



Test Monitoring Center

@ Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 17-006
DATE: May 1, 2017
TO: Gil Reinhard, Chairman, CBT Surveillance Panel
FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*
SUBJECT: CBT Testing from October 1, 2016 through March 31, 2017

A total of 16 CBT tests were reported to the Test Monitoring Center during the report period from October 1, 2016 through March 31, 2017.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0417.doc/mem17-006.mtk.doc

cc: F. M. Farber

J. A. Clark

CBT Surveillance Panel

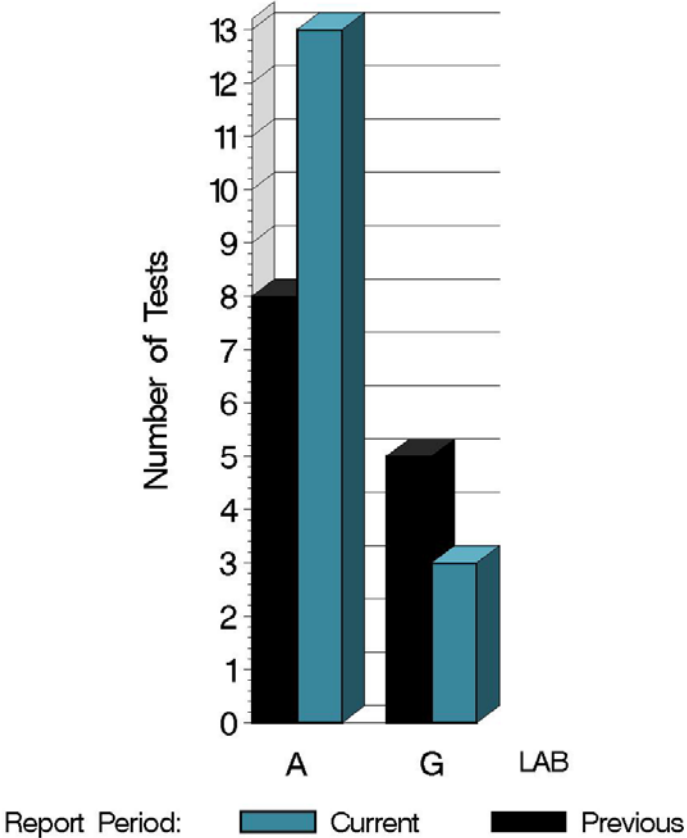
<ftp://ftp.astmtmc.cmu.edu/docs/bench/cbt/semiannualreports/cbt-04-2017.pdf>

Distribution: email

CBT (D 5968)

Reporting Data	
Number of Labs	2

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



9:36:04 01MAY2017

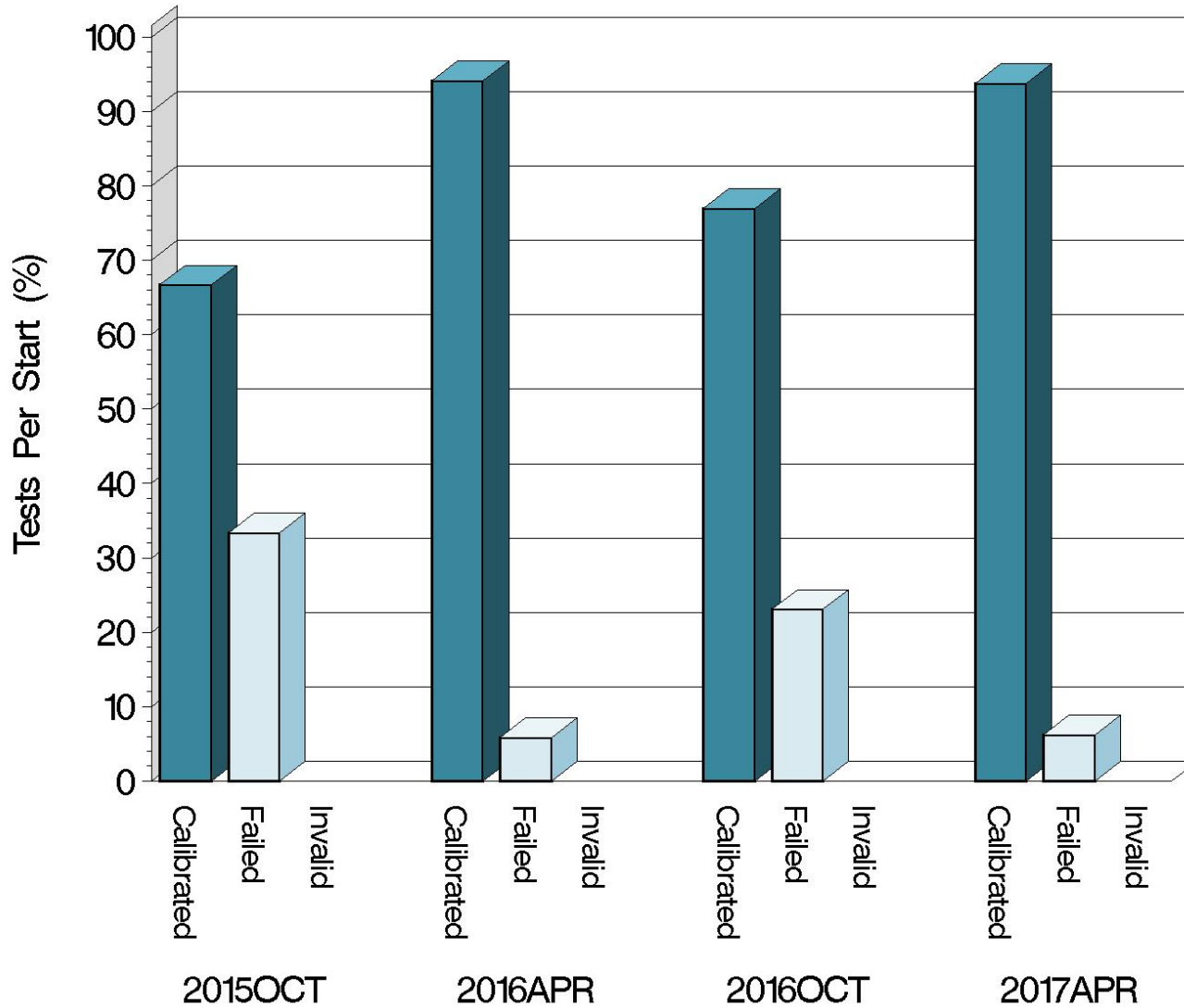
CBT (D 5968)

Test Distribution by Validity

		Number of Tests
Accepted for Calibration	AC	15
Rejected	OC	1
Invalidated	LC	0
Aborted	XC	0
Hardware Approval run	NI	0
Unacceptable Approval run	MI	0
Invalid Approval run	LI	0
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Total		16

CBT (D 5968)

CALIBRATION ATTEMPT SUMMARY



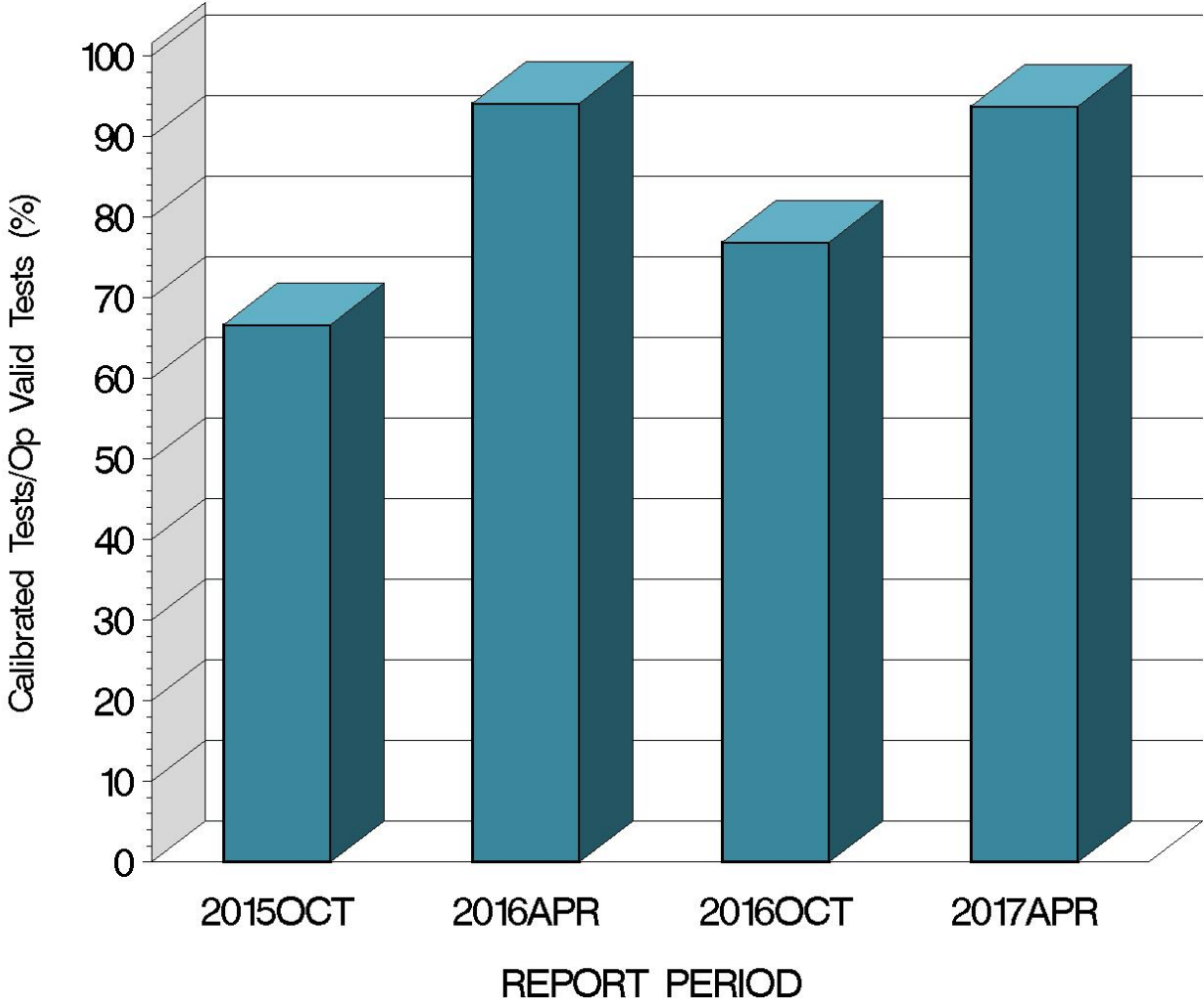
Resolution

Report Period

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CBT (D 5968)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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CBT (D 5968)

CAUSES FOR LOST TESTS

Summary of Reasons for Failed Tests	No. of Tests
Mild Lead Concentration	1

Summary of Reasons for Invalid Tests	No. of Tests
No tests were invalid this period	0

Summary of Reasons for Aborted Tests	No. of Tests
No tests were aborted this period	0

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Average Δ /s By Laboratory			
Lab	n	CUC	PBC
A	13	-1.475	-1.83949
G	3	-1.656	-1.24
Industry	16	-1.509	-1.72708

Individual test results can be found on the TMC Web Page at the following link:

<ftp://ftp.astmtmc.cmu.edu/refdata/bench/cbt/data/>

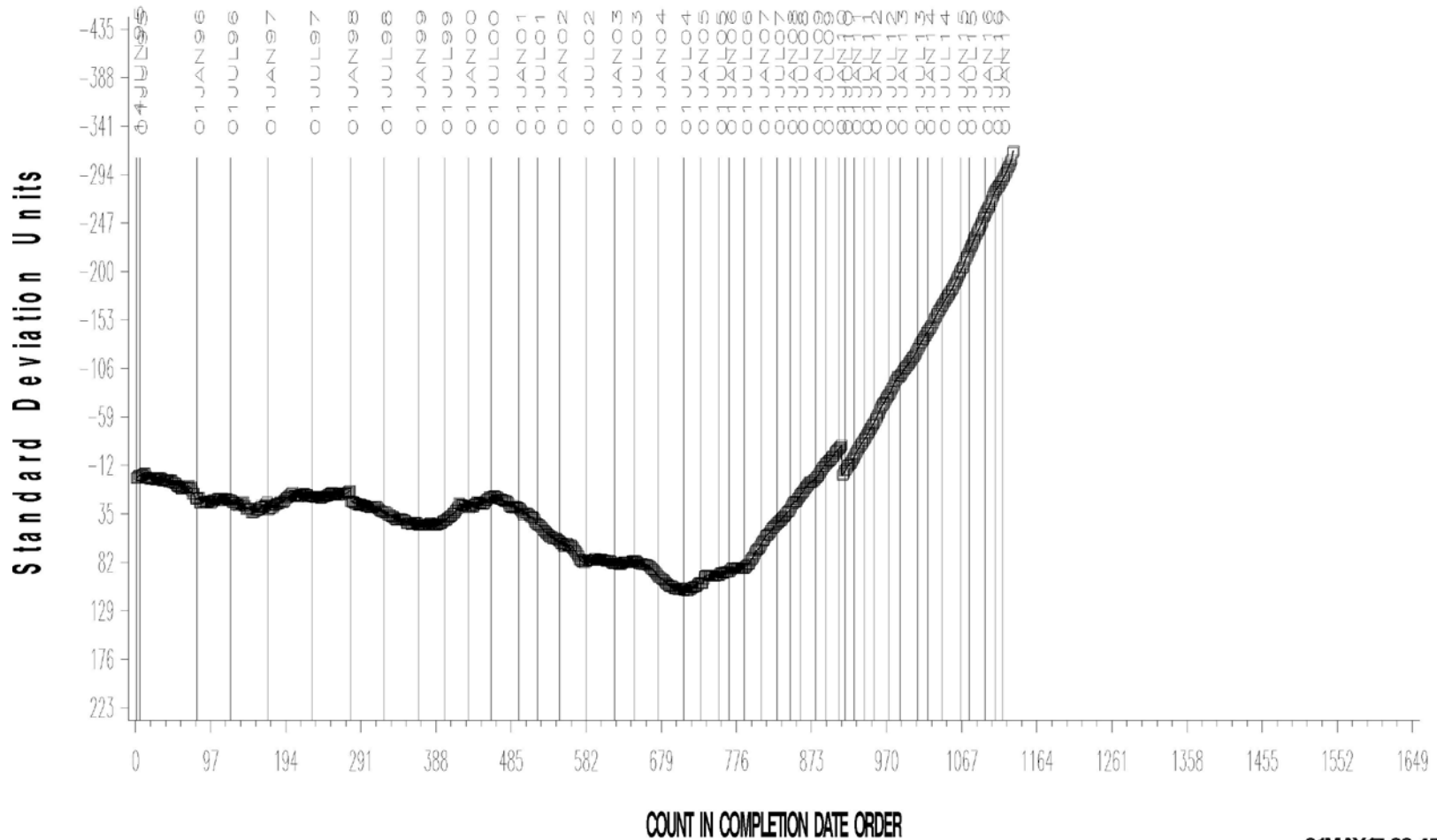
CBT (D 5968)

CBT INDUSTRY OPERATIONALLY VALID DATA



COPPER CHANGE (ppm)

CUSUM Severity Analysis



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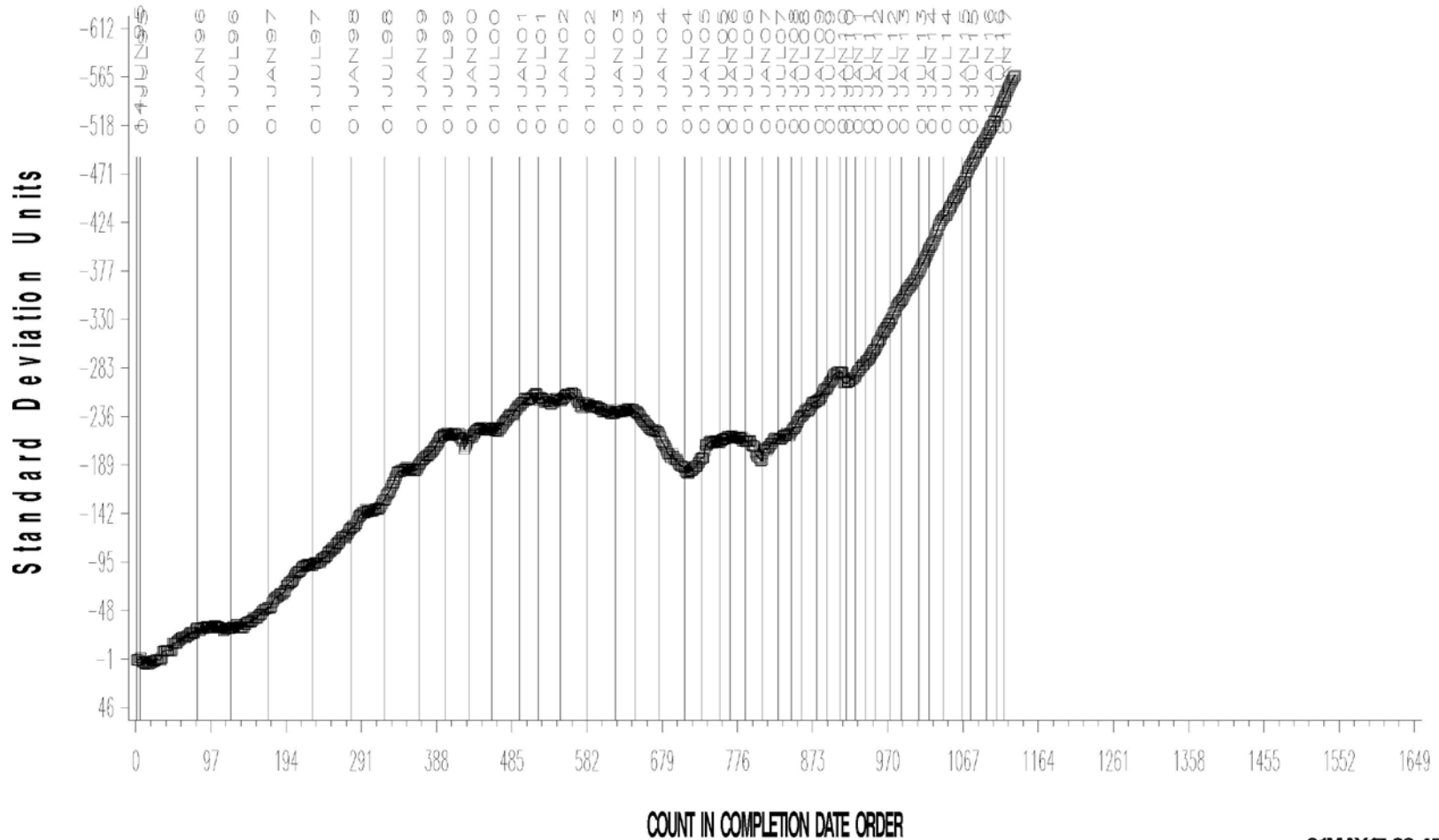
CBT (D 5968)

CBT INDUSTRY OPERATIONALLY VALID DATA



LEAD CHANGE (ppm)

CUSUM Severity Analysis



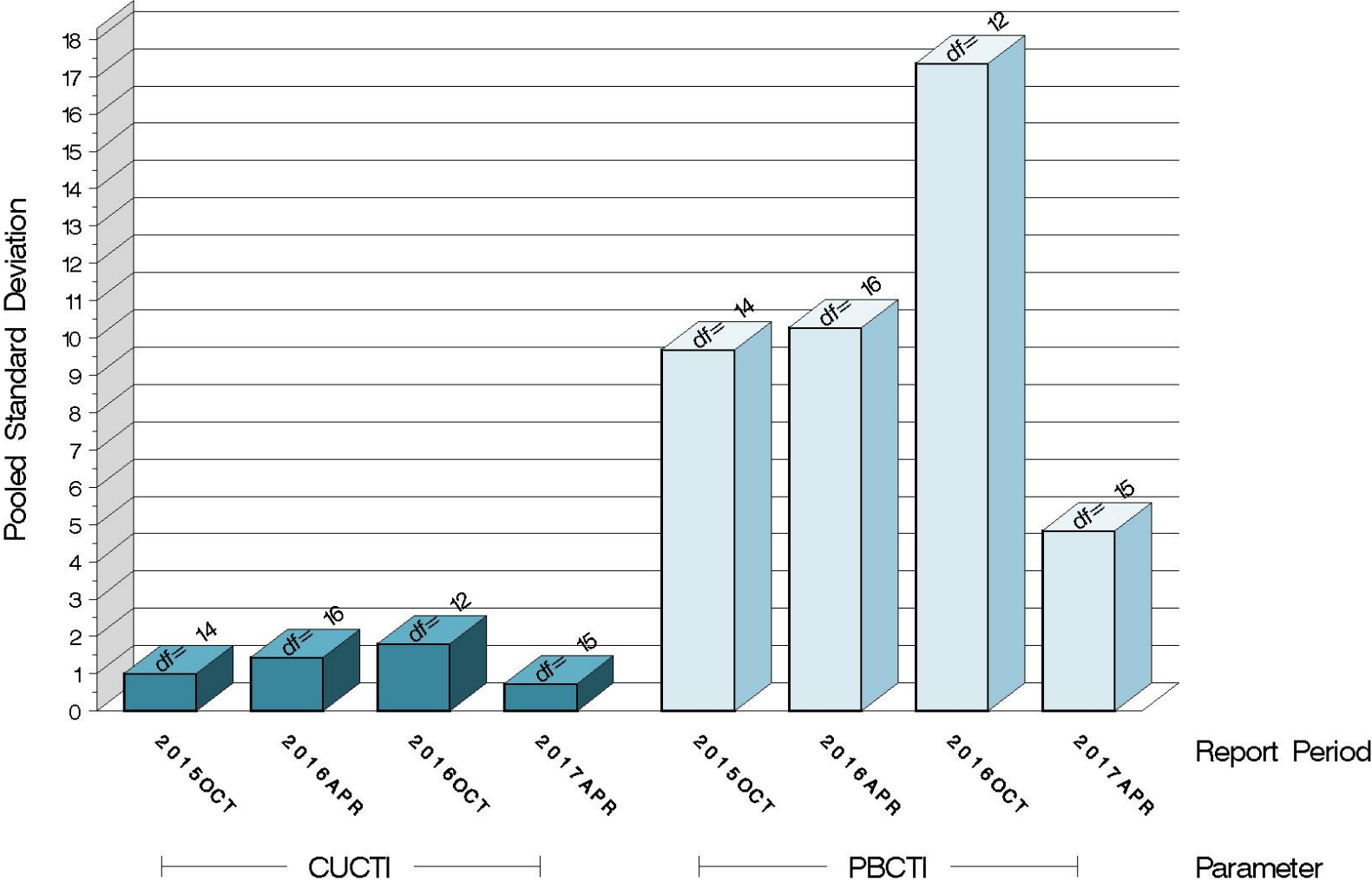
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CBT (D 5968)

TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, both copper and lead severity, as measured by CUSUM plotting, continued the existing mild trend.

Precision

Pooled s for this period is 0.72 for copper and 4.82 for lead.

Precision, as measured by pooled standard deviation, is much better than previous periods for copper and lead, but is still within historical levels.

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INFORMATION LETTERS

No CBT Information Letters were issued this period.

CBT (D 5968)

STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (4 oz)	Gallons
43	25	1260	39.4