00	3.66	1.15
October 22, 2021 18:00	3.56	1.27
October 22, 2021 19:00	3.51	1.18
October 22, 2021 20:00	3.59	1.20
October 22, 2021 21:00	3.33	1.07
October 22, 2021 22:00	2.97	1.04
October 22, 2021 23:00	2.84	0.99
October 23, 2021 0:00	2.55	0.82
October 23, 2021 1:00	2.40	0.75
October 23, 2021 2:00	2.27	0.71
October 23, 2021 3:00	2.14	0.67



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October 23, 2021 4:00	2.08	0.62
October 23, 2021 5:00	2.18	0.62
October 23, 2021 6:00	2.57	0.79
October 23, 2021 7:00	2.82	0.84
October 23, 2021 8:00	2.92	0.75
October 23, 2021 9:00	3.01	0.75
October 23, 2021 10:00	3.00	0.73
October 23, 2021 11:00	3.18	0.85
October 23, 2021 12:00	3.21	0.82
October 23, 2021 13:00	3.16	0.80
October 23, 2021 14:00	3.10	0.72
October 23, 2021 15:00	3.15	0.75
October 23, 2021 16:00	3.21	0.89
October 23, 2021 17:00	3.03	0.87
October 23, 2021 18:00	2.81	0.80
October 23, 2021 19:00	2.75	0.78
October 23, 2021 20:00	2.70	0.75
October 23, 2021 21:00	2.56	0.73
October 23, 2021 22:00	2.45	0.71
October 23, 2021 23:00	2.36	0.68
October 24, 2021 0:00	2.27	0.66
October 24, 2021 1:00	2.08	0.64
October 24, 2021 2:00	2.05	0.64
October 24, 2021 3:00	2.08	0.65
October 24, 2021 4:00	2.08	0.66
October 24, 2021 5:00	2.16	0.67
October 24, 2021 6:00	2.28	0.69
October 24, 2021 7:00	2.36	0.70
October 24, 2021 8:00	2.57	0.73
October 24, 2021 9:00	2.48	0.74
October 24, 2021 10:00	2.71	0.89
October 24, 2021 11:00	2.73	0.79
October 24, 2021 12:00	2.76	0.84
October 24, 2021 13:00	2.72	0.86
October 24, 2021 14:00	2.75	0.87
October 24, 2021 15:00	2.77	0.88
October 24, 2021 16:00	2.68	0.87
October 24, 2021 17:00	2.51	0.81
October 24, 2021 18:00	2.48	0.77
October 24, 2021 19:00	2.55	0.74
October 24, 2021 20:00	2.50	0.72
October 24, 2021 21:00	2.31	0.70
October 24, 2021 22:00	2.22	0.69
October 24, 2021 23:00	2.11	0.66
October 25, 2021 0:00	2.08	0.63
October 25, 2021 1:00	2.02	0.65
October 25, 2021 2:00	1.98	0.67
October 25, 2021 3:00	1.99	0.67
October 25, 2021 4:00	2.07	0.68
October 25, 2021 5:00	2.25	0.71
October 25, 2021 6:00	2.60	0.72
October 25, 2021 7:00	3.10	0.80
October 25, 2021 8:00	3.84	1.07
October 25, 2021 9:00	3.91	1.01
October 25, 2021 10:00	4.07	1.07
October 25, 2021 11:00	4.21	1.13
October 25, 2021 12:00	4.37	1.23
October 25, 2021 13:00	4.23	1.19
October 25, 2021 14:00	4.36	1.36
October 25, 2021 15:00	4.23	1.38
October 25, 2021 16:00	4.07	1.30
October 25, 2021 17:00	3.81	1.20
October 25, 2021 18:00	3.48	1.10
October 25, 2021 19:00	3.38	1.04
October 25, 2021 20:00	3.40	1.04



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October 25, 2021 21:00	3.14	0.95
October 25, 2021 22:00	2.88	0.89
October 25, 2021 23:00	2.80	0.90
October 26, 2021 0:00	2.53	0.78
October 26, 2021 1:00	2.40	0.73
October 26, 2021 2:00	2.35	0.71
October 26, 2021 3:00	2.22	0.67
October 26, 2021 4:00	2.21	0.65
October 26, 2021 5:00	2.31	0.64
October 26, 2021 6:00	2.66	0.67
October 26, 2021 7:00	3.14	0.80
October 26, 2021 8:00	3.77	0.99
October 26, 2021 9:00	3.88	1.04
October 26, 2021 10:00	3.95	1.06
October 26, 2021 11:00	4.14	1.17
October 26, 2021 12:00	4.34	1.35
October 26, 2021 13:00	4.21	1.31
October 26, 2021 14:00	4.32	1.41
October 26, 2021 15:00	4.25	1.39
October 26, 2021 16:00	4.08	1.31
October 26, 2021 17:00	3.69	1.16
October 26, 2021 18:00	3.33	1.04
October 26, 2021 19:00	3.26	0.91
October 26, 2021 20:00	3.39	0.89
October 26, 2021 21:00	3.12	0.86
October 26, 2021 22:00	2.85	0.80
October 26, 2021 23:00	2.74	0.75
October 27, 2021 0:00	2.64	0.72
October 27, 2021 1:00	2.40	0.72
October 27, 2021 2:00	2.27	0.71
October 27, 2021 3:00	2.16	0.69
October 27, 2021 4:00	2.19	0.67
October 27, 2021 5:00	2.37	0.68
October 27, 2021 6:00	2.59	0.71
October 27, 2021 7:00	3.18	0.85
October 27, 2021 8:00	3.89	1.14
October 27, 2021 9:00	4.08	1.17
October 27, 2021 10:00	4.14	1.09
October 27, 2021 11:00	4.46	1.19
October 27, 2021 12:00	4.37	1.21
October 27, 2021 13:00	4.30	1.20
October 27, 2021 14:00	4.43	1.30
October 27, 2021 15:00	4.49	1.39
October 27, 2021 16:00	4.25	1.32
October 27, 2021 17:00	3.99	1.28
October 27, 2021 18:00	3.67	1.22
October 27, 2021 19:00	3.70	1.14
October 27, 2021 20:00	3.67	1.07
October 27, 2021 21:00	3.32	1.00
October 27, 2021 22:00	2.97	0.93
October 27, 2021 23:00	2.94	0.94
October 28, 2021 0:00	2.71	0.81
October 28, 2021 1:00	2.34	0.72
October 28, 2021 2:00	2.21	0.70
October 28, 2021 3:00	2.12	0.68
October 28, 2021 4:00	2.21	0.66
October 28, 2021 5:00	2.39	0.67
October 28, 2021 6:00	2.75	0.70
October 28, 2021 7:00	3.22	0.77
October 28, 2021 8:00	4.00	1.04
October 28, 2021 9:00	4.30	1.11
October 28, 2021 10:00	4.18	1.06
October 28, 2021 11:00	4.38	1.11
October 28, 2021 12:00	4.56	1.22
October 28, 2021 13:00	4.47	1.17



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October 28, 2021 14:00	4.51	1.31
October 28, 2021 15:00	4.48	1.41
October 28, 2021 16:00	4.23	1.32
October 28, 2021 17:00	3.94	1.31
October 28, 2021 18:00	3.59	1.17
October 28, 2021 19:00	3.76	1.18
October 28, 2021 20:00	3.78	1.17
October 28, 2021 21:00	3.57	1.10
October 28, 2021 22:00	3.20	0.99
October 28, 2021 23:00	2.88	0.91
October 29, 2021 0:00	2.75	0.87
October 29, 2021 1:00	2.43	0.68
October 29, 2021 2:00	2.26	0.66
October 29, 2021 3:00	2.19	0.67
October 29, 2021 4:00	2.27	0.68
October 29, 2021 5:00	2.36	0.69
October 29, 2021 6:00	2.72	0.72
October 29, 2021 7:00	3.22	0.85
October 29, 2021 8:00	3.99	1.11
October 29, 2021 9:00	4.35	1.25
October 29, 2021 10:00	4.44	1.29
October 29, 2021 11:00	4.57	1.34
October 29, 2021 12:00	4.62	1.34
October 29, 2021 13:00	4.51	1.27
October 29, 2021 14:00	4.73	1.42
October 29, 2021 15:00	4.40	1.26
October 29, 2021 16:00	3.95	1.09
October 29, 2021 17:00	3.64	1.06
October 29, 2021 18:00	3.52	1.04
October 29, 2021 19:00	3.54	0.95
October 29, 2021 20:00	3.57	0.95
October 29, 2021 21:00	3.37	0.96
October 29, 2021 22:00	3.06	0.83
October 29, 2021 23:00	2.82	0.81
October 30, 2021 0:00	2.60	0.78
October 30, 2021 1:00	2.26	0.65
October 30, 2021 2:00	2.28	0.63
October 30, 2021 3:00	2.20	0.64
October 30, 2021 4:00	2.23	0.64
October 30, 2021 5:00	2.34	0.65
October 30, 2021 6:00	2.53	0.66
October 30, 2021 7:00	2.74	0.70
October 30, 2021 8:00	2.89	0.75
October 30, 2021 9:00	2.85	0.73
October 30, 2021 10:00	3.05	0.72
October 30, 2021 11:00	3.19	0.75
October 30, 2021 12:00	3.14	0.76
October 30, 2021 13:00	3.02	0.74
October 30, 2021 14:00	3.00	0.75
October 30, 2021 15:00	2.92	0.77
October 30, 2021 16:00	2.79	0.77
October 30, 2021 17:00	2.65	0.72
October 30, 2021 18:00	2.63	0.71
October 30, 2021 19:00	2.71	0.69
October 30, 2021 20:00	2.74	0.68
October 30, 2021 21:00	2.61	0.67
October 30, 2021 22:00	2.48	0.65
October 30, 2021 23:00	2.40	0.64
October 31, 2021 0:00	2.30	0.63
October 31, 2021 1:00	2.26	0.63
October 31, 2021 2:00	2.24	0.62
October 31, 2021 3:00	2.20	0.62
October 31, 2021 4:00	2.21	0.63
October 31, 2021 5:00	2.28	0.68
October 31, 2021 6:00	2.38	0.71



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October 31, 2021 7:00	2.51	0.73
October 31, 2021 8:00	2.67	0.76
October 31, 2021 9:00	2.61	0.78
October 31, 2021 10:00	2.61	0.78
October 31, 2021 11:00	2.75	0.77
October 31, 2021 12:00	2.79	0.76
October 31, 2021 13:00	2.78	0.74
October 31, 2021 14:00	2.76	0.73
October 31, 2021 15:00	2.66	0.71
October 31, 2021 16:00	2.58	0.68
October 31, 2021 17:00	2.57	0.67
October 31, 2021 18:00	2.60	0.68
October 31, 2021 19:00	2.69	0.70
October 31, 2021 20:00	2.71	0.71
October 31, 2021 21:00	2.55	0.67
October 31, 2021 22:00	2.49	0.64
October 31, 2021 23:00	2.42	0.61
November 1, 2021 0:00	2.43	0.61
November 1, 2021 1:00	2.41	0.62
November 1, 2021 2:00	2.31	0.63
November 1, 2021 3:00	2.33	0.62
November 1, 2021 4:00	2.42	0.64
November 1, 2021 5:00	2.58	0.69
November 1, 2021 6:00	2.97	0.77
November 1, 2021 7:00	3.46	0.86
November 1, 2021 8:00	4.22	1.12
November 1, 2021 9:00	4.50	1.19
November 1, 2021 10:00	4.73	1.34
November 1, 2021 11:00	4.74	1.31
November 1, 2021 12:00	4.59	1.19
November 1, 2021 13:00	4.55	1.20
November 1, 2021 14:00	4.75	1.38
November 1, 2021 15:00	4.93	1.52
November 1, 2021 16:00	4.59	1.39
November 1, 2021 17:00	4.42	1.41
November 1, 2021 18:00	4.15	1.36
November 1, 2021 19:00	4.21	1.26
November 1, 2021 20:00	4.08	1.22
November 1, 2021 21:00	3.91	1.20
November 1, 2021 22:00	3.66	1.17
November 1, 2021 23:00	3.47	1.11
November 2, 2021 0:00	3.30	0.99
November 2, 2021 1:00	2.96	0.82
November 2, 2021 2:00	2.72	0.75
November 2, 2021 3:00	2.57	0.74
November 2, 2021 4:00	2.63	0.73
November 2, 2021 5:00	2.71	0.73
November 2, 2021 6:00	3.24	0.89
November 2, 2021 7:00	3.89	1.10
November 2, 2021 8:00	4.41	1.19
November 2, 2021 9:00	4.84	1.39
November 2, 2021 10:00	4.92	1.42
November 2, 2021 11:00	5.08	1.51
November 2, 2021 12:00	4.97	1.51
November 2, 2021 13:00	4.64	1.35
November 2, 2021 14:00	4.75	1.51
November 2, 2021 15:00	4.42	1.42
November 2, 2021 16:00	4.29	1.42
November 2, 2021 17:00	4.05	1.39
November 2, 2021 18:00	3.75	1.29
November 2, 2021 19:00	3.92	1.28
November 2, 2021 20:00	3.89	1.25
November 2, 2021 21:00	3.62	1.15
November 2, 2021 22:00	3.32	1.06
November 2, 2021 23:00	3.21	1.03



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November 3, 2021 0:00	2.92	0.86
November 3, 2021 1:00	2.77	0.85
November 3, 2021 2:00	2.57	0.77
November 3, 2021 3:00	2.39	0.73
November 3, 2021 4:00	2.40	0.73
November 3, 2021 5:00	2.54	0.70
November 3, 2021 6:00	2.98	0.85
November 3, 2021 7:00	3.61	1.05
November 3, 2021 8:00	4.01	1.16
November 3, 2021 9:00	4.46	1.35
November 3, 2021 10:00	4.35	1.32
November 3, 2021 11:00	4.45	1.30
November 3, 2021 12:00	4.79	1.42
November 3, 2021 13:00	4.73	1.40
November 3, 2021 14:00	4.72	1.54
November 3, 2021 15:00	4.62	1.51
November 3, 2021 16:00	4.18	1.35
November 3, 2021 17:00	3.73	1.19
November 3, 2021 18:00	3.44	1.20
November 3, 2021 19:00	3.59	1.05
November 3, 2021 20:00	3.55	1.09
November 3, 2021 21:00	3.43	1.07
November 3, 2021 22:00	3.30	1.13
November 3, 2021 23:00	3.10	1.03
November 4, 2021 0:00	2.87	0.82
November 4, 2021 1:00	2.61	0.77
November 4, 2021 2:00	2.47	0.71
November 4, 2021 3:00	2.23	0.68
November 4, 2021 4:00	2.28	0.68
November 4, 2021 5:00	2.41	0.66
November 4, 2021 6:00	2.99	0.90
November 4, 2021 7:00	3.65	1.07
November 4, 2021 8:00	4.03	1.13
November 4, 2021 9:00	4.47	1.27
November 4, 2021 10:00	4.38	1.26
November 4, 2021 11:00	4.43	1.31
November 4, 2021 12:00	4.56	1.40
November 4, 2021 13:00	4.36	1.31
November 4, 2021 14:00	4.51	1.44
November 4, 2021 15:00	4.37	1.37
November 4, 2021 16:00	4.19	1.35
November 4, 2021 17:00	4.20	1.44
November 4, 2021 18:00	3.69	1.28
November 4, 2021 19:00	3.70	1.16
November 4, 2021 20:00	3.75	1.20
November 4, 2021 21:00	3.46	1.17
November 4, 2021 22:00	3.21	1.14
November 4, 2021 23:00	3.08	1.09
November 5, 2021 0:00	2.87	0.94
November 5, 2021 1:00	2.69	0.76
November 5, 2021 2:00	2.56	0.73
November 5, 2021 3:00	2.31	0.70
November 5, 2021 4:00	2.32	0.69
November 5, 2021 5:00	2.47	0.71
November 5, 2021 6:00	3.02	0.88
November 5, 2021 7:00	3.61	1.14
November 5, 2021 8:00	4.06	1.23
November 5, 2021 9:00	4.37	1.24
November 5, 2021 10:00	4.40	1.30
November 5, 2021 11:00	4.52	1.36
November 5, 2021 12:00	4.31	1.22
November 5, 2021 13:00	4.22	1.18
November 5, 2021 14:00	4.44	1.37
November 5, 2021 15:00	4.45	1.38
November 5, 2021 16:00	4.11	1.23



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November 5, 2021 17:00	3.48	1.06
November 5, 2021 18:00	3.07	0.92
November 5, 2021 19:00	3.22	0.89
November 5, 2021 20:00	3.31	0.88
November 5, 2021 21:00	3.11	0.84
November 5, 2021 22:00	2.84	0.80
November 5, 2021 23:00	2.64	0.75
November 6, 2021 0:00	2.51	0.71
November 6, 2021 1:00	2.51	0.66
November 6, 2021 2:00	2.37	0.63
November 6, 2021 3:00	2.25	0.64
November 6, 2021 4:00	2.25	0.65
November 6, 2021 5:00	2.39	0.66
November 6, 2021 6:00	2.78	0.76
November 6, 2021 7:00	3.15	0.84
November 6, 2021 8:00	3.41	0.91
November 6, 2021 9:00	3.49	0.94
November 6, 2021 10:00	3.46	0.96
November 6, 2021 11:00	3.56	1.01
November 6, 2021 12:00	3.67	1.03
November 6, 2021 13:00	3.53	1.03
November 6, 2021 14:00	3.12	0.83
November 6, 2021 15:00	2.93	0.81
November 6, 2021 16:00	2.87	0.83
November 6, 2021 17:00	2.80	0.81
November 6, 2021 18:00	2.76	0.74
November 6, 2021 19:00	2.97	0.74
November 6, 2021 20:00	2.87	0.77
November 6, 2021 21:00	2.76	0.75
November 6, 2021 22:00	2.65	0.70
November 6, 2021 23:00	2.57	0.67
November 7, 2021 0:00	2.41	0.65
November 7, 2021 1:00	2.31	0.61
November 7, 2021 1:00	2.31	0.62
November 7, 2021 2:00	2.25	0.62
November 7, 2021 3:00	2.32	0.63
November 7, 2021 4:00	2.28	0.64
November 7, 2021 5:00	2.28	0.64
November 7, 2021 6:00	2.33	0.64
November 7, 2021 7:00	2.42	0.64
November 7, 2021 8:00	2.36	0.64
November 7, 2021 9:00	2.36	0.65
November 7, 2021 10:00	2.41	0.66
November 7, 2021 11:00	2.46	0.67
November 7, 2021 12:00	2.57	0.69
November 7, 2021 13:00	2.59	0.70
November 7, 2021 14:00	2.61	0.72
November 7, 2021 15:00	2.64	0.74
November 7, 2021 16:00	2.62	0.73
November 7, 2021 17:00	2.53	0.72
November 7, 2021 18:00	2.82	0.71
November 7, 2021 19:00	2.71	0.71
November 7, 2021 20:00	2.65	0.71
November 7, 2021 21:00	2.52	0.69
November 7, 2021 22:00	2.47	0.66
November 7, 2021 23:00	2.35	0.63
November 8, 2021 0:00	2.28	0.63
November 8, 2021 1:00	2.19	0.64
November 8, 2021 2:00	2.19	0.64
November 8, 2021 3:00	2.19	0.65
November 8, 2021 4:00	2.25	0.66
November 8, 2021 5:00	2.51	0.70
November 8, 2021 6:00	3.00	0.87
November 8, 2021 7:00	3.49	0.99
November 8, 2021 8:00	3.86	1.09



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November 8, 2021 9:00	3.97	1.10
November 8, 2021 10:00	4.28	1.12
November 8, 2021 11:00	4.51	1.29
November 8, 2021 12:00	4.59	1.41
November 8, 2021 13:00	4.28	1.24
November 8, 2021 14:00	4.47	1.37
November 8, 2021 15:00	4.57	1.35
November 8, 2021 16:00	4.15	1.21
November 8, 2021 17:00	3.85	1.13
November 8, 2021 18:00	3.95	1.14
November 8, 2021 19:00	3.80	1.13
November 8, 2021 20:00	3.72	1.15
November 8, 2021 21:00	3.56	1.09
November 8, 2021 22:00	3.25	0.98
November 8, 2021 23:00	3.04	0.89
November 9, 2021 0:00	2.98	0.86
November 9, 2021 1:00	2.77	0.83
November 9, 2021 2:00	2.56	0.74
November 9, 2021 3:00	2.34	0.66
November 9, 2021 4:00	2.43	0.67
November 9, 2021 5:00	2.54	0.69
November 9, 2021 6:00	3.06	0.89
November 9, 2021 7:00	3.58	1.02
November 9, 2021 8:00	4.08	1.09
November 9, 2021 9:00	4.56	1.30
November 9, 2021 10:00	4.75	1.32
November 9, 2021 11:00	4.65	1.34
November 9, 2021 12:00	4.77	1.36
November 9, 2021 13:00	4.74	1.35
November 9, 2021 14:00	4.88	1.47
November 9, 2021 15:00	4.67	1.35
November 9, 2021 16:00	4.42	1.26
November 9, 2021 17:00	3.99	1.19
November 9, 2021 18:00	4.22	1.22
November 9, 2021 19:00	3.99	1.15
November 9, 2021 20:00	3.99	1.17
November 9, 2021 21:00	3.65	1.15
November 9, 2021 22:00	3.35	1.09
November 9, 2021 23:00	3.28	1.07
November 10, 2021 0:00	3.03	0.92
November 10, 2021 1:00	2.73	0.75
November 10, 2021 2:00	2.57	0.74
November 10, 2021 3:00	2.27	0.71
November 10, 2021 4:00	2.31	0.69
November 10, 2021 5:00	2.45	0.66
November 10, 2021 6:00	3.08	0.91
November 10, 2021 7:00	3.59	1.06
November 10, 2021 8:00	3.89	1.07
November 10, 2021 9:00	4.20	1.17
November 10, 2021 10:00	4.40	1.24
November 10, 2021 11:00	4.51	1.28
November 10, 2021 12:00	4.61	1.42
November 10, 2021 13:00	4.52	1.33
November 10, 2021 14:00	4.56	1.41
November 10, 2021 15:00	4.45	1.39
November 10, 2021 16:00	4.16	1.28
November 10, 2021 17:00	4.05	1.31
November 10, 2021 18:00	4.15	1.23
November 10, 2021 19:00	3.86	1.07
November 10, 2021 20:00	3.80	1.05
November 10, 2021 21:00	3.63	1.03
November 10, 2021 22:00	3.21	0.92
November 10, 2021 23:00	3.01	0.88
November 11, 2021 0:00	2.90	0.79
November 11, 2021 1:00	2.78	0.74



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November 11, 2021 2:00	2.63	0.74
November 11, 2021 3:00	2.38	0.65
November 11, 2021 4:00	2.39	0.64
November 11, 2021 5:00	2.40	0.68
November 11, 2021 6:00	2.51	0.72
November 11, 2021 7:00	2.88	0.75
November 11, 2021 8:00	3.13	0.78
November 11, 2021 9:00	3.12	0.82
November 11, 2021 10:00	3.16	0.81
November 11, 2021 11:00	3.24	0.82
November 11, 2021 12:00	3.26	0.83
November 11, 2021 13:00	3.15	0.83
November 11, 2021 14:00	3.18	0.82
November 11, 2021 15:00	3.17	0.81
November 11, 2021 16:00	3.00	0.79
November 11, 2021 17:00	2.83	0.79
November 11, 2021 18:00	3.19	0.86
November 11, 2021 19:00	3.07	0.86
November 11, 2021 20:00	3.00	0.83
November 11, 2021 21:00	2.71	0.76
November 11, 2021 22:00	2.52	0.72
November 11, 2021 23:00	2.52	0.68
November 12, 2021 0:00	2.43	0.64
November 12, 2021 1:00	2.33	0.63
November 12, 2021 2:00	2.27	0.64
November 12, 2021 3:00	2.29	0.66
November 12, 2021 4:00	2.27	0.68
November 12, 2021 5:00	2.43	0.69
November 12, 2021 6:00	2.93	0.82
November 12, 2021 7:00	3.43	0.95
November 12, 2021 8:00	3.93	1.12
November 12, 2021 9:00	4.18	1.22
November 12, 2021 10:00	4.32	1.25
November 12, 2021 11:00	4.43	1.30
November 12, 2021 12:00	4.51	1.30
November 12, 2021 13:00	4.29	1.19
November 12, 2021 14:00	4.28	1.27
November 12, 2021 15:00	4.28	1.34
November 12, 2021 16:00	3.96	1.30
November 12, 2021 17:00	3.85	1.26
November 12, 2021 18:00	3.80	1.16
November 12, 2021 19:00	3.55	1.03
November 12, 2021 20:00	3.59	1.02
November 12, 2021 21:00	3.32	0.99
November 12, 2021 22:00	3.09	0.95
November 12, 2021 23:00	2.88	0.92
November 13, 2021 0:00	2.76	0.87
November 13, 2021 1:00	2.49	0.64
November 13, 2021 2:00	2.32	0.58
November 13, 2021 3:00	2.16	0.58
November 13, 2021 4:00	2.23	0.59
November 13, 2021 5:00	2.24	0.61
November 13, 2021 6:00	2.55	0.72
November 13, 2021 7:00	3.06	0.91
November 13, 2021 8:00	3.13	0.94
November 13, 2021 9:00	3.16	0.99
November 13, 2021 10:00	3.34	1.00
November 13, 2021 11:00	3.49	1.04
November 13, 2021 12:00	3.52	1.01
November 13, 2021 13:00	3.21	0.83
November 13, 2021 14:00	3.00	0.79
November 13, 2021 15:00	2.98	0.78
November 13, 2021 16:00	2.94	0.77
November 13, 2021 17:00	2.91	0.74
November 13, 2021 18:00	3.14	0.73



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November 13, 2021 19:00	3.06	0.75
November 13, 2021 20:00	2.94	0.77
November 13, 2021 21:00	2.76	0.79
November 13, 2021 22:00	2.62	0.77
November 13, 2021 23:00	2.58	0.72
November 14, 2021 0:00	2.43	0.67
November 14, 2021 1:00	2.22	0.62
November 14, 2021 2:00	2.17	0.61
November 14, 2021 3:00	2.16	0.61
November 14, 2021 4:00	2.19	0.61
November 14, 2021 5:00	2.26	0.63
November 14, 2021 6:00	2.31	0.66
November 14, 2021 7:00	2.41	0.68
November 14, 2021 8:00	2.57	0.70
November 14, 2021 9:00	2.55	0.71
November 14, 2021 10:00	2.60	0.72
November 14, 2021 11:00	2.72	0.73
November 14, 2021 12:00	2.75	0.77
November 14, 2021 13:00	2.67	0.76
November 14, 2021 14:00	2.68	0.75
November 14, 2021 15:00	2.58	0.75
November 14, 2021 16:00	2.51	0.72
November 14, 2021 17:00	2.57	0.72
November 14, 2021 18:00	2.80	0.72
November 14, 2021 19:00	2.70	0.71
November 14, 2021 20:00	2.55	0.70
November 14, 2021 21:00	2.49	0.68
November 14, 2021 22:00	2.45	0.66
November 14, 2021 23:00	2.34	0.63
November 15, 2021 0:00	2.26	0.60
November 15, 2021 1:00	2.15	0.60
November 15, 2021 2:00	2.12	0.61
November 15, 2021 3:00	2.19	0.62
November 15, 2021 4:00	2.27	0.63
November 15, 2021 5:00	2.47	0.64
November 15, 2021 6:00	3.08	0.87
November 15, 2021 7:00	3.58	0.99
November 15, 2021 8:00	4.08	1.09
November 15, 2021 9:00	4.60	1.30
November 15, 2021 10:00	4.49	1.26
November 15, 2021 11:00	4.65	1.30
November 15, 2021 12:00	4.72	1.36
November 15, 2021 13:00	4.64	1.34
November 15, 2021 14:00	4.72	1.42
November 15, 2021 15:00	4.75	1.44
November 15, 2021 16:00	4.30	1.22
November 15, 2021 17:00	4.06	1.15
November 15, 2021 18:00	3.90	1.05
November 15, 2021 19:00	3.73	1.01
November 15, 2021 20:00	3.61	0.94
November 15, 2021 21:00	3.36	0.87
November 15, 2021 22:00	3.06	0.84
November 15, 2021 23:00	2.92	0.81
November 16, 2021 0:00	2.88	0.78
November 16, 2021 1:00	2.84	0.75
November 16, 2021 2:00	2.72	0.72
November 16, 2021 3:00	2.51	0.71
November 16, 2021 4:00	2.53	0.69
November 16, 2021 5:00	2.73	0.67
November 16, 2021 6:00	3.21	0.81
November 16, 2021 7:00	3.68	0.92
November 16, 2021 8:00	4.20	1.07
November 16, 2021 9:00	4.40	1.13
November 16, 2021 10:00	4.64	1.19
November 16, 2021 11:00	4.84	1.18



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November 16, 2021 12:00	4.68	1.17
November 16, 2021 13:00	4.65	1.15
November 16, 2021 14:00	4.91	1.33
November 16, 2021 15:00	4.73	1.24
November 16, 2021 16:00	4.48	1.21
November 16, 2021 17:00	4.32	1.24
November 16, 2021 18:00	4.26	1.20
November 16, 2021 19:00	3.97	1.07
November 16, 2021 20:00	3.84	1.06
November 16, 2021 21:00	3.62	1.02
November 16, 2021 22:00	3.35	1.00
November 16, 2021 23:00	3.44	1.08
November 17, 2021 0:00	3.31	1.00
November 17, 2021 1:00	2.95	0.83
November 17, 2021 2:00	2.75	0.77
November 17, 2021 3:00	2.62	0.77
November 17, 2021 4:00	2.65	0.76
November 17, 2021 5:00	2.74	0.76
November 17, 2021 6:00	3.41	0.94
November 17, 2021 7:00	3.83	1.05
November 17, 2021 8:00	4.25	1.15
November 17, 2021 9:00	4.39	1.24
November 17, 2021 10:00	4.80	1.36
November 17, 2021 11:00	4.90	1.40
November 17, 2021 12:00	4.92	1.42
November 17, 2021 13:00	4.71	1.31
November 17, 2021 14:00	4.53	1.23
November 17, 2021 15:00	4.40	1.19
November 17, 2021 16:00	4.26	1.23
November 17, 2021 17:00	4.25	1.30
November 17, 2021 18:00	4.39	1.27
November 17, 2021 19:00	3.93	1.01
November 17, 2021 20:00	3.92	1.09
November 17, 2021 21:00	3.79	1.07
November 17, 2021 22:00	3.50	1.04
November 17, 2021 23:00	3.39	1.06
November 18, 2021 0:00	3.22	0.90
November 18, 2021 1:00	3.04	0.85
November 18, 2021 2:00	2.79	0.77
November 18, 2021 3:00	2.59	0.71
November 18, 2021 4:00	2.61	0.71
November 18, 2021 5:00	2.79	0.70
November 18, 2021 6:00	3.20	0.87
November 18, 2021 7:00	3.67	1.03
November 18, 2021 8:00	4.18	1.10
November 18, 2021 9:00	4.27	1.15
November 18, 2021 10:00	4.31	1.18
November 18, 2021 11:00	4.58	1.32
November 18, 2021 12:00	4.70	1.34
November 18, 2021 13:00	4.71	1.35
November 18, 2021 14:00	4.76	1.36
November 18, 2021 15:00	4.72	1.38
November 18, 2021 16:00	4.38	1.29
November 18, 2021 17:00	4.37	1.26
November 18, 2021 18:00	4.29	1.27
November 18, 2021 19:00	3.96	1.16
November 18, 2021 20:00	3.95	1.18
November 18, 2021 21:00	3.65	1.07
November 18, 2021 22:00	3.40	1.10
November 18, 2021 23:00	3.31	1.10
November 19, 2021 0:00	3.14	0.96
November 19, 2021 1:00	2.86	0.83
November 19, 2021 2:00	2.60	0.75
November 19, 2021 3:00	2.43	0.73
November 19, 2021 4:00	2.46	0.73



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November 19, 2021 5:00	2.54	0.73
November 19, 2021 6:00	2.96	0.77
November 19, 2021 7:00	3.45	0.86
November 19, 2021 8:00	4.01	0.99
November 19, 2021 9:00	4.01	0.97
November 19, 2021 10:00	4.12	0.99
November 19, 2021 11:00	4.43	1.16
November 19, 2021 12:00	4.38	1.15
November 19, 2021 13:00	4.24	1.09
November 19, 2021 14:00	4.23	1.15
November 19, 2021 15:00	4.19	1.15
November 19, 2021 16:00	3.95	1.13
November 19, 2021 17:00	3.93	1.19
November 19, 2021 18:00	3.91	1.18
November 19, 2021 19:00	3.86	1.06
November 19, 2021 20:00	3.72	1.00
November 19, 2021 21:00	3.48	0.93
November 19, 2021 22:00	3.09	0.85
November 19, 2021 23:00	2.98	0.88
November 20, 2021 0:00	2.88	0.84
November 20, 2021 1:00	2.73	0.76
November 20, 2021 2:00	2.43	0.69
November 20, 2021 3:00	2.35	0.62
November 20, 2021 4:00	2.33	0.62
November 20, 2021 5:00	2.51	0.65
November 20, 2021 6:00	2.73	0.65
November 20, 2021 7:00	3.07	0.79
November 20, 2021 8:00	3.32	0.90
November 20, 2021 9:00	3.33	0.92
November 20, 2021 10:00	3.49	0.94
November 20, 2021 11:00	3.52	0.99
November 20, 2021 12:00	3.51	0.93
November 20, 2021 13:00	3.41	0.88
November 20, 2021 14:00	3.28	0.85
November 20, 2021 15:00	3.22	0.81
November 20, 2021 16:00	3.04	0.78
November 20, 2021 17:00	3.10	0.78
November 20, 2021 18:00	3.33	0.79
November 20, 2021 19:00	3.19	0.76
November 20, 2021 20:00	3.08	0.75
November 20, 2021 21:00	2.97	0.74
November 20, 2021 22:00	2.86	0.77
November 20, 2021 23:00	2.74	0.78
November 21, 2021 0:00	2.53	0.68
November 21, 2021 1:00	2.34	0.63
November 21, 2021 2:00	2.36	0.65
November 21, 2021 3:00	2.39	0.66
November 21, 2021 4:00	2.37	0.67
November 21, 2021 5:00	2.44	0.68
November 21, 2021 6:00	2.43	0.69
November 21, 2021 7:00	2.60	0.69
November 21, 2021 8:00	2.70	0.71
November 21, 2021 9:00	2.62	0.72
November 21, 2021 10:00	2.75	0.76
November 21, 2021 11:00	2.88	0.74
November 21, 2021 12:00	2.96	0.73
November 21, 2021 13:00	2.92	0.75
November 21, 2021 14:00	2.88	0.76
November 21, 2021 15:00	2.84	0.76
November 21, 2021 16:00	2.69	0.75
November 21, 2021 17:00	2.73	0.74
November 21, 2021 18:00	2.96	0.72
November 21, 2021 19:00	2.77	0.70
November 21, 2021 20:00	2.61	0.68
November 21, 2021 21:00	2.50	0.66



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November 21, 2021 22:00	2.41	0.64
November 21, 2021 23:00	2.36	0.62
November 22, 2021 0:00	2.32	0.59
November 22, 2021 1:00	2.21	0.60
November 22, 2021 2:00	2.17	0.63
November 22, 2021 3:00	2.14	0.62
November 22, 2021 4:00	2.17	0.61
November 22, 2021 5:00	2.41	0.65
November 22, 2021 6:00	2.86	0.73
November 22, 2021 7:00	3.33	0.88
November 22, 2021 8:00	4.03	1.09
November 22, 2021 9:00	4.37	1.28
November 22, 2021 10:00	4.30	1.22
November 22, 2021 11:00	4.34	1.22
November 22, 2021 12:00	4.38	1.23
November 22, 2021 13:00	4.40	1.29
November 22, 2021 14:00	4.43	1.34
November 22, 2021 15:00	4.42	1.38
November 22, 2021 16:00	4.14	1.31
November 22, 2021 17:00	3.97	1.35
November 22, 2021 18:00	4.00	1.27
November 22, 2021 19:00	3.72	1.11
November 22, 2021 20:00	3.64	1.06
November 22, 2021 21:00	3.41	1.03
November 22, 2021 22:00	3.22	1.01
November 22, 2021 23:00	3.01	1.00
November 23, 2021 0:00	2.79	0.77
November 23, 2021 1:00	2.61	0.69
November 23, 2021 2:00	2.45	0.68
November 23, 2021 3:00	2.23	0.64
November 23, 2021 4:00	2.25	0.64
November 23, 2021 5:00	2.50	0.68
November 23, 2021 6:00	2.93	0.83
November 23, 2021 7:00	3.55	0.96
November 23, 2021 8:00	4.15	1.11
November 23, 2021 9:00	4.30	1.17
November 23, 2021 10:00	4.58	1.24
November 23, 2021 11:00	4.55	1.19
November 23, 2021 12:00	4.79	1.27
November 23, 2021 13:00	4.61	1.18
November 23, 2021 14:00	4.63	1.24
November 23, 2021 15:00	4.56	1.27
November 23, 2021 16:00	4.28	1.13
November 23, 2021 17:00	4.05	1.08
November 23, 2021 18:00	4.14	1.12
November 23, 2021 19:00	3.86	1.09
November 23, 2021 20:00	3.73	1.04
November 23, 2021 21:00	3.40	0.91
November 23, 2021 22:00	3.13	0.84
November 23, 2021 23:00	3.04	0.82
November 24, 2021 0:00	2.98	0.81
November 24, 2021 1:00	2.77	0.72
November 24, 2021 2:00	2.61	0.69
November 24, 2021 3:00	2.39	0.67
November 24, 2021 4:00	2.47	0.66
November 24, 2021 5:00	2.68	0.69
November 24, 2021 6:00	3.05	0.75
November 24, 2021 7:00	3.54	0.87
November 24, 2021 8:00	4.07	1.03
November 24, 2021 9:00	4.31	1.10
November 24, 2021 10:00	4.58	1.12
November 24, 2021 11:00	4.57	1.12
November 24, 2021 12:00	4.47	1.14
November 24, 2021 13:00	4.44	1.11
November 24, 2021 14:00	4.39	1.15



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November 24, 2021 15:00	4.30	1.11
November 24, 2021 16:00	4.20	1.04
November 24, 2021 17:00	4.18	1.09
November 24, 2021 18:00	4.18	1.08
November 24, 2021 19:00	3.94	1.02
November 24, 2021 20:00	3.82	0.99
November 24, 2021 21:00	3.52	0.94
November 24, 2021 22:00	3.29	0.88
November 24, 2021 23:00	3.13	0.82
November 25, 2021 0:00	3.05	0.80
November 25, 2021 1:00	2.84	0.74
November 25, 2021 2:00	2.69	0.71
November 25, 2021 3:00	2.40	0.68
November 25, 2021 4:00	2.40	0.65
November 25, 2021 5:00	2.65	0.70
November 25, 2021 6:00	2.91	0.73
November 25, 2021 7:00	3.37	0.89
November 25, 2021 8:00	3.98	1.00
November 25, 2021 9:00	4.28	1.10
November 25, 2021 10:00	4.21	1.05
November 25, 2021 11:00	4.31	1.08
November 25, 2021 12:00	4.35	1.16
November 25, 2021 13:00	4.50	1.30
November 25, 2021 14:00	4.45	1.34
November 25, 2021 15:00	4.33	1.27
November 25, 2021 16:00	4.30	1.33
November 25, 2021 17:00	4.29	1.29
November 25, 2021 18:00	4.07	1.18
November 25, 2021 19:00	4.06	1.17
November 25, 2021 20:00	3.90	1.20
November 25, 2021 21:00	3.60	1.11
November 25, 2021 22:00	3.35	1.05
November 25, 2021 23:00	3.04	0.93
November 26, 2021 0:00	2.90	0.86
November 26, 2021 1:00	2.76	0.80
November 26, 2021 2:00	2.55	0.70
November 26, 2021 3:00	2.29	0.68
November 26, 2021 4:00	2.31	0.69
November 26, 2021 5:00	2.52	0.70
November 26, 2021 6:00	2.80	0.73
November 26, 2021 7:00	3.31	0.80
November 26, 2021 8:00	3.96	1.01
November 26, 2021 9:00	4.19	1.18
November 26, 2021 10:00	4.39	1.23
November 26, 2021 11:00	4.30	1.24
November 26, 2021 12:00	4.25	1.20
November 26, 2021 13:00	4.26	1.23
November 26, 2021 14:00	4.36	1.32
November 26, 2021 15:00	4.25	1.26
November 26, 2021 16:00	4.07	1.25
November 26, 2021 17:00	3.96	1.20
November 26, 2021 18:00	3.83	1.11
November 26, 2021 19:00	3.75	1.10
November 26, 2021 20:00	3.71	1.06
November 26, 2021 21:00	3.54	0.99
November 26, 2021 22:00	3.12	0.89
November 26, 2021 23:00	3.01	0.90
November 27, 2021 0:00	2.77	0.75
November 27, 2021 1:00	2.60	0.65
November 27, 2021 2:00	2.46	0.63
November 27, 2021 3:00	2.32	0.64
November 27, 2021 4:00	2.36	0.66
November 27, 2021 5:00	2.42	0.67
November 27, 2021 6:00	2.82	0.78
November 27, 2021 7:00	3.30	0.91



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November 27, 2021 8:00	3.51	1.03
November 27, 2021 9:00	3.54	0.96
November 27, 2021 10:00	3.42	0.88
November 27, 2021 11:00	3.55	0.91
November 27, 2021 12:00	3.45	0.83
November 27, 2021 13:00	3.28	0.77
November 27, 2021 14:00	3.15	0.77
November 27, 2021 15:00	3.15	0.78
November 27, 2021 16:00	3.06	0.78
November 27, 2021 17:00	3.07	0.77
November 27, 2021 18:00	3.33	0.77
November 27, 2021 19:00	3.29	0.76
November 27, 2021 20:00	3.12	0.74
November 27, 2021 21:00	2.99	0.72
November 27, 2021 22:00	2.85	0.71
November 27, 2021 23:00	2.68	0.68
November 28, 2021 0:00	2.51	0.62
November 28, 2021 1:00	2.26	0.61
November 28, 2021 2:00	2.26	0.61
November 28, 2021 3:00	2.23	0.61
November 28, 2021 4:00	2.29	0.61
November 28, 2021 5:00	2.29	0.62
November 28, 2021 6:00	2.33	0.63
November 28, 2021 7:00	2.58	0.65
November 28, 2021 8:00	2.63	0.67
November 28, 2021 9:00	2.55	0.68
November 28, 2021 10:00	2.59	0.69
November 28, 2021 11:00	2.77	0.76
November 28, 2021 12:00	2.78	0.81
November 28, 2021 13:00	2.72	0.82
November 28, 2021 14:00	2.67	0.84
November 28, 2021 15:00	2.67	0.83
November 28, 2021 16:00	2.67	0.81
November 28, 2021 17:00	2.80	0.79
November 28, 2021 18:00	2.99	0.80
November 28, 2021 19:00	2.87	0.78
November 28, 2021 20:00	2.71	0.76
November 28, 2021 21:00	2.56	0.74
November 28, 2021 22:00	2.48	0.69
November 28, 2021 23:00	2.33	0.66
November 29, 2021 0:00	2.33	0.65
November 29, 2021 1:00	2.35	0.65
November 29, 2021 2:00	2.29	0.65
November 29, 2021 3:00	2.30	0.64
November 29, 2021 4:00	2.33	0.66
November 29, 2021 5:00	2.57	0.69
November 29, 2021 6:00	3.10	0.89
November 29, 2021 7:00	3.43	0.86
November 29, 2021 8:00	4.01	0.99
November 29, 2021 9:00	4.35	1.12
November 29, 2021 10:00	4.46	1.14
November 29, 2021 11:00	4.47	1.16
November 29, 2021 12:00	4.55	1.24
November 29, 2021 13:00	4.51	1.33
November 29, 2021 14:00	4.45	1.34
November 29, 2021 15:00	4.50	1.36
November 29, 2021 16:00	4.22	1.28
November 29, 2021 17:00	3.98	1.21
November 29, 2021 18:00	3.98	1.11
November 29, 2021 19:00	3.79	1.11
November 29, 2021 20:00	3.77	1.14
November 29, 2021 21:00	3.56	1.01
November 29, 2021 22:00	3.34	0.92
November 29, 2021 23:00	3.07	0.82
November 30, 2021 0:00	2.93	0.79



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November 30, 2021 1:00	2.77	0.75
November 30, 2021 2:00	2.56	0.72
November 30, 2021 3:00	2.36	0.70
November 30, 2021 4:00	2.34	0.67
November 30, 2021 5:00	2.56	0.65
November 30, 2021 6:00	3.13	0.88
November 30, 2021 7:00	3.58	1.00
November 30, 2021 8:00	4.08	1.10
November 30, 2021 9:00	4.41	1.21
November 30, 2021 10:00	4.42	1.24
November 30, 2021 11:00	4.33	1.16
November 30, 2021 12:00	4.40	1.25
November 30, 2021 13:00	4.48	1.21
November 30, 2021 14:00	4.37	1.24
November 30, 2021 15:00	4.17	1.18
November 30, 2021 16:00	4.11	1.19
November 30, 2021 17:00	4.16	1.22
November 30, 2021 18:00	4.00	1.14
November 30, 2021 19:00	3.91	1.09
November 30, 2021 20:00	3.86	1.10
November 30, 2021 21:00	3.49	0.93
November 30, 2021 22:00	3.27	0.90
November 30, 2021 23:00	3.05	0.85
December 1, 2021 0:00	2.92	0.82
December 1, 2021 1:00	2.87	0.79
December 1, 2021 2:00	2.73	0.74
December 1, 2021 3:00	2.36	0.67
December 1, 2021 4:00	2.39	0.67
December 1, 2021 5:00	2.54	0.67
December 1, 2021 6:00	2.84	0.72
December 1, 2021 7:00	3.27	0.83
December 1, 2021 8:00	3.83	0.90
December 1, 2021 9:00	4.06	1.05
December 1, 2021 10:00	4.10	1.01
December 1, 2021 11:00	4.33	1.08
December 1, 2021 12:00	4.48	1.19
December 1, 2021 13:00	4.59	1.26
December 1, 2021 14:00	4.72	1.43
December 1, 2021 15:00	4.80	1.45
December 1, 2021 16:00	4.46	1.27
December 1, 2021 17:00	4.52	1.30
December 1, 2021 18:00	4.37	1.26
December 1, 2021 19:00	4.11	1.18
December 1, 2021 20:00	3.87	1.13
December 1, 2021 21:00	3.66	1.06
December 1, 2021 22:00	3.51	1.09
December 1, 2021 23:00	3.33	1.05
December 2, 2021 0:00	3.07	0.90
December 2, 2021 1:00	2.99	0.85
December 2, 2021 2:00	2.77	0.77
December 2, 2021 3:00	2.54	0.70
December 2, 2021 4:00	2.51	0.69
December 2, 2021 5:00	2.72	0.69
December 2, 2021 6:00	3.13	0.77
December 2, 2021 7:00	3.72	0.99
December 2, 2021 8:00	4.13	1.10
December 2, 2021 9:00	4.44	1.22
December 2, 2021 10:00	4.51	1.24
December 2, 2021 11:00	4.58	1.26
December 2, 2021 12:00	4.66	1.29
December 2, 2021 13:00	4.53	1.20
December 2, 2021 14:00	4.78	1.33
December 2, 2021 15:00	4.84	1.36
December 2, 2021 16:00	4.35	1.21
December 2, 2021 17:00	4.45	1.26



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December 2, 2021 18:00	4.31	1.24
December 2, 2021 19:00	3.97	1.11
December 2, 2021 20:00	3.99	1.13
December 2, 2021 21:00	3.84	1.13
December 2, 2021 22:00	3.54	1.06
December 2, 2021 23:00	3.40	1.02
December 3, 2021 0:00	3.12	0.83
December 3, 2021 1:00	3.00	0.75
December 3, 2021 2:00	2.78	0.69
December 3, 2021 3:00	2.51	0.61
December 3, 2021 4:00	2.49	0.63
December 3, 2021 5:00	2.64	0.65
December 3, 2021 6:00	2.93	0.68
December 3, 2021 7:00	3.65	0.93
December 3, 2021 8:00	4.26	1.08
December 3, 2021 9:00	4.56	1.29
December 3, 2021 10:00	4.61	1.25
December 3, 2021 11:00	4.55	1.28
December 3, 2021 12:00	4.47	1.27
December 3, 2021 13:00	4.33	1.20
December 3, 2021 14:00	4.40	1.22
December 3, 2021 15:00	4.35	1.18
December 3, 2021 16:00	4.22	1.12
December 3, 2021 17:00	4.11	1.20
December 3, 2021 18:00	4.00	1.13
December 3, 2021 19:00	3.84	1.03
December 3, 2021 20:00	3.78	1.06
December 3, 2021 21:00	3.58	1.07
December 3, 2021 22:00	3.36	0.97
December 3, 2021 23:00	3.18	0.94
December 4, 2021 0:00	3.17	1.00
December 4, 2021 1:00	2.97	0.90
December 4, 2021 2:00	2.64	0.66
December 4, 2021 3:00	2.48	0.62
December 4, 2021 4:00	2.53	0.64
December 4, 2021 5:00	2.58	0.68
December 4, 2021 6:00	2.90	0.81
December 4, 2021 7:00	3.40	1.01
December 4, 2021 8:00	3.53	0.99
December 4, 2021 9:00	3.58	0.95
December 4, 2021 10:00	3.60	0.94
December 4, 2021 11:00	3.91	1.05
December 4, 2021 12:00	3.88	1.07
December 4, 2021 13:00	3.83	1.06
December 4, 2021 14:00	3.62	0.91
December 4, 2021 15:00	3.53	0.93
December 4, 2021 16:00	3.50	0.96
December 4, 2021 17:00	3.57	0.96
December 4, 2021 18:00	3.64	0.90
December 4, 2021 19:00	3.46	0.89
December 4, 2021 20:00	3.30	0.87
December 4, 2021 21:00	3.17	0.82
December 4, 2021 22:00	3.01	0.75
December 4, 2021 23:00	2.90	0.73
December 5, 2021 0:00	2.80	0.71
December 5, 2021 1:00	2.78	0.68
December 5, 2021 2:00	2.60	0.66
December 5, 2021 3:00	2.53	0.66
December 5, 2021 4:00	2.52	0.66
December 5, 2021 5:00	2.62	0.68
December 5, 2021 6:00	2.77	0.73
December 5, 2021 7:00	2.98	0.78
December 5, 2021 8:00	3.16	0.84
December 5, 2021 9:00	3.21	0.86
December 5, 2021 10:00	3.26	0.87



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December 5, 2021 11:00	3.27	0.88
December 5, 2021 12:00	3.32	0.88
December 5, 2021 13:00	3.27	0.86
December 5, 2021 14:00	3.22	0.83
December 5, 2021 15:00	3.13	0.80
December 5, 2021 16:00	3.07	0.80
December 5, 2021 17:00	3.24	0.81
December 5, 2021 18:00	3.55	0.80
December 5, 2021 19:00	3.39	0.76
December 5, 2021 20:00	3.20	0.74
December 5, 2021 21:00	3.11	0.72
December 5, 2021 22:00	2.89	0.70
December 5, 2021 23:00	2.70	0.69
December 6, 2021 0:00	2.64	0.68
December 6, 2021 1:00	2.64	0.67
December 6, 2021 2:00	2.61	0.67
December 6, 2021 3:00	2.57	0.68
December 6, 2021 4:00	2.66	0.69
December 6, 2021 5:00	2.84	0.70
December 6, 2021 6:00	3.49	0.88
December 6, 2021 7:00	4.12	1.12
December 6, 2021 8:00	4.67	1.28
December 6, 2021 9:00	5.09	1.39
December 6, 2021 10:00	5.05	1.36
December 6, 2021 11:00	5.08	1.40
December 6, 2021 12:00	5.09	1.41
December 6, 2021 13:00	4.91	1.33
December 6, 2021 14:00	4.85	1.40
December 6, 2021 15:00	4.86	1.41
December 6, 2021 16:00	4.43	1.24
December 6, 2021 17:00	4.44	1.22
December 6, 2021 18:00	4.47	1.21
December 6, 2021 19:00	4.16	1.10
December 6, 2021 20:00	4.02	1.11
December 6, 2021 21:00	3.89	1.06
December 6, 2021 22:00	3.73	1.05
December 6, 2021 23:00	3.50	0.99
December 7, 2021 0:00	3.27	0.85
December 7, 2021 1:00	3.18	0.80
December 7, 2021 2:00	3.04	0.77
December 7, 2021 3:00	2.87	0.77
December 7, 2021 4:00	2.89	0.76
December 7, 2021 5:00	2.95	0.73
December 7, 2021 6:00	3.52	0.90
December 7, 2021 7:00	4.01	1.06
December 7, 2021 8:00	4.43	1.16
December 7, 2021 9:00	4.79	1.30
December 7, 2021 10:00	4.73	1.27
December 7, 2021 11:00	4.88	1.35
December 7, 2021 12:00	4.84	1.35
December 7, 2021 13:00	4.92	1.33
December 7, 2021 14:00	5.15	1.54
December 7, 2021 15:00	4.93	1.44
December 7, 2021 16:00	4.61	1.32
December 7, 2021 17:00	4.50	1.25
December 7, 2021 18:00	4.51	1.23
December 7, 2021 19:00	4.24	1.20
December 7, 2021 20:00	4.17	1.14
December 7, 2021 21:00	3.89	1.09
December 7, 2021 22:00	3.55	1.02
December 7, 2021 23:00	3.53	1.07
December 8, 2021 0:00	3.29	1.00
December 8, 2021 1:00	2.95	0.78
December 8, 2021 2:00	2.78	0.72
December 8, 2021 3:00	2.49	0.71



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December 8, 2021 4:00	2.58	0.70
December 8, 2021 5:00	2.75	0.69
December 8, 2021 6:00	3.17	0.85
December 8, 2021 7:00	3.84	1.04
December 8, 2021 8:00	4.40	1.17
December 8, 2021 9:00	4.80	1.30
December 8, 2021 10:00	4.72	1.27
December 8, 2021 11:00	4.84	1.47
December 8, 2021 12:00	4.60	1.44
December 8, 2021 13:00	4.54	1.37
December 8, 2021 14:00	4.62	1.30
December 8, 2021 15:00	4.71	1.36
December 8, 2021 16:00	4.64	1.29
December 8, 2021 17:00	4.71	1.31
December 8, 2021 18:00	4.53	1.24
December 8, 2021 19:00	4.30	1.20
December 8, 2021 20:00	4.08	1.11
December 8, 2021 21:00	3.94	1.04
December 8, 2021 22:00	3.68	0.97
December 8, 2021 23:00	3.72	1.05
December 9, 2021 0:00	3.60	1.02
December 9, 2021 1:00	3.20	0.86
December 9, 2021 2:00	2.92	0.78
December 9, 2021 3:00	2.76	0.74
December 9, 2021 4:00	2.74	0.71
December 9, 2021 5:00	2.93	0.72
December 9, 2021 6:00	3.21	0.76
December 9, 2021 7:00	3.55	0.83
December 9, 2021 8:00	4.27	1.10
December 9, 2021 9:00	4.67	1.31
December 9, 2021 10:00	4.60	1.23
December 9, 2021 11:00	4.73	1.25
December 9, 2021 12:00	4.85	1.33
December 9, 2021 13:00	4.67	1.18
December 9, 2021 14:00	4.73	1.30
December 9, 2021 15:00	4.58	1.19
December 9, 2021 16:00	4.48	1.11
December 9, 2021 17:00	4.30	1.08
December 9, 2021 18:00	4.34	1.12
December 9, 2021 19:00	4.26	1.10
December 9, 2021 20:00	4.23	1.14
December 9, 2021 21:00	4.05	1.03
December 9, 2021 22:00	3.71	0.98
December 9, 2021 23:00	3.46	0.94
December 10, 2021 0:00	3.39	0.87
December 10, 2021 1:00	3.31	0.90
December 10, 2021 2:00	2.93	0.70
December 10, 2021 3:00	2.67	0.68
December 10, 2021 4:00	2.72	0.67
December 10, 2021 5:00	2.84	0.66
December 10, 2021 6:00	3.32	0.84
December 10, 2021 7:00	3.73	0.97
December 10, 2021 8:00	4.36	1.14
December 10, 2021 9:00	4.70	1.30
December 10, 2021 10:00	4.73	1.31
December 10, 2021 11:00	4.41	1.15
December 10, 2021 12:00	4.43	1.12
December 10, 2021 13:00	4.47	1.10
December 10, 2021 14:00	4.62	1.23
December 10, 2021 15:00	4.42	1.20
December 10, 2021 16:00	4.30	1.16
December 10, 2021 17:00	4.25	1.06
December 10, 2021 18:00	4.28	1.00
December 10, 2021 19:00	3.98	0.96
December 10, 2021 20:00	3.94	0.96



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December 10, 2021 21:00	3.76	0.87
December 10, 2021 22:00	3.39	0.80
December 10, 2021 23:00	3.28	0.82
December 11, 2021 0:00	3.14	0.84
December 11, 2021 1:00	2.96	0.82
December 11, 2021 2:00	2.82	0.74
December 11, 2021 3:00	2.61	0.68
December 11, 2021 4:00	2.64	0.68
December 11, 2021 5:00	2.64	0.69
December 11, 2021 6:00	2.85	0.70
December 11, 2021 7:00	3.08	0.73
December 11, 2021 8:00	3.42	0.92
December 11, 2021 9:00	3.77	1.00
December 11, 2021 10:00	3.69	1.02
December 11, 2021 11:00	3.82	1.08
December 11, 2021 12:00	3.71	1.08
December 11, 2021 13:00	3.53	0.85
December 11, 2021 14:00	3.39	0.82
December 11, 2021 15:00	3.27	0.74
December 11, 2021 16:00	3.26	0.79
December 11, 2021 17:00	3.38	0.85
December 11, 2021 18:00	3.57	0.84
December 11, 2021 19:00	3.48	0.82
December 11, 2021 20:00	3.27	0.80
December 11, 2021 21:00	3.16	0.78
December 11, 2021 22:00	3.04	0.76
December 11, 2021 23:00	2.92	0.73
December 12, 2021 0:00	2.80	0.71
December 12, 2021 1:00	2.82	0.69
December 12, 2021 2:00	2.73	0.67
December 12, 2021 3:00	2.52	0.66
December 12, 2021 4:00	2.48	0.65
December 12, 2021 5:00	2.65	0.64
December 12, 2021 6:00	2.95	0.69
December 12, 2021 7:00	3.28	0.84
December 12, 2021 8:00	3.28	0.85
December 12, 2021 9:00	3.22	0.87
December 12, 2021 10:00	3.06	0.81
December 12, 2021 11:00	3.13	0.80
December 12, 2021 12:00	3.11	0.75
December 12, 2021 13:00	3.11	0.74
December 12, 2021 14:00	3.12	0.73
December 12, 2021 15:00	3.08	0.72
December 12, 2021 16:00	3.07	0.72
December 12, 2021 17:00	3.16	0.71
December 12, 2021 18:00	3.37	0.70
December 12, 2021 19:00	3.24	0.69
December 12, 2021 20:00	3.17	0.69
December 12, 2021 21:00	3.00	0.68
December 12, 2021 22:00	2.88	0.67
December 12, 2021 23:00	2.63	0.66
December 13, 2021 0:00	2.53	0.65
December 13, 2021 1:00	2.59	0.64
December 13, 2021 2:00	2.53	0.63
December 13, 2021 3:00	2.61	0.66
December 13, 2021 4:00	2.66	0.69
December 13, 2021 5:00	2.87	0.73
December 13, 2021 6:00	3.21	0.77
December 13, 2021 7:00	3.68	0.83
December 13, 2021 8:00	4.32	1.04
December 13, 2021 9:00	4.60	1.19
December 13, 2021 10:00	4.55	1.13
December 13, 2021 11:00	5.02	1.39
December 13, 2021 12:00	5.11	1.43
December 13, 2021 13:00	4.94	1.31



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December 13, 2021 14:00	4.82	1.48
December 13, 2021 15:00	4.71	1.31
December 13, 2021 16:00	4.46	1.27
December 13, 2021 17:00	4.38	1.23
December 13, 2021 18:00	4.50	1.12
December 13, 2021 19:00	4.45	1.10
December 13, 2021 20:00	4.32	1.14
December 13, 2021 21:00	3.97	1.05
December 13, 2021 22:00	3.74	1.00
December 13, 2021 23:00	3.51	0.95
December 14, 2021 0:00	3.34	0.88
December 14, 2021 1:00	3.28	0.80
December 14, 2021 2:00	3.16	0.75
December 14, 2021 3:00	2.93	0.74
December 14, 2021 4:00	2.97	0.73
December 14, 2021 5:00	3.17	0.72
December 14, 2021 6:00	3.52	0.96
December 14, 2021 7:00	3.99	1.04
December 14, 2021 8:00	4.48	1.14
December 14, 2021 9:00	4.96	1.31
December 14, 2021 10:00	5.02	1.35
December 14, 2021 11:00	5.12	1.34
December 14, 2021 12:00	5.22	1.50
December 14, 2021 13:00	5.06	1.33
December 14, 2021 14:00	5.14	1.35
December 14, 2021 15:00	5.00	1.31
December 14, 2021 16:00	4.96	1.29
December 14, 2021 17:00	4.97	1.25
December 14, 2021 18:00	4.86	1.21
December 14, 2021 19:00	4.78	1.23
December 14, 2021 20:00	4.59	1.20
December 14, 2021 21:00	4.27	1.14
December 14, 2021 22:00	3.88	1.03
December 14, 2021 23:00	3.82	1.04
December 15, 2021 0:00	3.69	0.99
December 15, 2021 1:00	3.42	0.91
December 15, 2021 2:00	3.16	0.80
December 15, 2021 3:00	2.91	0.72
December 15, 2021 4:00	2.97	0.74
December 15, 2021 5:00	3.18	0.77
December 15, 2021 6:00	3.68	0.85
December 15, 2021 7:00	4.21	1.08
December 15, 2021 8:00	4.63	1.22
December 15, 2021 9:00	4.96	1.34
December 15, 2021 10:00	5.03	1.39
December 15, 2021 11:00	5.11	1.48
December 15, 2021 12:00	5.11	1.42
December 15, 2021 13:00	4.92	1.24
December 15, 2021 14:00	5.00	1.29
December 15, 2021 15:00	5.03	1.31
December 15, 2021 16:00	4.89	1.25
December 15, 2021 17:00	4.93	1.25
December 15, 2021 18:00	4.93	1.29
December 15, 2021 19:00	4.64	1.21
December 15, 2021 20:00	4.54	1.16
December 15, 2021 21:00	4.32	1.07
December 15, 2021 22:00	3.91	0.98
December 15, 2021 23:00	3.94	1.09
December 16, 2021 0:00	3.83	1.00
December 16, 2021 1:00	3.48	0.83
December 16, 2021 2:00	3.30	0.77
December 16, 2021 3:00	3.12	0.69
December 16, 2021 4:00	3.12	0.68
December 16, 2021 5:00	3.24	0.67
December 16, 2021 6:00	3.48	0.71



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December 16, 2021 7:00	4.00	0.86
December 16, 2021 8:00	4.67	1.20
December 16, 2021 9:00	5.18	1.41
December 16, 2021 10:00	5.06	1.33
December 16, 2021 11:00	5.11	1.38
December 16, 2021 12:00	5.29	1.42
December 16, 2021 13:00	5.12	1.30
December 16, 2021 14:00	5.16	1.27
December 16, 2021 15:00	5.09	1.30
December 16, 2021 16:00	4.94	1.25
December 16, 2021 17:00	4.99	1.23
December 16, 2021 18:00	5.10	1.27
December 16, 2021 19:00	5.00	1.29
December 16, 2021 20:00	4.89	1.22
December 16, 2021 21:00	4.73	1.33
December 16, 2021 22:00	4.16	1.13
December 16, 2021 23:00	4.09	1.15
December 17, 2021 0:00	3.92	1.14
December 17, 2021 1:00	3.85	1.00
December 17, 2021 2:00	3.37	0.79
December 17, 2021 3:00	3.08	0.71
December 17, 2021 4:00	3.11	0.74
December 17, 2021 5:00	3.24	0.76
December 17, 2021 6:00	3.65	0.78
December 17, 2021 7:00	4.13	0.97
December 17, 2021 8:00	4.80	1.21
December 17, 2021 9:00	5.06	1.31
December 17, 2021 10:00	5.04	1.26
December 17, 2021 11:00	5.19	1.23
December 17, 2021 12:00	5.18	1.27
December 17, 2021 13:00	5.06	1.19
December 17, 2021 14:00	5.02	1.23
December 17, 2021 15:00	4.92	1.17
December 17, 2021 16:00	4.75	1.13
December 17, 2021 17:00	4.72	1.12
December 17, 2021 18:00	4.86	1.22
December 17, 2021 19:00	4.62	1.19
December 17, 2021 20:00	4.56	1.16
December 17, 2021 21:00	4.40	1.17
December 17, 2021 22:00	3.84	0.94
December 17, 2021 23:00	3.64	0.84
December 18, 2021 0:00	3.48	0.84
December 18, 2021 1:00	3.32	0.80
December 18, 2021 2:00	3.19	0.75
December 18, 2021 3:00	2.97	0.70
December 18, 2021 4:00	2.96	0.70
December 18, 2021 5:00	3.02	0.73
December 18, 2021 6:00	3.37	0.77
December 18, 2021 7:00	3.77	0.92
December 18, 2021 8:00	4.00	1.05
December 18, 2021 9:00	4.09	1.05
December 18, 2021 10:00	4.08	0.99
December 18, 2021 11:00	4.31	1.11
December 18, 2021 12:00	4.23	1.11
December 18, 2021 13:00	4.04	1.09
December 18, 2021 14:00	3.71	0.94
December 18, 2021 15:00	3.49	0.81
December 18, 2021 16:00	3.41	0.79
December 18, 2021 17:00	3.59	0.79
December 18, 2021 18:00	3.68	0.79
December 18, 2021 19:00	3.57	0.78
December 18, 2021 20:00	3.45	0.78
December 18, 2021 21:00	3.34	0.77
December 18, 2021 22:00	3.23	0.76
December 18, 2021 23:00	3.15	0.75



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December 19, 2021 0:00	3.05	0.74
December 19, 2021 1:00	2.96	0.73
December 19, 2021 2:00	2.87	0.72
December 19, 2021 3:00	2.77	0.72
December 19, 2021 4:00	2.69	0.71
December 19, 2021 5:00	2.85	0.70
December 19, 2021 6:00	2.97	0.70
December 19, 2021 7:00	3.20	0.80
December 19, 2021 8:00	3.31	0.84
December 19, 2021 9:00	3.38	0.84
December 19, 2021 10:00	3.48	0.81
December 19, 2021 11:00	3.53	0.82
December 19, 2021 12:00	3.54	0.82
December 19, 2021 13:00	3.60	0.83
December 19, 2021 14:00	3.56	0.84
December 19, 2021 15:00	3.65	0.85
December 19, 2021 16:00	3.67	0.86
December 19, 2021 17:00	3.64	0.83
December 19, 2021 18:00	3.81	0.81
December 19, 2021 19:00	3.65	0.80
December 19, 2021 20:00	3.51	0.79
December 19, 2021 21:00	3.33	0.78
December 19, 2021 22:00	3.27	0.77
December 19, 2021 23:00	3.06	0.76
December 20, 2021 0:00	2.96	0.75
December 20, 2021 1:00	2.89	0.74
December 20, 2021 2:00	2.92	0.73
December 20, 2021 3:00	2.87	0.73
December 20, 2021 4:00	2.96	0.73
December 20, 2021 5:00	3.16	0.73
December 20, 2021 6:00	3.49	0.80
December 20, 2021 7:00	4.26	1.11
December 20, 2021 8:00	4.69	1.25
December 20, 2021 9:00	4.94	1.24
December 20, 2021 10:00	4.95	1.26
December 20, 2021 11:00	5.06	1.35
December 20, 2021 12:00	5.04	1.35
December 20, 2021 13:00	4.95	1.29
December 20, 2021 14:00	5.10	1.40
December 20, 2021 15:00	5.10	1.40
December 20, 2021 16:00	4.90	1.29
December 20, 2021 17:00	4.93	1.27
December 20, 2021 18:00	4.99	1.32
December 20, 2021 19:00	4.72	1.24
December 20, 2021 20:00	4.43	1.13
December 20, 2021 21:00	4.22	1.11
December 20, 2021 22:00	4.09	1.09
December 20, 2021 23:00	3.87	1.08
December 21, 2021 0:00	3.84	1.10
December 21, 2021 1:00	3.56	0.94
December 21, 2021 2:00	3.17	0.74
December 21, 2021 3:00	2.94	0.70
December 21, 2021 4:00	2.95	0.69
December 21, 2021 5:00	3.05	0.69
December 21, 2021 6:00	3.46	0.79
December 21, 2021 7:00	3.97	0.91
December 21, 2021 8:00	4.43	1.06
December 21, 2021 9:00	4.78	1.08
December 21, 2021 10:00	4.85	1.16
December 21, 2021 11:00	4.98	1.29
December 21, 2021 12:00	5.07	1.37
December 21, 2021 13:00	5.00	1.28
December 21, 2021 14:00	5.09	1.40
December 21, 2021 15:00	4.89	1.28
December 21, 2021 16:00	4.80	1.29



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December 21, 2021 17:00	4.71	1.26
December 21, 2021 18:00	4.75	1.26
December 21, 2021 19:00	4.67	1.24
December 21, 2021 20:00	4.48	1.24
December 21, 2021 21:00	4.32	1.16
December 21, 2021 22:00	3.97	1.15
December 21, 2021 23:00	3.58	0.94
December 22, 2021 0:00	3.38	0.86
December 22, 2021 1:00	3.23	0.84
December 22, 2021 2:00	2.99	0.76
December 22, 2021 3:00	2.78	0.67
December 22, 2021 4:00	2.87	0.68
December 22, 2021 5:00	3.09	0.69
December 22, 2021 6:00	3.38	0.71
December 22, 2021 7:00	3.82	0.82
December 22, 2021 8:00	4.33	1.00
December 22, 2021 9:00	4.63	1.09
December 22, 2021 10:00	4.61	1.10
December 22, 2021 11:00	4.81	1.17
December 22, 2021 12:00	4.85	1.20
December 22, 2021 13:00	4.70	1.09
December 22, 2021 14:00	4.87	1.28
December 22, 2021 15:00	4.75	1.28
December 22, 2021 16:00	4.69	1.23
December 22, 2021 17:00	4.67	1.25
December 22, 2021 18:00	4.54	1.21
December 22, 2021 19:00	4.53	1.23
December 22, 2021 20:00	4.33	1.14
December 22, 2021 21:00	4.10	1.05
December 22, 2021 22:00	3.88	1.04
December 22, 2021 23:00	3.66	1.03
December 23, 2021 0:00	3.50	1.02
December 23, 2021 1:00	3.48	1.00
December 23, 2021 2:00	3.21	0.95
December 23, 2021 3:00	2.89	0.76
December 23, 2021 4:00	2.88	0.63
December 23, 2021 5:00	3.00	0.63
December 23, 2021 6:00	3.42	0.77
December 23, 2021 7:00	3.92	0.98
December 23, 2021 8:00	4.33	1.10
December 23, 2021 9:00	4.76	1.26
December 23, 2021 10:00	4.82	1.25
December 23, 2021 11:00	4.75	1.19
December 23, 2021 12:00	4.76	1.03
December 23, 2021 13:00	4.75	0.95
December 23, 2021 14:00	4.79	1.00
December 23, 2021 15:00	4.65	1.04
December 23, 2021 16:00	4.51	1.07
December 23, 2021 17:00	4.41	1.01
December 23, 2021 18:00	4.54	1.20
December 23, 2021 19:00	4.45	1.22
December 23, 2021 20:00	4.28	1.17
December 23, 2021 21:00	4.11	1.12
December 23, 2021 22:00	3.84	1.07
December 23, 2021 23:00	3.66	1.03
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December 24, 2021 2:00	3.19	0.83
December 24, 2021 3:00	2.90	0.77
December 24, 2021 4:00	2.89	0.70
December 24, 2021 5:00	3.09	0.68
December 24, 2021 6:00	3.30	0.72
December 24, 2021 7:00	3.58	0.77
December 24, 2021 8:00	3.91	0.82
December 24, 2021 9:00	3.95	0.86



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December 24, 2021 10:00	3.87	0.88
December 24, 2021 11:00	4.06	0.91
December 24, 2021 12:00	3.94	0.91
December 24, 2021 13:00	3.71	0.86
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December 24, 2021 15:00	3.33	0.74
December 24, 2021 16:00	3.35	0.70
December 24, 2021 17:00	3.44	0.69
December 24, 2021 18:00	3.54	0.69
December 24, 2021 19:00	3.39	0.68
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December 24, 2021 21:00	3.07	0.67
December 24, 2021 22:00	2.97	0.66
December 24, 2021 23:00	2.95	0.66
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December 25, 2021 2:00	2.87	0.65
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December 25, 2021 16:00	2.68	0.62
December 25, 2021 17:00	2.81	0.63
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December 25, 2021 19:00	3.04	0.66
December 25, 2021 20:00	3.04	0.67
December 25, 2021 21:00	3.03	0.67
December 25, 2021 22:00	3.03	0.66
December 25, 2021 23:00	3.03	0.66
December 26, 2021 0:00	3.03	0.66
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December 26, 2021 8:00	3.29	0.69
December 26, 2021 9:00	3.38	0.70
December 26, 2021 10:00	3.38	0.71
December 26, 2021 11:00	3.37	0.71
December 26, 2021 12:00	3.36	0.71
December 26, 2021 13:00	3.35	0.72
December 26, 2021 14:00	3.36	0.72
December 26, 2021 15:00	3.44	0.72
December 26, 2021 16:00	3.39	0.72
December 26, 2021 17:00	3.55	0.73
December 26, 2021 18:00	3.70	0.72
December 26, 2021 19:00	3.65	0.71
December 26, 2021 20:00	3.51	0.70
December 26, 2021 21:00	3.33	0.69
December 26, 2021 22:00	3.17	0.69
December 26, 2021 23:00	3.06	0.68
December 27, 2021 0:00	2.99	0.67
December 27, 2021 1:00	3.06	0.68
December 27, 2021 2:00	3.01	0.68



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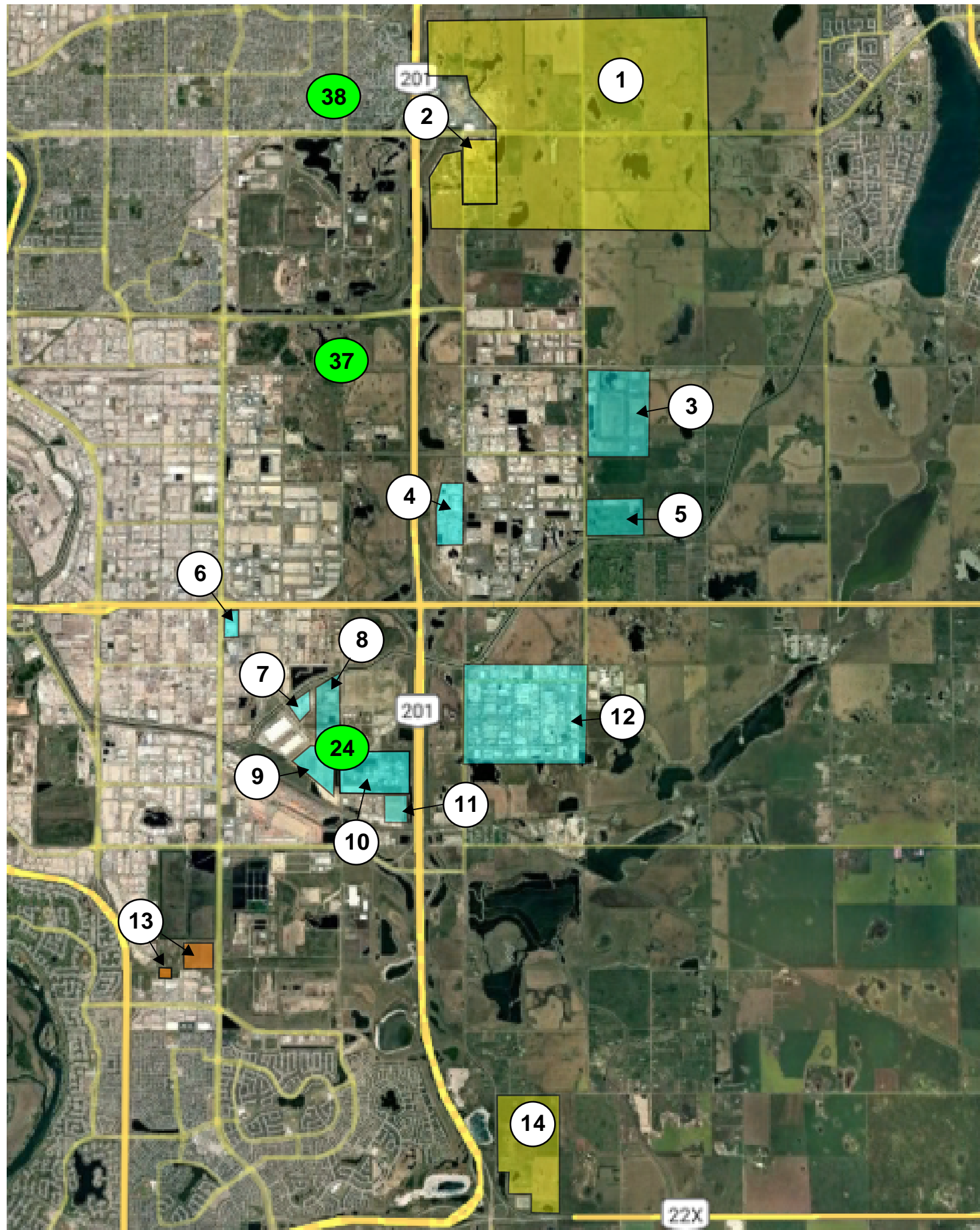
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December 27, 2021 7:00	3.47	0.73
December 27, 2021 8:00	3.75	0.84
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December 27, 2021 22:00	3.54	0.70
December 27, 2021 23:00	3.34	0.69
December 28, 2021 0:00	3.17	0.68
December 28, 2021 1:00	3.17	0.68
December 28, 2021 2:00	3.18	0.70
December 28, 2021 3:00	3.19	0.73
December 28, 2021 4:00	3.20	0.75
December 28, 2021 5:00	3.23	0.78
December 28, 2021 6:00	3.33	0.80
December 28, 2021 7:00	3.49	0.76
December 28, 2021 8:00	3.83	0.91
December 28, 2021 9:00	3.89	0.80
December 28, 2021 10:00	3.91	0.74
December 28, 2021 11:00	3.92	0.75
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December 28, 2021 13:00	3.91	0.76
December 28, 2021 14:00	3.85	0.76
December 28, 2021 15:00	3.78	0.77
December 28, 2021 16:00	3.73	0.77
December 28, 2021 17:00	3.82	0.78
December 28, 2021 18:00	3.93	0.76
December 28, 2021 19:00	3.91	0.74
December 28, 2021 20:00	3.83	0.71
December 28, 2021 21:00	3.58	0.69
December 28, 2021 22:00	3.30	0.67
December 28, 2021 23:00	3.15	0.65
December 29, 2021 0:00	3.05	0.63
December 29, 2021 1:00	2.95	0.62
December 29, 2021 2:00	2.90	0.64
December 29, 2021 3:00	2.98	0.66
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December 29, 2021 5:00	3.21	0.71
December 29, 2021 6:00	3.51	0.76
December 29, 2021 7:00	3.83	0.84
December 29, 2021 8:00	4.14	0.93
December 29, 2021 9:00	4.37	1.01
December 29, 2021 10:00	4.37	1.07
December 29, 2021 11:00	4.36	1.03
December 29, 2021 12:00	4.35	0.98
December 29, 2021 13:00	4.34	0.93
December 29, 2021 14:00	4.38	0.99
December 29, 2021 15:00	4.20	1.00
December 29, 2021 16:00	4.10	1.00
December 29, 2021 17:00	4.26	1.05
December 29, 2021 18:00	4.46	1.07
December 29, 2021 19:00	4.31	0.99



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December 29, 2021 20:00	4.23	1.03
December 29, 2021 21:00	3.90	0.91
December 29, 2021 22:00	3.75	0.95
December 29, 2021 23:00	3.59	0.94
December 30, 2021 0:00	3.59	0.97
December 30, 2021 1:00	3.40	0.92
December 30, 2021 2:00	3.17	0.85
December 30, 2021 3:00	2.90	0.65
December 30, 2021 4:00	2.91	0.63
December 30, 2021 5:00	3.04	0.64
December 30, 2021 6:00	3.25	0.65
December 30, 2021 7:00	3.57	0.77
December 30, 2021 8:00	4.01	0.92
December 30, 2021 9:00	4.12	0.96
December 30, 2021 10:00	4.01	0.87
December 30, 2021 11:00	4.03	0.86
December 30, 2021 12:00	4.16	0.91
December 30, 2021 13:00	4.28	1.00
December 30, 2021 14:00	4.13	0.99
December 30, 2021 15:00	4.19	1.07
December 30, 2021 16:00	3.97	0.93
December 30, 2021 17:00	4.10	0.95
December 30, 2021 18:00	4.35	0.98
December 30, 2021 19:00	4.21	0.99
December 30, 2021 20:00	4.10	0.97
December 30, 2021 21:00	3.95	0.95
December 30, 2021 22:00	3.57	0.84
December 30, 2021 23:00	3.50	0.86
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December 31, 2021 2:00	3.06	0.75
December 31, 2021 3:00	2.89	0.72
December 31, 2021 4:00	2.90	0.70
December 31, 2021 5:00	3.05	0.72
December 31, 2021 6:00	3.31	0.77
December 31, 2021 7:00	3.51	0.82
December 31, 2021 8:00	3.77	0.86
December 31, 2021 9:00	3.90	0.87
December 31, 2021 10:00	3.92	0.88
December 31, 2021 11:00	4.15	0.95
December 31, 2021 12:00	4.05	0.95
December 31, 2021 13:00	3.89	0.85
December 31, 2021 14:00	3.62	0.81
December 31, 2021 15:00	3.52	0.79
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December 31, 2021 17:00	3.35	0.75
December 31, 2021 18:00	3.52	0.74
December 31, 2021 19:00	3.37	0.72
December 31, 2021 20:00	3.21	0.71
December 31, 2021 21:00	3.13	0.70
December 31, 2021 22:00	3.05	0.69
December 31, 2021 23:00	3.02	0.68
January 1, 2022 0:00	2.99	0.67

Figure 1: Forecasted Area Growth 2022 - 2031



Development/ Project #	Development/Project	Expected Load MVA (2022 - 2031)
1	Belvedere Residential	2
2	East Hills Village (Residential)	1
3	EMCOR Industrial	1
4	Film Studio Lot	5
5	Heather Glen Industrial Business Park	3
6	Data Center - Upgrade	6
7	Food Processing Plant	1
8	Non-Sort Distribution Facility (1 of 2)	8
9	Non-Sort Distribution Facility (2 of 2)	5
10	Point Trotter Industrial	2
11	Canal Lands Buildings	1
12	East Shepard Business Park	2
13	Green Line Related Projects	3
14	Hotchkiss Residential	2
Total Area Load Growth (Non-Diversified)		42

Legend

- Existing Substation
- xx Development/Project #
- Industrial Development
- City of Calgary Project
- Commercial Development
- Residential Development

For System Planning Purposes Only

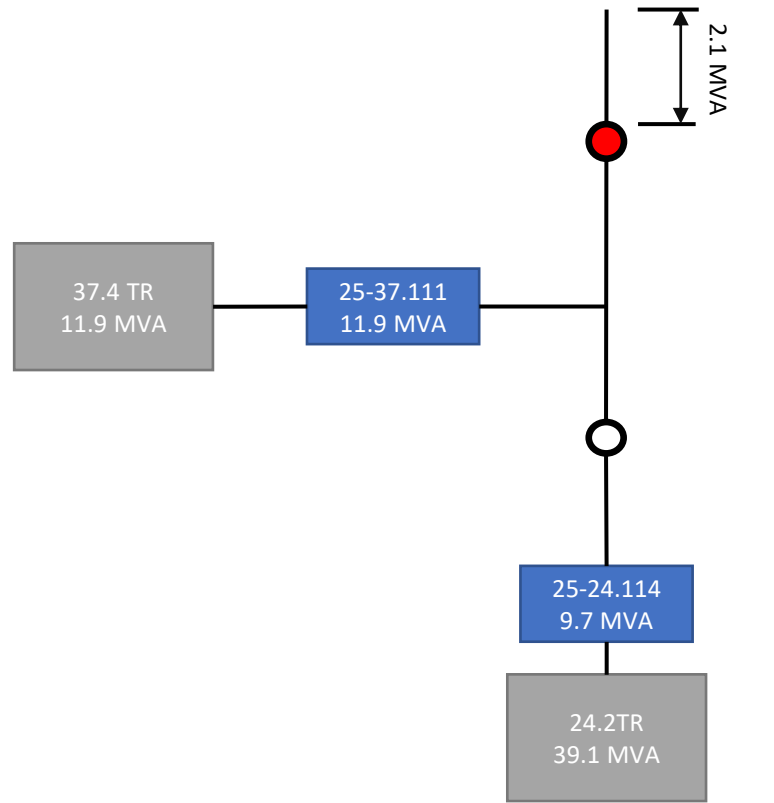
Note: Proposed line routes, substation locations and normally open switches are conceptual and subject to change

Date
April 2022





No. 37 Substation – AESO Addendum IR Responses – Round 2 – Question 8 Part 1

Figure 2: Contingency Assessment for the loss of 25-37.111 over the 2025 Forecast Summer Peak Transformer



Legend

Normally Open 

Normally Closed 

24.2TR Rated Capacity: 50 MVA

37.4TR Rated Capacity: 13.3 MVA

Unable to transfer full load without exceeding transformer 24.2TR 50MVA thermal capacity ($11.9 + 39.1 = 51$).

Can successfully transfer 9.8 MVA by opening the in-line normally closed switch

Notes:

Total load during contingency that can be tied away under N-1 25-37.111 contingency:

- No 24 Sub: **9.8 MVA**

As the loading on 25-37.111 exceeds the remaining capacity available on 24.2TR of 10.9 MVA, a section of 25-37.111 needs to be shed to restore a portion of 25-37.111.

Load that cannot be tied away during N-1 25-37.111 contingency:

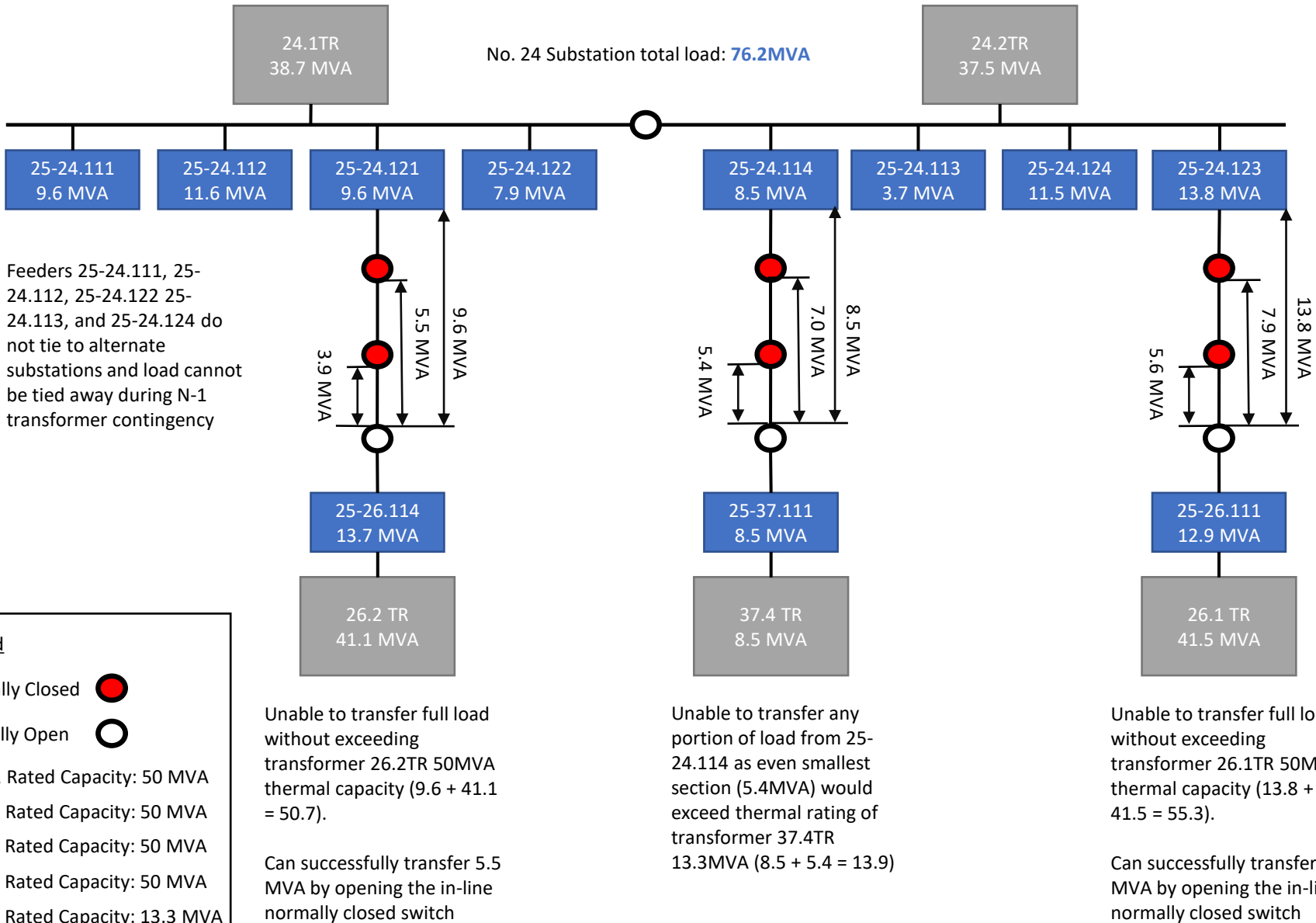
- Total load that cannot be tied away: **2.1 MVA**

Total load on 24.2TR after restoring a portion of 25-37.111 is 48.9MVA ($39.1 + 9.8 = 48.9$ MVA) which is below the rated capacity of 24.2TR.

All loading in Figure 2 represents 2025 summer peak loading conditions

No. 37 Substation – AESO Addendum IR Responses – Round 2 – Question 8 Part 2

Figure 3: Contingency Assessment for the loss of 24.1TR or 24.2TR over the 2023 Forecast Summer Peak Transformer



Notes:

Total load during contingency that can be tied away under N-1 transformer contingency:

- No. 37 Sub: 0 MVA
- No. 26 Sub: 7.9 MVA from 25-24.123 and 5.5 MVA from 25-24.121
- Total load that can be tied away: **13.4 MVA**

Load that cannot be tied away during N-1 transformer contingency:

- 25-24.111: 9.6 MVA
- 25-24.112: 11.6 MVA
- 25-24.121: (9.6 MVA - 5.5 MVA) = 4.1 MVA
- 25-24.122: 7.9 MVA
- 25-24.114: 8.5 MVA
- 25-24.113: 3.7 MVA
- 25-24.124: 11.5 MVA
- 25-24.123: (13.8 MVA - 7.9 MVA) = 5.9 MVA
- Total load that cannot be tied away: **62.8 MVA**

With 62.8 MVA remaining at No. 24 Sub, the remaining transformer will overload. To alleviate this overload condition load must be dropped. The two feeders that will experience Load at Risk are:

- 25-24-123: 5.9 MVA
- 25-24.122: 7.9 MVA
- Total Load at Risk: **13.8 MVA**

Resultant loading on the remaining transformer will be **49 MVA**

All loading in Figure 3 represents 2023 summer peak loading conditions