

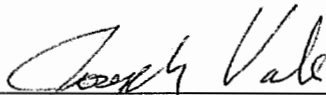
KyPSC Case No. 2025-00131
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VERIFICATION

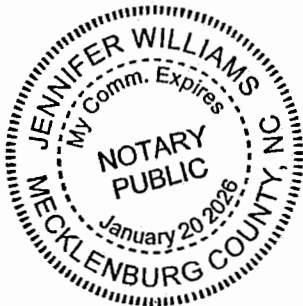
STATE OF NORTH CAROLINA)
)
COUNTY OF MECKLENBURG) SS:

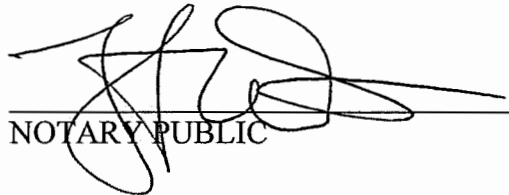
The undersigned, Joseph Vale, Director, AMI Operations and Meter Engineering, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests and that the answers contained therein are true and correct to the best of his knowledge, information and belief.



Joseph Vale, Affiant

Subscribed and sworn to before me by Joseph Vale on this 18th day of June, 2025.





NOTARY PUBLIC

My Commission Expires:

VERIFICATION

STATE OF OHIO

)

)

SS:

COUNTY OF HAMILTON

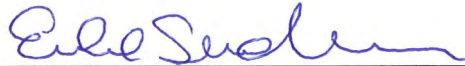
)

The undersigned, Nick Melillo, Director, PGO Asset Management, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests and that the answers contained therein are true and correct to the best of his knowledge, information and belief.



Nick Melillo, Affiant

Subscribed and sworn to before me by Nick Melillo on this 17th day of June, 2025.



NOTARY PUBLIC

My Commission Expires: July 8, 2027



EMILIE SUNDERMAN
Notary Public
State of Ohio
My Comm. Expires
July 8, 2027

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-001

REQUEST:

State whether the electric utility currently has advanced metering infrastructure (AMI) capabilities in place.

RESPONSE:

Duke Energy Kentucky has advanced metering infrastructure (AMI) capabilities in place in Kentucky.

PERSON RESPONSIBLE: Joseph "Joe" Vale

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-002

REQUEST:

State whether the electric utility has AMI equipment and software with the capability to monitor and record voltage of an individual customer over a determined period of time.

RESPONSE:

The Duke Energy Kentucky AMI meters have the capability to monitor and record a voltage snapshot at a minimum interval of 5 minutes.

PERSON RESPONSIBLE: Joseph "Joe" Vale

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-003

REQUEST:

State whether the utility has other equipment on the system that can also monitor and record voltage.

RESPONSE:

The Company is currently using automated capacitor banks to monitor and record voltage through a software called AVEVA PI Vision.

PERSON RESPONSIBLE: Dominic "Nick" Melillo

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-004

REQUEST:

State if the ability to monitor and record voltage of individual customers is as accurate as equipment required by 807 KAR 5:041, Section 7, and if so, state how this is determined.

RESPONSE:

Duke Energy Kentucky follows a rigorous annual test plan to ensure meter registration accuracy. Duke Energy Kentucky has not assessed the accuracy of the AMI voltage snapshot taken at 5-minute intervals.

PERSON RESPONSIBLE: Joseph "Joe" Vale

Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025

STAFF-DR-01-005

REQUEST:

State if the utility intends to perform ongoing tests of the accuracy of the AMI voltage recordings and describe the intended process.

RESPONSE:

Duke Energy Kentucky follows a rigorous annual test plan to ensure meter registration accuracy. Duke Energy Kentucky has no current plans to assess the accuracy of the AMI voltage snapshot taken at 5-minute intervals.

PERSON RESPONSIBLE: Joseph "Joe" Vale

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-006

REQUEST:

State how the tests will be recorded, how long the records for each test will be kept, and if the records will be maintained in a manner that can be inspected by utility customers and the Commission or its staff.

RESPONSE:

Duke Energy Kentucky follows a rigorous annual test plan to ensure meter registration accuracy. Duke Energy Kentucky has no current plans to assess the accuracy of the AMI voltage snapshot taken at 5-minute intervals.

PERSON RESPONSIBLE: Joseph "Joe" Vale

Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025

STAFF-DR-01-007

REQUEST:

Provide an example of what the AMI voltage surveys and recordings look like as recorded by the AMI system, as well as an example of the current voltage surveys and recorders installed at various locations on your system.

RESPONSE:

Please see STAFF-DR-01-007 Attachment 1 for an example of the current voltage surveys, STAFF-DR-01-007 Attachment 2 which shows AMI voltage recordings from a Single-Phase meter for a 24-hour period, and STAFF-DR-01-007 Attachment 3 which shows AMI voltage recordings from a Poly Phase meter for a 24-hour period.

PERSON RESPONSIBLE: Dominic "Nick" Melillo – Current Voltage Survey
Joseph "Joe" Vale – Current Recordings

CIRCUIT ID: **HEBRON (152) 44**

ADDRESS: 2205 GRAVES RD.
N/6 WATER TOWER DR.

FIELD ID: **BNK-8574**

WORK ORDER: **31041099**

CAPACITOR SIZE: 1200 KVAR 3Ø, 7.2KV

INSPECTOR DATE: 4/19/24
TIME: 8:00 AM

INSPECTOR: KELLY McMAHAN

CA
CAPACITOR: BECKWITH
CONTROL: MODEL M-G283A
SCREEN VOLTAGE: OUT 122.6
OPERATIONS: 4

Δ VOLTAGE: 1.20 VOLTS

23.8V WHEN CUT-IN

VOLTMETER: FLUKE METER 337
SEE CAL. SHEET

FOUND SWITCHES: OUT 122.6V

WHEN CUT-IN 123.8V
Δ VOLTAGE: 1.20 VOLTS

4-10KV CUTOUTS

3-ABB VACUUM SWITCHES

4-10KV LIGHTNING ARRESTERS

A 1-KVA TRANSFORMER (ON SOUTH ØA)

GOOD POLE GROUND

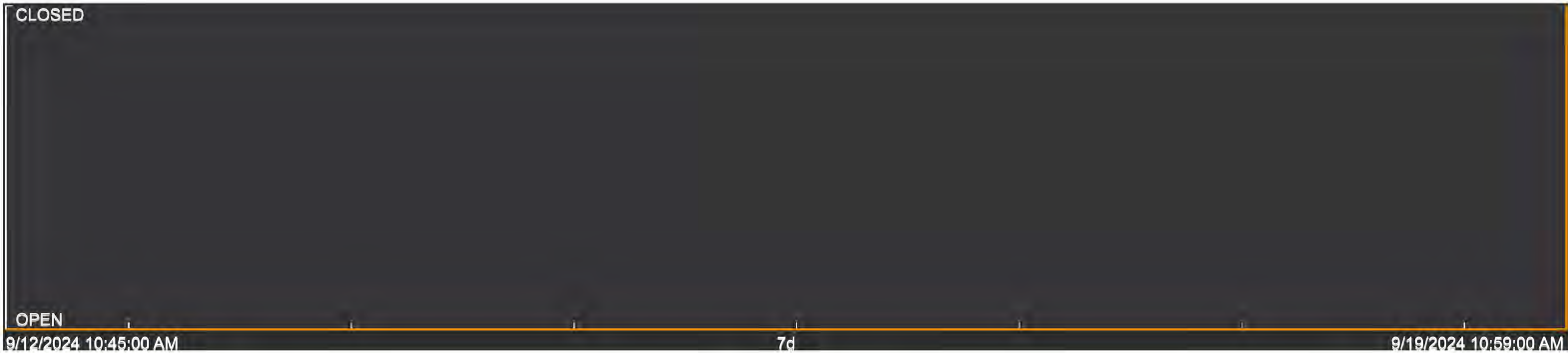
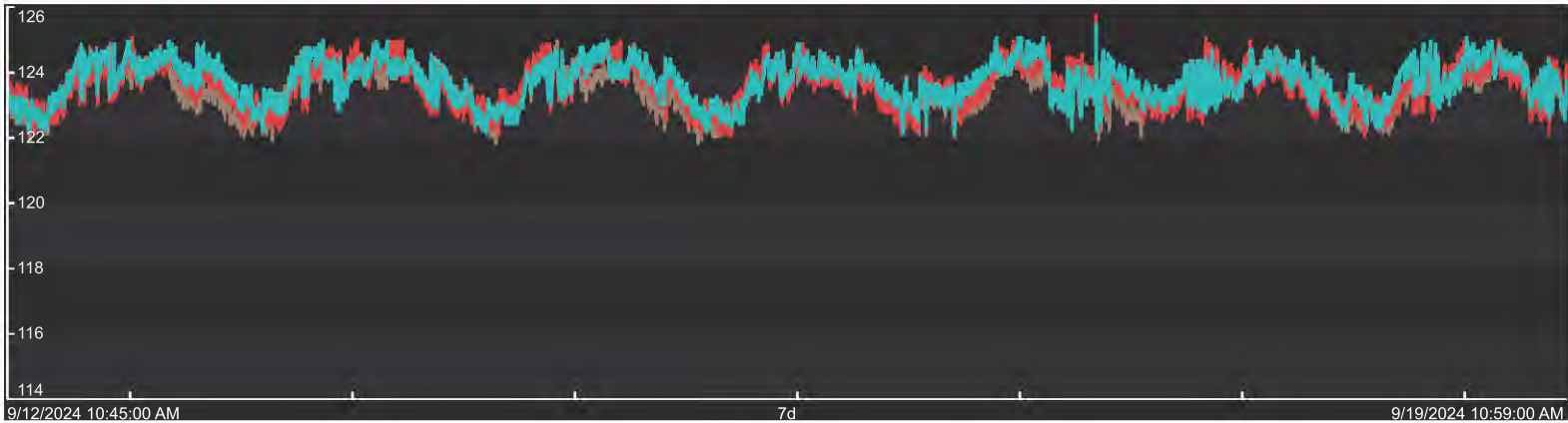
10/16/24, 7:33 AM

PI Vision - kyvoltagetemplate

AVEVA™ PI Vision™

+ New Display  NAM/TF/Tolle ?

kyvoltagetemplate Asset: 593976153 HEBRON



9/12/2024 10:45:00 AM  7d Now 9/19/2024 10:59:00 AM

CIRCUIT:
ID:

LIAMBURG (184) 43

ADDRESS:

4796 LEMBURG RD.
(10461 RD, E/6 LEMBURG RD.)

FIELD:
ID:

20BN-630

ORDER

603
603
603

CAPACITOR SIZE: 100 200 KVAR 3x 7.2KV

INSPECTION DATE:

9/17/2024

TIME: 9:30 AM

INSPECTOR: KELLY McMAHAN

CAPACITOR (100) WITH
CONTROL LEVEL 1028A

SCREEN VOLTAGE: (OUT) 120.8

OPERATIONS 256

1028A 120.8 VOLT

1028A 120.8 VOLT WHEN CUT-IN

VOLTMETER 1000V METER 837
SEE CAL. SHEET

FOUND SWITCHES: (OUT) 120.8V

WHEN CUT-IN 125.6 V

A VOLTAGE: 4.7 VOLTS

- 4 - 10KV CUTOUTS
- 3 - ABB VACUUM SWITCHES
- 4 - 10KV LIGHTNING ARRESTERS
- A 1-KVA TRANSFORMER (ON FIELD #A)
- GOOD POLE GROUND

10/16/24, 7:40 AM

PI Vision - kyvoltageemplate

AVEVA™ PI Vision™

+ New Display

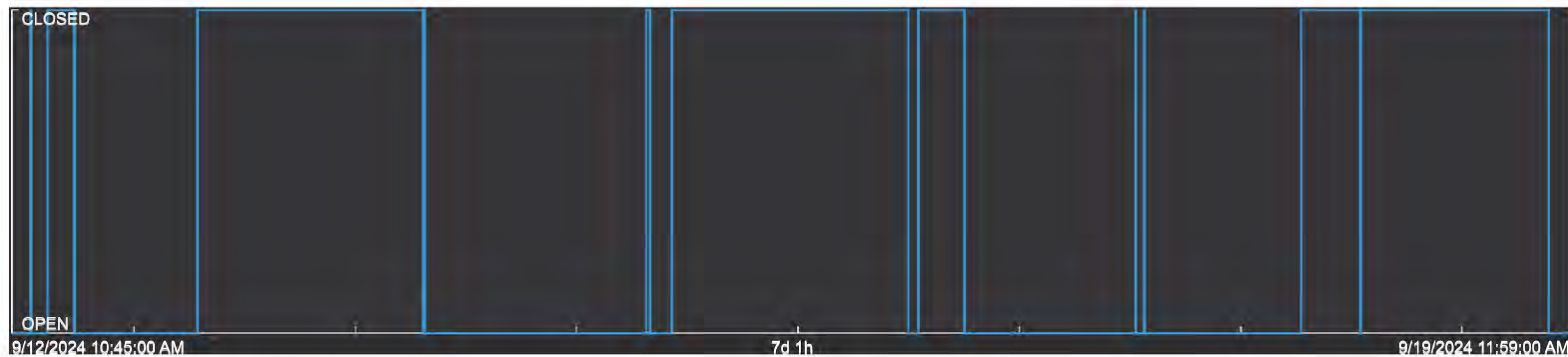
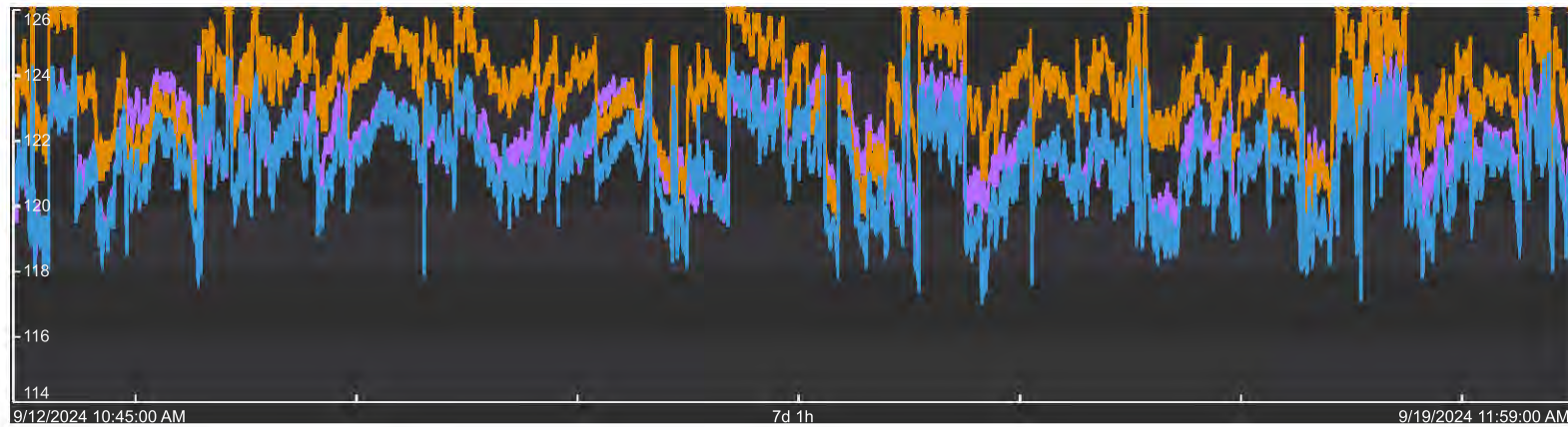


NAM/TFTTolle



kyvoltageemplate

Asset: 27360611 LIMABURG



9/12/2024 10:45:00 AM



7d 1h

Now

9/19/2024 11:59:00 AM

CIRCUIT ID: **AUGUSTINE (78) 44** ADDRESS: WINSTON AVE S/O 40th ST.

FIELD ID: **K54-27**

WORK ORDER: **54658533**

UCAPACITOR SIZE: **200V 4.0 KVAR 3Ø, 7.2KV**

INSPECTION DATE: **9-19-2024**

TIME: **10:00 AM**

INSPECTOR: **KELLY McMAHAN**

CAPACITOR **BECKWITH**
CONTROL: **MODEL M-G283A**

SCREEN VOLTAGE: **OUT 121.7**

OPERATIONS: **140**

Δ VOLTAGE: **2.80 VOLTS**

124.5V WHEN CUT-IN

VOLTMETER: **FLUKE METER 337**
↳ SEE CAL. SHEET

FOUND SWITCHES: **OUT 122.0 V**
WHEN CUT-IN **124.7 V**

Δ VOLTAGE: **2.7 VOLTS**

4-10 KV CUTOUTS

3-ABB VACUUM SWITCHES

4-10KV LIGHTNING ARRESTERS

A 1-KVA TRANSFORMER (ON ROAD ØA)

GOOD POLE GROUND

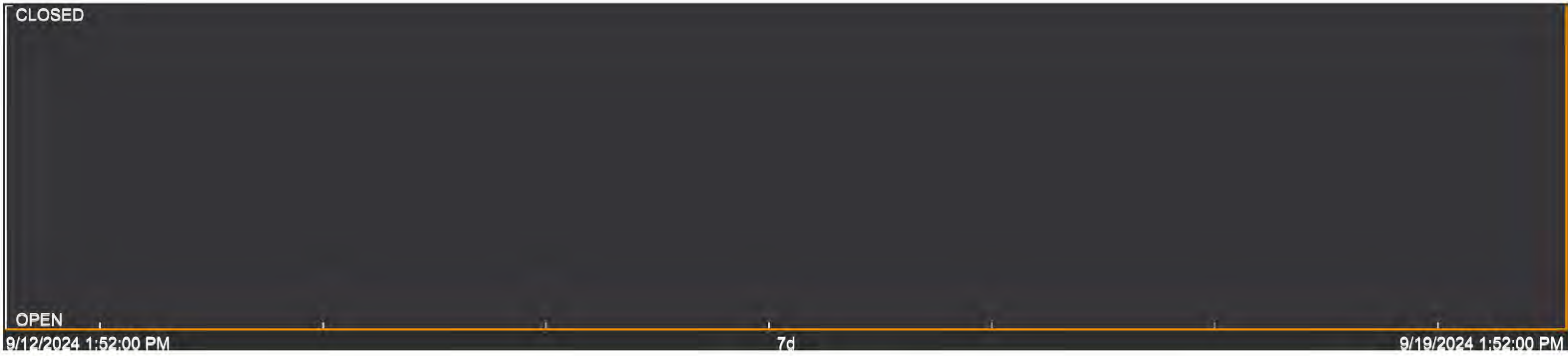
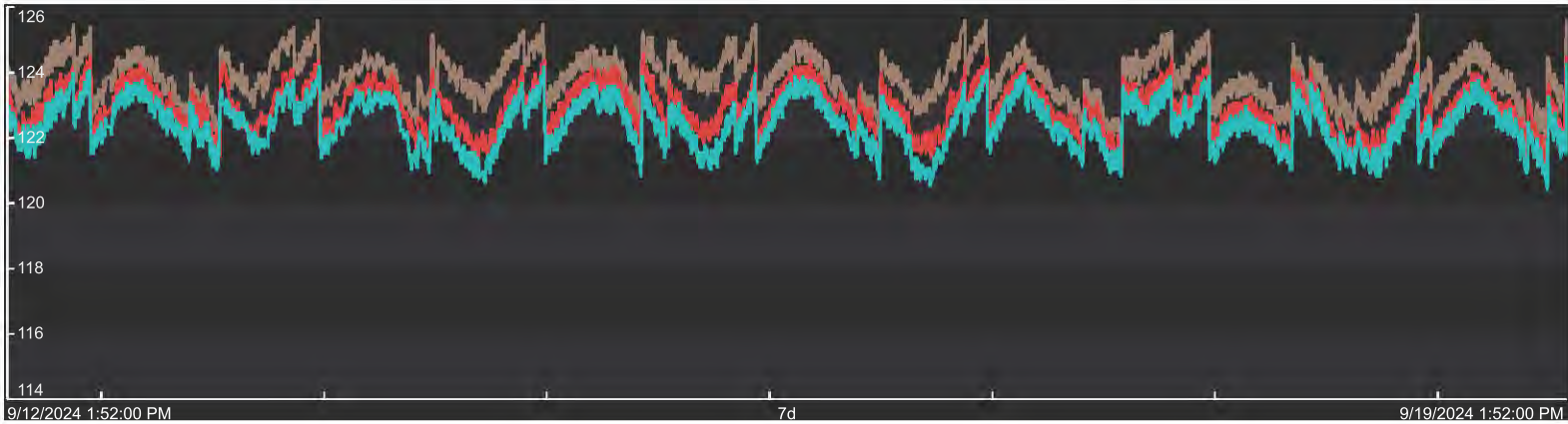
10/16/24, 7:55 AM

PI Vision - kyvoltagegtemplate

AVEVA™ PI Vision™

+ New Display  NAM/TFTTolle ?

kyvoltagegtemplate Asset: 27347316 AUGUSTINE



9/12/2024 1:52:00 PM  7d Now 9/19/2024 1:52:00 PM

CIRCUIT ID: **KY UNIVERSITY (287) 42**

ADDRESS: **RT 27 N. HAYSWOOD DR.**

FIELD ID: **CA 713 CAT-7-3**

WORK ORDER: **31041354**

CAPACITOR SIZE: **200 KVAR 7.2 KV**

INSPECTION DATE: **9-19-2024**

TIME: **10:30 AM**

INSPECTOR: **KELLY McMAHAN**

CAPACITOR **BECKWITH**
CONTROL: **MODEL M-6283A**

SCREEN VOLTAGE: **OUT 120.8**

OPERATIONS: **G**

Δ VOLTAGE: **2.60 VOLTS**

123.4 V WHEN CUT-IN

VOLTMETER: **FLUKE METER 337**
SEE CAL. SHEET

FOUND SWITCHES: **OUT 21.4 V**

WHEN CUT-IN **124.0 V**

Δ VOLTAGE: **2.6 VOLTS**

3- 10 KV CUTOUTS

3- MAYSTEEL VACUUM SWITCHES

3- 10 KV LIGHTNING ARRESTERS

NO 1-KVA... CONTROL VOLTAGE FROM SECONDARY (ON CENTER & B)

GOOD POLE GROUND

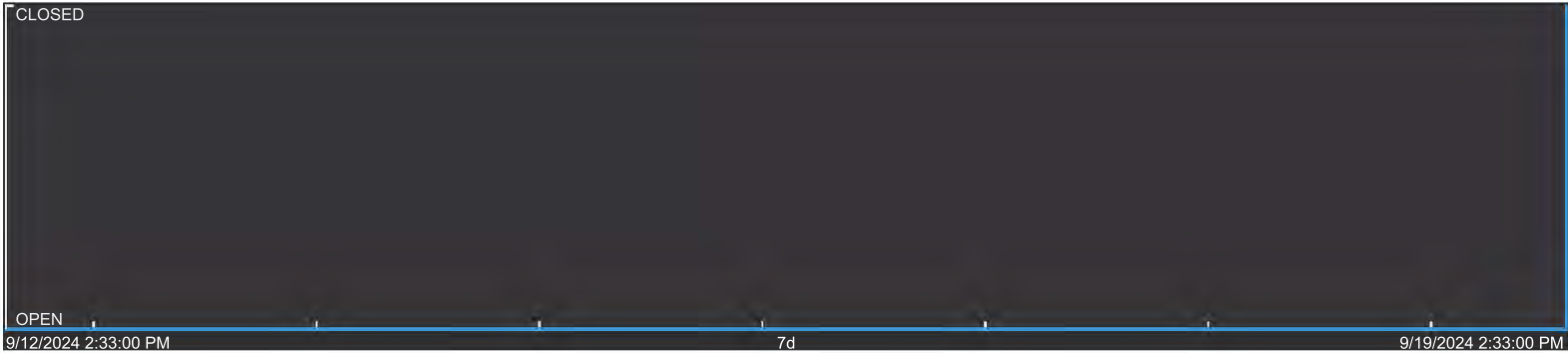
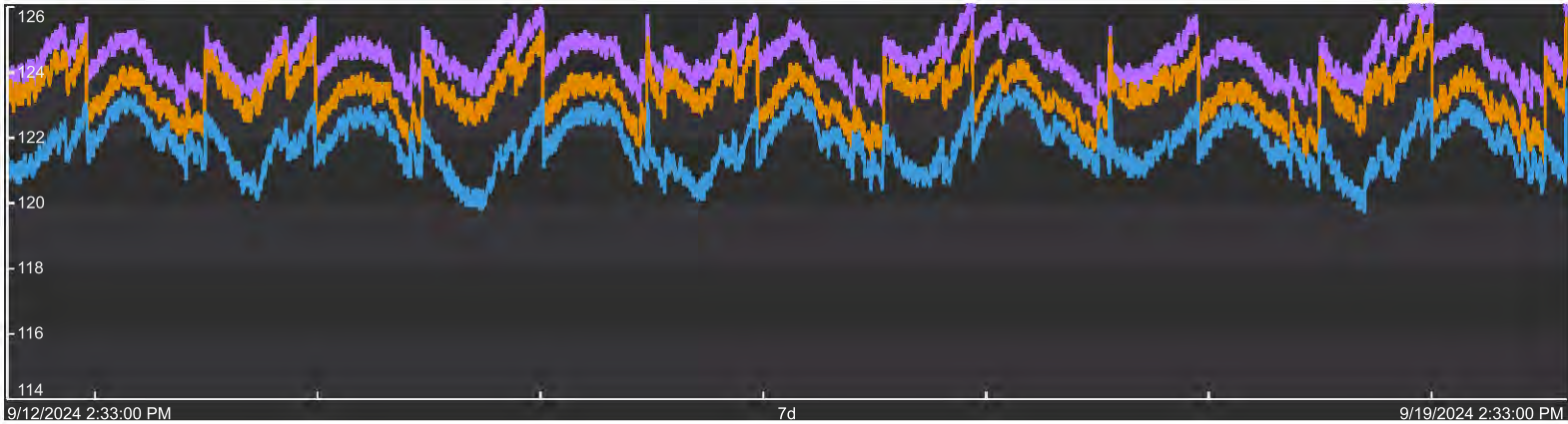
10/16/24, 7:59 AM

PI Vision - kyvoltagetemplate

AVEVA™ PI Vision™

+ New Display  NAM/TF/Tolle ?

kyvoltagetemplate Asset: 27354068 KENTUCKY UNIVERSITY



9/12/2024 2:33:00 PM



7d

Now

9/19/2024 2:33:00 PM

CIRCUIT: FLORENCE (241) 42
ID:

ADDRESS: 7405 BURLINGTON PIKE

FEED: 203V-1039

WORK
ORDER:

31041345

CAPACITOR SIZE FOR KVAR 34, 7.2KV



INSPECTION DATE: 1/11/2024

TIME: 11:54 AM

INSPECTOR: KELLY McMAHAN

CAPACITOR BECKWITH

CONTACT MODEL M-102A

SCREEN VOLTAGE: (OUT) 1121.6V

OPERATIONS: 15#8

Δ VOLTAGE: 1080 VOLTS

WHEN CUT-IN 1123.4V

4 10KV CAPACITORS

3-ABB VACUUM SWITCHES

4-10KV LIGHTNING ARRESTERS

A 1-KVA TRANSFORMER (ON FIELD #B)

GOOD POLE GROUND

VOLTMETER: 150V METER 837

SEE CAL. SHEET

FORM SWITCHES: (OUT) 1121.6V

WHEN CUT-IN 1123.4V

Δ VOLTAGE 1123.4V

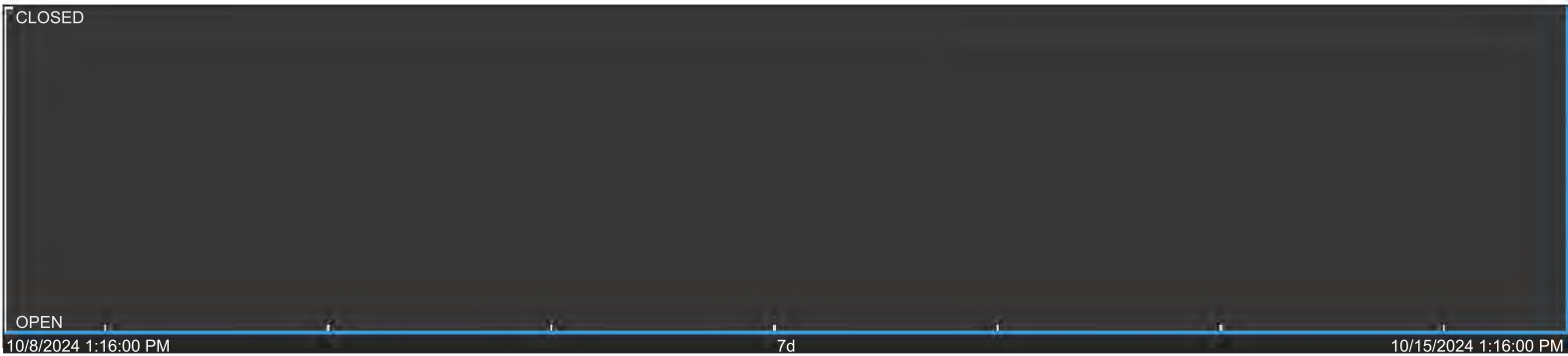
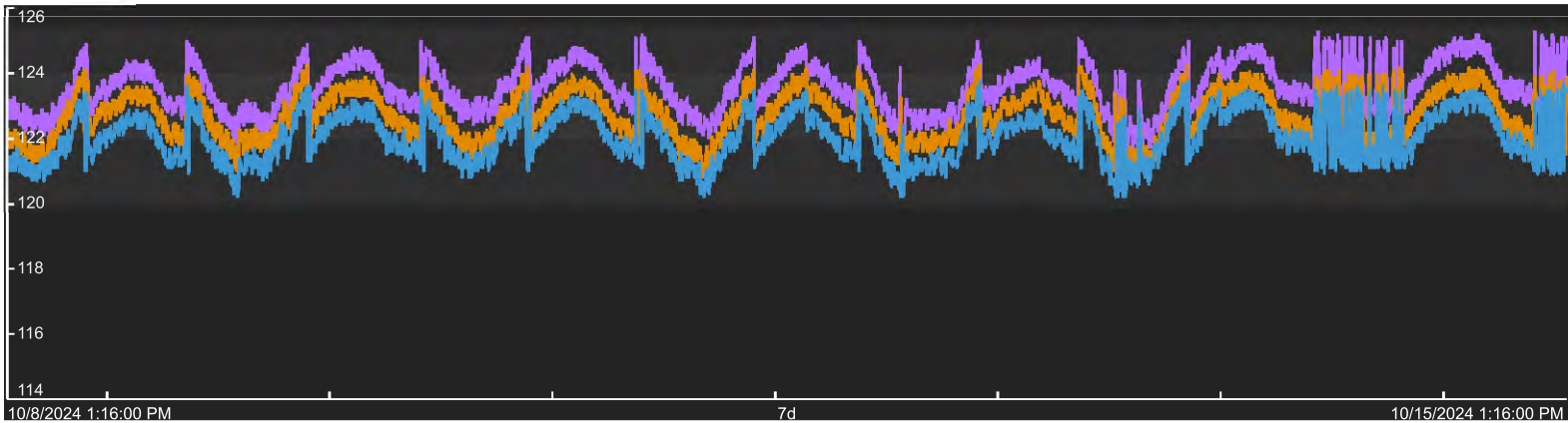
10/16/24, 7:24 AM

PI Vision - kyvoltagetemplate

AVEVA™ PI Vision™

+ New Display | NAM/TFTolle | ?

kyvoltagetemplate Asset: 27367263 FLORENCE



Device Status
CLOSED

10/8/2024 1:16:00 PM 7d Now 10/15/2024 1:16:00 PM

CIRCUIT ID: **FLORENCE (241) 47** ADDRESS: 7155 HOUSTON RD.

FIELD ID: **2GBN-1257**

WORK ORDER: **31041351**

CAPACITOR SIZE: 1200 KVAR 3 ϕ , 7.2KV

INSPECTION DATE: 10-15-2024

TIME: 1:55 PM

INSPECTOR: KELLY McMAHAN

CAPACITOR BECKWITH
CONTROL: MODEL M-6283A

SCREEN VOLTAGE: **OUT** 123.4

OPERATIONS: 686

Δ VOLTAGE: 2.00 VOLTS
WHEN CUT-IN 125.4V

VOLTMETER: FLUKE METER 337
SEE CAL. SHEET

FOUND SWITCHES: **OUT** 122.6 V
WHEN CUT-IN 124.4 V

Δ VOLTAGE: 1.8 VOLTS

4- 10 KV CUTOUTS

3- MAYSTEEL VACUUM SWITCHES

4- 10 KV LIGHTNING ARRESTERS

A 1-KVA TRANSFORMER (ON ROAD)

GOOD POLE GROUND

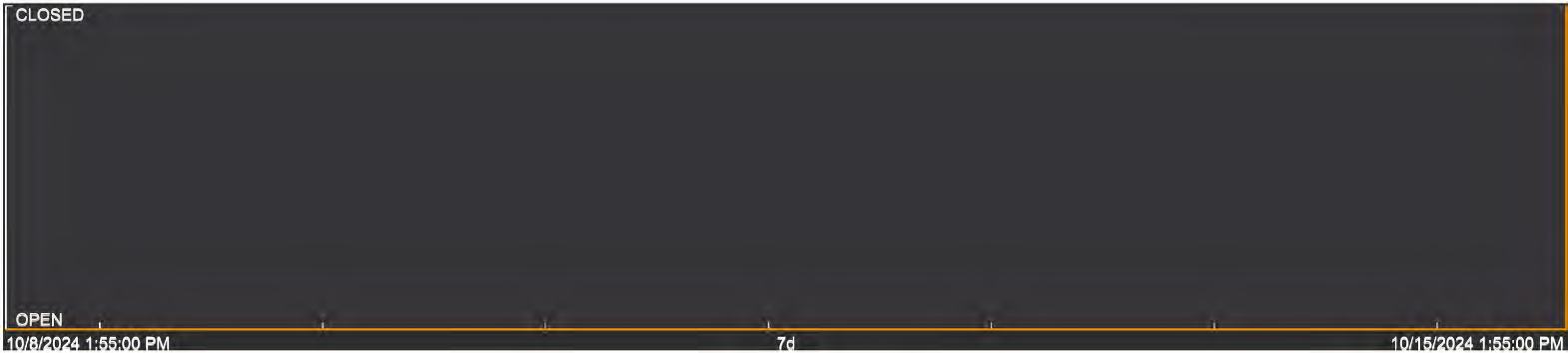
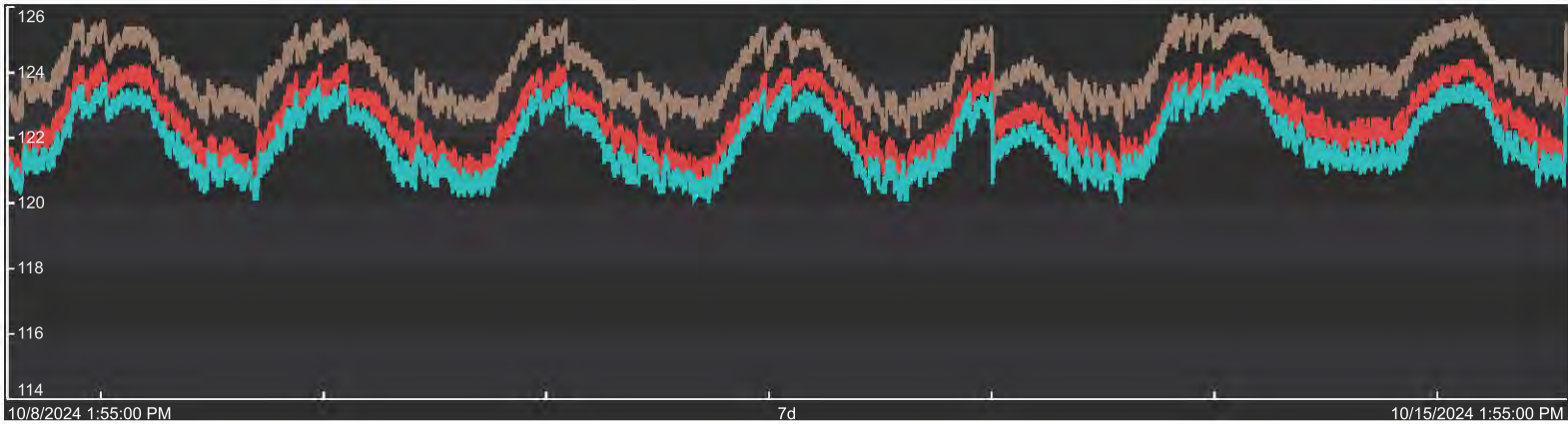
10/16/24, 8:04 AM

PI Vision - kyvoltageemplate

AVEVA™ PI Vision™

+ New Display  NAM/TF/Tolle ?

kyvoltageemplate Asset: 27367870 FLORENCE



10/8/2024 1:55:00 PM  7d Now 10/15/2024 1:55:00 PM

CIRCUIT ID: FLORENCE (241) 44

ADDRESS: 6050 HOPEFUL CHURCH RD.

FIELD ID: 26BN-712

WORK ORDER: 31041349

INSPECTION DATE: 10-15-2024

TIME: 2:45 PM

INSPECTOR: KELLY McMAHAN

MODEL CRPAC3T02

CAPACITOR BECKWITH
CONTROL MODEL EM-6284A

SCREEN VOLTAGE: (OUT) 122.5V

OPERATIONS: 28

VOLTAGE: 2.2 VOLTS

WHEN CUT-IN 24.7V

VAR

CAPACITOR SIZE: 28 KVAR 34.7KV

VOLTMETER: FLUKE METER 337
SEE CAL. SHEET

FOUND SWITCHES: (OUT) 123.0V

WHEN CUT-IN 125.0V

A VOLTAGE: 2.0 VOLTS

4-10KV CUTOUTS

3- ABB VACUUM SWITCHES

4- 10KV LIGHTNING ARRESTER

A 1-KVA TRANSFORMER (ROAD #)

GOOD POLE GROUND

10/16/24, 8:09 AM

PI Vision - kyvoltageemplate

AVEVA™ PI Vision™

+ New Display

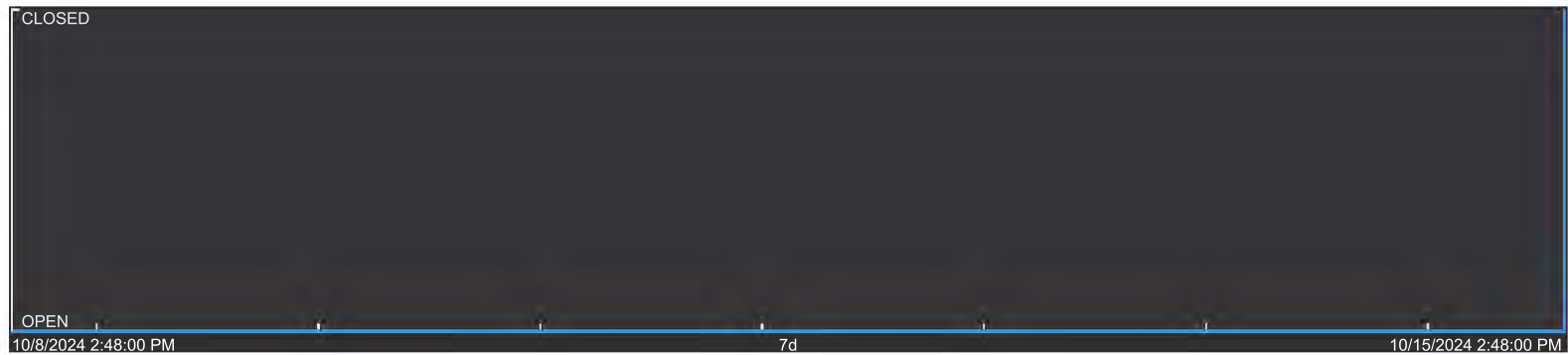
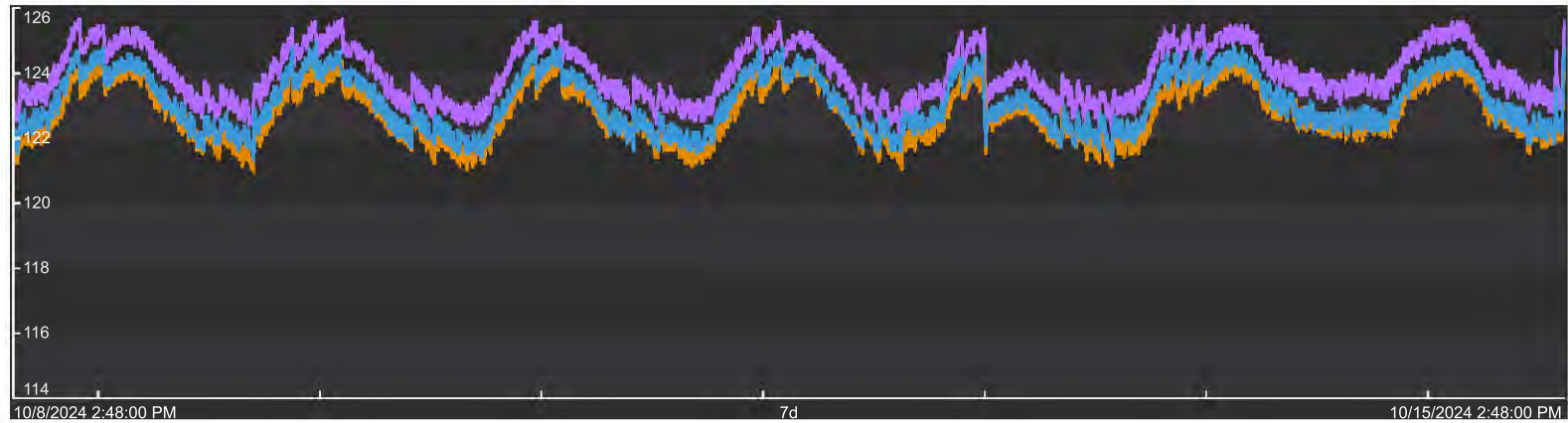


NAM/TFT/olle



kyvoltageemplate

Asset: 386541603 FLORENCE



10/8/2024 2:48:00 PM



7d

Now

10/15/2024 2:48:00 PM

Meter Lab... Instruments... Drop Off

Dropped off by: (name and phone #) Kelly McMahon 513-678-9325 Date: 7-17-2024

District/Department: GRD MANAGEMENT Supervisor: (name and phone #) _____

Instrument Company # and Serial #	Instrument Description	Calibrated by - Comments
Ex: vao-100 123456	Fluke 374	
VAO-724	FLUKE 337	DS 7/24/24
	print certificate	

***** INSTRUMENT PICK UP *****

Completed instruments picked up by: (print name/ sign/ date)

X _____

The lab is not responsible for lost/stolen items.



Queensgate Instrument Testing Lab

Certificate of Calibration

Calibration Standard

Model: Fluke 5540A Serial No: 6311605 Description: Multifunction Calibrator
Cal Date: 10/18/2023 Due Date: 10/18/2024 Cal By: Fluke Calibration
Certificate No: F9536013

Unit Under Test

Model: Fluke 337 Company No: VAO-724 Serial No: 88519054
Cal Date: 07/24/2024 Due Date: 07/24/2025 Tester: Danny Sharp

Calibration Results

DISPLAY TEST

Clarity and Contrast PASS

BACKLIGHT TEST

Backlight Functional PASS

HI LIMIT LOW

AC VOLTAGE TEST

20.0V @ 50Hz	20.7	20.1	19.3	PASS
600.0V @ 50Hz	606.5	601.1	593.5	PASS
600.0V @ 400Hz	636.5	591	563.5	PASS

MIN/MAX FUNCTION TEST

Retains MAX value PASS

DC VOLTAGE TEST

20.0V	20.7	20.2	19.3	PASS
-20.0V	-19.3	-20.1	-20.7	PASS
600.0V	606.5	602.1	593.5	PASS
-600.0V	-593.5	-601.2	-606.5	PASS

CONTINUITY TEST

Beeper PASS

424 Gest Street
Cincinnati, Oh 45203

Phone: 513-419-1661

RESISTANCE TEST

600.0 Ohm	606.5	601.0	593.5	PASS
6000 Ohm	6065	5997	5935	PASS

AC CURRENT TEST

20.0A @ 50Hz	20.9	19.9	19.1	PASS
200.0A @ 50Hz	204.5	201.3	195.5	PASS
200.0A @ 400Hz	212.5	197.2	187.5	PASS
600.0A @ 50Hz	612.5	605.1	587.5	PASS
900.0A @ 50Hz	918.5	905.6	881.5	PASS

INRUSH CURRENT TEST

Inrush Annunciator				PASS
5.0A @ 60Hz	5.6	4.7	4.4	PASS

DC CURRENT TEST

0.0A	0.5	0.0	-0.5	PASS
20.0A	20.9	19.9	19.1	PASS
-20.0A	-19.1	-20.0	-20.9	PASS
600.0A	612.5	605.6	587.5	PASS
-600.0A	-587.5	-604.6	-612.5	PASS
900.0A	918.5	906.5	881.5	PASS
-900.0A	-881.5	-906.1	-918.5	PASS

FREQUENCY TEST

10.0Hz @ 5A	10.6	10.0	9.4	PASS
300Hz @ 10A	307	300	294	PASS

KY Single Phase AMI Meter

Interactive Read Time 6/17/2025 15:05
Time Zone (UTC-05:00) Eastern Time (US & Canada)
Requested Time Span 6/16/2025 12:00:00 AM - 6/17/2025 12:00:00 AM

Voltage Monitoring Intervals

Interval End Date/Time	Vh(a) Scaled(Raw)	max V(a) Scaled(Raw)	min V(a) Scaled(Raw)	Status
6/16/2025 0:05	20.250 (810)	243.600 (9744)	242.200 (9688)	D
6/16/2025 0:10	20.325 (813)	244.400 (9776)	243.400 (9736)	D
6/16/2025 0:15	20.250 (810)	243.500 (9740)	242.100 (9684)	D
6/16/2025 0:20	20.250 (810)	243.600 (9744)	242.600 (9704)	D
6/16/2025 0:25	20.350 (814)	244.500 (9780)	244.000 (9760)	D
6/16/2025 0:30	20.350 (814)	244.500 (9780)	243.400 (9736)	D
6/16/2025 0:35	20.325 (813)	244.300 (9772)	243.500 (9740)	D
6/16/2025 0:40	20.325 (813)	244.100 (9764)	243.500 (9740)	D
6/16/2025 0:45	20.350 (814)	244.400 (9776)	243.800 (9752)	D
6/16/2025 0:50	20.350 (814)	244.500 (9780)	244.100 (9764)	D
6/16/2025 0:55	20.325 (813)	244.600 (9784)	243.400 (9736)	D
6/16/2025 1:00	20.400 (816)	244.900 (9796)	244.200 (9768)	D
6/16/2025 1:05	20.300 (812)	244.900 (9796)	242.000 (9680)	D
6/16/2025 1:10	20.150 (806)	242.100 (9684)	241.000 (9640)	D
6/16/2025 1:15	20.200 (808)	242.500 (9700)	241.800 (9672)	D
6/16/2025 1:20	20.200 (808)	242.800 (9712)	242.100 (9684)	D
6/16/2025 1:25	20.225 (809)	242.900 (9716)	242.300 (9692)	D
6/16/2025 1:30	20.200 (808)	242.700 (9708)	242.000 (9680)	D
6/16/2025 1:35	20.200 (808)	242.900 (9716)	241.900 (9676)	D
6/16/2025 1:40	20.225 (809)	243.100 (9724)	242.600 (9704)	D
6/16/2025 1:45	20.225 (809)	243.100 (9724)	241.900 (9676)	D
6/16/2025 1:50	20.250 (810)	243.200 (9728)	242.600 (9704)	D
6/16/2025 1:55	20.225 (809)	243.100 (9724)	242.600 (9704)	D
6/16/2025 2:00	20.275 (811)	243.600 (9744)	242.800 (9712)	D
6/16/2025 2:05	20.275 (811)	243.600 (9744)	242.700 (9708)	D

6/16/2025 2:10	20.275 (811)	243.600 (9744)	243.100 (9724)	D
6/16/2025 2:15	20.250 (810)	243.300 (9732)	242.800 (9712)	D
6/16/2025 2:20	20.300 (812)	243.800 (9752)	243.000 (9720)	D
6/16/2025 2:25	20.275 (811)	243.800 (9752)	243.200 (9728)	D
6/16/2025 2:30	20.300 (812)	243.800 (9752)	243.100 (9724)	D
6/16/2025 2:35	20.275 (811)	243.700 (9748)	242.100 (9684)	D
6/16/2025 2:40	20.225 (809)	243.600 (9744)	242.400 (9696)	D
6/16/2025 2:45	20.325 (813)	244.000 (9760)	243.600 (9744)	D
6/16/2025 2:50	20.275 (811)	243.900 (9756)	242.900 (9716)	D
6/16/2025 2:55	20.275 (811)	243.900 (9756)	242.800 (9712)	D
6/16/2025 3:00	20.300 (812)	243.800 (9752)	243.100 (9724)	D
6/16/2025 3:05	20.225 (809)	243.800 (9752)	242.600 (9704)	D
6/16/2025 3:10	20.250 (810)	243.100 (9724)	242.400 (9696)	D
6/16/2025 3:15	20.200 (808)	242.900 (9716)	242.300 (9692)	D
6/16/2025 3:20	20.250 (810)	243.000 (9720)	242.400 (9696)	D
6/16/2025 3:25	20.225 (809)	243.000 (9720)	242.400 (9696)	D
6/16/2025 3:30	20.200 (808)	243.200 (9728)	241.800 (9672)	D
6/16/2025 3:35	20.200 (808)	242.900 (9716)	241.900 (9676)	D
6/16/2025 3:40	20.225 (809)	243.100 (9724)	242.400 (9696)	D
6/16/2025 3:45	20.250 (810)	243.200 (9728)	242.600 (9704)	D
6/16/2025 3:50	20.225 (809)	243.200 (9728)	242.500 (9700)	D
6/16/2025 3:55	20.225 (809)	243.800 (9752)	242.200 (9688)	D
6/16/2025 4:00	20.250 (810)	243.800 (9752)	242.500 (9700)	D
6/16/2025 4:05	20.300 (812)	244.000 (9760)	242.900 (9716)	D
6/16/2025 4:10	20.300 (812)	243.900 (9756)	243.000 (9720)	D
6/16/2025 4:15	20.275 (811)	243.900 (9756)	243.200 (9728)	D
6/16/2025 4:20	20.300 (812)	243.800 (9752)	243.300 (9732)	D
6/16/2025 4:25	20.300 (812)	243.900 (9756)	243.300 (9732)	D
6/16/2025 4:30	20.300 (812)	243.900 (9756)	243.200 (9728)	D
6/16/2025 4:35	20.275 (811)	243.600 (9744)	242.900 (9716)	D
6/16/2025 4:40	20.275 (811)	243.700 (9748)	243.200 (9728)	D
6/16/2025 4:45	20.275 (811)	243.600 (9744)	243.000 (9720)	D

6/16/2025 4:50	20.250 (810)	243.600 (9744)	242.100 (9684)	D
6/16/2025 4:55	20.200 (808)	242.700 (9708)	242.100 (9684)	D
6/16/2025 5:00	20.200 (808)	242.700 (9708)	242.300 (9692)	D
6/16/2025 5:05	20.225 (809)	243.000 (9720)	242.200 (9688)	D
6/16/2025 5:10	20.200 (808)	242.700 (9708)	242.200 (9688)	D
6/16/2025 5:15	20.200 (808)	242.600 (9704)	241.800 (9672)	D
6/16/2025 5:20	20.075 (803)	242.200 (9688)	240.200 (9608)	D
6/16/2025 5:25	20.125 (805)	242.100 (9684)	240.600 (9624)	D
6/16/2025 5:30	20.150 (806)	242.200 (9688)	241.400 (9656)	D
6/16/2025 5:35	20.150 (806)	242.200 (9688)	241.600 (9664)	D
6/16/2025 5:40	20.150 (806)	242.000 (9680)	241.500 (9660)	D
6/16/2025 5:45	20.175 (807)	242.600 (9704)	241.500 (9660)	D
6/16/2025 5:50	20.150 (806)	242.200 (9688)	241.500 (9660)	D
6/16/2025 5:55	20.175 (807)	242.300 (9692)	241.500 (9660)	D
6/16/2025 6:00	20.200 (808)	242.600 (9704)	241.900 (9676)	D
6/16/2025 6:05	20.175 (807)	242.200 (9688)	241.900 (9676)	D
6/16/2025 6:10	20.150 (806)	242.300 (9692)	241.300 (9652)	D
6/16/2025 6:15	20.125 (805)	242.000 (9680)	241.400 (9656)	D
6/16/2025 6:20	20.175 (807)	244.300 (9772)	241.700 (9668)	D
6/16/2025 6:25	20.375 (815)	244.600 (9784)	243.900 (9756)	D
6/16/2025 6:30	20.350 (814)	244.600 (9784)	244.000 (9760)	D
6/16/2025 6:35	20.350 (814)	244.400 (9776)	243.700 (9748)	D
6/16/2025 6:40	20.325 (813)	244.300 (9772)	243.700 (9748)	D
6/16/2025 6:45	20.250 (810)	244.100 (9764)	242.500 (9700)	D
6/16/2025 6:50	20.300 (812)	244.000 (9760)	242.700 (9708)	D
6/16/2025 6:55	20.300 (812)	243.700 (9748)	243.300 (9732)	D
6/16/2025 7:00	20.275 (811)	243.800 (9752)	242.600 (9704)	D
6/16/2025 7:05	20.275 (811)	243.700 (9748)	243.200 (9728)	D
6/16/2025 7:10	20.275 (811)	243.500 (9740)	242.600 (9704)	D
6/16/2025 7:15	20.250 (810)	243.500 (9740)	242.600 (9704)	D
6/16/2025 7:20	20.250 (810)	243.300 (9732)	242.900 (9716)	D
6/16/2025 7:25	20.300 (812)	243.700 (9748)	242.800 (9712)	D

6/16/2025 7:30	20.250 (810)	243.600 (9744)	242.800 (9712)	D
6/16/2025 7:35	20.250 (810)	243.300 (9732)	242.700 (9708)	D
6/16/2025 7:40	20.250 (810)	243.200 (9728)	242.100 (9684)	D
6/16/2025 7:45	20.150 (806)	242.600 (9704)	241.300 (9652)	D
6/16/2025 7:50	20.125 (805)	241.900 (9676)	241.500 (9660)	D
6/16/2025 7:55	20.150 (806)	242.000 (9680)	241.300 (9652)	D
6/16/2025 8:00	20.150 (806)	242.200 (9688)	241.400 (9656)	D
6/16/2025 8:05	20.150 (806)	242.300 (9692)	241.000 (9640)	D
6/16/2025 8:10	20.100 (804)	241.400 (9656)	240.600 (9624)	D
6/16/2025 8:15	20.175 (807)	242.900 (9716)	240.800 (9632)	D
6/16/2025 8:20	20.225 (809)	243.200 (9728)	242.500 (9700)	D
6/16/2025 8:25	20.250 (810)	243.200 (9728)	242.500 (9700)	D
6/16/2025 8:30	20.225 (809)	242.900 (9716)	242.200 (9688)	D
6/16/2025 8:35	20.200 (808)	242.900 (9716)	242.100 (9684)	D
6/16/2025 8:40	20.200 (808)	242.800 (9712)	242.000 (9680)	D
6/16/2025 8:45	20.175 (807)	242.600 (9704)	241.900 (9676)	D
6/16/2025 8:50	20.175 (807)	242.600 (9704)	241.600 (9664)	D
6/16/2025 8:55	20.200 (808)	242.700 (9708)	242.000 (9680)	D
6/16/2025 9:00	20.200 (808)	242.700 (9708)	241.700 (9668)	D
6/16/2025 9:05	20.050 (802)	242.200 (9688)	239.600 (9584)	D
6/16/2025 9:10	20.050 (802)	241.600 (9664)	239.700 (9588)	D
6/16/2025 9:15	20.125 (805)	241.800 (9672)	241.300 (9652)	D
6/16/2025 9:20	20.125 (805)	241.700 (9668)	241.000 (9640)	D
6/16/2025 9:25	20.225 (809)	244.100 (9764)	241.300 (9652)	D
6/16/2025 9:30	20.300 (812)	244.100 (9764)	242.100 (9684)	D
6/16/2025 9:35	20.225 (809)	243.100 (9724)	242.100 (9684)	D
6/16/2025 9:40	20.225 (809)	243.100 (9724)	242.400 (9696)	D
6/16/2025 9:45	20.175 (807)	242.900 (9716)	241.500 (9660)	D
6/16/2025 9:50	20.175 (807)	242.500 (9700)	241.900 (9676)	D
6/16/2025 9:55	20.225 (809)	242.800 (9712)	242.300 (9692)	D
6/16/2025 10:00	20.175 (807)	243.000 (9720)	241.600 (9664)	D
6/16/2025 10:05	20.300 (812)	243.800 (9752)	242.900 (9716)	D

6/16/2025 10:10	20.175 (807)	243.500 (9740)	241.100 (9644)	D
6/16/2025 10:15	20.075 (803)	241.500 (9660)	240.000 (9600)	D
6/16/2025 10:20	20.125 (805)	241.800 (9672)	241.200 (9648)	D
6/16/2025 10:25	20.150 (806)	242.100 (9684)	241.300 (9652)	D
6/16/2025 10:30	20.175 (807)	242.500 (9700)	241.300 (9652)	D
6/16/2025 10:35	20.175 (807)	242.500 (9700)	240.800 (9632)	D
6/16/2025 10:40	20.075 (803)	241.200 (9648)	239.900 (9596)	D
6/16/2025 10:45	20.075 (803)	241.100 (9644)	240.600 (9624)	D
6/16/2025 10:50	20.050 (802)	241.000 (9640)	240.300 (9612)	D
6/16/2025 10:55	20.050 (802)	240.900 (9636)	240.000 (9600)	D
6/16/2025 11:00	20.125 (805)	241.900 (9676)	240.400 (9616)	D
6/16/2025 11:05	20.100 (804)	242.000 (9680)	240.300 (9612)	D
6/16/2025 11:10	19.975 (799)	240.900 (9636)	239.100 (9564)	D
6/16/2025 11:15	19.950 (798)	239.900 (9596)	238.500 (9540)	D
6/16/2025 11:20	20.175 (807)	243.500 (9740)	238.600 (9544)	D
6/16/2025 11:25	20.250 (810)	243.400 (9736)	242.400 (9696)	D
6/16/2025 11:30	20.300 (812)	244.100 (9764)	242.500 (9700)	D
6/16/2025 11:35	20.275 (811)	244.200 (9768)	242.600 (9704)	D
6/16/2025 11:40	20.175 (807)	243.000 (9720)	241.100 (9644)	D
6/16/2025 11:45	20.200 (808)	242.600 (9704)	241.900 (9676)	D
6/16/2025 11:50	20.150 (806)	242.300 (9692)	241.200 (9648)	D
6/16/2025 11:55	20.300 (812)	244.300 (9772)	241.900 (9676)	D
6/16/2025 12:00	20.300 (812)	244.200 (9768)	243.200 (9728)	D
6/16/2025 12:05	20.250 (810)	244.100 (9764)	242.400 (9696)	D
6/16/2025 12:10	20.225 (809)	243.200 (9728)	242.100 (9684)	D
6/16/2025 12:15	20.200 (808)	242.600 (9704)	241.800 (9672)	D
6/16/2025 12:20	20.250 (810)	243.600 (9744)	242.100 (9684)	D
6/16/2025 12:25	20.225 (809)	243.300 (9732)	241.600 (9664)	D
6/16/2025 12:30	20.175 (807)	242.500 (9700)	241.600 (9664)	D
6/16/2025 12:35	20.150 (806)	242.400 (9696)	240.600 (9624)	D
6/16/2025 12:40	20.100 (804)	241.500 (9660)	240.800 (9632)	D
6/16/2025 12:45	20.125 (805)	242.300 (9692)	241.200 (9648)	D

6/16/2025 12:50	20.175 (807)	242.200 (9688)	241.600 (9664)	D
6/16/2025 12:55	20.100 (804)	242.300 (9692)	240.300 (9612)	D
6/16/2025 13:00	20.050 (802)	241.300 (9652)	239.900 (9596)	D
6/16/2025 13:05	20.050 (802)	241.500 (9660)	240.200 (9608)	D
6/16/2025 13:10	20.125 (805)	241.700 (9668)	240.500 (9620)	D
6/16/2025 13:15	20.000 (800)	240.800 (9632)	239.100 (9564)	D
6/16/2025 13:20	20.075 (803)	241.400 (9656)	240.100 (9604)	D
6/16/2025 13:25	20.050 (802)	241.200 (9648)	240.100 (9604)	D
6/16/2025 13:30	20.075 (803)	241.100 (9644)	240.300 (9612)	D
6/16/2025 13:35	20.075 (803)	241.500 (9660)	239.900 (9596)	D
6/16/2025 13:40	20.050 (802)	241.000 (9640)	240.300 (9612)	D
6/16/2025 13:45	20.075 (803)	241.200 (9648)	240.400 (9616)	D
6/16/2025 13:50	20.075 (803)	241.100 (9644)	239.700 (9588)	D
6/16/2025 13:55	20.025 (801)	240.900 (9636)	240.100 (9604)	D
6/16/2025 14:00	20.025 (801)	240.700 (9628)	239.800 (9592)	D
6/16/2025 14:05	20.075 (803)	241.500 (9660)	240.000 (9600)	D
6/16/2025 14:10	20.050 (802)	240.900 (9636)	240.300 (9612)	D
6/16/2025 14:15	20.075 (803)	241.800 (9672)	239.900 (9596)	D
6/16/2025 14:20	20.100 (804)	242.400 (9696)	240.400 (9616)	D
6/16/2025 14:25	20.050 (802)	240.900 (9636)	240.100 (9604)	D
6/16/2025 14:30	20.050 (802)	241.000 (9640)	240.100 (9604)	D
6/16/2025 14:35	20.050 (802)	241.100 (9644)	239.600 (9584)	D
6/16/2025 14:40	19.975 (799)	240.300 (9612)	239.200 (9568)	D
6/16/2025 14:45	20.025 (801)	241.000 (9640)	239.800 (9592)	D
6/16/2025 14:50	20.050 (802)	241.000 (9640)	240.000 (9600)	D
6/16/2025 14:55	20.075 (803)	241.000 (9640)	240.300 (9612)	D
6/16/2025 15:00	20.025 (801)	240.900 (9636)	239.600 (9584)	D
6/16/2025 15:05	20.000 (800)	240.400 (9616)	239.800 (9592)	D
6/16/2025 15:10	20.025 (801)	240.800 (9632)	240.000 (9600)	D
6/16/2025 15:15	20.075 (803)	240.900 (9636)	239.900 (9596)	D
6/16/2025 15:20	20.025 (801)	241.000 (9640)	240.200 (9608)	D
6/16/2025 15:25	20.125 (805)	242.000 (9680)	240.400 (9616)	D

6/16/2025 15:30	20.075 (803)	242.000 (9680)	240.200 (9608)	D
6/16/2025 15:35	20.050 (802)	241.000 (9640)	240.100 (9604)	D
6/16/2025 15:40	20.025 (801)	241.000 (9640)	240.100 (9604)	D
6/16/2025 15:45	20.000 (800)	240.500 (9620)	239.200 (9568)	D
6/16/2025 15:50	20.050 (802)	240.700 (9628)	240.000 (9600)	D
6/16/2025 15:55	20.050 (802)	240.900 (9636)	240.000 (9600)	D
6/16/2025 16:00	20.000 (800)	240.600 (9624)	239.700 (9588)	D
6/16/2025 16:05	20.050 (802)	242.700 (9708)	239.900 (9596)	D
6/16/2025 16:10	20.000 (800)	240.600 (9624)	239.800 (9592)	D
6/16/2025 16:15	20.000 (800)	240.600 (9624)	239.400 (9576)	D
6/16/2025 16:20	20.000 (800)	240.300 (9612)	239.700 (9588)	D
6/16/2025 16:25	19.975 (799)	240.100 (9604)	238.600 (9544)	D
6/16/2025 16:30	20.000 (800)	240.500 (9620)	239.500 (9580)	D
6/16/2025 16:35	20.025 (801)	241.000 (9640)	240.200 (9608)	D
6/16/2025 16:40	20.050 (802)	240.800 (9632)	240.000 (9600)	D
6/16/2025 16:45	19.975 (799)	240.200 (9608)	239.300 (9572)	D
6/16/2025 16:50	19.975 (799)	240.200 (9608)	239.300 (9572)	D
6/16/2025 16:55	20.025 (801)	240.600 (9624)	239.600 (9584)	D
6/16/2025 17:00	20.025 (801)	240.800 (9632)	240.200 (9608)	D
6/16/2025 17:05	20.050 (802)	240.700 (9628)	239.700 (9588)	D
6/16/2025 17:10	19.975 (799)	240.100 (9604)	239.600 (9584)	D
6/16/2025 17:15	20.000 (800)	240.400 (9616)	239.700 (9588)	D
6/16/2025 17:20	20.025 (801)	240.700 (9628)	239.900 (9596)	D
6/16/2025 17:25	20.025 (801)	240.500 (9620)	239.800 (9592)	D
6/16/2025 17:30	20.025 (801)	240.600 (9624)	239.900 (9596)	D
6/16/2025 17:35	20.075 (803)	241.900 (9676)	240.500 (9620)	D
6/16/2025 17:40	20.075 (803)	241.600 (9664)	240.400 (9616)	D
6/16/2025 17:45	20.050 (802)	241.000 (9640)	240.000 (9600)	D
6/16/2025 17:50	20.100 (804)	242.300 (9692)	240.900 (9636)	D
6/16/2025 17:55	20.150 (806)	242.300 (9692)	241.700 (9668)	D
6/16/2025 18:00	20.075 (803)	242.200 (9688)	240.100 (9604)	D
6/16/2025 18:05	20.125 (805)	241.600 (9664)	240.700 (9628)	D

6/16/2025 18:10	20.075 (803)	241.700 (9668)	240.500 (9620)	D
6/16/2025 18:15	20.150 (806)	242.500 (9700)	241.400 (9656)	D
6/16/2025 18:20	20.200 (808)	242.600 (9704)	241.800 (9672)	D
6/16/2025 18:25	20.150 (806)	242.600 (9704)	241.200 (9648)	D
6/16/2025 18:30	20.100 (804)	241.500 (9660)	240.900 (9636)	D
6/16/2025 18:35	20.125 (805)	241.700 (9668)	241.000 (9640)	D
6/16/2025 18:40	20.175 (807)	243.500 (9740)	241.500 (9660)	D
6/16/2025 18:45	20.275 (811)	243.500 (9740)	242.900 (9716)	D
6/16/2025 18:50	20.175 (807)	243.200 (9728)	241.300 (9652)	D
6/16/2025 18:55	20.125 (805)	242.000 (9680)	241.000 (9640)	D
6/16/2025 19:00	20.150 (806)	242.200 (9688)	241.400 (9656)	D
6/16/2025 19:05	20.150 (806)	242.000 (9680)	240.900 (9636)	D
6/16/2025 19:10	20.150 (806)	243.200 (9728)	241.000 (9640)	D
6/16/2025 19:15	20.300 (812)	244.100 (9764)	243.100 (9724)	D
6/16/2025 19:20	20.225 (809)	243.800 (9752)	242.200 (9688)	D
6/16/2025 19:25	20.225 (809)	243.200 (9728)	242.300 (9692)	D
6/16/2025 19:30	20.300 (812)	243.800 (9752)	242.900 (9716)	D
6/16/2025 19:35	20.275 (811)	244.000 (9760)	242.900 (9716)	D
6/16/2025 19:40	20.325 (813)	244.300 (9772)	242.600 (9704)	D
6/16/2025 19:45	20.250 (810)	243.900 (9756)	242.200 (9688)	D
6/16/2025 19:50	20.250 (810)	243.700 (9748)	241.400 (9656)	D
6/16/2025 19:55	20.150 (806)	242.300 (9692)	241.400 (9656)	D
6/16/2025 20:00	20.175 (807)	242.800 (9712)	241.500 (9660)	D
6/16/2025 20:05	20.200 (808)	243.000 (9720)	242.000 (9680)	D
6/16/2025 20:10	20.150 (806)	243.000 (9720)	241.200 (9648)	D
6/16/2025 20:15	20.150 (806)	242.400 (9696)	241.500 (9660)	D
6/16/2025 20:20	20.200 (808)	242.700 (9708)	241.300 (9652)	D
6/16/2025 20:25	20.225 (809)	243.100 (9724)	242.200 (9688)	D
6/16/2025 20:30	20.200 (808)	243.000 (9720)	241.400 (9656)	D
6/16/2025 20:35	20.150 (806)	242.200 (9688)	241.300 (9652)	D
6/16/2025 20:40	20.150 (806)	242.300 (9692)	241.400 (9656)	D
6/16/2025 20:45	20.250 (810)	243.600 (9744)	241.900 (9676)	D

6/16/2025 20:50	20.275 (811)	243.700 (9748)	242.800 (9712)	D
6/16/2025 20:55	20.225 (809)	243.400 (9736)	242.000 (9680)	D
6/16/2025 21:00	20.200 (808)	242.700 (9708)	241.400 (9656)	D
6/16/2025 21:05	20.150 (806)	242.900 (9716)	241.200 (9648)	D
6/16/2025 21:10	20.275 (811)	243.700 (9748)	242.500 (9700)	D
6/16/2025 21:15	20.250 (810)	243.600 (9744)	242.100 (9684)	D
6/16/2025 21:20	20.250 (810)	243.100 (9724)	242.700 (9708)	D
6/16/2025 21:25	20.200 (808)	243.000 (9720)	240.600 (9624)	D
6/16/2025 21:30	20.250 (810)	243.300 (9732)	242.700 (9708)	D
6/16/2025 21:35	20.325 (813)	244.600 (9784)	243.300 (9732)	D
6/16/2025 21:40	20.275 (811)	244.400 (9776)	242.900 (9716)	D
6/16/2025 21:45	20.275 (811)	244.100 (9764)	242.900 (9716)	D
6/16/2025 21:50	20.325 (813)	244.200 (9768)	243.600 (9744)	D
6/16/2025 21:55	20.325 (813)	244.200 (9768)	243.400 (9736)	D
6/16/2025 22:00	20.325 (813)	244.400 (9776)	243.200 (9728)	D
6/16/2025 22:05	20.250 (810)	243.700 (9748)	242.300 (9692)	D
6/16/2025 22:10	20.300 (812)	244.400 (9776)	242.700 (9708)	D
6/16/2025 22:15	20.300 (812)	244.100 (9764)	243.300 (9732)	D
6/16/2025 22:20	20.325 (813)	244.200 (9768)	243.700 (9748)	D
6/16/2025 22:25	20.275 (811)	244.100 (9764)	242.800 (9712)	D
6/16/2025 22:30	20.125 (805)	243.500 (9740)	240.900 (9636)	D
6/16/2025 22:35	20.150 (806)	242.100 (9684)	241.000 (9640)	D
6/16/2025 22:40	20.200 (808)	242.900 (9716)	241.600 (9664)	D
6/16/2025 22:45	20.150 (806)	242.700 (9708)	241.300 (9652)	D
6/16/2025 22:50	20.000 (800)	242.000 (9680)	237.600 (9504)	D
6/16/2025 22:55	19.875 (795)	239.300 (9572)	237.600 (9504)	D
6/16/2025 23:00	19.900 (796)	239.600 (9584)	238.500 (9540)	D
6/16/2025 23:05	19.975 (799)	239.800 (9592)	239.200 (9568)	D
6/16/2025 23:10	19.900 (796)	239.500 (9580)	238.200 (9528)	D
6/16/2025 23:15	19.875 (795)	239.500 (9580)	238.000 (9520)	D
6/16/2025 23:20	19.975 (799)	239.800 (9592)	239.200 (9568)	D
6/16/2025 23:25	19.975 (799)	240.100 (9604)	239.200 (9568)	D

6/16/2025 23:30	19.950 (798)	240.100 (9604)	238.700 (9548)	D
6/16/2025 23:35	19.925 (797)	239.200 (9568)	238.200 (9528)	D
6/16/2025 23:40	19.950 (798)	241.200 (9648)	238.400 (9536)	D
6/16/2025 23:45	20.100 (804)	241.300 (9652)	240.900 (9636)	D
6/16/2025 23:50	20.100 (804)	241.600 (9664)	241.000 (9640)	D
6/16/2025 23:55	20.075 (803)	241.500 (9660)	240.000 (9600)	D
6/17/2025 0:00	20.050 (802)	241.000 (9640)	240.300 (9612)	D

KY Polyphase AMI Meter
Interactive Read Time 6/17/2025 15:20
Time Zone (UTC-05:00) Eastern Time (US & Canada)
Requested Time Span 6/16/2025 12:00:00 AM - 6/17/2025 12:00:00 AM

Voltage Monitoring Intervals

Interval End Date/Time	Vh(a) Scaled(Raw)	max V(a) Scaled(Raw)	min V(a) Scaled(Raw)	Vh(b) Scaled(Raw)	max V(b) Scaled(Raw)	min V(b) Scaled(Raw)	Vh(c) Scaled(Raw)	max V(c) Scaled(Raw)	min V(c) Scaled(Raw)	Status
6/16/2025 0:05	10.425 (417)	125.175 (5007)	124.900 (4996)	10.425 (417)	125.075 (5003)	124.800 (4992)	10.375 (415)	124.275 (4971)	124.000 (4960)	D
6/16/2025 0:10	10.450 (418)	125.325 (5013)	125.050 (5002)	10.425 (417)	125.150 (5006)	124.800 (4992)	10.400 (416)	124.400 (4995)	124.125 (4965)	D
6/16/2025 0:15	10.425 (417)	125.375 (5015)	125.100 (5004)	10.425 (417)	125.225 (5009)	124.950 (4998)	10.350 (414)	124.450 (4978)	124.175 (4967)	D
6/16/2025 0:20	10.450 (418)	125.425 (5017)	125.100 (5004)	10.425 (417)	125.350 (5014)	125.000 (5000)	10.450 (418)	124.500 (4980)	124.200 (4968)	D
6/16/2025 0:25	10.425 (417)	125.400 (5016)	125.075 (5003)	10.425 (417)	125.300 (5012)	124.900 (4996)	10.250 (410)	124.475 (4979)	124.125 (4965)	D
6/16/2025 0:30	10.450 (418)	125.375 (5015)	125.125 (5005)	10.425 (417)	125.250 (5010)	125.000 (5000)	10.350 (414)	124.375 (4975)	124.150 (4966)	D
6/16/2025 0:35	10.425 (417)	125.450 (5018)	125.150 (5006)	10.425 (417)	125.300 (5012)	125.025 (5001)	10.400 (416)	124.500 (4980)	124.275 (4971)	D
6/16/2025 0:40	10.450 (418)	125.450 (5018)	125.175 (5007)	10.450 (418)	125.350 (5014)	125.025 (5001)	10.375 (415)	124.550 (4982)	124.225 (4969)	D
6/16/2025 0:45	10.450 (418)	125.450 (5018)	125.050 (5002)	10.425 (417)	125.375 (5015)	124.975 (4999)	10.325 (413)	124.500 (4980)	124.100 (4964)	D
6/16/2025 0:50	10.425 (417)	125.375 (5015)	125.125 (5005)	10.425 (417)	125.300 (5012)	125.025 (5001)	10.375 (415)	124.475 (4979)	124.175 (4967)	D
6/16/2025 0:55	10.450 (418)	125.525 (5021)	125.050 (5002)	10.450 (418)	125.350 (5014)	124.950 (4998)	10.350 (414)	124.550 (4982)	124.150 (4966)	D
6/16/2025 1:00	10.450 (418)	125.525 (5021)	125.300 (5012)	10.425 (417)	125.375 (5015)	125.150 (5006)	10.350 (414)	124.550 (4982)	124.375 (4975)	D
6/16/2025 1:05	10.450 (418)	125.475 (5019)	125.225 (5009)	10.450 (418)	125.375 (5015)	125.100 (5004)	10.400 (416)	124.500 (4980)	124.325 (4973)	D
6/16/2025 1:10	10.450 (418)	125.575 (5023)	125.200 (5008)	10.425 (417)	125.425 (5017)	125.025 (5001)	10.325 (413)	124.575 (4983)	124.225 (4969)	D
6/16/2025 1:15	10.450 (418)	125.425 (5017)	125.100 (5004)	10.450 (418)	125.275 (5011)	124.900 (4996)	10.400 (416)	124.550 (4982)	124.175 (4967)	D
6/16/2025 1:20	10.450 (418)	125.550 (5022)	125.200 (5008)	10.425 (417)	125.500 (5020)	125.075 (5003)	10.425 (417)	124.625 (4985)	124.325 (4973)	D
6/16/2025 1:25	10.450 (418)	125.700 (5028)	125.275 (5011)	10.450 (418)	125.525 (5021)	125.200 (5008)	10.425 (417)	124.700 (4988)	124.350 (4974)	D
6/16/2025 1:30	10.475 (419)	125.725 (5029)	125.425 (5017)	10.450 (418)	125.550 (5022)	125.275 (5011)	10.350 (414)	124.725 (4989)	124.450 (4978)	D
6/16/2025 1:35	10.450 (418)	125.650 (5026)	125.200 (5008)	10.450 (418)	125.425 (5017)	125.000 (5000)	10.375 (415)	124.650 (4986)	124.300 (4972)	D
6/16/2025 1:40	10.350 (414)	125.475 (5019)	122.925 (4917)	10.350 (414)	125.325 (5013)	122.850 (4914)	10.225 (409)	124.550 (4982)	122.175 (4887)	D
6/16/2025 1:45	10.275 (411)	123.375 (4935)	123.000 (4920)	10.250 (410)	123.350 (4934)	122.925 (4917)	10.200 (408)	122.500 (4900)	122.225 (4889)	D
6/16/2025 1:50	10.275 (411)	123.375 (4935)	123.100 (4924)	10.275 (411)	123.300 (4932)	122.975 (4919)	10.200 (408)	122.500 (4900)	122.250 (4890)	D
6/16/2025 1:55	10.275 (411)	123.425 (4937)	123.100 (4924)	10.250 (410)	123.275 (4931)	122.925 (4917)	10.275 (411)	122.550 (4902)	122.275 (4891)	D
6/16/2025 2:00	10.275 (411)	123.350 (4934)	123.050 (4922)	10.275 (411)	123.375 (4935)	123.000 (4920)	10.200 (408)	122.575 (4903)	122.300 (4892)	D
6/16/2025 2:05	10.275 (411)	123.375 (4935)	123.050 (4922)	10.275 (411)	123.400 (4936)	123.000 (4920)	10.225 (409)	122.600 (4904)	122.250 (4890)	D
6/16/2025 2:10	10.275 (411)	123.500 (4940)	123.075 (4923)	10.275 (411)	123.375 (4935)	123.100 (4924)	10.150 (406)	122.625 (4905)	122.325 (4893)	D
6/16/2025 2:15	10.275 (411)	123.425 (4937)	123.075 (4923)	10.275 (411)	123.400 (4936)	123.025 (4921)	10.225 (409)	122.625 (4905)	122.325 (4893)	D
6/16/2025 2:20	10.275 (411)	123.375 (4935)	123.050 (4922)	10.250 (410)	123.375 (4935)	123.000 (4920)	10.175 (407)	122.625 (4905)	122.300 (4892)	D
6/16/2025 2:25	10.275 (411)	123.450 (4938)	123.175 (4927)	10.275 (411)	123.450 (4938)	123.175 (4927)	10.250 (410)	122.675 (4907)	122.475 (4899)	D
6/16/2025 2:30	10.275 (411)	123.475 (4939)	123.125 (4925)	10.300 (412)	123.450 (4938)	123.100 (4924)	10.150 (406)	122.700 (4908)	122.425 (4897)	D
6/16/2025 2:35	10.300 (412)	123.500 (4940)	123.250 (4930)	10.275 (411)	123.425 (4937)	123.200 (4928)	10.200 (408)	122.750 (4910)	122.525 (4901)	D
6/16/2025 2:40	10.275 (411)	123.500 (4940)	123.225 (4929)	10.275 (411)	123.475 (4939)	123.225 (4929)	10.175 (407)	122.750 (4910)	122.500 (4900)	D
6/16/2025 2:45	10.275 (411)	123.550 (4942)	123.225 (4929)	10.300 (412)	123.500 (4940)	123.225 (4929)	10.200 (408)	122.800 (4912)	122.450 (4898)	D
6/16/2025 2:50	10.300 (412)	123.525 (4941)	123.250 (4930)	10.275 (411)	123.450 (4938)	123.200 (4928)	10.225 (409)	122.750 (4910)	122.475 (4899)	D
6/16/2025 2:55	10.275 (411)	123.525 (4941)	123.225 (4929)	10.275 (411)	123.475 (4939)	123.175 (4927)	10.250 (410)	122.800 (4912)	122.525 (4901)	D
6/16/2025 3:00	10.275 (411)	123.475 (4939)	123.125 (4925)	10.275 (411)	123.500 (4940)	123.175 (4927)	10.200 (408)	122.775 (4911)	122.425 (4897)	D
6/16/2025 3:05	10.275 (411)	123.375 (4935)	123.125 (4925)	10.275 (411)	123.400 (4936)	123.100 (4924)	10.175 (407)	122.625 (4905)	122.425 (4897)	D
6/16/2025 3:10	10.275 (411)	123.475 (4939)	123.225 (4929)	10.275 (411)	123.425 (4937)	123.175 (4927)	10.225 (409)	122.725 (4909)	122.475 (4899)	D
6/16/2025 3:15	10.300 (412)	123.525 (4941)	123.275 (4931)	10.275 (411)	123.475 (4939)	123.200 (4928)	10.300 (412)	122.775 (4911)	122.600 (4904)	D
6/16/2025 3:20	10.275 (411)	123.575 (4943)	123.225 (4929)	10.300 (412)	123.525 (4941)	123.225 (4929)	10.225 (409)	122.800 (4912)	122.525 (4901)	D
6/16/2025 3:25	10.275 (411)	123.600 (4944)	123.175 (4927)	10.275 (411)	123.525 (4941)	123.150 (4926)	10.225 (409)	122.800 (4912)	122.375 (4895)	D
6/16/2025 3:30	10.300 (412)	123.500 (4940)	123.225 (4929)	10.275 (411)	123.475 (4939)	123.175 (4927)	10.200 (408)	122.750 (4910)	122.475 (4899)	D
6/16/2025 3:35	10.275 (411)	123.600 (4944)	123.325 (4933)	10.300 (412)	123.575 (4943)	123.275 (4931)	10.200 (408)	122.850 (4914)	122.600 (4904)	D
6/16/2025 3:40	10.300 (412)	123.525 (4941)	123.225 (4929)	10.275 (411)	123.525 (4941)	123.200 (4928)	10.300 (412)	122.775 (4911)	122.550 (4902)	D
6/16/2025 3:45	10.275 (411)	123.475 (4939)	123.200 (4928)	10.300 (412)	123.525 (4941)	123.225 (4929)	10.200 (408)	122.725 (4909)	122.475 (4899)	D
6/16/2025 3:50	10.275 (411)	123.500 (4940)	123.225 (4929)	10.275 (411)	123.525 (4941)	123.200 (4928)	10.275 (411)	122.775 (4911)	122.575 (4903)	D
6/16/2025 3:55	10.275 (411)	123.500 (4940)	123.250 (4930)	10.275 (411)	123.500 (4940)	123.250 (4930)	10.250 (410)	122.800 (4912)	122.550 (4902)	D
6/16/2025 4:00	10.300 (412)	123.575 (4943)	123.175 (4927)	10.300 (412)	123.575 (4943)	123.225 (4929)	10.225 (409)	122.950 (4918)	122.600 (4904)	D
6/16/2025 4:05	10.275 (411)	123.550 (4942)	123.200 (4928)	10.275 (411)	123.550 (4942)	123.225 (4929)	10.275 (411)	122.800 (4912)	122.500 (4900)	D
6/16/2025 4:10	10.275 (411)	123.500 (4940)	123.225 (4929)	10.275 (411)	123.525 (4941)	123.200 (4928)	10.200 (408)	122.775 (4911)	122.500 (4900)	D
6/16/2025 4:15	10.300 (412)	123.550 (4942)	123.250 (4930)	10.300 (412)	123.625 (4945)	123.250 (4930)	10.225 (409)	122.875 (4915)	122.550 (4902)	D
6/16/2025 4:20	10.275 (411)	123.525 (4941)	123.225 (4929)	10.275 (411)	123.550 (4942)	123.250 (4930)	10.225 (409)	122.850 (4914)	122.600 (4904)	D
6/16/2025 4:25	10.300 (412)	123.575 (4943)	123.350 (4934)	10.300 (412)	123.575 (4943)	123.350 (4934)	10.250 (410)	122.875 (4915)	122.625 (4899)	D
6/16/2025 4:30	10.275 (411)	123.575 (4943)	123.200 (4928)	10.275 (411)	123.525 (4941)	123.200 (4928)	10.200 (408)	122.825 (4913)	122.500 (4900)	D
6/16/2025 4:35	10.275 (411)	123.450 (4938)	123.275 (4931)	10.300 (412)	123.475 (4939)	123.300 (4932)	10.250 (410)	122.750 (4910)	122.575 (4903)	D
6/16/2025 4:40	10.300 (412)	123.500 (4940)	123.225 (4929)	10.275 (411)	123.525 (4941)	123.250 (4930)	10.250 (410)	122.750 (4910)	122.525 (4901)	D
6/16/2025 4:45	10.275 (411)	123.375 (4935)	123.125 (4925)	10.275 (411)	123.400 (4936)	123.175 (4927)	10.200 (408)	122.700 (4908)	122.475 (4899)	D
6/16/2025 4:50	10.275 (411)	123.475 (4939)	123.100 (4924)	10.275 (411)	123.500 (4940)	123.125 (4925)	10.175 (407)	122.775 (4911)	122.425 (4897)	D
6/16/2025 4:55	10.275 (411)	123.375 (4935)	122.975 (4919)	10.275 (411)	123.375 (4935)	122.950 (4918)	10.250 (410)	122.675 (4907)	122.250 (4890)	D
6/16/2025 5:00	10.275 (411)	123.450 (4938)	123.200 (4928)	10.275 (411)	123.525 (4941)	123.250 (4930)	10.150 (406)	122.675 (4907)	122.450 (4898)	D
6/16/2025 5:05	10.250 (410)	123.300 (4932)	123.075 (4923)	10.275 (411)	123.350 (4934)	123.075 (4923)	10.125 (405)	122.575 (4903)	122.350 (4894)	D

6/16/2025 5:10	10.250 (410)	123.225 (4929)	122.750 (4910)	10.250 (410)	123.200 (4928)	122.850 (4914)	10.175 (407)	122.500 (4900)	122.100 (4884)	D
6/16/2025 5:15	10.250 (410)	123.175 (4927)	122.800 (4912)	10.250 (410)	123.125 (4925)	122.875 (4915)	10.200 (408)	122.500 (4900)	122.200 (4888)	D
6/16/2025 5:20	10.250 (410)	123.175 (4927)	122.825 (4913)	10.250 (410)	123.150 (4926)	122.825 (4913)	10.200 (408)	122.500 (4900)	122.175 (4887)	D
6/16/2025 5:25	10.250 (410)	123.125 (4925)	122.775 (4911)	10.250 (410)	123.075 (4923)	122.675 (4907)	10.175 (407)	122.375 (4895)	122.050 (4882)	D
6/16/2025 5:30	10.275 (411)	123.225 (4929)	122.825 (4913)	10.250 (410)	123.175 (4927)	122.825 (4913)	10.250 (410)	122.475 (4899)	122.150 (4886)	D
6/16/2025 5:35	10.225 (409)	123.225 (4929)	122.650 (4906)	10.250 (410)	123.200 (4928)	122.700 (4908)	10.125 (405)	122.425 (4897)	122.000 (4880)	D
6/16/2025 5:40	10.275 (411)	123.250 (4930)	122.925 (4917)	10.250 (410)	123.250 (4930)	122.925 (4917)	10.175 (407)	122.500 (4900)	122.200 (4888)	D
6/16/2025 5:45	10.250 (410)	123.075 (4923)	122.675 (4907)	10.250 (410)	123.075 (4923)	122.650 (4906)	10.175 (407)	122.375 (4895)	122.025 (4881)	D
6/16/2025 5:50	10.225 (409)	123.100 (4924)	122.675 (4907)	10.250 (410)	123.075 (4923)	122.650 (4906)	10.125 (405)	122.375 (4895)	121.975 (4879)	D
6/16/2025 5:55	10.325 (413)	125.525 (5021)	122.775 (4911)	10.300 (412)	125.375 (5015)	122.750 (4911)	10.225 (409)	124.550 (4982)	122.075 (4883)	D
6/16/2025 6:00	10.450 (418)	125.400 (5016)	124.900 (4996)	10.425 (417)	125.275 (5011)	124.800 (4992)	10.400 (416)	124.475 (4979)	124.075 (4963)	D
6/16/2025 6:05	10.400 (416)	125.150 (5006)	124.800 (4992)	10.425 (417)	125.050 (5002)	124.600 (4984)	10.350 (414)	124.325 (4973)	123.950 (4958)	D
6/16/2025 6:10	10.425 (417)	125.125 (5005)	124.775 (4991)	10.400 (416)	125.050 (5002)	124.525 (4981)	10.400 (416)	124.325 (4973)	123.875 (4955)	D
6/16/2025 6:15	10.400 (416)	125.150 (5006)	124.700 (4988)	10.375 (415)	124.875 (4995)	124.450 (4978)	10.275 (411)	124.175 (4967)	123.825 (4953)	D
6/16/2025 6:20	10.425 (417)	125.175 (5007)	124.850 (4994)	10.400 (416)	124.900 (4998)	124.600 (4984)	10.350 (414)	124.225 (4969)	123.925 (4957)	D
6/16/2025 6:25	10.425 (417)	125.150 (5006)	124.825 (4993)	10.400 (416)	125.000 (5000)	124.625 (4985)	10.300 (412)	124.200 (4968)	123.900 (4956)	D
6/16/2025 6:30	10.400 (416)	125.125 (5005)	124.675 (4987)	10.400 (416)	124.950 (4998)	124.475 (4979)	10.325 (413)	124.200 (4968)	123.775 (4951)	D
6/16/2025 6:35	10.425 (417)	125.150 (5006)	124.650 (4986)	10.400 (416)	124.975 (4999)	124.400 (4976)	10.350 (414)	124.225 (4969)	123.775 (4951)	D
6/16/2025 6:40	10.425 (417)	125.150 (5006)	124.900 (4996)	10.400 (416)	124.975 (4999)	124.750 (4990)	10.275 (411)	124.325 (4973)	124.025 (4961)	D
6/16/2025 6:45	10.400 (416)	125.150 (5006)	124.775 (4991)	10.400 (416)	125.000 (5000)	124.625 (4985)	10.400 (416)	124.325 (4973)	123.950 (4958)	D
6/16/2025 6:50	10.425 (417)	125.175 (5007)	124.650 (4986)	10.400 (416)	125.000 (5000)	124.475 (4979)	10.375 (415)	124.275 (4971)	123.800 (4952)	D
6/16/2025 6:55	10.375 (415)	124.900 (4996)	124.600 (4984)	10.375 (415)	124.675 (4987)	124.400 (4976)	10.300 (412)	124.100 (4964)	123.800 (4952)	D
6/16/2025 7:00	10.400 (416)	124.825 (4993)	124.575 (4983)	10.375 (415)	124.600 (4984)	124.300 (4972)	10.300 (412)	124.025 (4961)	123.700 (4948)	D
6/16/2025 7:05	10.375 (415)	124.700 (4988)	124.475 (4979)	10.375 (415)	124.500 (4980)	124.250 (4970)	10.350 (414)	123.900 (4956)	123.650 (4946)	D
6/16/2025 7:10	10.400 (416)	124.650 (4986)	124.400 (4976)	10.350 (414)	124.400 (4976)	124.150 (4966)	10.350 (414)	123.825 (4954)	123.600 (4944)	D
6/16/2025 7:15	10.350 (414)	124.575 (4983)	124.225 (4969)	10.350 (414)	124.400 (4976)	123.975 (4959)	10.300 (412)	123.800 (4952)	123.425 (4937)	D
6/16/2025 7:20	10.375 (415)	124.600 (4984)	124.325 (4973)	10.350 (414)	124.400 (4976)	124.075 (4963)	10.350 (414)	123.825 (4953)	123.500 (4940)	D
6/16/2025 7:25	10.375 (415)	124.475 (4979)	124.225 (4969)	10.350 (414)	124.325 (4973)	124.025 (4961)	10.300 (412)	123.650 (4946)	123.350 (4934)	D
6/16/2025 7:30	10.375 (415)	124.550 (4982)	124.175 (4967)	10.350 (414)	124.300 (4972)	124.025 (4961)	10.350 (414)	123.700 (4948)	123.350 (4934)	D
6/16/2025 7:35	10.350 (414)	124.500 (4980)	124.250 (4970)	10.350 (414)	124.300 (4972)	124.000 (4968)	10.275 (411)	123.700 (4948)	123.425 (4937)	D
6/16/2025 7:40	10.375 (415)	124.550 (4982)	124.175 (4967)	10.350 (414)	124.200 (4968)	123.875 (4955)	10.350 (414)	123.675 (4947)	123.325 (4933)	D
6/16/2025 7:45	10.350 (414)	124.400 (4976)	124.050 (4962)	10.325 (413)	124.175 (4967)	123.800 (4952)	10.275 (411)	123.575 (4943)	123.250 (4930)	D
6/16/2025 7:50	10.350 (414)	124.425 (4977)	123.950 (4958)	10.325 (413)	124.175 (4967)	123.750 (4950)	10.300 (412)	123.575 (4943)	123.200 (4928)	D
6/16/2025 7:55	10.325 (413)	124.225 (4969)	123.775 (4951)	10.325 (413)	124.000 (4960)	123.550 (4942)	10.250 (410)	123.475 (4939)	123.025 (4921)	D
6/16/2025 8:00	10.350 (414)	124.325 (4973)	123.950 (4958)	10.325 (413)	124.075 (4963)	123.700 (4948)	10.300 (412)	123.500 (4940)	123.150 (4926)	D
6/16/2025 8:05	10.350 (414)	124.350 (4974)	124.000 (4960)	10.325 (413)	124.150 (4966)	123.725 (4949)	10.325 (413)	123.500 (4940)	123.075 (4923)	D
6/16/2025 8:10	10.350 (414)	124.300 (4972)	123.975 (4959)	10.350 (414)	124.075 (4963)	123.775 (4951)	10.275 (411)	123.425 (4937)	123.125 (4925)	D
6/16/2025 8:15	10.350 (414)	124.300 (4972)	123.975 (4955)	10.325 (413)	124.150 (4966)	123.700 (4948)	10.250 (410)	123.500 (4940)	123.150 (4926)	D
6/16/2025 8:20	10.350 (414)	124.300 (4972)	123.950 (4958)	10.325 (413)	124.100 (4964)	123.800 (4952)	10.225 (409)	123.425 (4937)	123.150 (4926)	D
6/16/2025 8:25	10.325 (413)	124.175 (4967)	123.750 (4950)	10.325 (413)	124.050 (4962)	123.650 (4946)	10.250 (410)	123.375 (4935)	122.975 (4919)	D
6/16/2025 8:30	10.325 (413)	123.950 (4958)	123.625 (4945)	10.300 (412)	123.925 (4957)	123.525 (4941)	10.300 (412)	123.125 (4925)	122.775 (4911)	D
6/16/2025 8:35	10.300 (412)	123.900 (4956)	123.500 (4940)	10.300 (412)	123.775 (4951)	123.375 (4935)	10.125 (405)	123.100 (4924)	122.750 (4910)	D
6/16/2025 8:40	10.300 (412)	123.825 (4953)	123.525 (4941)	10.300 (412)	123.625 (4945)	123.275 (4931)	10.250 (410)	123.050 (4922)	122.775 (4911)	D
6/16/2025 8:45	10.325 (413)	123.825 (4953)	123.450 (4938)	10.300 (412)	123.675 (4947)	123.275 (4931)	10.250 (410)	123.025 (4921)	122.675 (4907)	D
6/16/2025 8:50	10.275 (411)	123.725 (4949)	123.225 (4929)	10.275 (411)	123.575 (4943)	123.000 (4920)	10.225 (409)	122.875 (4915)	122.375 (4895)	D
6/16/2025 8:55	10.300 (412)	123.625 (4945)	123.225 (4929)	10.275 (411)	123.475 (4939)	123.025 (4921)	10.275 (411)	122.875 (4915)	122.525 (4901)	D
6/16/2025 9:00	10.350 (414)	124.750 (4990)	123.350 (4934)	10.325 (413)	124.550 (4982)	123.175 (4927)	10.250 (410)	123.925 (4957)	122.600 (4904)	D
6/16/2025 9:05	10.375 (415)	124.700 (4988)	124.425 (4977)	10.375 (415)	124.550 (4982)	124.275 (4971)	10.350 (414)	123.875 (4955)	123.650 (4946)	D
6/16/2025 9:10	10.375 (415)	124.525 (4981)	124.250 (4970)	10.350 (414)	124.425 (4977)	124.075 (4963)	10.350 (414)	123.750 (4950)	123.400 (4936)	D
6/16/2025 9:15	10.350 (414)	124.550 (4982)	124.125 (4965)	10.350 (414)	124.425 (4977)	124.025 (4961)	10.275 (411)	123.800 (4952)	123.425 (4937)	D
6/16/2025 9:20	10.350 (414)	124.375 (4975)	123.950 (4958)	10.350 (414)	124.300 (4972)	123.875 (4955)	10.275 (411)	123.650 (4946)	123.275 (4931)	D
6/16/2025 9:25	10.350 (414)	124.300 (4972)	123.875 (4955)	10.325 (413)	124.275 (4971)	123.825 (4953)	10.275 (411)	123.575 (4943)	123.225 (4929)	D
6/16/2025 9:30	10.350 (414)	124.225 (4969)	123.875 (4955)	10.325 (413)	124.050 (4962)	123.825 (4953)	10.300 (412)	123.425 (4937)	123.150 (4926)	D
6/16/2025 9:35	10.325 (413)	124.275 (4971)	123.975 (4959)	10.350 (414)	124.050 (4962)	123.750 (4950)	10.300 (412)	123.525 (4941)	123.275 (4931)	D
6/16/2025 9:40	10.350 (414)	124.100 (4964)	123.725 (4949)	10.300 (412)	123.875 (4955)	123.525 (4941)	10.275 (411)	123.375 (4935)	123.000 (4920)	D
6/16/2025 9:45	10.300 (412)	123.950 (4958)	123.525 (4941)	10.300 (412)	123.775 (4951)	123.475 (4939)	10.275 (411)	123.275 (4931)	122.950 (4918)	D
6/16/2025 9:50	10.325 (413)	124.000 (4960)	123.575 (4943)	10.325 (413)	123.850 (4954)	123.525 (4941)	10.275 (411)	123.325 (4933)	123.000 (4920)	D
6/16/2025 9:55	10.325 (413)	124.075 (4963)	123.725 (4949)	10.300 (412)	123.925 (4957)	123.500 (4940)	10.275 (411)	123.350 (4934)	123.000 (4920)	D
6/16/2025 10:00	10.325 (413)	123.925 (4957)	123.550 (4942)	10.300 (412)	123.775 (4951)	123.400 (4936)	10.250 (410)	123.350 (4934)	122.925 (4917)	D
6/16/2025 10:05	10.300 (412)	123.775 (4951)	123.400 (4936)	10.300 (412)	123.625 (4945)	123.175 (4927)	10.250 (410)	123.125 (4925)	122.725 (4909)	D
6/16/2025 10:10	10.300 (412)	123.750 (4950)	123.400 (4936)	10.275 (411)	123.575 (4943)	123.200 (4928)	10.275 (411)	123.100 (4924)	122.800 (4912)	D
6/16/2025 10:15	10.300 (412)	123.725 (4949)	123.450 (4938)	10.275 (411)	123.625 (4945)	123.375 (4935)	10.225 (409)	123.075 (4923)	122.800 (4912)	D
6/16/2025 10:20	10.275 (411)	123.525 (4941)	123.225 (4929)	10.275 (411)	123.475 (4939)	123.150 (4926)	10.200 (408)	122.925 (4917)	122.550 (4902)	D
6/16/2025 10:25	10.300 (412)	123.325 (4933)	123.225 (4929)	10.300 (412)	123.625 (4945)	123.225 (4929)	10.300 (412)	123.100 (4924)	122.675 (4907)	D
6/16/2025 10:30	10.300 (412)	123.800 (4952)	123.450 (4938)	10.275 (411)	123.625 (4945)	123.250 (4930)	10.250 (410)	123.100 (4924)	122.750 (4910)	D
6/16/2025 10:35	10.300 (412)	123.575 (4943)	123.275 (4931)	10.275 (411)	123.450 (4938)	123.150 (4926)	10.275 (411)	122.950 (4918)	122.600 (4904)	D
6/16/2025 10:40	10.275 (411)	123.550 (4942)	123.200 (4928)	10.275 (411)	123.375 (4935)	123.050 (4922)	10.225 (409)	122.875 (4915)	122.550 (4902)	D
6/16/2025 10:45	10.275 (411)	123.450 (4938)	123.000 (4920)	10.250 (410)	123.325 (4933)	122.750 (4910)	10.275 (411)	122.825 (4913)	122.400 (4896)	D
6/16/2025 10:50	10.275 (411)	123.525 (4941)	123.025 (4921)	10.275 (411)	123.375 (4935)	122.825 (4913)	10.225 (409)	122.775 (4911)	122.425 (4897)	D

6/16/2025 10:55	10.275 (411)	123.475 (4939)	123.200 (4928)	10.250 (410)	123.325 (4933)	123.000 (4920)	10.250 (410)	122.775 (4911)	122.500 (4900)	D
6/16/2025 11:00	10.250 (410)	123.300 (4932)	122.825 (4913)	10.250 (410)	123.175 (4927)	122.650 (4905)	10.225 (409)	122.650 (4906)	122.150 (4886)	D
6/16/2025 11:05	10.275 (411)	123.300 (4932)	122.975 (4919)	10.250 (410)	123.125 (4925)	122.825 (4913)	10.225 (409)	122.675 (4907)	122.300 (4892)	D
6/16/2025 11:10	10.250 (410)	123.275 (4931)	122.775 (4911)	10.250 (410)	123.100 (4924)	122.600 (4904)	10.225 (409)	122.650 (4906)	122.125 (4885)	D
6/16/2025 11:15	10.225 (409)	123.025 (4921)	122.700 (4908)	10.225 (409)	122.875 (4915)	122.400 (4896)	10.200 (408)	122.375 (4895)	121.975 (4879)	D
6/16/2025 11:20	10.350 (414)	125.075 (5003)	122.700 (4908)	10.325 (413)	124.750 (4990)	122.450 (4898)	10.325 (413)	124.275 (4971)	121.975 (4879)	D
6/16/2025 11:25	10.425 (417)	124.100 (5004)	124.625 (4985)	10.375 (415)	124.775 (4991)	124.475 (4979)	10.425 (417)	124.200 (4968)	123.900 (4956)	D
6/16/2025 11:30	10.400 (416)	124.975 (4999)	124.525 (4981)	10.375 (415)	124.750 (4990)	124.375 (4975)	10.375 (415)	124.275 (4971)	123.825 (4953)	D
6/16/2025 11:35	10.400 (416)	124.975 (4999)	124.500 (4980)	10.375 (415)	124.725 (4989)	124.225 (4969)	10.350 (414)	124.250 (4970)	123.800 (4952)	D
6/16/2025 11:40	10.400 (416)	124.925 (4997)	124.550 (4982)	10.375 (415)	124.675 (4987)	124.125 (4970)	10.400 (416)	124.125 (4965)	123.750 (4950)	D
6/16/2025 11:45	10.400 (416)	125.000 (5000)	124.500 (4980)	10.400 (416)	124.800 (4992)	124.325 (4973)	10.350 (414)	124.200 (4968)	123.775 (4951)	D
6/16/2025 11:50	10.400 (416)	125.025 (5001)	124.525 (4981)	10.375 (415)	124.775 (4991)	124.275 (4971)	10.325 (413)	124.175 (4967)	123.750 (4950)	D
6/16/2025 11:55	10.400 (416)	125.150 (5006)	124.750 (4990)	10.375 (415)	124.825 (4993)	124.450 (4978)	10.325 (413)	124.325 (4973)	123.900 (4956)	D
6/16/2025 12:00	10.400 (416)	125.000 (5000)	124.550 (4982)	10.375 (415)	124.700 (4988)	124.250 (4970)	10.300 (412)	124.125 (4965)	123.750 (4950)	D
6/16/2025 12:05	10.400 (416)	124.875 (4995)	124.525 (4981)	10.375 (415)	124.600 (4984)	124.175 (4967)	10.350 (414)	124.125 (4965)	123.700 (4948)	D
6/16/2025 12:10	10.400 (416)	124.925 (4997)	124.650 (4986)	10.375 (415)	124.575 (4983)	124.300 (4972)	10.325 (413)	124.100 (4964)	123.850 (4954)	D
6/16/2025 12:15	10.400 (416)	124.975 (4999)	124.500 (4980)	10.375 (415)	124.600 (4984)	124.125 (4965)	10.350 (414)	124.125 (4965)	123.700 (4948)	D
6/16/2025 12:20	10.375 (415)	124.875 (4995)	124.475 (4979)	10.350 (414)	124.525 (4981)	124.150 (4966)	10.350 (414)	124.050 (4962)	123.575 (4943)	D
6/16/2025 12:25	10.400 (416)	124.875 (4995)	124.500 (4980)	10.375 (415)	124.550 (4982)	124.175 (4967)	10.300 (412)	124.025 (4961)	123.575 (4943)	D
6/16/2025 12:30	10.375 (415)	124.700 (4988)	124.300 (4972)	10.350 (414)	124.375 (4975)	123.975 (4959)	10.275 (411)	123.800 (4952)	123.375 (4935)	D
6/16/2025 12:35	10.375 (415)	124.625 (4985)	124.400 (4976)	10.350 (414)	124.300 (4972)	123.975 (4959)	10.300 (412)	123.850 (4954)	123.575 (4943)	D
6/16/2025 12:40	10.375 (415)	124.550 (4982)	124.125 (4965)	10.325 (413)	124.225 (4969)	123.875 (4955)	10.375 (415)	123.800 (4952)	123.350 (4934)	D
6/16/2025 12:45	10.350 (414)	124.550 (4982)	124.175 (4967)	10.350 (414)	124.275 (4971)	123.875 (4955)	10.300 (412)	123.725 (4949)	123.300 (4932)	D
6/16/2025 12:50	10.375 (415)	124.500 (4980)	124.175 (4967)	10.325 (413)	124.175 (4967)	123.850 (4954)	10.250 (410)	123.600 (4944)	123.225 (4929)	D
6/16/2025 12:55	10.350 (414)	124.400 (4976)	124.100 (4964)	10.325 (413)	123.775 (4951)	123.550 (4942)	10.300 (412)	123.550 (4942)	123.225 (4929)	D
6/16/2025 13:00	10.350 (414)	124.400 (4976)	124.050 (4962)	10.350 (414)	124.100 (4964)	123.725 (4949)	10.250 (410)	123.550 (4942)	123.200 (4928)	D
6/16/2025 13:05	10.350 (414)	124.300 (4972)	124.050 (4962)	10.300 (412)	124.000 (4960)	123.700 (4948)	10.225 (409)	123.500 (4940)	123.175 (4927)	D
6/16/2025 13:10	10.350 (414)	124.325 (4973)	123.975 (4959)	10.325 (413)	123.950 (4958)	123.650 (4946)	10.250 (410)	123.375 (4935)	123.025 (4921)	D
6/16/2025 13:15	10.350 (414)	124.300 (4972)	123.925 (4957)	10.325 (413)	123.950 (4958)	123.575 (4943)	10.250 (410)	123.400 (4936)	122.975 (4919)	D
6/16/2025 13:20	10.350 (414)	124.300 (4972)	123.875 (4955)	10.300 (412)	123.950 (4958)	123.575 (4943)	10.250 (410)	123.400 (4936)	122.900 (4920)	D
6/16/2025 13:25	10.325 (413)	124.275 (4971)	123.800 (4952)	10.325 (413)	123.925 (4957)	123.500 (4940)	10.225 (409)	123.325 (4933)	122.925 (4917)	D
6/16/2025 13:30	10.325 (413)	124.325 (4973)	123.750 (4950)	10.300 (412)	123.975 (4959)	123.400 (4936)	10.225 (409)	123.375 (4935)	122.800 (4912)	D
6/16/2025 13:35	10.375 (415)	124.350 (4974)	124.050 (4962)	10.325 (413)	124.000 (4960)	123.650 (4946)	10.225 (409)	123.475 (4939)	123.125 (4925)	D
6/16/2025 13:40	10.350 (414)	124.475 (4979)	123.925 (4957)	10.325 (413)	124.125 (4965)	123.600 (4944)	10.300 (412)	123.525 (4941)	123.025 (4921)	D
6/16/2025 13:45	10.350 (414)	124.450 (4978)	123.650 (4946)	10.300 (412)	124.100 (4964)	123.625 (4937)	10.300 (412)	123.625 (4945)	122.950 (4918)	D
6/16/2025 13:50	10.325 (413)	124.275 (4971)	123.775 (4951)	10.325 (413)	123.875 (4955)	123.325 (4933)	10.325 (413)	123.325 (4933)	122.775 (4911)	D
6/16/2025 13:55	10.350 (414)	124.325 (4973)	123.775 (4951)	10.300 (412)	123.850 (4954)	123.325 (4933)	10.300 (412)	123.350 (4934)	122.800 (4912)	D
6/16/2025 14:00	10.350 (414)	124.375 (4975)	124.025 (4961)	10.300 (412)	123.925 (4957)	123.600 (4944)	10.300 (412)	123.475 (4939)	123.175 (4927)	D
6/16/2025 14:05	10.350 (414)	124.500 (4980)	123.950 (4958)	10.325 (413)	124.000 (4960)	123.450 (4938)	10.275 (411)	123.475 (4939)	122.975 (4919)	D
6/16/2025 14:10	10.350 (414)	124.250 (4970)	123.800 (4952)	10.300 (412)	123.825 (4953)	123.350 (4932)	10.300 (412)	123.300 (4932)	122.825 (4913)	D
6/16/2025 14:15	10.325 (413)	124.300 (4972)	123.825 (4953)	10.300 (412)	123.775 (4951)	123.375 (4935)	10.250 (410)	123.325 (4933)	122.875 (4915)	D
6/16/2025 14:20	10.375 (415)	124.525 (4981)	124.025 (4961)	10.300 (412)	124.025 (4961)	123.550 (4942)	10.275 (411)	123.550 (4942)	123.075 (4923)	D
6/16/2025 14:25	10.350 (414)	124.375 (4975)	124.100 (4964)	10.325 (413)	123.875 (4955)	123.625 (4945)	10.325 (413)	123.475 (4939)	123.225 (4929)	D
6/16/2025 14:30	10.350 (414)	124.325 (4973)	124.025 (4961)	10.325 (413)	123.975 (4959)	123.525 (4941)	10.300 (412)	123.400 (4936)	123.075 (4923)	D
6/16/2025 14:35	10.350 (414)	124.500 (4980)	124.175 (4967)	10.325 (413)	124.050 (4962)	123.750 (4950)	10.300 (412)	123.550 (4942)	123.125 (4925)	D
6/16/2025 14:40	10.375 (415)	124.550 (4982)	123.950 (4958)	10.300 (412)	124.125 (4965)	123.525 (4941)	10.300 (412)	123.625 (4945)	123.025 (4921)	D
6/16/2025 14:45	10.350 (414)	124.525 (4981)	124.100 (4964)	10.325 (413)	124.050 (4962)	123.675 (4947)	10.275 (411)	123.600 (4944)	123.225 (4929)	D
6/16/2025 14:50	10.350 (414)	124.525 (4981)	123.800 (4952)	10.325 (413)	124.025 (4961)	123.425 (4937)	10.325 (413)	123.550 (4942)	122.825 (4913)	D
6/16/2025 14:55	10.325 (413)	124.125 (4965)	123.850 (4954)	10.300 (412)	123.725 (4949)	123.425 (4937)	10.225 (409)	123.225 (4929)	122.925 (4917)	D
6/16/2025 15:00	10.350 (414)	124.300 (4972)	123.950 (4958)	10.300 (412)	123.950 (4958)	123.575 (4943)	10.250 (410)	123.375 (4935)	122.975 (4919)	D
6/16/2025 15:05	10.350 (414)	124.550 (4982)	124.025 (4961)	10.325 (413)	124.125 (4965)	123.600 (4944)	10.300 (412)	123.550 (4942)	123.125 (4925)	D
6/16/2025 15:10	10.375 (415)	124.500 (4980)	124.075 (4963)	10.325 (413)	124.050 (4962)	123.675 (4947)	10.275 (411)	123.550 (4942)	123.125 (4925)	D
6/16/2025 15:15	10.350 (414)	124.500 (4980)	124.125 (4965)	10.325 (413)	124.175 (4967)	123.850 (4954)	10.325 (413)	123.550 (4942)	123.275 (4931)	D
6/16/2025 15:20	10.375 (415)	124.550 (4982)	124.125 (4965)	10.350 (414)	124.175 (4967)	123.725 (4949)	10.375 (415)	123.600 (4944)	123.225 (4929)	D
6/16/2025 15:25	10.350 (414)	124.750 (4990)	124.175 (4967)	10.325 (413)	124.225 (4969)	123.700 (4948)	10.300 (412)	123.750 (4950)	123.175 (4927)	D
6/16/2025 15:30	10.400 (416)	124.700 (4988)	124.325 (4973)	10.325 (413)	124.250 (4970)	123.725 (4955)	10.375 (415)	123.725 (4949)	123.400 (4936)	D
6/16/2025 15:35	10.375 (415)	124.775 (4991)	124.500 (4980)	10.375 (415)	124.400 (4976)	124.100 (4964)	10.325 (413)	123.900 (4956)	123.600 (4944)	D
6/16/2025 15:40	10.375 (415)	124.750 (4990)	124.350 (4974)	10.325 (413)	124.275 (4971)	123.975 (4959)	10.300 (412)	123.825 (4953)	123.450 (4938)	D
6/16/2025 15:45	10.375 (415)	124.475 (4979)	124.075 (4963)	10.325 (413)	124.050 (4962)	123.700 (4948)	10.300 (412)	123.550 (4942)	123.175 (4927)	D
6/16/2025 15:50	10.350 (414)	124.500 (4980)	124.225 (4969)	10.350 (414)	124.125 (4965)	123.775 (4951)	10.225 (409)	123.650 (4946)	123.350 (4934)	D
6/16/2025 15:55	10.350 (414)	124.475 (4979)	123.950 (4958)	10.325 (413)	124.100 (4964)	123.575 (4943)	10.300 (412)	123.575 (4943)	123.075 (4923)	D
6/16/2025 16:00	10.375 (415)	124.450 (4978)	124.050 (4962)	10.325 (413)	124.050 (4962)	123.700 (4948)	10.300 (412)	123.575 (4943)	123.125 (4925)	D
6/16/2025 16:05	10.350 (414)	124.450 (4978)	124.125 (4965)	10.325 (413)	124.050 (4962)	123.750 (4950)	10.250 (410)	123.525 (4941)	123.225 (4929)	D
6/16/2025 16:10	10.375 (415)	124.600 (4984)	124.125 (4965)	10.325 (413)	124.150 (4966)	123.700 (4948)	10.325 (413)	123.650 (4946)	123.275 (4931)	D
6/16/2025 16:15	10.350 (414)	124.475 (4979)	124.125 (4965)	10.325 (413)	124.125 (4965)	123.775 (4951)	10.225 (409)	123.625 (4945)	123.325 (4933)	D
6/16/2025 16:20	10.375 (415)	124.450 (4978)	124.050 (4962)	10.350 (414)	124.150 (4966)	123.800 (4952)	10.350 (414)	123.625 (4945)	123.275 (4931)	D
6/16/2025 16:25	10.350 (414)	124.575 (4983)	124.250 (4970)	10.325 (413)	124.250 (4970)	123.800 (4952)	10.300 (412)	123.650 (4946)	123.300 (4932)	D
6/16/2025 16:30	10.375 (415)	124.550 (4982)	124.125 (4965)	10.350 (414)	124.150 (4966)	123.700 (4948)	10.275 (411)	123.650 (4946)	123.250 (4930)	D
6/16/2025 16:35	10.375 (415)	124.575 (4983)	124.200 (4968)	10.325 (413)	124.175 (4967)	123.850 (4954)	10.275 (411)	123.600 (4944)	123.275 (4931)	D

6/16/2025 16:40	10.350 (414)	124.600 (4984)	124.200 (4968)	10.325 (413)	124.200 (4968)	123.750 (4950)	10.275 (411)	123.550 (4942)	123.200 (4928)	D
6/16/2025 16:45	10.375 (415)	124.600 (4984)	124.225 (4969)	10.350 (414)	124.300 (4972)	123.925 (4957)	10.325 (413)	123.625 (4945)	123.250 (4930)	D
6/16/2025 16:50	10.375 (415)	124.700 (4988)	124.350 (4974)	10.350 (414)	124.375 (4975)	124.025 (4961)	10.300 (412)	123.875 (4955)	123.450 (4938)	D
6/16/2025 16:55	10.375 (415)	124.625 (4985)	124.275 (4971)	10.350 (414)	124.325 (4973)	123.950 (4958)	10.275 (411)	123.775 (4951)	123.400 (4936)	D
6/16/2025 17:00	10.375 (415)	124.600 (4984)	124.275 (4971)	10.350 (414)	124.275 (4971)	123.925 (4957)	10.325 (413)	123.650 (4946)	123.300 (4932)	D
6/16/2025 17:05	10.375 (415)	124.650 (4986)	124.325 (4973)	10.325 (413)	124.275 (4971)	123.975 (4959)	10.300 (412)	123.700 (4948)	123.400 (4936)	D
6/16/2025 17:10	10.400 (416)	124.875 (4995)	124.475 (4979)	10.375 (415)	124.500 (4980)	124.100 (4964)	10.325 (413)	123.825 (4953)	123.475 (4939)	D
6/16/2025 17:15	10.400 (416)	124.900 (4996)	124.400 (4976)	10.350 (414)	124.500 (4980)	124.000 (4960)	10.350 (414)	123.925 (4957)	123.400 (4936)	D
6/16/2025 17:20	10.400 (416)	124.975 (4999)	124.600 (4984)	10.375 (415)	124.700 (4988)	124.275 (4971)	10.325 (413)	124.050 (4962)	123.625 (4945)	D
6/16/2025 17:25	10.400 (416)	125.025 (5001)	124.600 (4984)	10.375 (415)	124.700 (4988)	124.325 (4973)	10.300 (412)	124.050 (4962)	123.650 (4946)	D
6/16/2025 17:30	10.400 (416)	125.050 (5002)	124.650 (4986)	10.400 (416)	124.700 (4988)	124.400 (4976)	10.325 (413)	124.050 (4962)	123.750 (4950)	D
6/16/2025 17:35	10.425 (417)	125.325 (5013)	124.800 (4992)	10.400 (416)	125.050 (5002)	124.475 (4979)	10.300 (412)	124.400 (4976)	123.850 (4954)	D
6/16/2025 17:40	10.425 (417)	125.325 (5013)	124.850 (4994)	10.400 (416)	125.050 (5002)	124.525 (4981)	10.425 (417)	124.450 (4978)	124.000 (4960)	D
6/16/2025 17:45	10.425 (417)	125.250 (5010)	124.800 (4992)	10.400 (416)	125.000 (5000)	124.500 (4980)	10.375 (415)	124.325 (4973)	123.925 (4957)	D
6/16/2025 17:50	10.425 (417)	125.275 (5011)	125.025 (5001)	10.400 (416)	125.000 (5000)	124.700 (4988)	10.400 (416)	124.350 (4974)	124.075 (4963)	D
6/16/2025 17:55	10.450 (418)	125.350 (5014)	125.050 (5002)	10.425 (417)	125.050 (5002)	124.775 (4991)	10.375 (415)	124.375 (4975)	124.075 (4963)	D
6/16/2025 18:00	10.450 (418)	125.425 (5017)	125.125 (5005)	10.400 (416)	125.075 (5003)	124.800 (4992)	10.375 (415)	124.525 (4981)	124.200 (4968)	D
6/16/2025 18:05	10.450 (418)	125.575 (5023)	125.225 (5009)	10.425 (417)	125.325 (5013)	124.975 (4999)	10.400 (416)	124.700 (4988)	124.350 (4974)	D
6/16/2025 18:10	10.450 (418)	125.650 (5026)	125.350 (5014)	10.450 (418)	125.425 (5017)	125.075 (5003)	10.400 (416)	124.725 (4989)	124.500 (4980)	D
6/16/2025 18:15	10.475 (419)	125.700 (5028)	125.325 (5013)	10.425 (417)	125.050 (5002)	124.775 (4991)	10.375 (415)	124.775 (4991)	124.500 (4980)	D
6/16/2025 18:20	10.275 (411)	125.625 (5025)	122.825 (4913)	10.275 (411)	125.300 (5012)	122.750 (4910)	10.225 (409)	124.725 (4989)	122.150 (4886)	D
6/16/2025 18:25	10.250 (410)	123.225 (4929)	122.975 (4919)	10.250 (410)	123.125 (4925)	122.850 (4914)	10.150 (406)	122.500 (4980)	122.275 (4891)	D
6/16/2025 18:30	10.275 (411)	123.350 (4934)	123.025 (4921)	10.275 (411)	123.250 (4930)	122.925 (4917)	10.225 (409)	122.575 (4903)	122.325 (4893)	D
6/16/2025 18:35	10.250 (410)	123.325 (4933)	122.900 (4916)	10.250 (410)	123.275 (4931)	122.850 (4914)	10.150 (406)	122.550 (4902)	122.250 (4890)	D
6/16/2025 18:40	10.275 (411)	123.350 (4934)	122.925 (4917)	10.250 (410)	123.275 (4931)	122.900 (4916)	10.225 (409)	122.675 (4907)	122.375 (4895)	D
6/16/2025 18:45	10.250 (410)	123.300 (4932)	122.975 (4919)	10.275 (411)	123.275 (4931)	122.925 (4917)	10.225 (409)	122.675 (4907)	122.300 (4892)	D
6/16/2025 18:50	10.275 (411)	123.400 (4936)	122.925 (4917)	10.250 (410)	123.325 (4933)	122.900 (4916)	10.250 (410)	122.550 (4902)	122.225 (4889)	D
6/16/2025 18:55	10.275 (411)	123.550 (4942)	123.050 (4922)	10.275 (411)	123.450 (4938)	122.975 (4923)	10.225 (409)	122.650 (4906)	122.300 (4892)	D
6/16/2025 19:00	10.275 (411)	123.475 (4939)	123.125 (4925)	10.275 (411)	123.450 (4938)	123.150 (4926)	10.250 (410)	122.650 (4906)	122.300 (4892)	D
6/16/2025 19:05	10.300 (412)	123.675 (4947)	123.250 (4930)	10.300 (412)	123.525 (4941)	123.175 (4927)	10.275 (411)	122.750 (4910)	122.425 (4897)	D
6/16/2025 19:10	10.275 (411)	123.700 (4948)	123.175 (4927)	10.275 (411)	123.575 (4943)	123.100 (4924)	10.200 (408)	122.850 (4914)	122.425 (4897)	D
6/16/2025 19:15	10.300 (412)	123.700 (4948)	123.275 (4931)	10.275 (411)	123.575 (4943)	123.200 (4928)	10.225 (409)	122.800 (4912)	122.450 (4898)	D
6/16/2025 19:20	10.275 (411)	123.550 (4942)	123.250 (4930)	10.275 (411)	123.500 (4940)	122.500 (4929)	10.125 (405)	122.700 (4908)	122.400 (4896)	D
6/16/2025 19:25	10.300 (412)	123.725 (4949)	123.425 (4937)	10.300 (412)	123.675 (4947)	123.325 (4933)	10.200 (408)	122.875 (4915)	122.525 (4901)	D
6/16/2025 19:30	10.300 (412)	123.775 (4951)	123.400 (4936)	10.275 (411)	123.675 (4947)	123.375 (4935)	10.250 (410)	122.950 (4918)	122.600 (4904)	D
6/16/2025 19:35	10.300 (412)	123.800 (4952)	123.475 (4939)	10.300 (412)	123.750 (4950)	123.450 (4938)	10.100 (404)	123.100 (4924)	122.750 (4910)	D
6/16/2025 19:40	10.300 (412)	123.800 (4952)	123.500 (4940)	10.300 (412)	123.775 (4951)	123.400 (4936)	10.250 (410)	123.000 (4920)	122.650 (4906)	D
6/16/2025 19:45	10.300 (412)	123.700 (4948)	123.400 (4936)	10.300 (412)	123.625 (4945)	123.325 (4933)	10.250 (410)	122.825 (4913)	122.550 (4902)	D
6/16/2025 19:50	10.325 (413)	123.850 (4954)	123.475 (4939)	10.300 (412)	123.800 (4952)	123.500 (4940)	10.225 (409)	123.100 (4924)	122.725 (4909)	D
6/16/2025 19:55	10.300 (412)	123.950 (4958)	123.575 (4943)	10.325 (413)	123.975 (4959)	123.625 (4945)	10.250 (410)	123.175 (4927)	122.800 (4912)	D
6/16/2025 20:00	10.300 (412)	123.800 (4952)	123.400 (4936)	10.300 (412)	123.775 (4951)	123.325 (4933)	10.225 (409)	123.025 (4921)	122.575 (4903)	D
6/16/2025 20:05	10.325 (413)	123.925 (4957)	123.525 (4941)	10.300 (412)	123.725 (4949)	123.500 (4940)	10.250 (410)	123.050 (4922)	122.800 (4912)	D
6/16/2025 20:10	10.325 (413)	124.025 (4961)	123.575 (4943)	10.300 (412)	123.975 (4959)	123.400 (4936)	10.300 (412)	123.175 (4927)	122.725 (4909)	D
6/16/2025 20:15	10.300 (412)	124.025 (4961)	123.675 (4947)	10.325 (413)	123.950 (4958)	123.625 (4945)	10.275 (411)	123.200 (4928)	122.850 (4914)	D
6/16/2025 20:20	10.325 (413)	124.025 (4961)	123.750 (4950)	10.325 (413)	123.925 (4957)	123.675 (4947)	10.250 (410)	123.225 (4929)	122.975 (4919)	D
6/16/2025 20:25	10.350 (414)	124.125 (4965)	123.825 (4953)	10.325 (413)	124.000 (4960)	123.650 (4946)	10.275 (411)	123.275 (4931)	123.025 (4921)	D
6/16/2025 20:30	10.325 (413)	124.100 (4964)	123.725 (4949)	10.300 (412)	124.025 (4961)	123.650 (4946)	10.275 (411)	123.350 (4934)	122.950 (4918)	D
6/16/2025 20:35	10.325 (413)	124.175 (4967)	123.800 (4952)	10.325 (413)	124.050 (4962)	123.675 (4947)	10.275 (411)	123.325 (4933)	123.000 (4920)	D
6/16/2025 20:40	10.350 (414)	124.125 (4965)	123.875 (4955)	10.325 (413)	124.000 (4960)	123.725 (4949)	10.275 (411)	123.250 (4930)	123.050 (4922)	D
6/16/2025 20:45	10.325 (413)	124.175 (4967)	123.775 (4951)	10.325 (413)	124.025 (4961)	123.625 (4945)	10.275 (411)	123.300 (4932)	122.950 (4918)	D
6/16/2025 20:50	10.325 (413)	124.175 (4967)	123.925 (4957)	10.325 (413)	124.175 (4967)	123.775 (4951)	10.250 (410)	123.375 (4935)	123.075 (4923)	D
6/16/2025 20:55	10.350 (414)	124.200 (4968)	123.825 (4953)	10.325 (413)	124.050 (4962)	123.725 (4949)	10.275 (411)	123.300 (4932)	123.000 (4920)	D
6/16/2025 21:00	10.325 (413)	124.250 (4970)	123.850 (4954)	10.350 (414)	124.150 (4966)	123.750 (4950)	10.225 (409)	123.350 (4934)	123.050 (4922)	D
6/16/2025 21:05	10.350 (414)	124.175 (4967)	123.750 (4950)	10.325 (413)	124.050 (4962)	123.800 (4952)	10.300 (412)	123.300 (4932)	122.975 (4919)	D
6/16/2025 21:10	10.325 (413)	124.075 (4963)	123.700 (4948)	10.325 (413)	124.125 (4965)	123.700 (4948)	10.275 (411)	123.200 (4928)	122.875 (4915)	D
6/16/2025 21:15	10.325 (413)	124.025 (4961)	123.725 (4949)	10.325 (413)	124.025 (4961)	123.725 (4949)	10.275 (411)	123.225 (4929)	122.875 (4915)	D
6/16/2025 21:20	10.325 (413)	124.250 (4970)	123.825 (4953)	10.325 (413)	124.175 (4967)	123.800 (4952)	10.325 (413)	123.400 (4936)	123.125 (4925)	D
6/16/2025 21:25	10.350 (414)	124.100 (4964)	123.850 (4954)	10.350 (414)	124.125 (4965)	123.775 (4951)	10.300 (412)	123.400 (4936)	123.050 (4922)	D
6/16/2025 21:30	10.325 (413)	124.450 (4978)	123.850 (4954)	10.325 (413)	124.375 (4975)	123.850 (4954)	10.250 (410)	123.525 (4941)	123.050 (4922)	D
6/16/2025 21:35	10.375 (415)	124.450 (4978)	124.200 (4968)	10.350 (414)	124.375 (4975)	124.100 (4964)	10.275 (411)	123.550 (4942)	123.225 (4929)	D
6/16/2025 21:40	10.375 (415)	124.600 (4984)	124.175 (4967)	10.375 (415)	124.450 (4978)	124.025 (4961)	10.250 (410)	123.600 (4944)	123.225 (4929)	D
6/16/2025 21:45	10.350 (414)	124.600 (4984)	124.175 (4967)	10.350 (414)	124.450 (4978)	123.975 (4959)	10.300 (412)	123.575 (4943)	123.250 (4930)	D
6/16/2025 21:50	10.375 (415)	124.625 (4985)	124.250 (4970)	10.350 (414)	124.475 (4979)	124.025 (4961)	10.275 (411)	123.600 (4944)	123.325 (4933)	D
6/16/2025 21:55	10.375 (415)	124.550 (4982)	124.225 (4969)	10.375 (415)	124.475 (4979)	124.100 (4964)	10.300 (412)	123.625 (4945)	123.325 (4933)	D
6/16/2025 22:00	10.375 (415)	124.700 (4988)	124.400 (4976)	10.375 (415)	124.650 (4986)	124.275 (4971)	10.150 (406)	123.750 (4950)	123.475 (4939)	D
6/16/2025 22:05	10.375 (415)	124.775 (4991)	124.475 (4979)	10.375 (415)	124.725 (4989)	124.325 (4973)	10.250 (410)	123.850 (4954)	123.525 (4941)	D
6/16/2025 22:10	10.350 (414)	124.750 (4990)	123.550 (4942)	10.350 (414)	124.700 (4988)	123.525 (4941)	10.350 (414)	123.750 (4950)	122.650 (4906)	D
6/16/2025 22:15	10.325 (413)	123.975 (4959)	123.750 (4950)	10.325 (413)	123.975 (4959)	123.700 (4948)	10.275 (411)	123.025 (4921)	122.800 (4912)	D
6/16/2025 22:20	10.325 (413)	124.025 (4961)	123.775 (4951)	10.300 (412)	124.000 (4960)	123.700 (4948)	10.275 (411)	123.050 (4922)	122.875 (4915)	D

6/16/2025 22:25	10.325 (413)	123.950 (4958)	123.600 (4944)	10.325 (413)	123.850 (4954)	123.500 (4940)	10.325 (413)	123.025 (4921)	122.725 (4909)	D
6/16/2025 22:30	10.300 (412)	123.950 (4958)	123.525 (4941)	10.300 (412)	123.800 (4952)	123.500 (4940)	10.300 (412)	122.950 (4918)	122.700 (4908)	D
6/16/2025 22:35	10.350 (414)	124.175 (4967)	123.750 (4950)	10.325 (413)	124.025 (4961)	123.700 (4948)	10.250 (410)	123.125 (4925)	122.775 (4911)	D
6/16/2025 22:40	10.300 (412)	123.950 (4958)	123.550 (4942)	10.300 (412)	123.900 (4956)	123.450 (4938)	10.275 (411)	122.950 (4918)	122.550 (4902)	D
6/16/2025 22:45	10.325 (413)	124.025 (4961)	123.725 (4949)	10.325 (413)	123.900 (4956)	123.525 (4941)	10.225 (409)	123.025 (4921)	122.725 (4909)	D
6/16/2025 22:50	10.325 (413)	124.050 (4962)	123.600 (4944)	10.300 (412)	123.950 (4958)	123.550 (4942)	10.275 (411)	123.075 (4923)	122.750 (4910)	D
6/16/2025 22:55	10.325 (413)	124.000 (4960)	123.650 (4946)	10.325 (413)	124.000 (4960)	123.650 (4946)	10.250 (410)	123.125 (4925)	122.825 (4913)	D
6/16/2025 23:00	10.325 (413)	124.325 (4973)	123.750 (4950)	10.325 (413)	124.200 (4968)	123.675 (4947)	10.275 (411)	123.300 (4932)	122.800 (4912)	D
6/16/2025 23:05	10.350 (414)	124.300 (4972)	123.850 (4954)	10.325 (413)	124.150 (4966)	123.725 (4949)	10.225 (409)	123.275 (4931)	122.850 (4914)	D
6/16/2025 23:10	10.350 (414)	124.275 (4971)	123.800 (4952)	10.325 (413)	124.100 (4964)	123.725 (4949)	10.300 (412)	123.275 (4931)	122.825 (4913)	D
6/16/2025 23:15	10.325 (413)	124.325 (4973)	123.975 (4959)	10.350 (414)	124.225 (4969)	123.900 (4956)	10.150 (406)	123.325 (4933)	123.000 (4920)	D
6/16/2025 23:20	10.350 (414)	124.375 (4975)	123.975 (4959)	10.325 (413)	124.200 (4968)	123.875 (4955)	10.225 (409)	123.375 (4935)	123.025 (4921)	D
6/16/2025 23:25	10.350 (414)	124.325 (4973)	124.025 (4961)	10.350 (414)	124.250 (4970)	123.950 (4958)	10.250 (410)	123.425 (4937)	123.100 (4924)	D
6/16/2025 23:30	10.350 (414)	124.325 (4973)	124.000 (4960)	10.325 (413)	124.150 (4966)	123.825 (4953)	10.225 (409)	123.400 (4936)	123.100 (4924)	D
6/16/2025 23:35	10.325 (413)	124.350 (4974)	123.775 (4951)	10.325 (413)	124.200 (4968)	123.725 (4949)	10.200 (408)	123.425 (4937)	122.950 (4918)	D
6/16/2025 23:40	10.350 (414)	124.150 (4966)	123.825 (4953)	10.325 (413)	124.000 (4960)	123.750 (4950)	10.300 (412)	123.250 (4930)	122.975 (4919)	D
6/16/2025 23:45	10.350 (414)	124.275 (4971)	123.975 (4959)	10.350 (414)	124.100 (4964)	123.775 (4951)	10.300 (412)	123.350 (4934)	123.050 (4922)	D
6/16/2025 23:50	10.325 (413)	124.250 (4970)	123.900 (4956)	10.325 (413)	124.075 (4963)	123.725 (4949)	10.225 (409)	123.400 (4936)	123.050 (4922)	D
6/16/2025 23:55	10.350 (414)	124.225 (4969)	123.875 (4955)	10.325 (413)	124.075 (4963)	123.775 (4951)	10.300 (412)	123.350 (4934)	123.075 (4923)	D
6/17/2025 0:00	10.350 (414)	124.300 (4972)	123.900 (4956)	10.325 (413)	124.100 (4964)	123.725 (4949)	10.175 (407)	123.375 (4935)	123.050 (4922)	D

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-008

REQUEST:

State if the AMI voltage recording hardware and software have the ability to take continuous [sic] readings, or if readings will be taken at set intervals.

RESPONSE:

The Duke Energy Kentucky AMI meters do not have the ability to take continuous voltage readings. They monitor and record voltage snapshots at a minimum 5-minute interval.

PERSON RESPONSIBLE: Joseph "Joe" Vale

Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025

STAFF-DR-01-009

REQUEST:

State whether the AMI system and/or software have the ability to detect exceptions that are out of limits, like voltage limits.

RESPONSE:

The Duke Energy Kentucky AMI meters have the ability to assess the recorded voltage, and generate exceptions based on a configured threshold. However, a 5-minute sample interval is not sufficient to detect most voltage sags and swells. See response to Staff-DR-01-008.

PERSON RESPONSIBLE: Dominic “Nick” Melillo

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-010

REQUEST:

State whether the AMI system monitors and/or records other exceptions other than voltage.

RESPONSE:

The Company's AMI meters do monitor and record exceptions other than voltage. Examples include, but are not limited to, the following: Primary Power Down, Primary Power Up, Reverse Rotation Detected, Loss of Phase Error (Poly Phase Only), Temperature Above Threshold, and Load Voltage Present.

PERSON RESPONSIBLE: Joseph "Joe" Vale

Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025

STAFF-DR-01-011

REQUEST:

State whether the electric utility would benefit from a deviation of the requirement in 807 KAR 5:041, Section 7, and if so, in what way.

RESPONSE:

Duke Energy Kentucky currently complies with 807 KAR 5:041, Section 7 and a deviation of the requirement is not currently necessary because the Company's AMI meters do not have the data sampling granularity to effectively monitor for voltage sags and swells. Duke Energy Kentucky's existing methodology more effectively monitors for voltage sags and swells because it monitors voltage several times a minute.

PERSON RESPONSIBLE: Dominic "Nick" Melillo

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-012

REQUEST:

State whether the electric utility will have the ability to satisfy the Commission of its compliance with voltage requirements if a deviation from 807 KAR 5:041, Section 7 is granted, and if so, state how.

RESPONSE:

The sampling frequency for Duke Energy Kentucky AMI meters is every 5 minutes and would not meet the intent of 807 KAR 5:041, Section 7. The Company currently complies with the regulation as written and a deviation is not necessary.

PERSON RESPONSIBLE: Dominic "Nick" Melillo

**Duke Energy Kentucky
Case No. 2025-00131
STAFF's First Request for Information
Date Received: June 9, 2025**

STAFF-DR-01-013

REQUEST:

If a deviation to the requirements of 807 KAR 5:041, Section 7 is granted, state whether the electric utility will still be able to retain all records of the voltage records and surveys taken within the last three calendar years and allow inspection by the utility's customers and the Public Service Commission.

RESPONSE:

Currently AMI voltage data is being retained for a minimum of 5 years.

PERSON RESPONSIBLE: Joseph "Joe" Vale