



Test Monitoring Center

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

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

MEMORANDUM: 17-029
DATE: October 9, 2017
TO: Angela Trader, Chairman, L-33-1 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-33-1 Testing from April 1, 2017 through September 30, 2017

Attached is a summary of testing activity this period.

DJB/djb/mem17-029.djb.doc

cc: Frank Farber

Jeff Clark

Scott Parke

L-33-1 Surveillance Panel

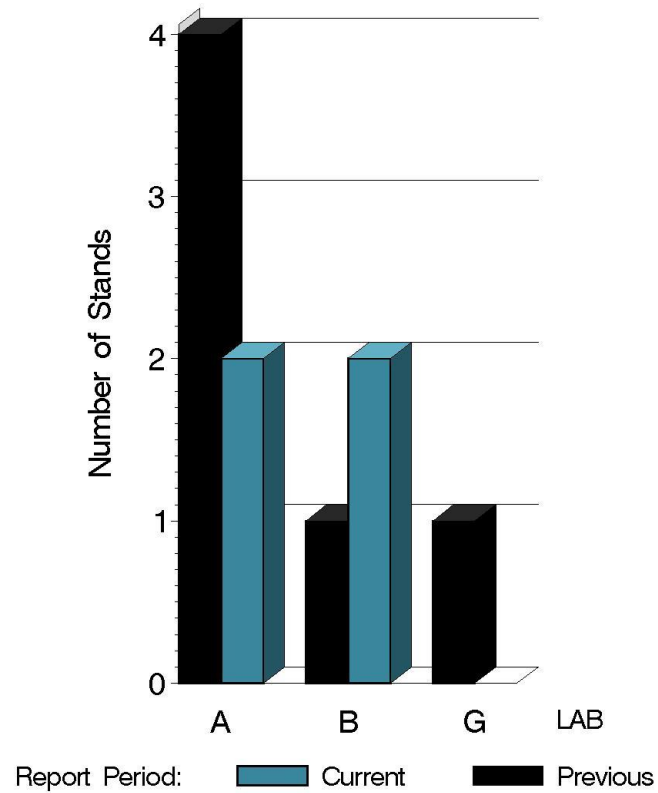
<http://www.astmtmc.cmu.edu/ftp/docs/gear/1331/semiannualreports/1331-10-2017.pdf>

Distribution: email

L-33-1 (D7038)

	Reporting Data	Calibrated on 9-30-17
Number of Labs	2	2
Number of Stands	4	4

BY-LAB STAND
DISTRIBUTION



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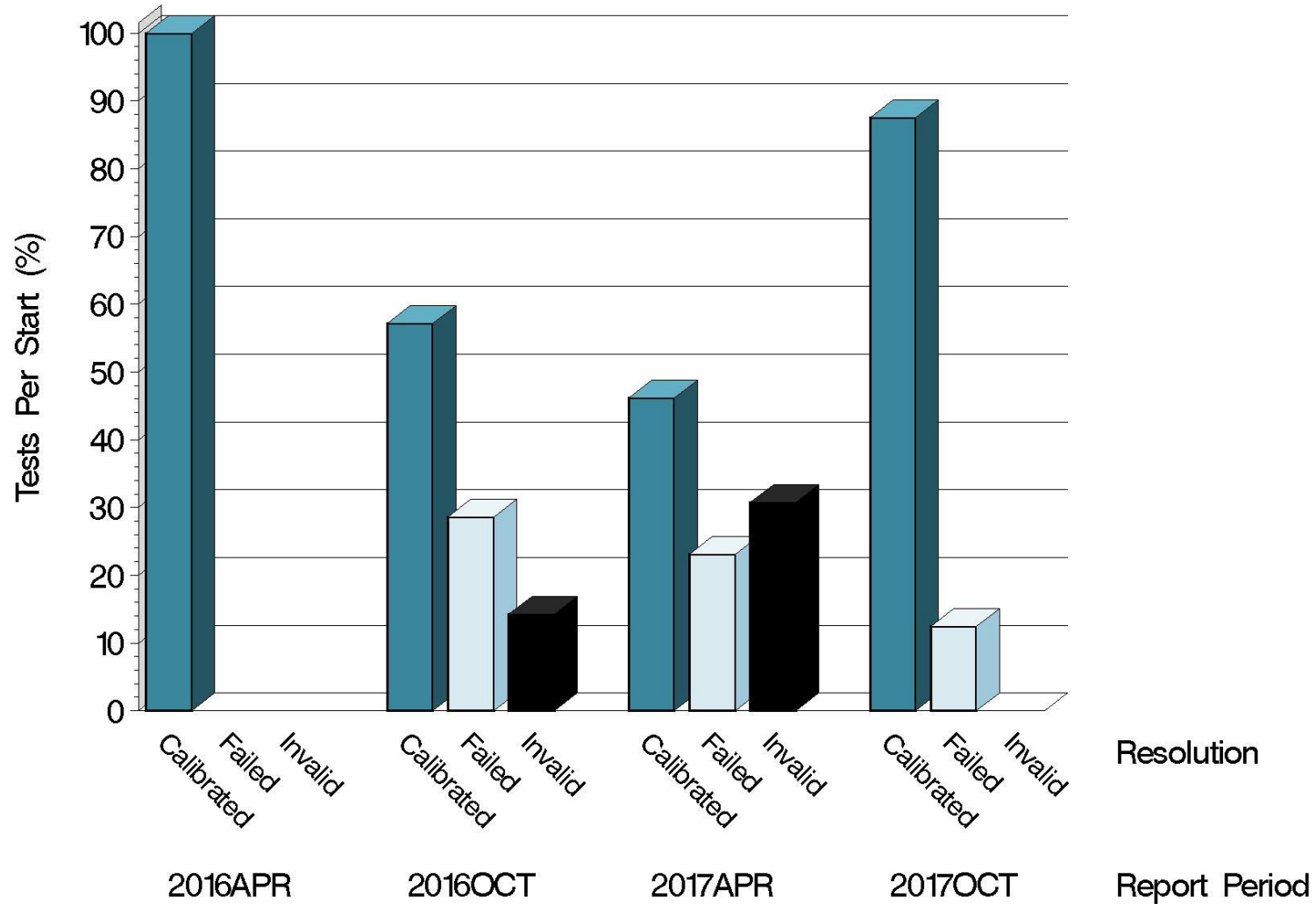
L-33-1 (D7038)

Test Distribution by Oil and Validity

					Totals	
		123-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	5	0	2	6	7
Rejected (Mild)	OC	0	0	1	0	1
Rejected (Severe)	OC	0	0	0	0	0
Rejected (Precision)	OC	0	0	0	3	0
Invalidated calibration	LC	0	0	0	1	0
Aborted	XC	0	0	0	3	0
Unacceptable info run	MI	0	0	0	0	0
Accepted information run	NI	0	0	0	1	0
Total		5	0	3	14	8

L-33-1 (D7038)

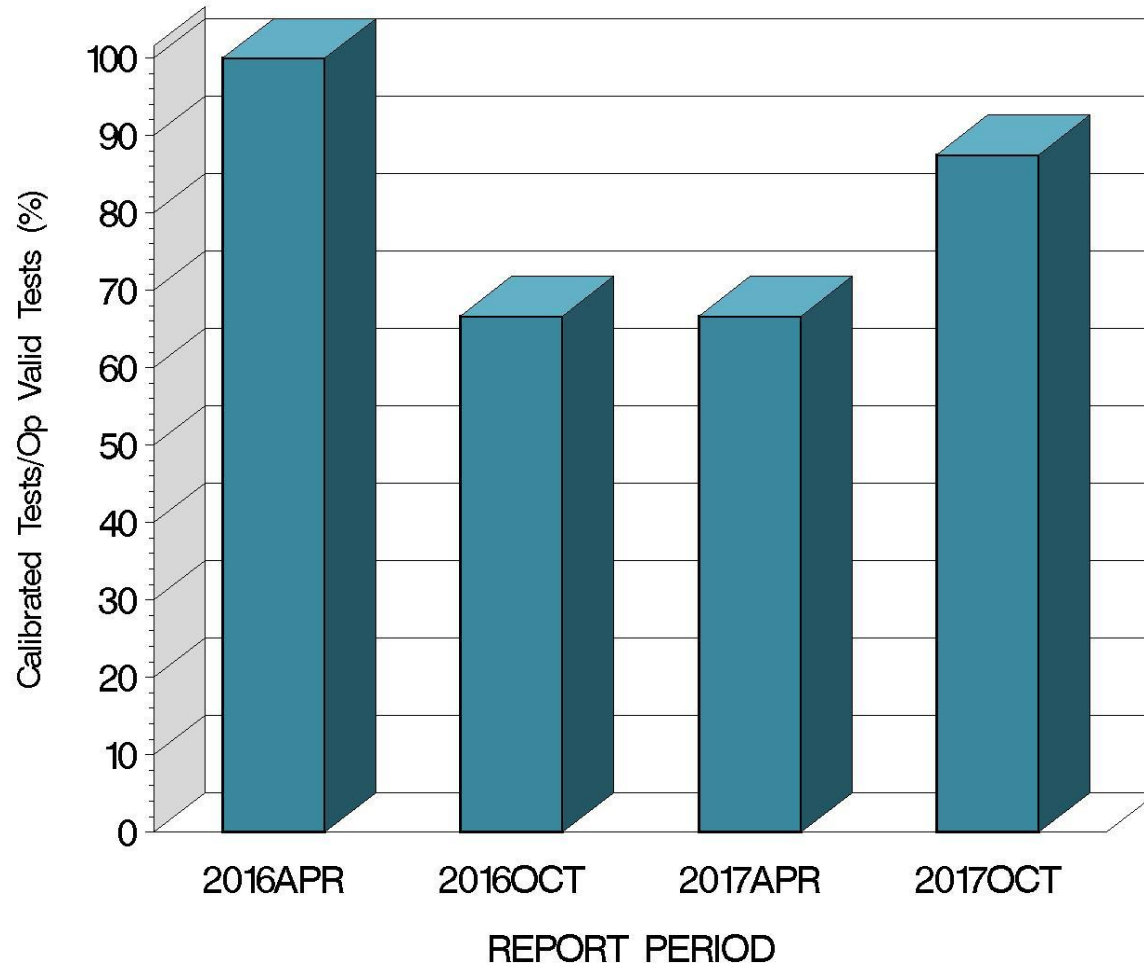
CALIBRATION ATTEMPT SUMMARY



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L-33-1 (D7038)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA

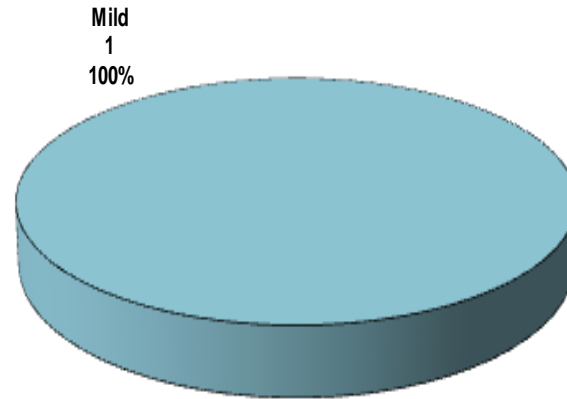


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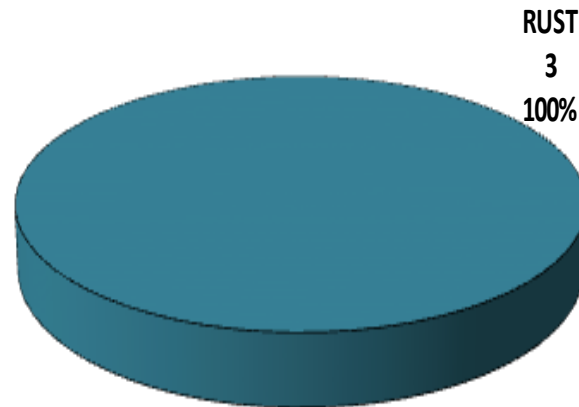
L-33-1 (D7038)

CAUSES FOR FAILED TESTS

By Alarm Type



By Parameter



L-33-1 (D7038)

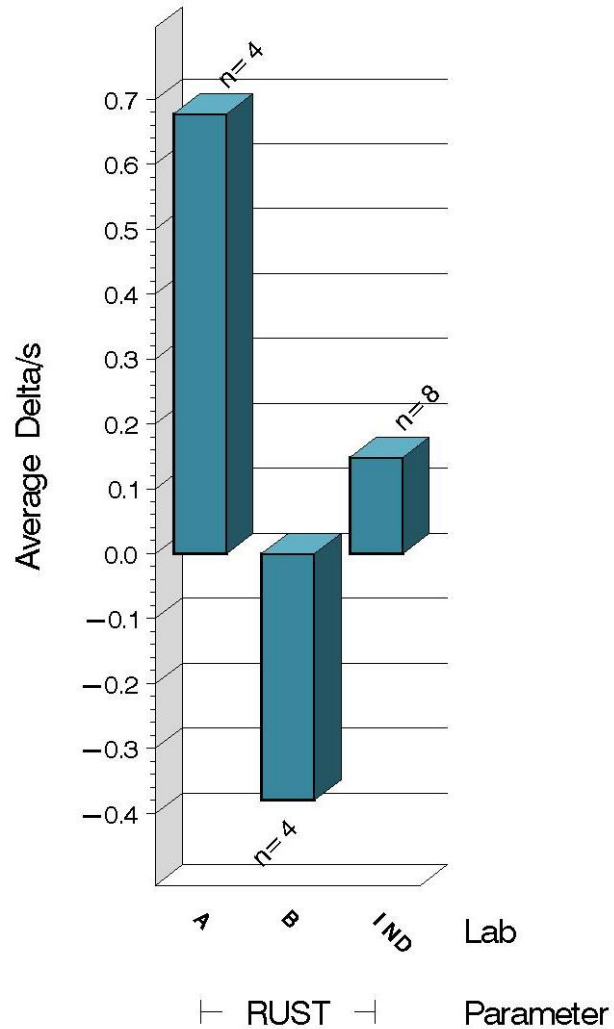
CAUSES FOR LOST TESTS

Lab	Cause	Oil			Validity			Loss Rate		
		123-2	155	155-1	RC	LC	XC	Lost	Starts	%
	No tests were lost this period							0	4	0%
	Lost	0	0	0	0	0	0			
	Starts	5	0	3	8	8	8			
	%	0%	0%	0%	0%	0%	0%			

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TEST SEVERITY

DELTA/S BY LAB

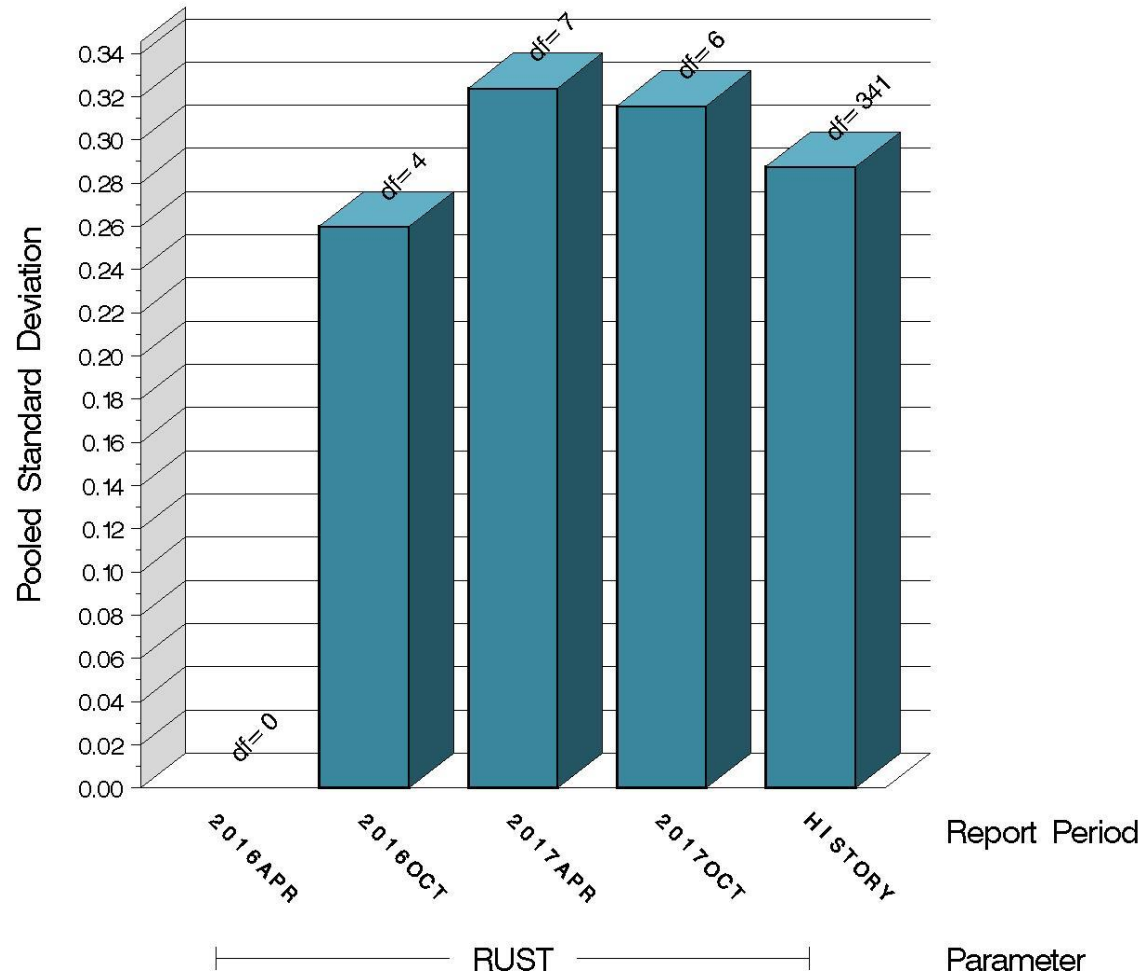


Average Δ/s by Lab		
Lab	n	RUST
A	4	0.677
B	4	-0.380
G	0	0
Industry	8	0.149
Shift	8	0.037 merits

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TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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SUMMARY OF SEVERITY & PRECISION

Severity

Average RUST Δ/s this period was 0.149. Using the target standard deviation for oil 155 (0.250), this equates to 0.037 merits severe.

Precision

A severe result ($Y_i = +2.947$) from lab A generated a precision alarm that exceeded the action limit. The alarm has since been cleared with more recent testing.

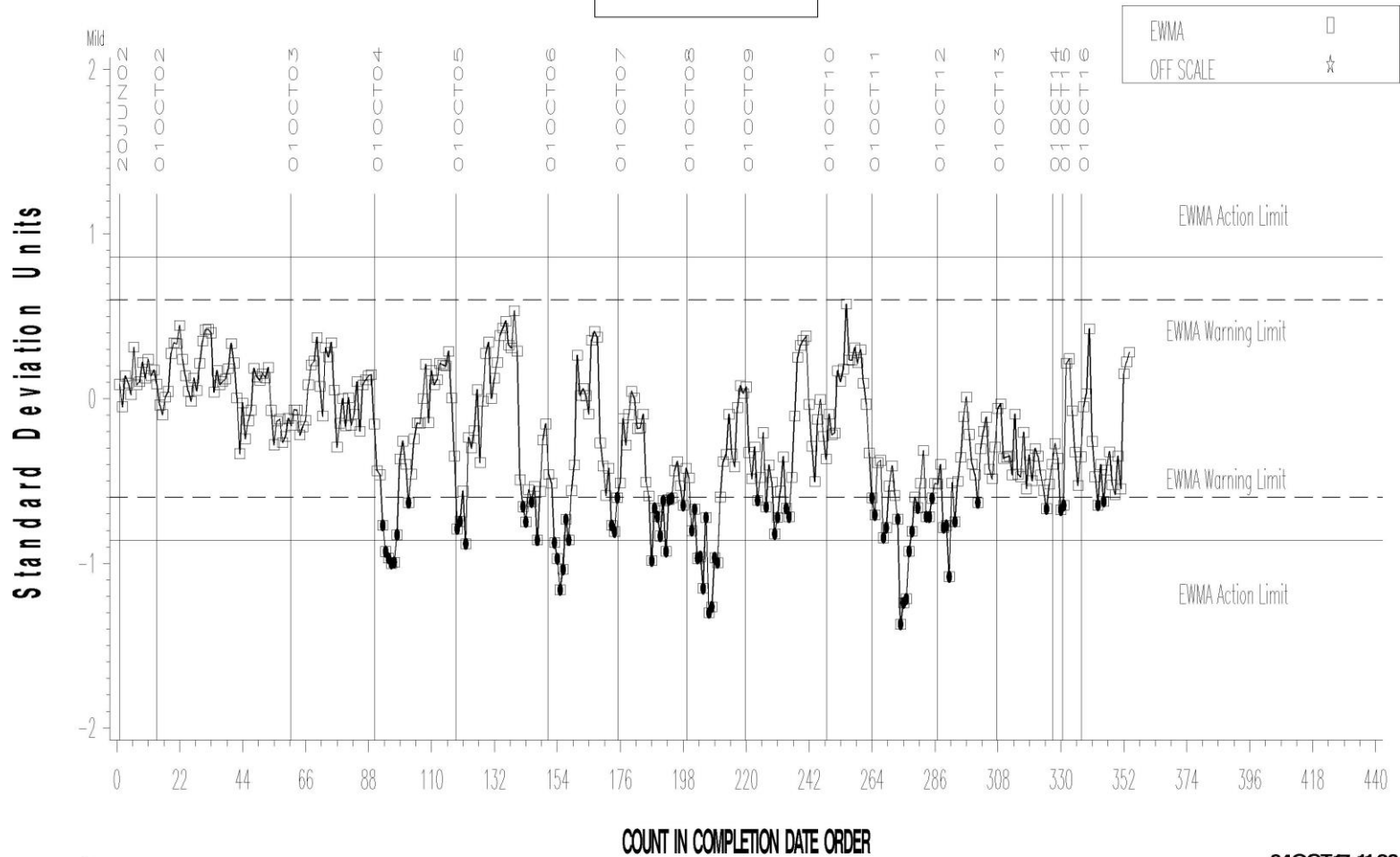
Industry control charts follow.

L-33-1 (D7038)

L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Severity Analysis



Severity

04OCT17:11:28

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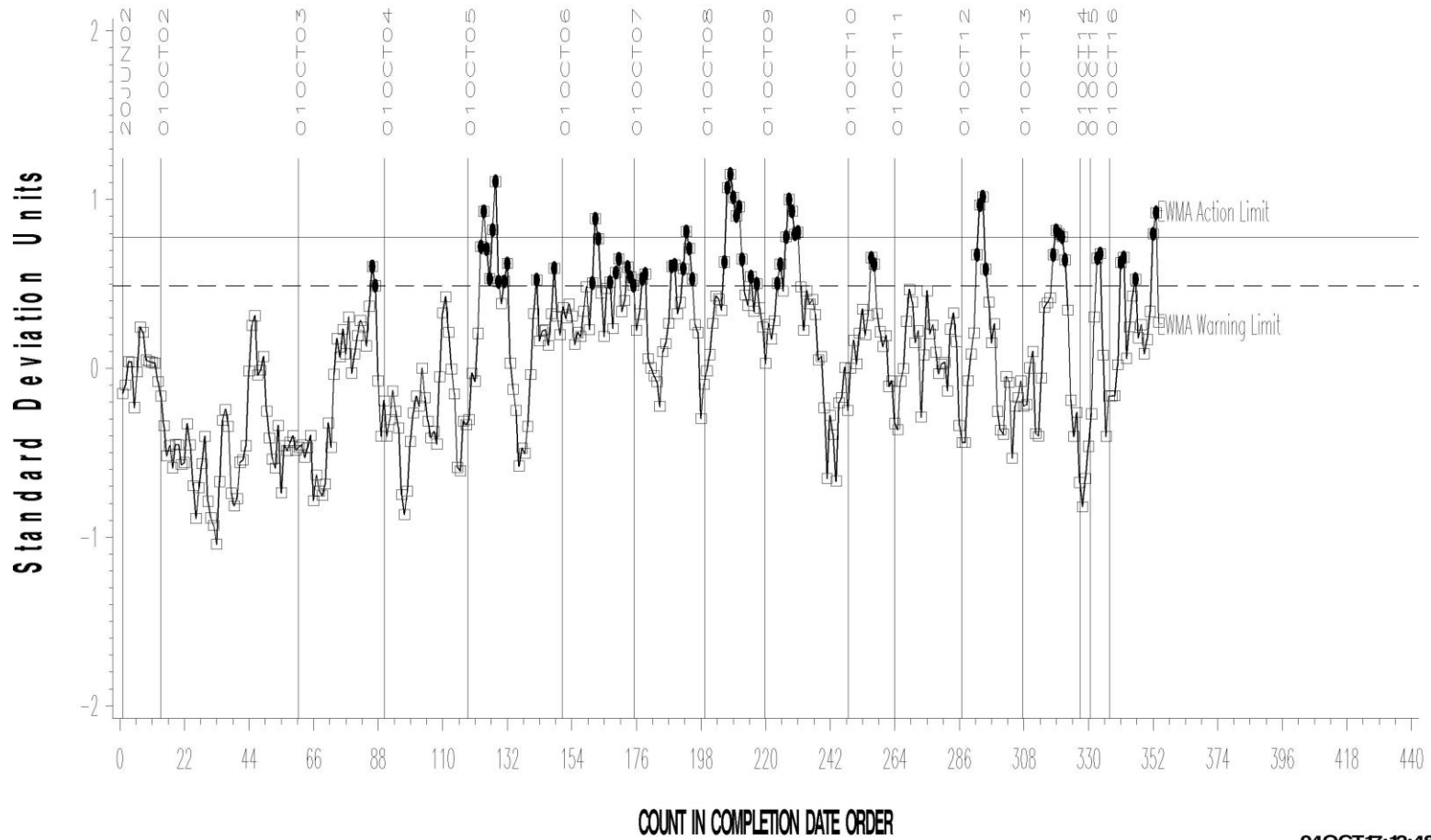
A Program of ASTM International

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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

LTMS Precision Analysis



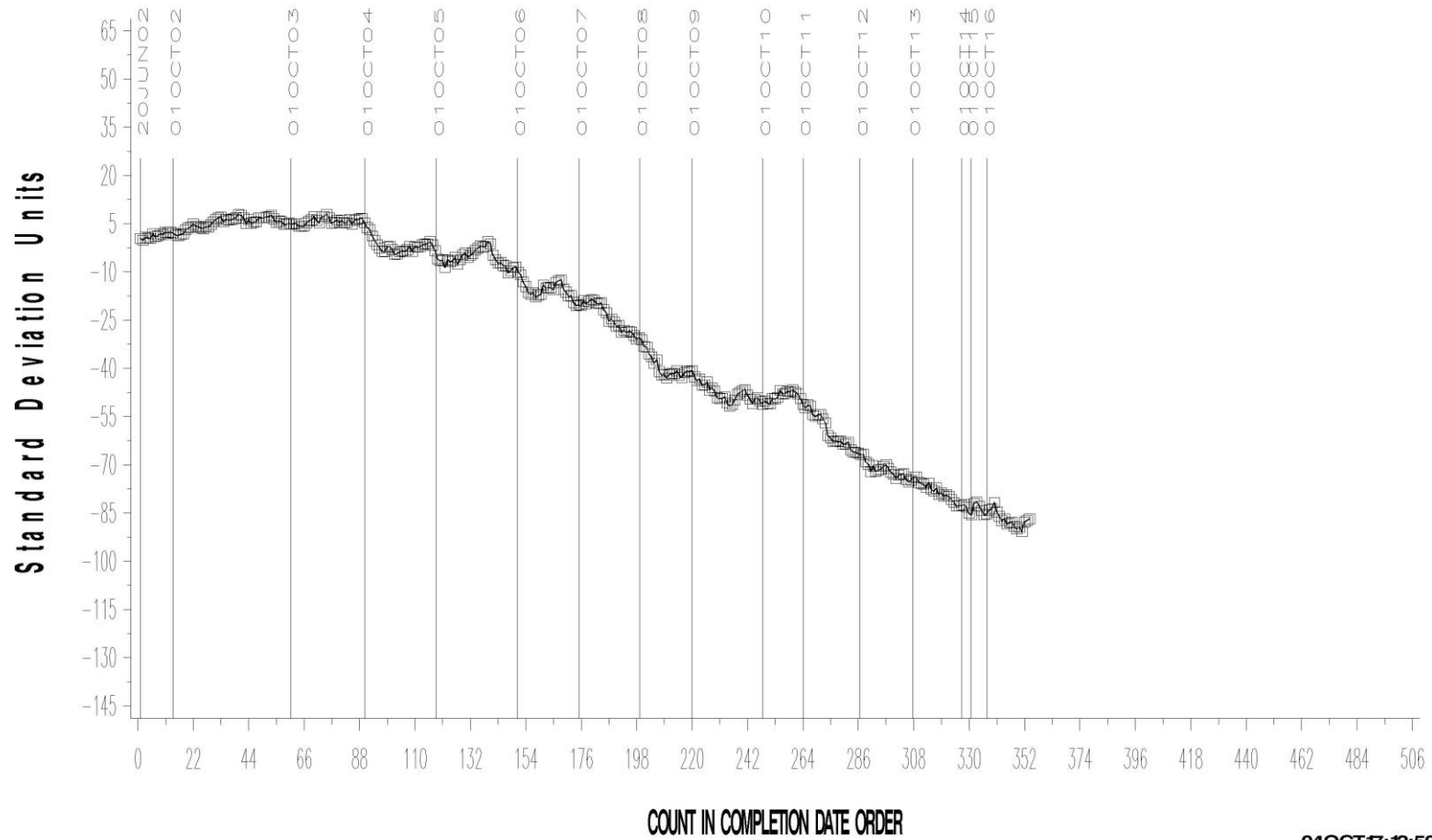
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT

CUSUM Severity Analysis



04OCT17: 12:50

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TIMELINE ADDITIONS

Effective Date	Information Letter	Event
20170711	17-1	Editorial - storage box fan, blast nozzle, precision statement

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LAB VISITS

No lab visits were conducted during this period.

INFORMATION LETTERS

Information letter 17-1 was issued during this period. This letter covered clarification on storage box fan motor requirements, guidance on installing blast nozzle correctly, an editorial correction of typo in Section 8.1, and a revised precision statement for AAM hardware.

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STATUS OF REFERENCE OIL SUPPLY

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
123-2	12	116	116.8
155	0	15	15.0
155-1	11	186	186.5
Total	23	317	318.2

The TMC quantity remaining presumes usage only for L-33-1 testing. Oil 155/155-1 is also used in other test areas (L-37, L-37-1, L-60-1, and HTCT).