



Test Monitoring Center

<https://www.astmtmc.org>

ASTM Reference Testing Semi-Annual Report ASTM D6794 – EOWT

October 2022

EOWT Test Activity by Treat Rate*

Test Status	Validity Code	Number of Tests by Water Treat Rate				Total
		0.6%	1.0%	2.0%	3.0%	
Acceptable Calibration Test	AC	189	191	190	190	760
Failed Calibration Test	OC	2	3	5	5	15
Aborted Calibration Test	XC	2	1	2	1	6
Total		193	195	197	196	781

- 5 labs reported data

*April 1, 2022 – September 30, 2022

EOWT Test Activity by Reference Oil*

Test Status	Validity Code	Number of Tests by Reference Oil		Total
		79	77-3	
Acceptable Calibration Test	AC	376	384	760
Failed Calibration Test	OC	5	10	15
Aborted Calibration	XC	2	4	6
Total		383	398	781

*April 1, 2022 – September 30, 2022

EOWT Failed Tests

Failed Parameter	Number of Tests				Total
	0.6%	1.0%	2.0%	3.0%	
Severe Change in Flowrate	0	2	4	4	10
Mild Change in Flowrate	2	1	1	1	5
Total	2	3	5	5	15

EOWT Failed Tests by Lab

Failed Parameter	LTMS Lab					#
	A	B	G	I	L	
Severe Change in Flowrate	2	0	0	0	3	5
Mild Change in Flowrate	10	0	0	0	0	10
Total	12	0	0	0	3	15

EOWT Lost Tests*

Cause	Number of Tests				#
	0.6%	1.0%	2.0%	3.0%	
Incorrect sample preparation	2	1	2	1	6
					6

*Invalid and aborted calibration tests

EOWT Test Severity

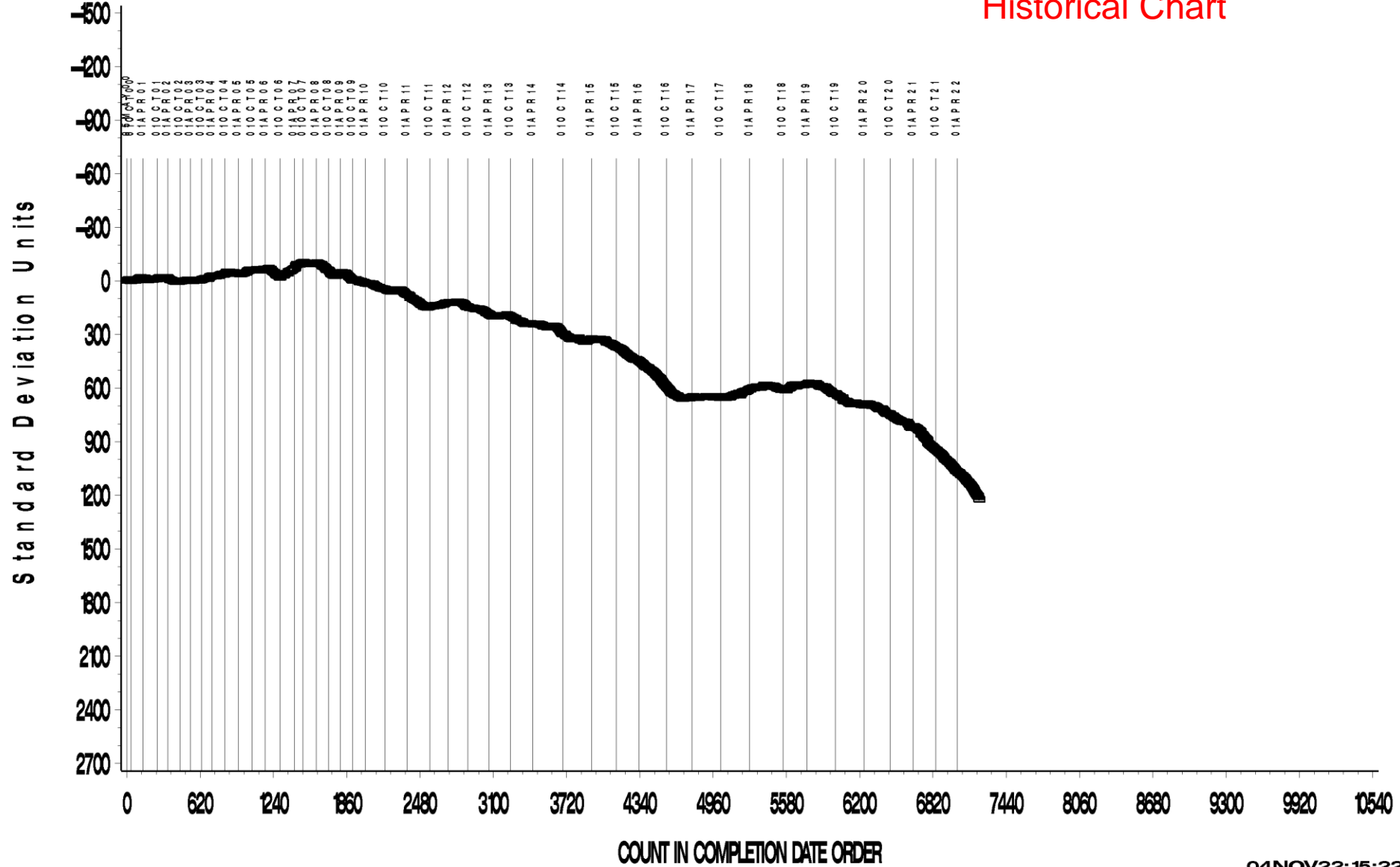
- ▶ Change in flowrate is trending severe for all treat rates.

EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 0.6% Water Treat Rate
20 — 25 ML CHANGE IN FLOWRATE AVG.



CUSUM Severity Analysis

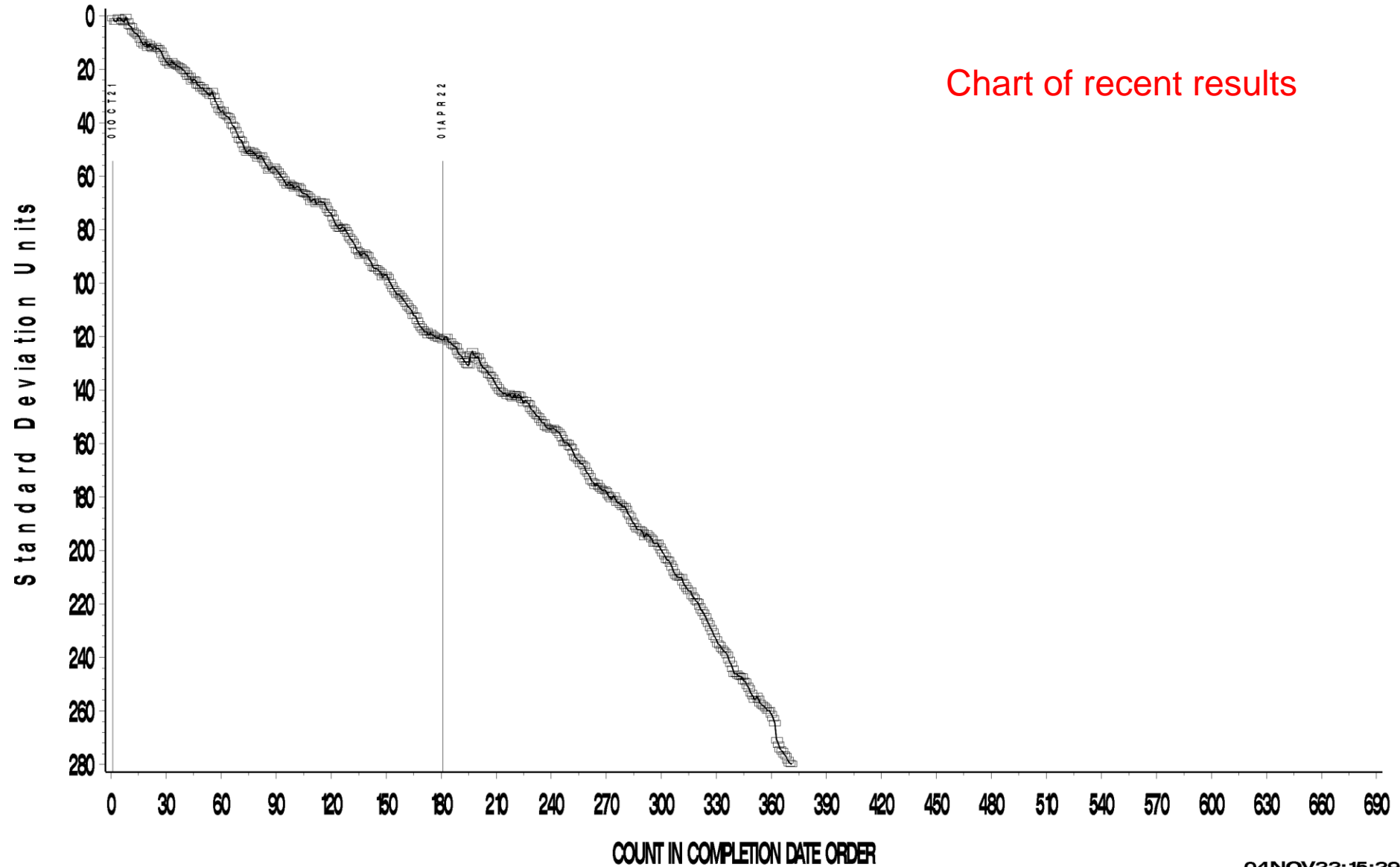
Historical Chart



EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 0.6% Water Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.



CUSUM Severity Analysis

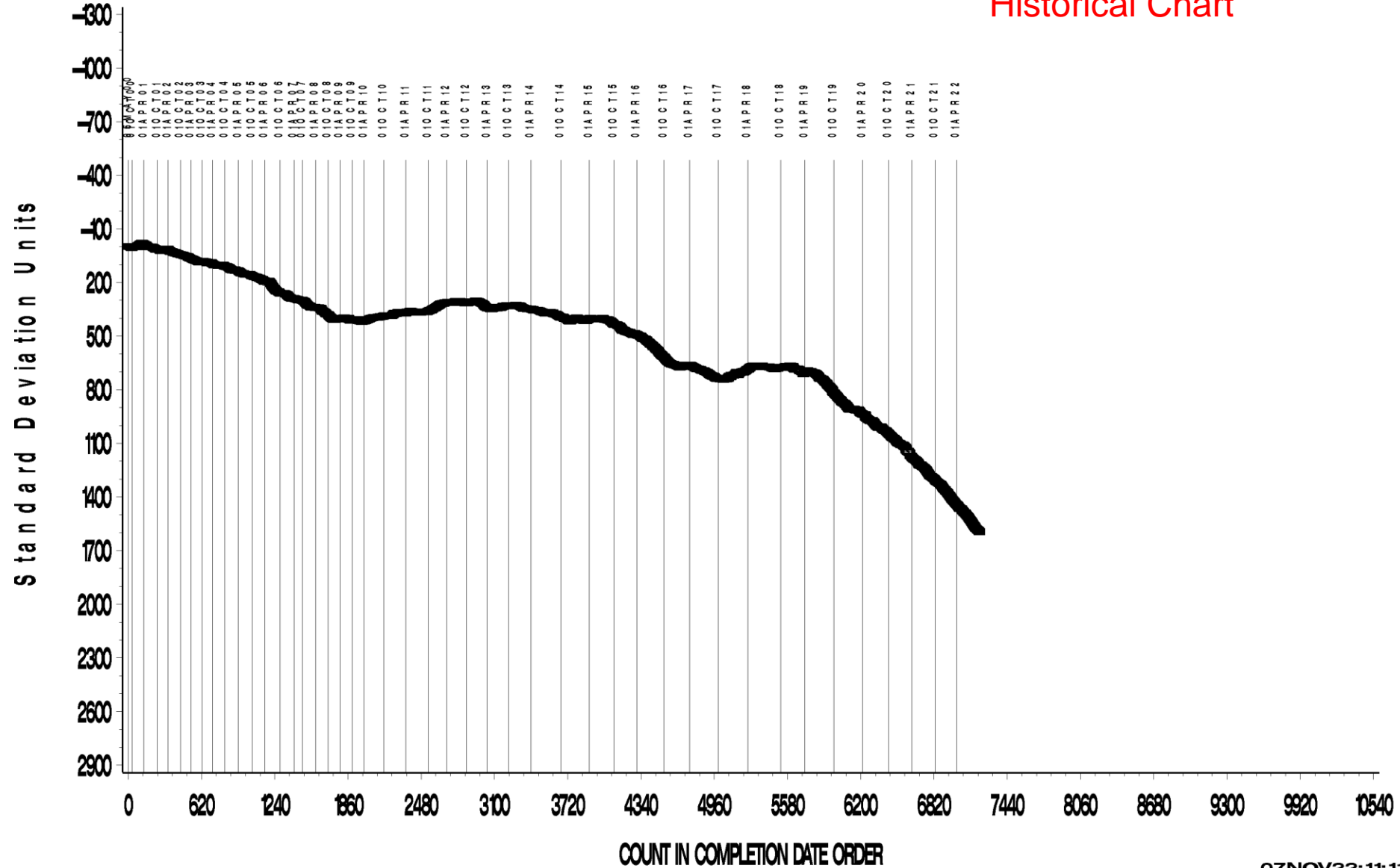


EOWT INDUSTRY OPERATIONAL VALID DATA
CFA 1.0% Water Treat Rate
20 — 25 ML CHANGE IN FLOWRATE AVG.



CUSUM Severity Analysis

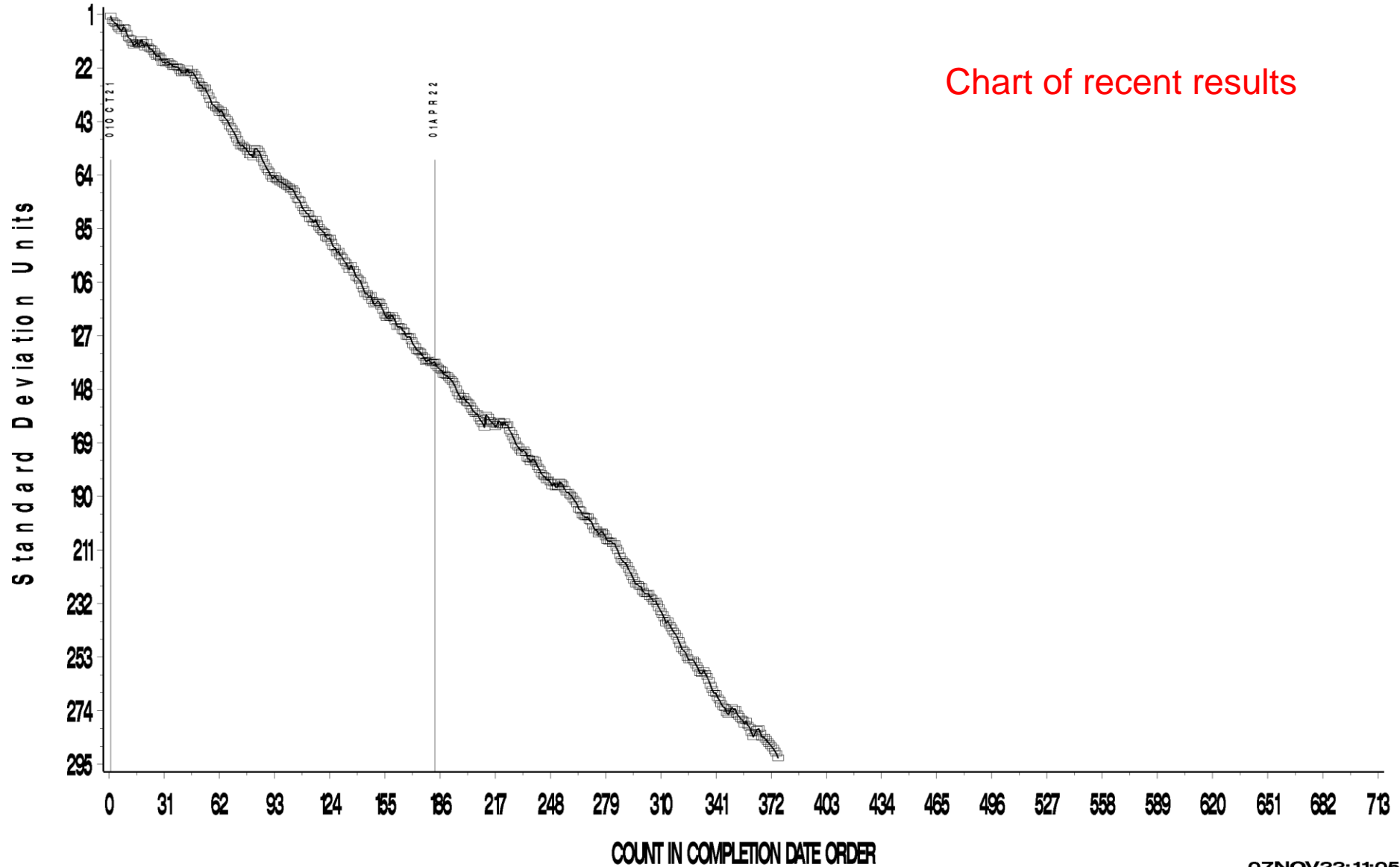
Historical Chart



EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 1.0% Water Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.



CUSUM Severity Analysis

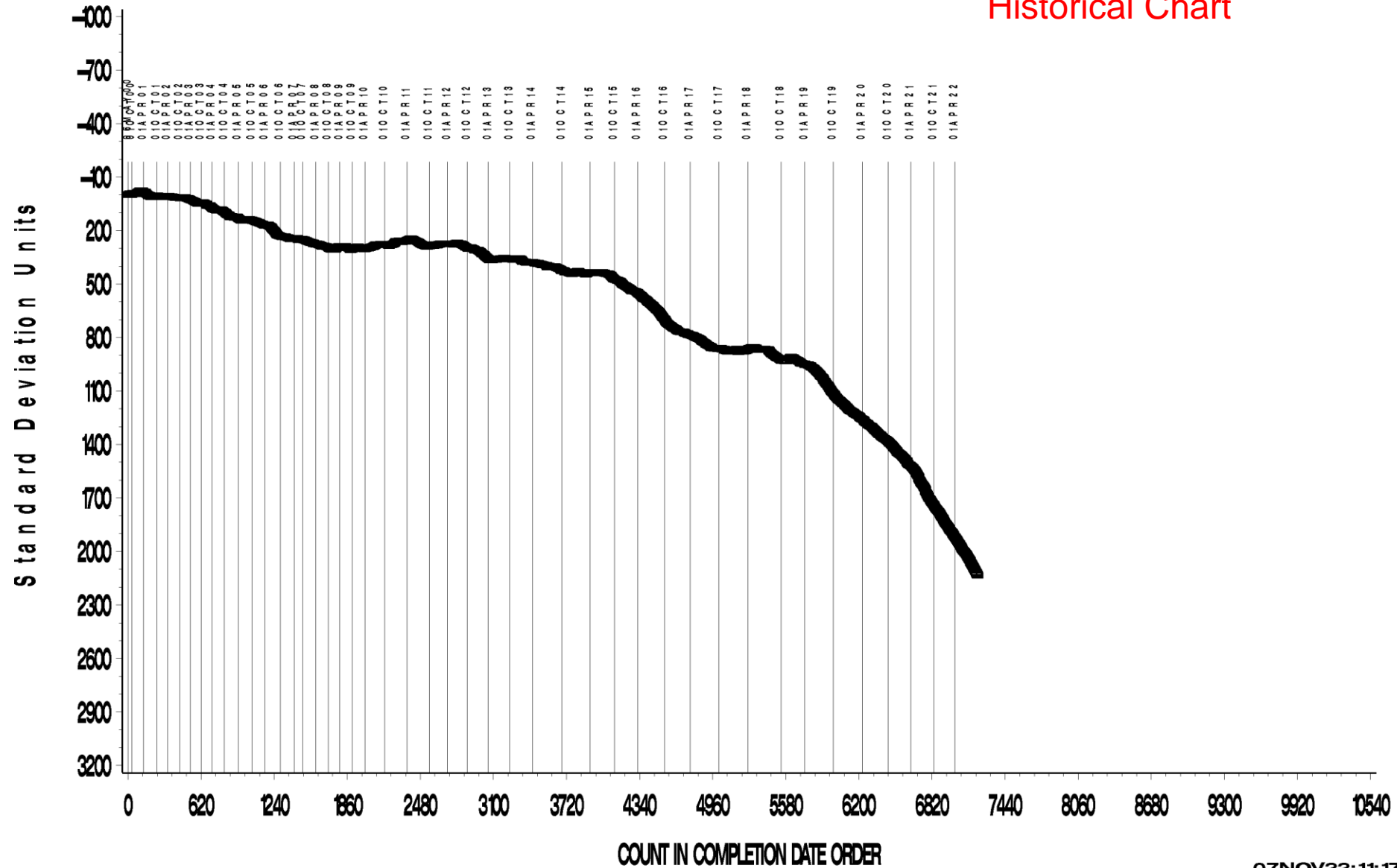


EOWT INDUSTRY OPERATIONAL VALID DATA
CFA 2.0% Water Treat Rate
20 — 25 ML CHANGE IN FLOWRATE AVG.



CUSUM Severity Analysis

Historical Chart

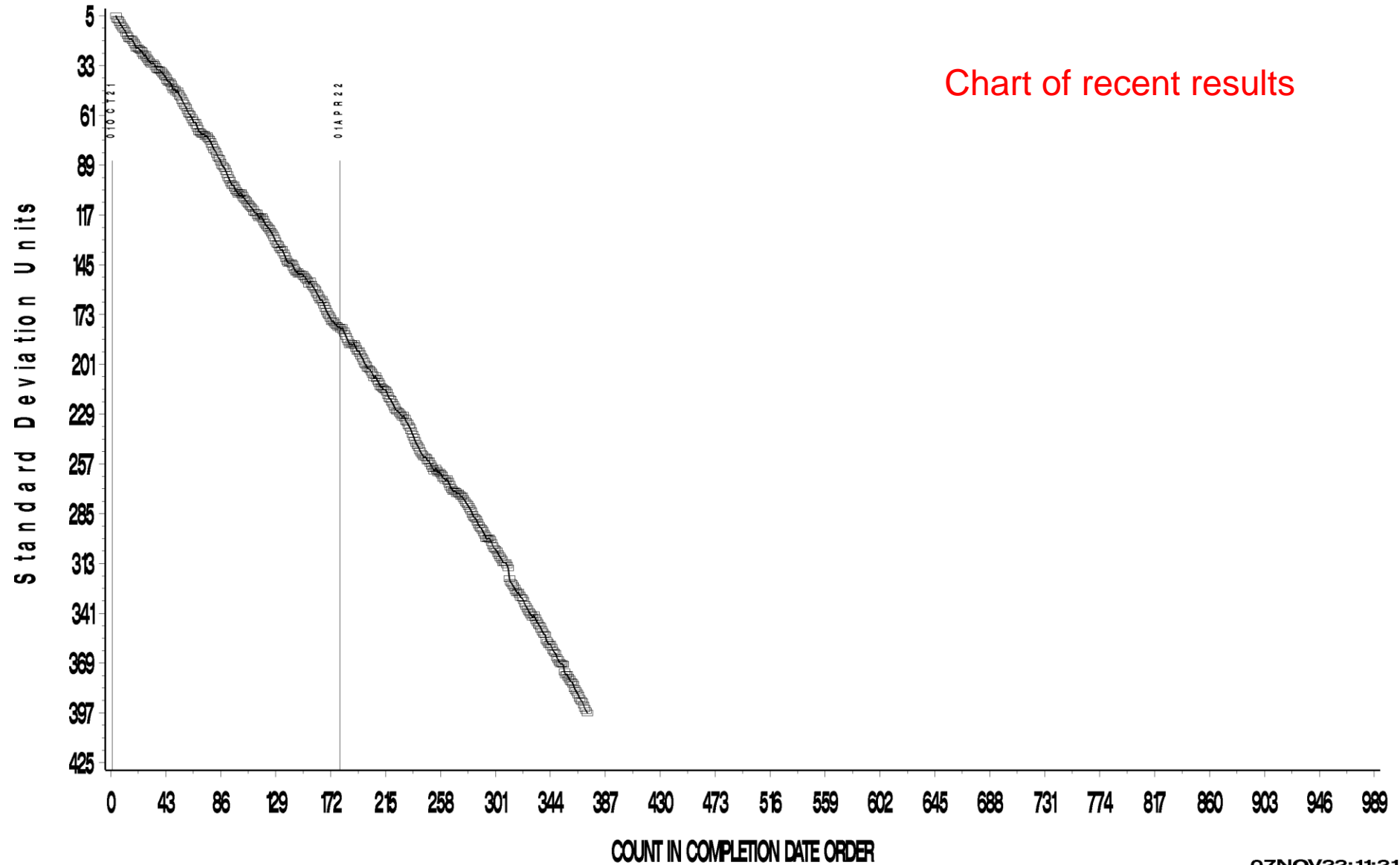


EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 2.0% Water Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.



CUSUM Severity Analysis

Chart of recent results

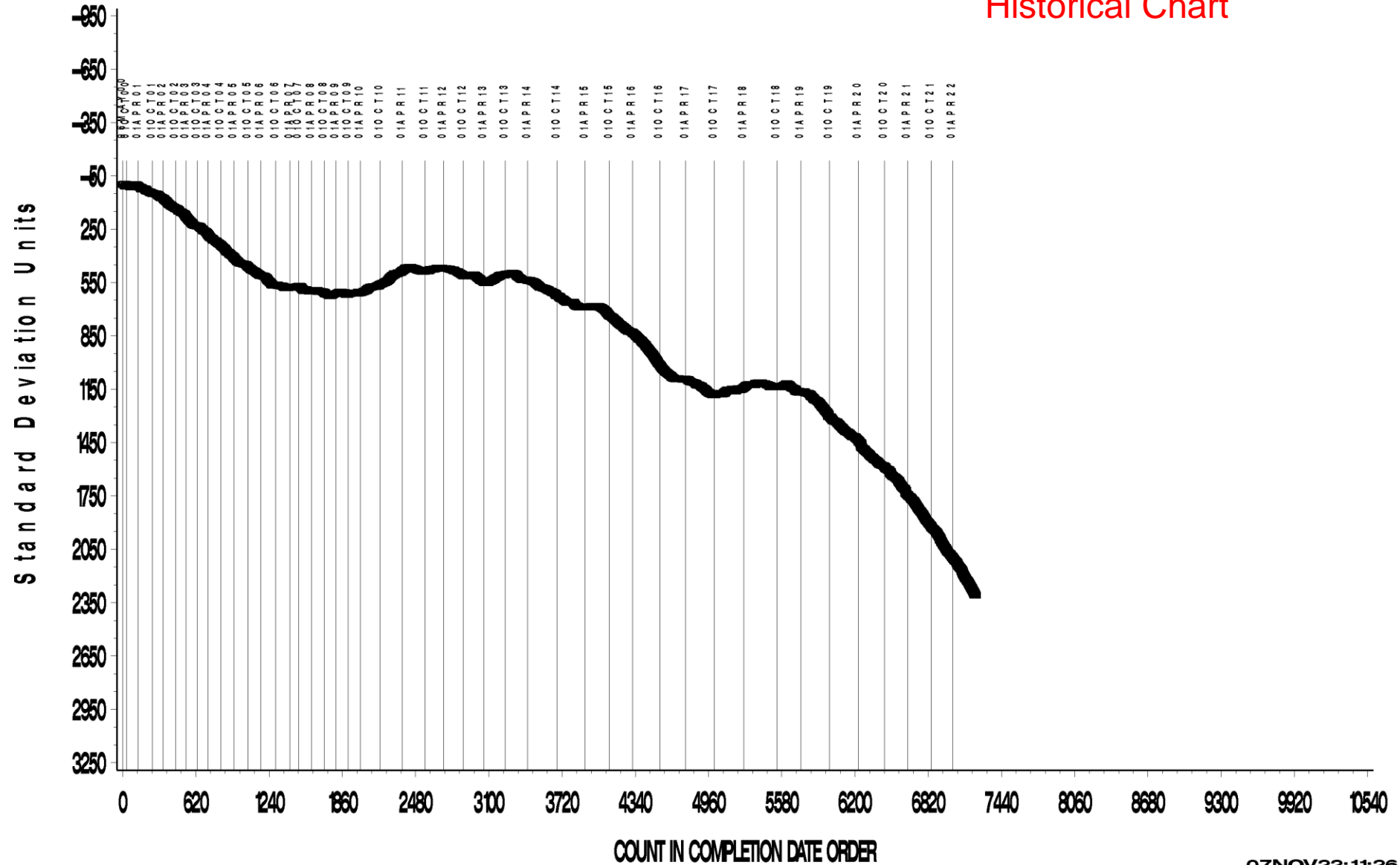


EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 3.0% Water Treat Rate
20 — 25 ML CHANGE IN FLOWRATE AVG.



CUSUM Severity Analysis

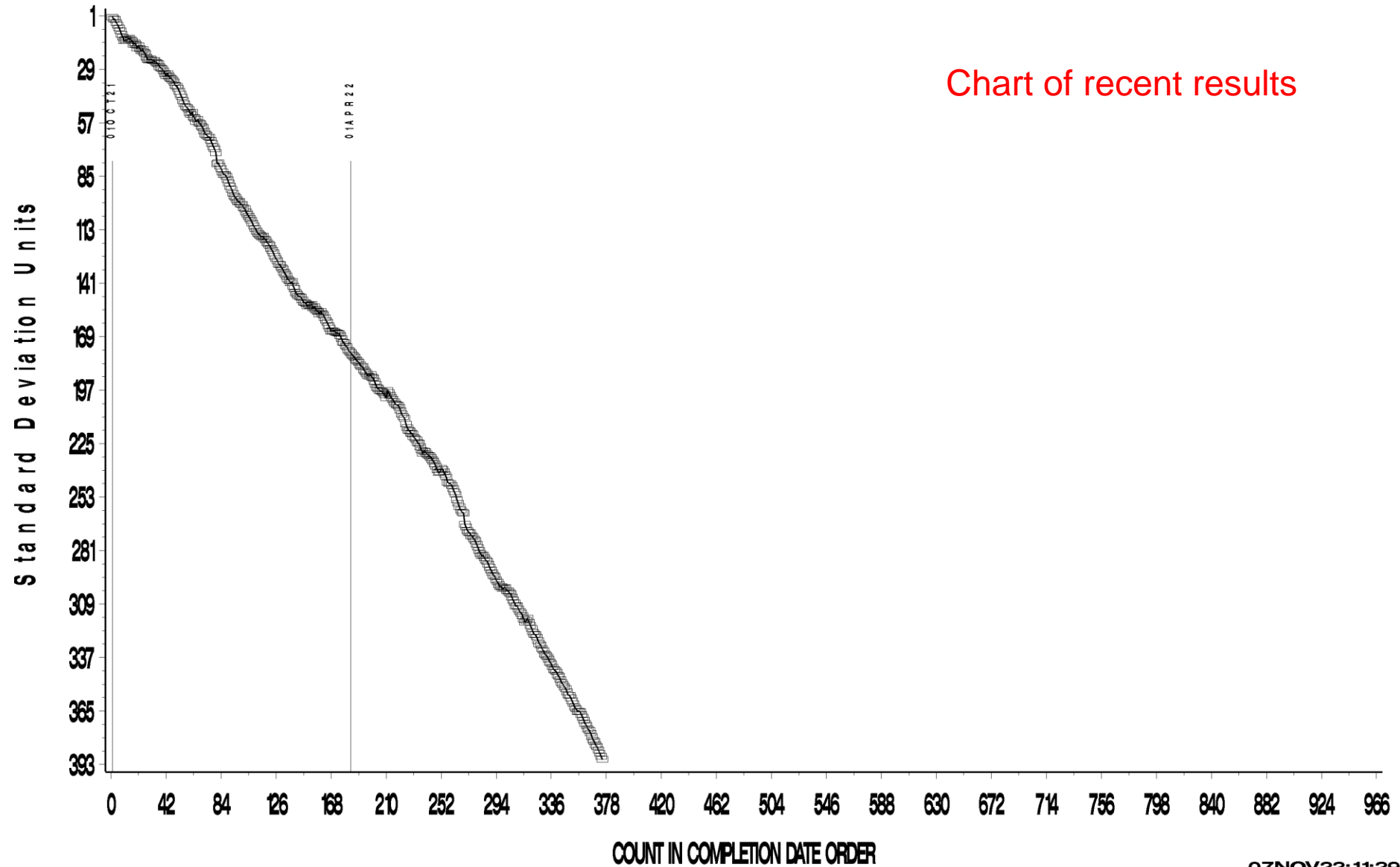
Historical Chart



EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 3.0% Water Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.

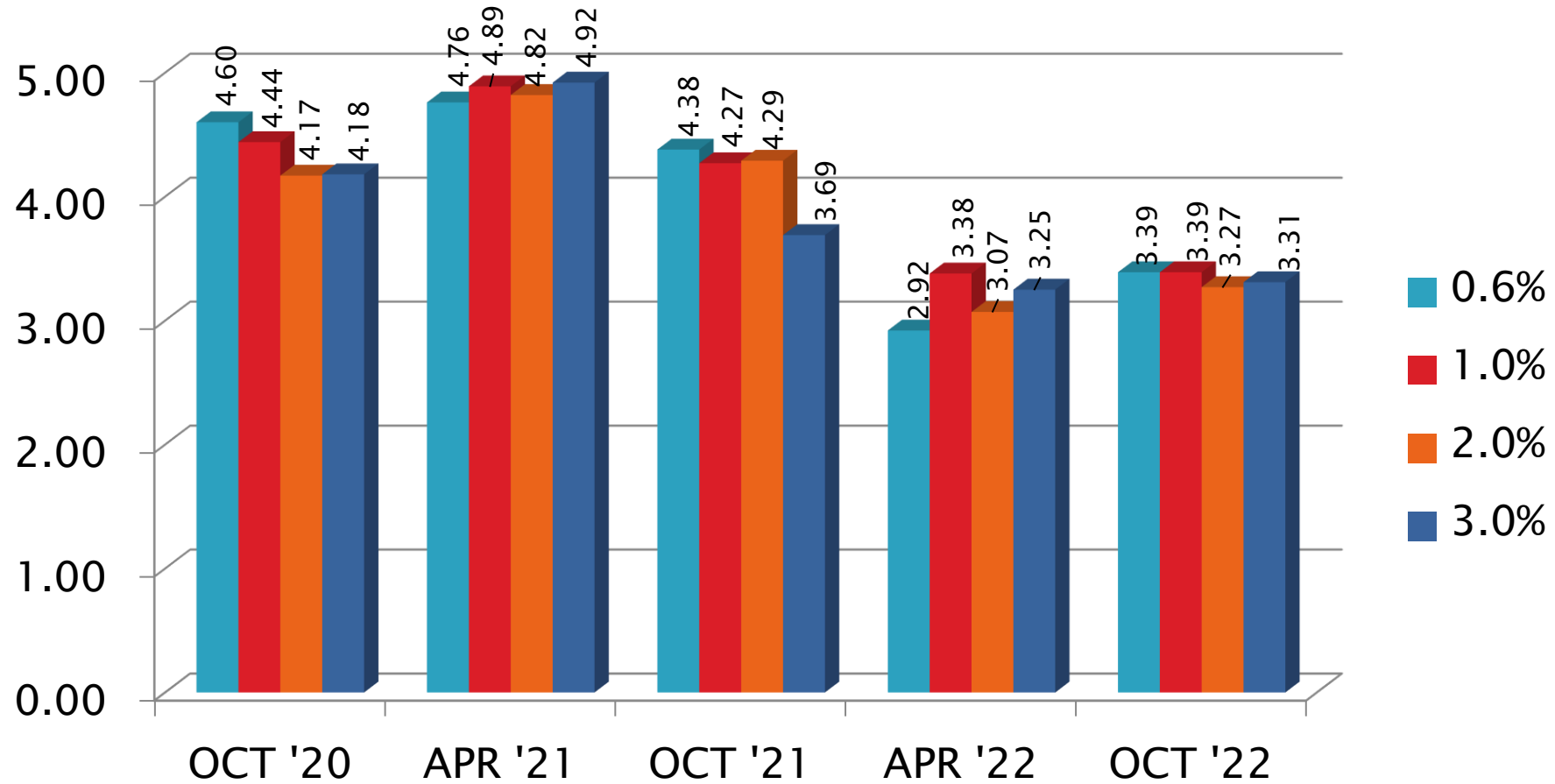


CUSUM Severity Analysis



EOWT Precision Estimates

CFA



Information Letters*

Test	Date	IL	Topic
			No new information letters this period.

*Available from TMC Website

Test Monitoring Center
<https://www.astmtmc.org>



Reference Oil Inventory Estimated Life

Oil	TMC Inventory (gallons)	Quantity Shipped in last 6 months (gallons)	Lab Inventory (samples)	Estimated Life
77-3	482.5	28.3	134	5+ years
79	271.6	39.4	132	3 years

Miscellaneous Information

- ▶ Available on TMC Website:
 - Oil Assignment Request and Test File Upload
 - Live Reference Test Data Bases
 - Surveillance Panel Meeting Minutes
- ▶ <https://www.astmtmc.org>



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