



Test Monitoring Center


@ Carnegie Mellon University
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<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 13-050

DATE: October 2, 2013

TO: Brian Koehler, Chairman, High Temperature Cyclic Durability Test
Surveillance Panel

FROM: Scott Parke 

SUBJECT: HTCT Testing from April 1, 2013 through September 30, 2013

Please find attached a summary of testing activity this period.

SDP/sdp/mem13-050.sdp.doc

cc: Frank Farber
Jeff Clark

HTCT Surveillance Panel

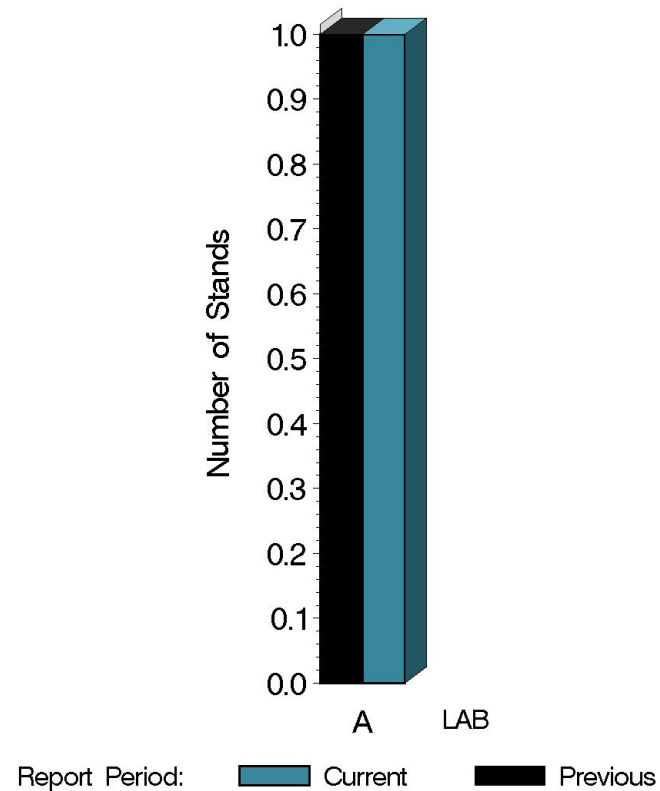
<ftp://ftp.astmtmc.cmu.edu/docs/gear/htct/semiannualreports/htct-10-2013.pdf>

Distribution: email

High Temperature Cyclic Transmission

	Reporting Data	Calibrated on 9-30-13
Number of Labs	1	1
Number of Stands	1	1

BY-LAB STAND
DISTRIBUTION



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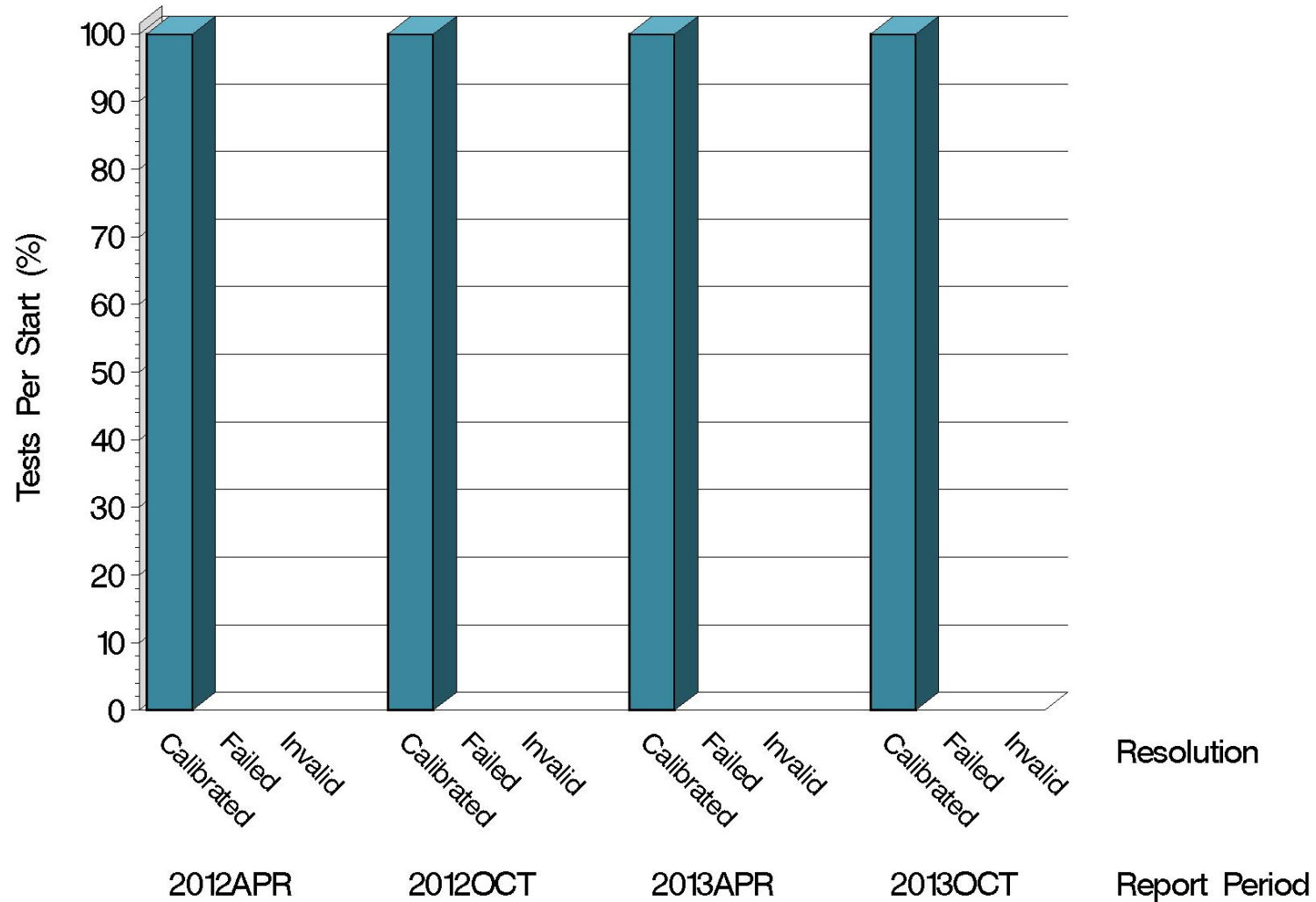
High Temperature Cyclic Transmission

Test Distribution by Oil and Validity

					Totals	
		150-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	0	0	1	3	1
Rejected (Mild)	OC	0	0	0	0	0
Rejected (Severe)	OC	0	0	0	0	0
Rejected (Precision)	OC	0	0	0	0	0
Invalidated calibration	LC	0	0	0	0	0
Aborted	XC	0	0	0	0	0
Accepted information run	NI	0	0	0	0	0
Total		0	0	1	3	1

High Temperature Cyclic Transmission

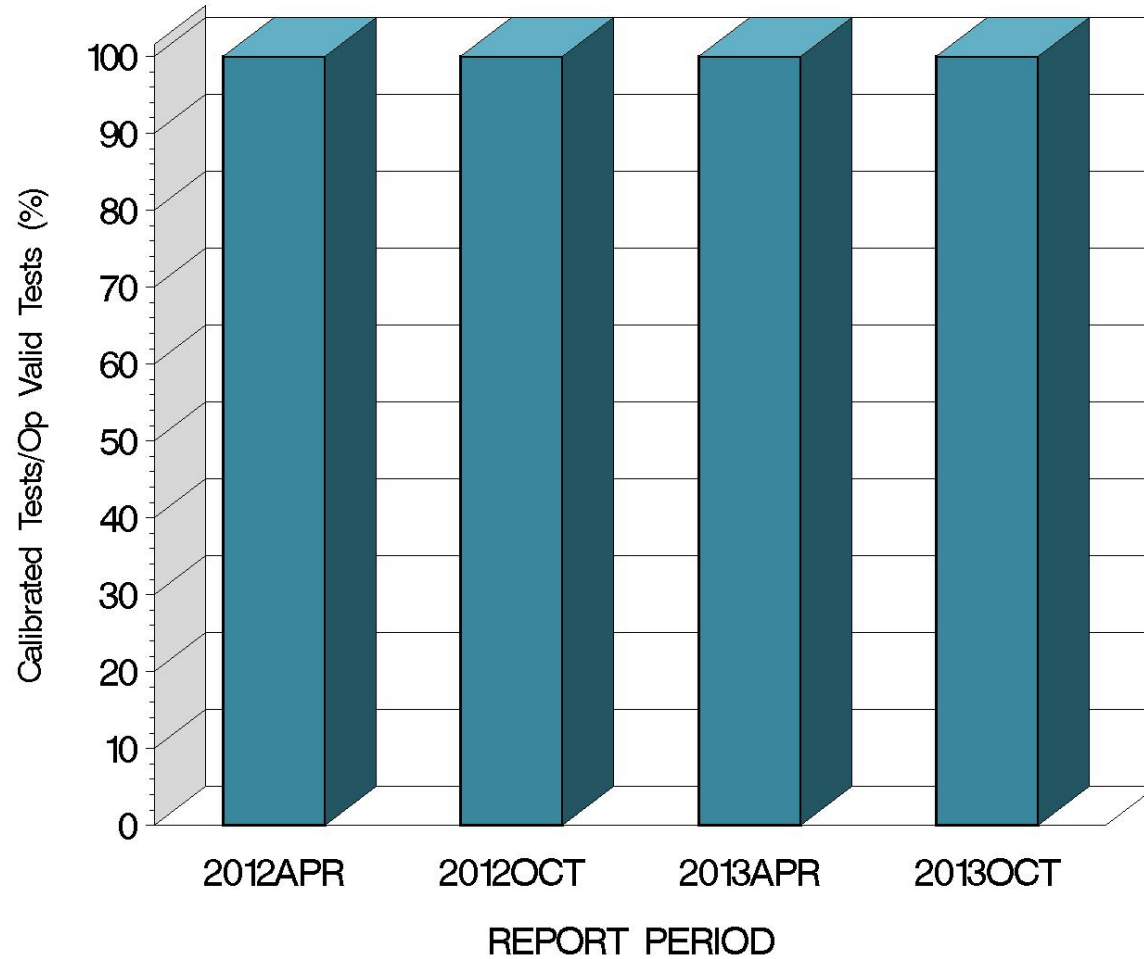
CALIBRATION ATTEMPT SUMMARY



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High Temperature Cyclic Transmission

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



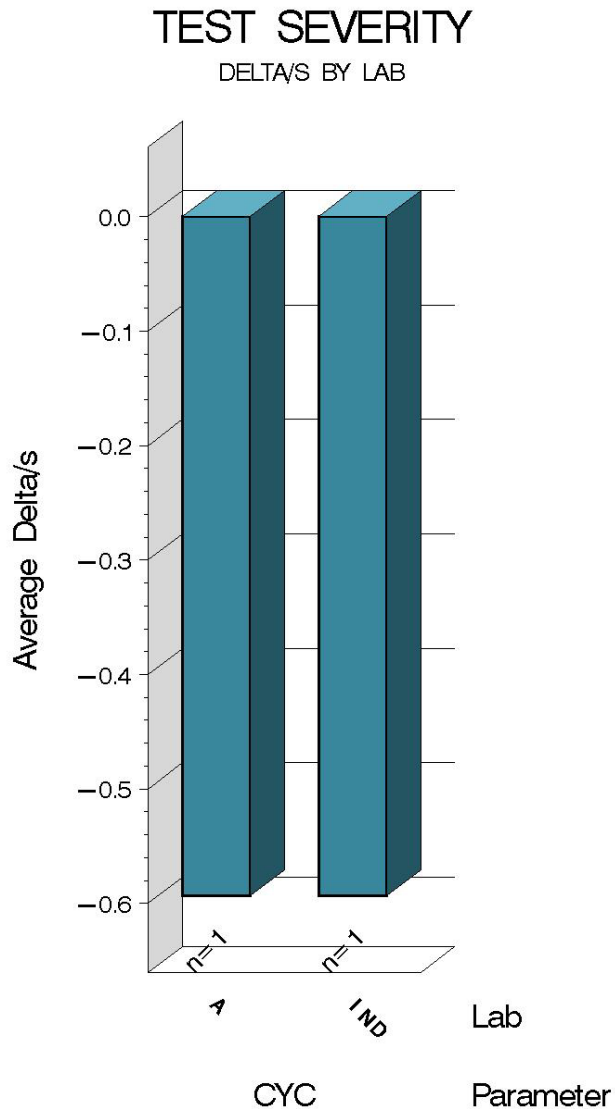
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High Temperature Cyclic Transmission

CAUSES FOR LOST TESTS

		Oil			Validity			Loss Rate		
Lab	Cause	150-2	155	155-1	RC	LC	XC	Lost	Starts	%
	No tests were lost this period.							0	1	0%
	Lost	0	0	0	0	0	0			
	Starts	0	0	1	1	1	1			
	%	0%	0%	0%	0%	0%	0%			

High Temperature Cyclic Transmission

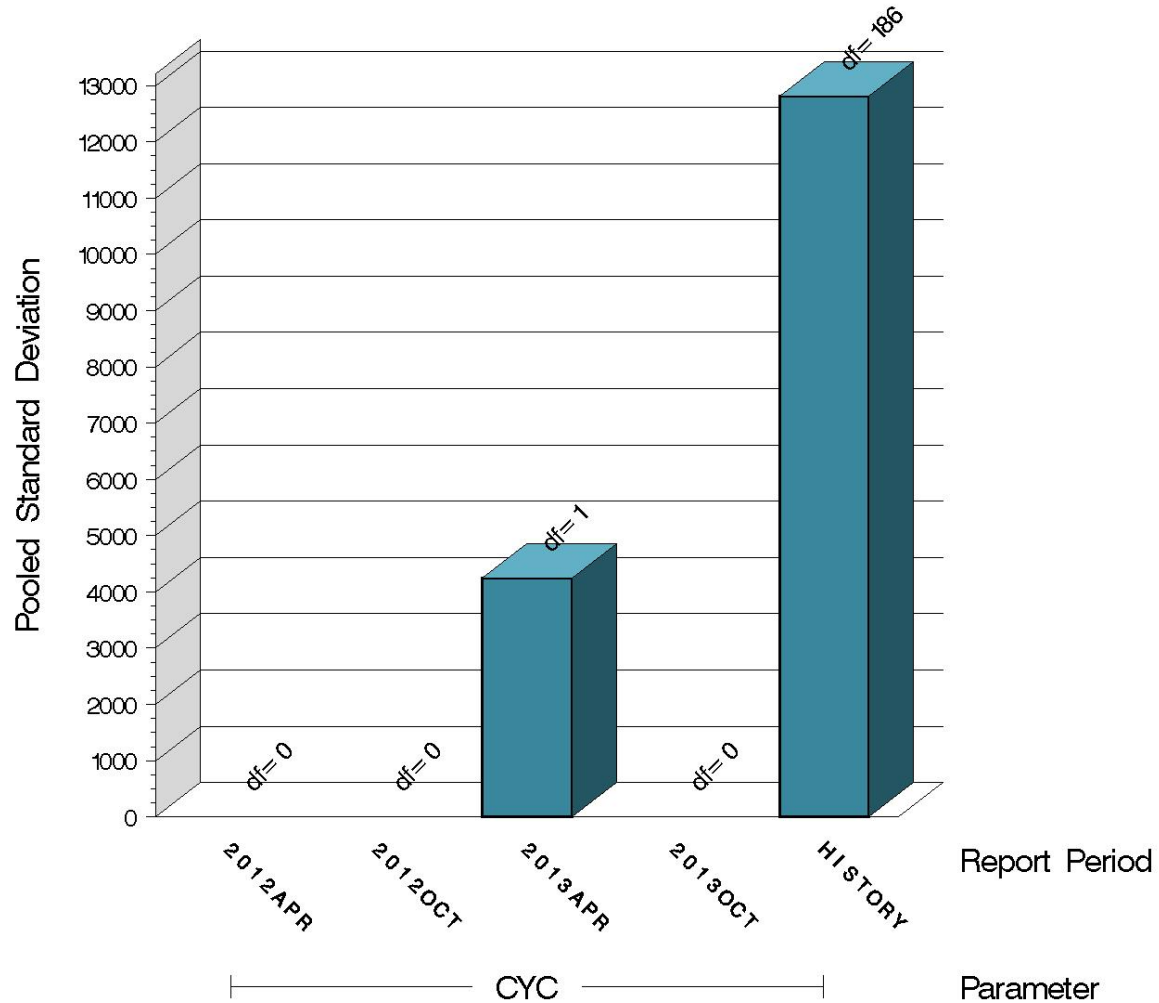


Average Δ/s by Lab		
Lab	n	CYC
A	1	-0.59
Industry	1	-0.59
Shift	1	-5734

High Temperature Cyclic Transmission

TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



13:56:22 01OCT2013

High Temperature Cyclic Transmission

SUMMARY OF SEVERITY & PRECISION

Severity

The CYC result reported this period was within severity control chart limits.

Precision

The CYC result reported this period did not result in any precision alarms.

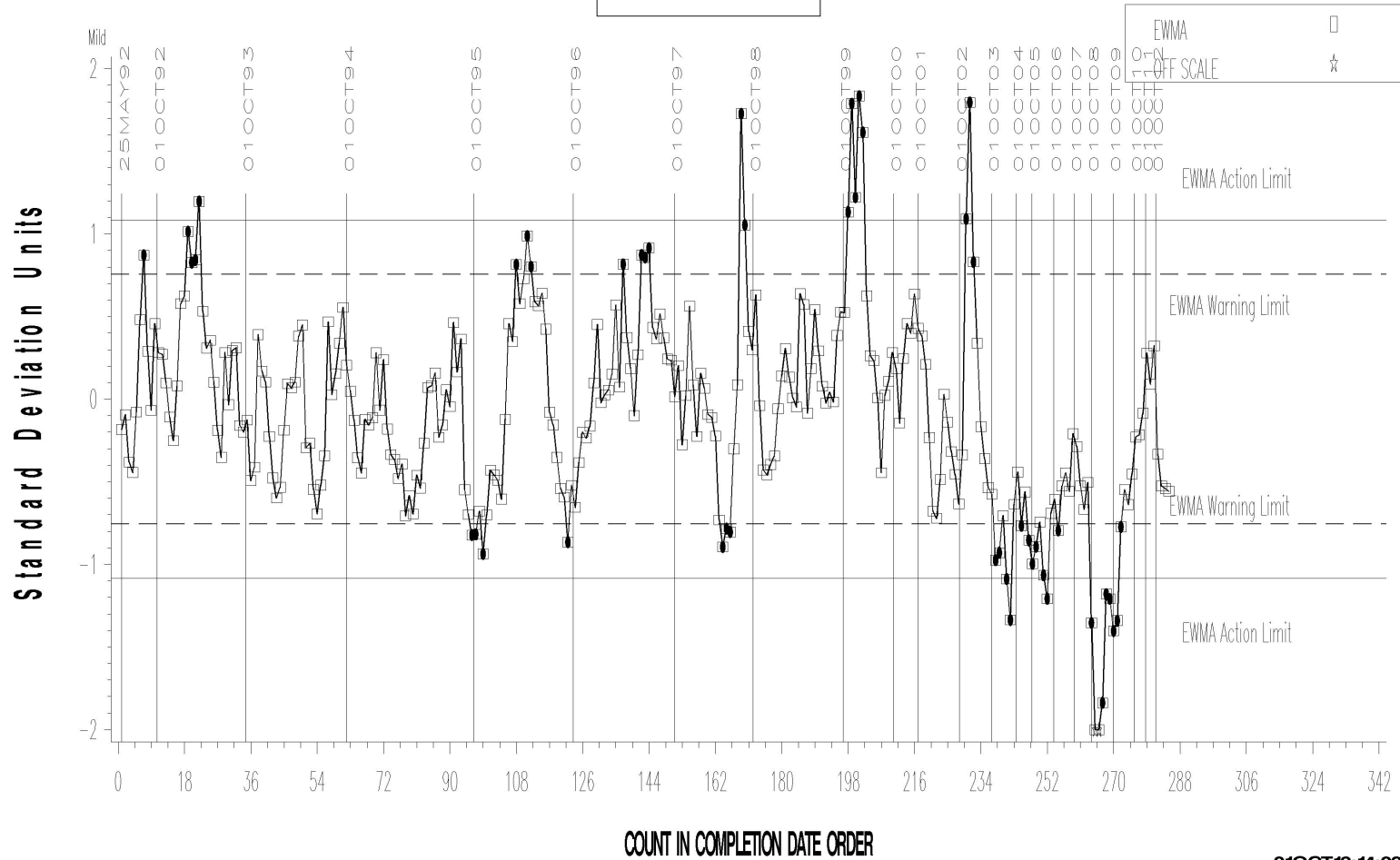
Industry control charts follow.

High Temperature Cyclic Transmission

HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

LTMS Severity Analysis



Severe

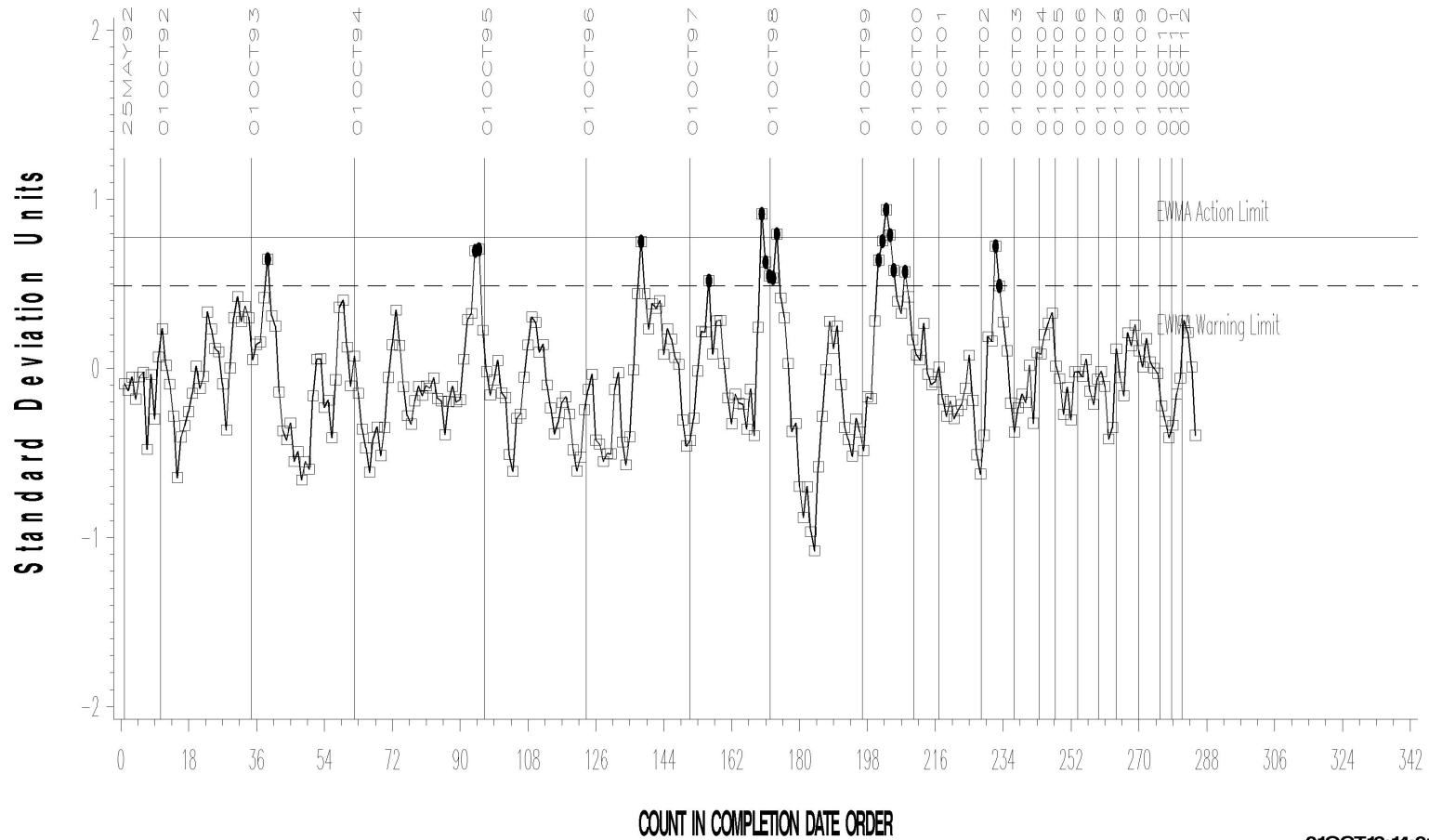
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High Temperature Cyclic Transmission

HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

LTMS Precision Analysis



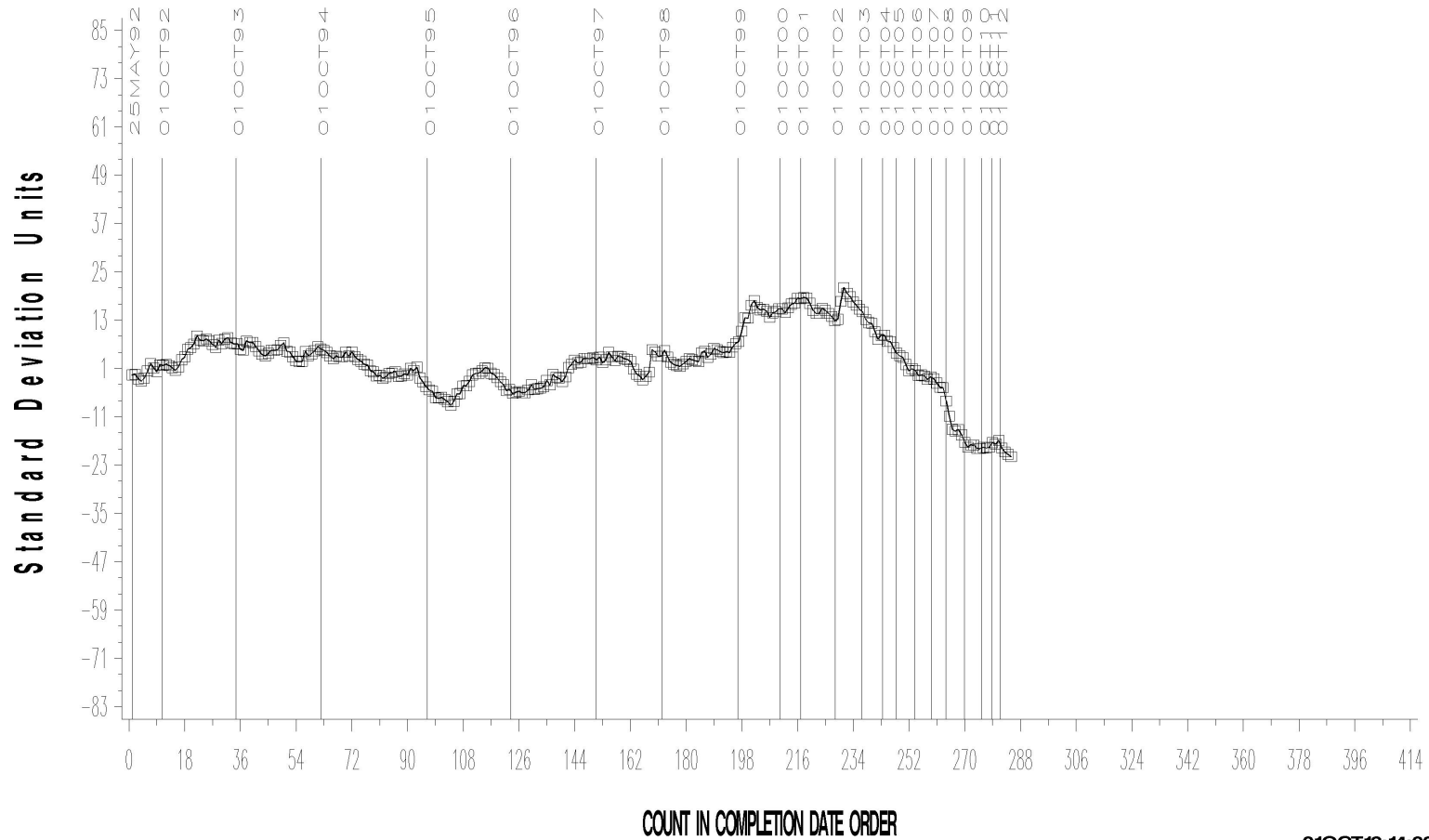
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High Temperature Cyclic Transmission

HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

CUSUM Severity Analysis



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High Temperature Cyclic Transmission

TIMELINE ADDITIONS

Effective Date	Information Letter	Event
20111102	13-2	Discontinuance of discrimination oil runs. Discrimination oil will only be run when new hardware needs to be approved.

High Temperature Cyclic Transmission

LAB VISITS

No HTCT lab visits were conducted during this period.

INFORMATION LETTERS

Information Letter 13-2 was issued during this period to remove the requirement to run the discrimination oil on alternate calibration runs. The discrimination oil will only be run when new hardware or procedural changes need to be approved.

High Temperature Cyclic Transmission

STATUS OF REFERENCE OIL SUPPLY

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
150-2	0	3	33.7
154	2	16	176.0
155	0	2	23.4
155-1	1	35	395.8
Total	3	56	628.8

The TMC quantity remaining presumes usage only for HTCT testing. Oil 155/155-1 is also used in other test areas (L-33-1, L-37 and L-37-1). Oil 150-2/154 is the discrimination oil used only for new hardware approval.