

Test Monitoring Center

@ Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM: 16-032

DATE: October 17, 2016

TO: Gil Reinhard, Chairman, CBT Surveillance Panel

FROM: Michael T. Kasimirsky Michael J. Rasimirsky

SUBJECT: CBT Testing from April 1, 2016 through September 30, 2016

A total of 13 CBT tests were reported to the Test Monitoring Center during the report period from April 1, 2016 through September 30, 2016.

Please find attached a summary of testing activity this period.

MTK/mtk/astm1016.doc/mem16-032.mtk.doc

cc: F. M. Farber J. A. Clark

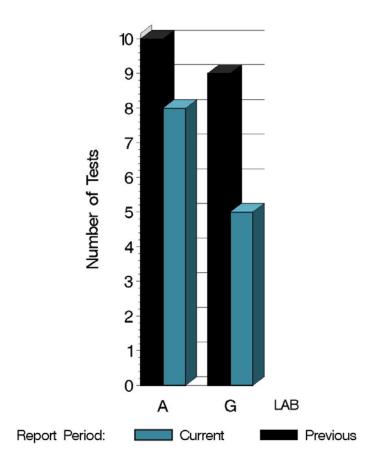
CBT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/bench/cbt/semiannualreports/cbt-10-2016.pdf

Distribution: email

	Reporting Data
Number of Labs	2

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD





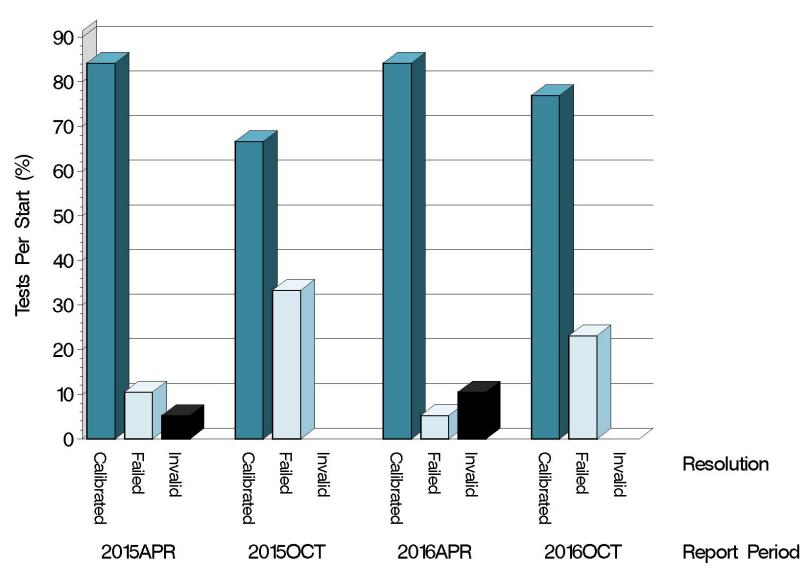


Test Distribution by Validity

		Number of Tests
Accepted for Calibration	AC	10
Rejected	OC	3
Invalidated	LC	0
Aborted	XC	0
Hardware Approval run	NI	0
Unacceptable Approval run	MI	0
Invalid Approval run	LI	0
Total		13



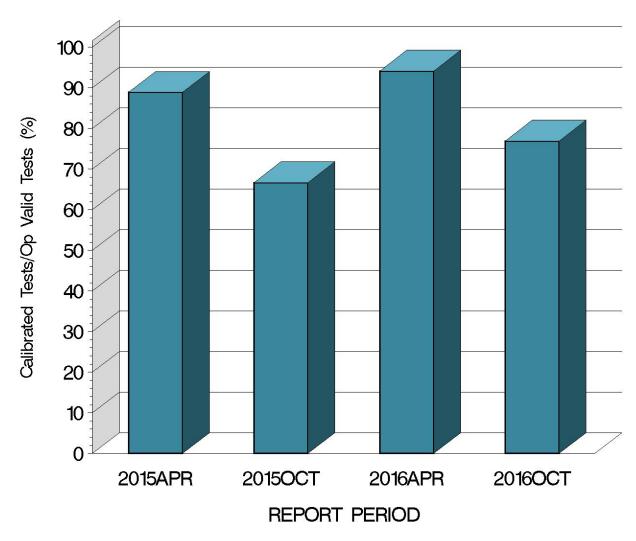
CALIBRATION ATTEMPT SUMMARY







OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA







CAUSES FOR LOST TESTS

Summary of Reasons for Failed Tests	No. of Tests
Mild Copper Concentration	1
Mild Copper & Lead Concentration	2

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



Average Δ/s By Laboratory			
Lab	n	CUC	PBC
Α	8	-1.589	-2.26833
G	5	-1.563	-0.47867
Industry	13	-1.579	-1.58

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

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



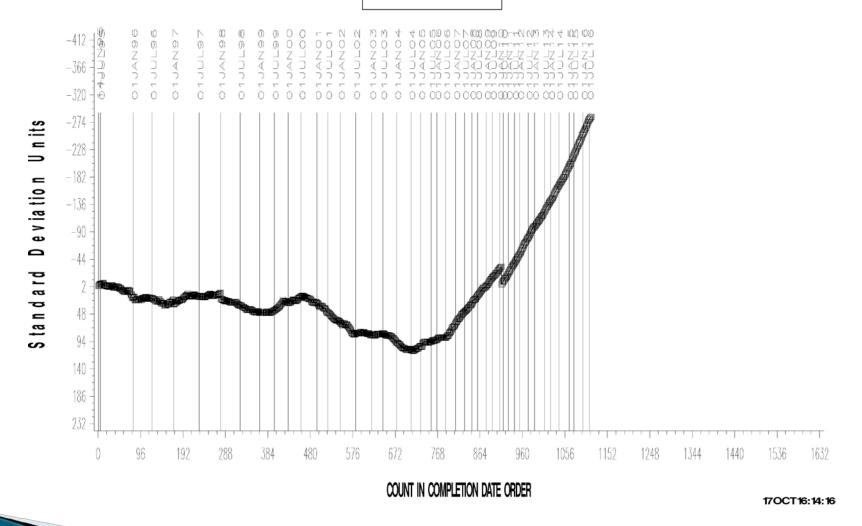


CBT INDUSTRY OPERATIONALLY VALID DATA



COPPER CHANGE (ppm)

CUSUM Severity Analysis





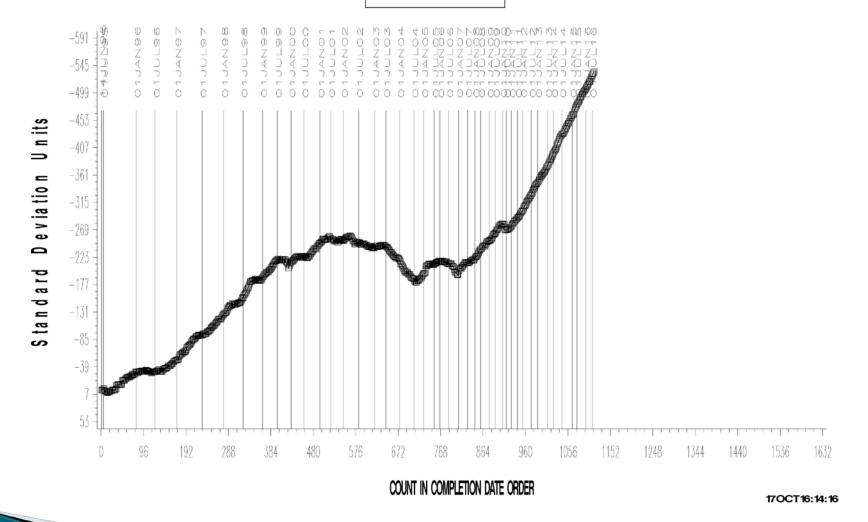


CBT INDUSTRY OPERATIONALLY VALID DATA



LEAD CHANGE (ppm)

CUSUM Severity Analysis



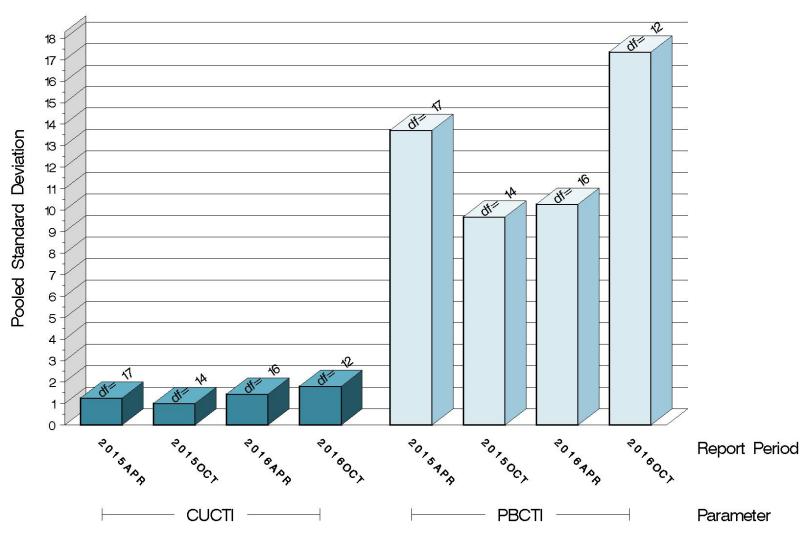




http://astmtmc.cmu.edu

TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD







CBT (D 5968) 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 1.80 for copper and 17.36 for lead.

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





INFORMATION LETTERS

No CBT Information Letters were issued this period.



STATUS OF REFERENCE OIL SUPPLY

		@ TMC	
Oil	Samples @	Samples (4	Gallons
	Labs	oz)	
43	36	1273	39.8

