



Test Monitoring Center

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

MEMORANDUM: 17-028

DATE: October, 3, 2017

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

FROM: Dylan Beck *Dylan Beck*

SUBJECT: HTCT Testing from April 1, 2017 through September 30, 2017

Attached is a summary of testing activity this period.

DJB/djb/mem17-028.djb.doc

cc: Frank Farber
Jeff Clark
Scott Parke

HTCT Surveillance Panel

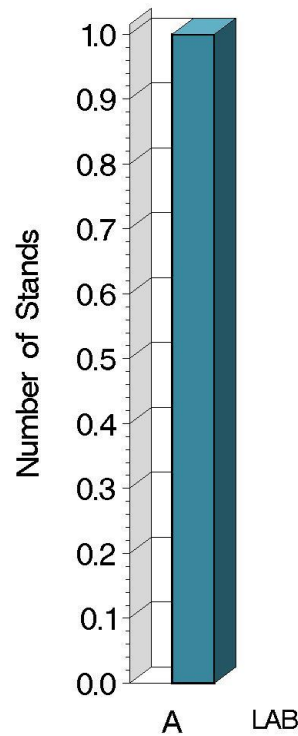
<http://www.astmtmc.cmu.edu/ftp/docs/gear/htct/semiannualreports/htct-10-2017.pdf>


Distribution: email

High Temperature Cyclic Transmission

	Reporting Data	Calibrated on 9-30-17
Number of Labs	1	1
Number of Stands	1	1

BY-LAB STAND
DISTRIBUTION



Report Period:  Current

14:46:34 03OCT2017

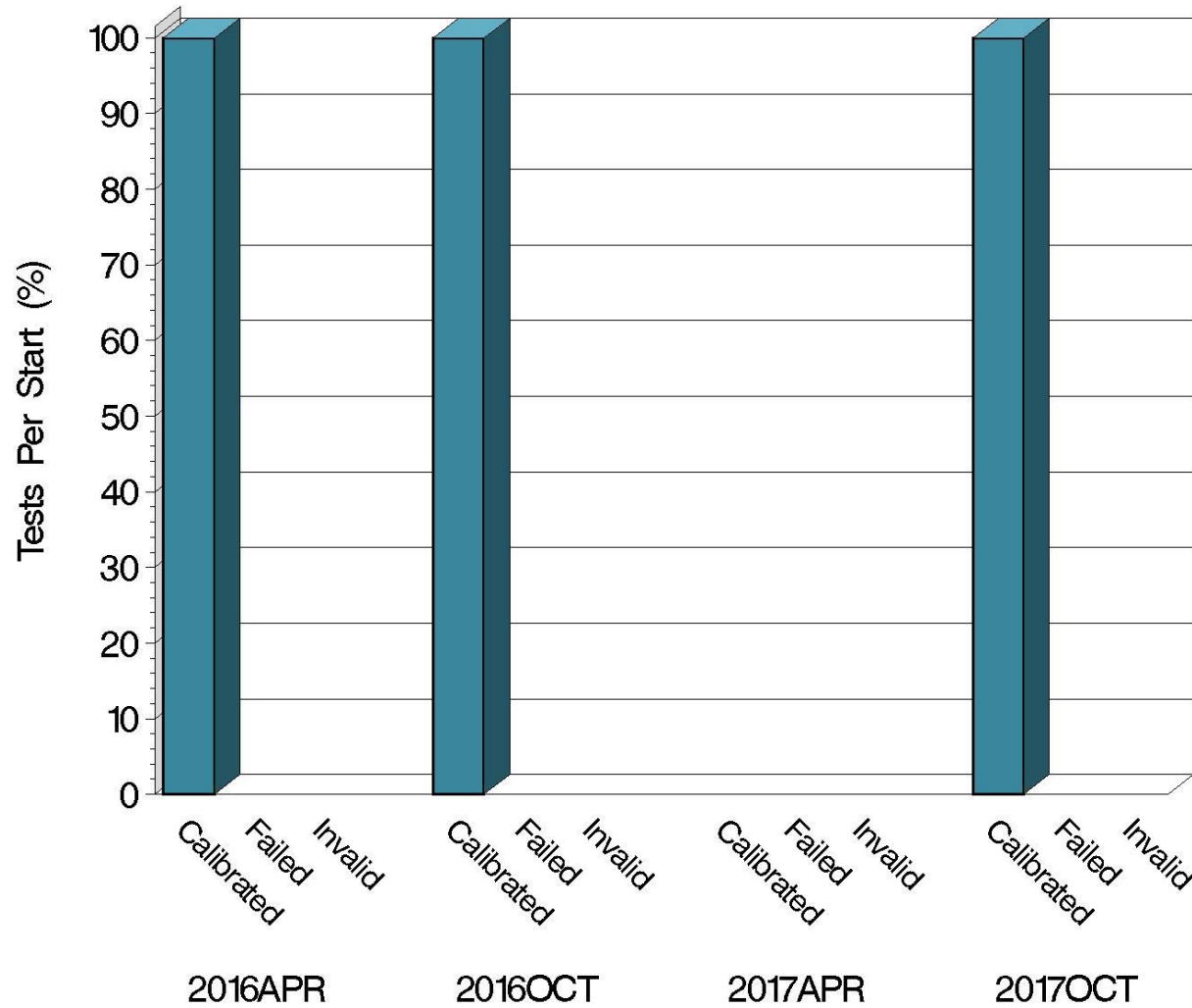
High Temperature Cyclic Transmission

Test Distribution by Oil and Validity

					Totals	
		154	155	155-1	Last Period	This Period
Accepted for calibration	AC	0	0	1	0	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	0	1

High Temperature Cyclic Transmission

CALIBRATION ATTEMPT SUMMARY



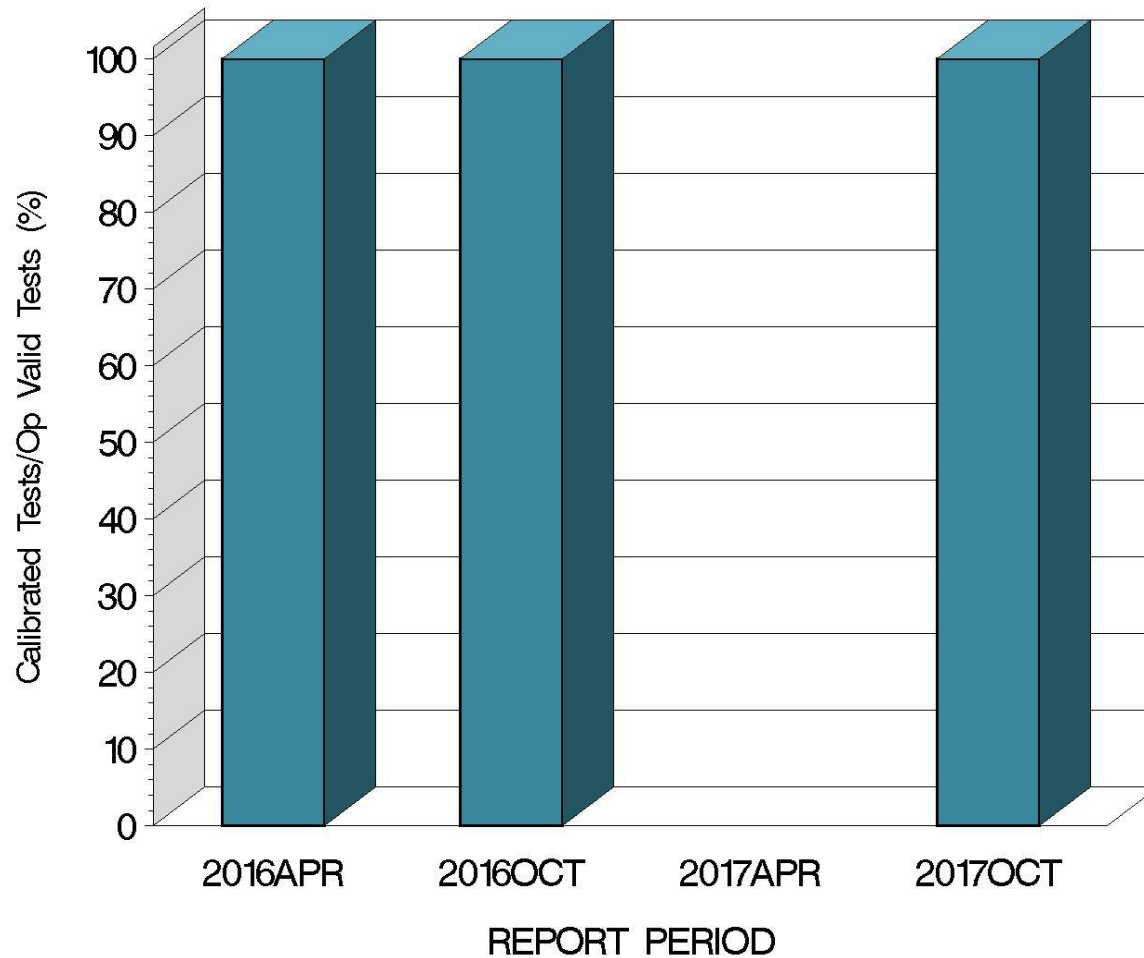
Resolution

Report Period

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OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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High Temperature Cyclic Transmission

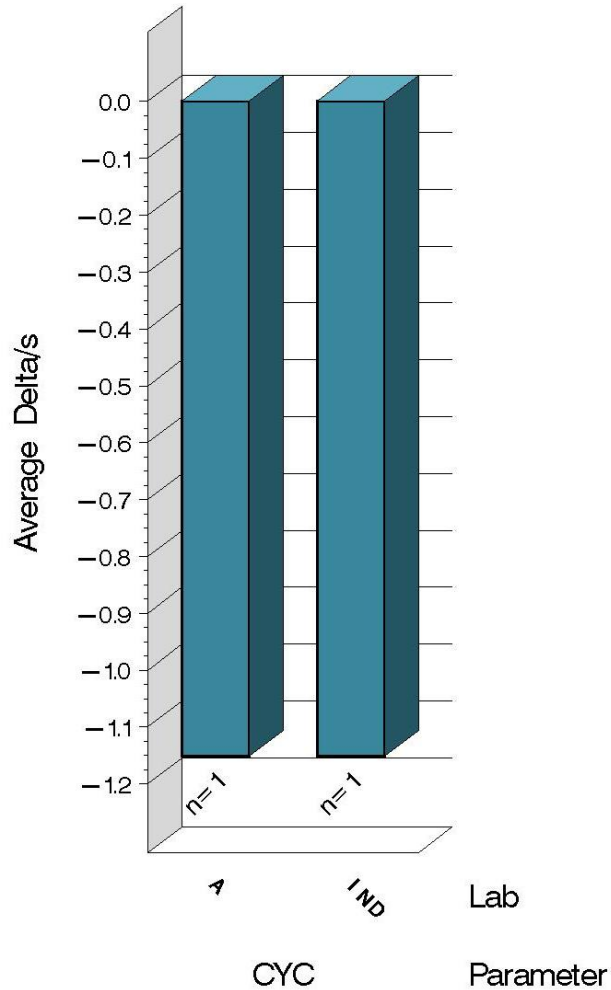
CAUSES FOR LOST TESTS

		Oil			Validity			Loss Rate		
Lab	Cause	154	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

TEST SEVERITY

DELTA/S BY LAB

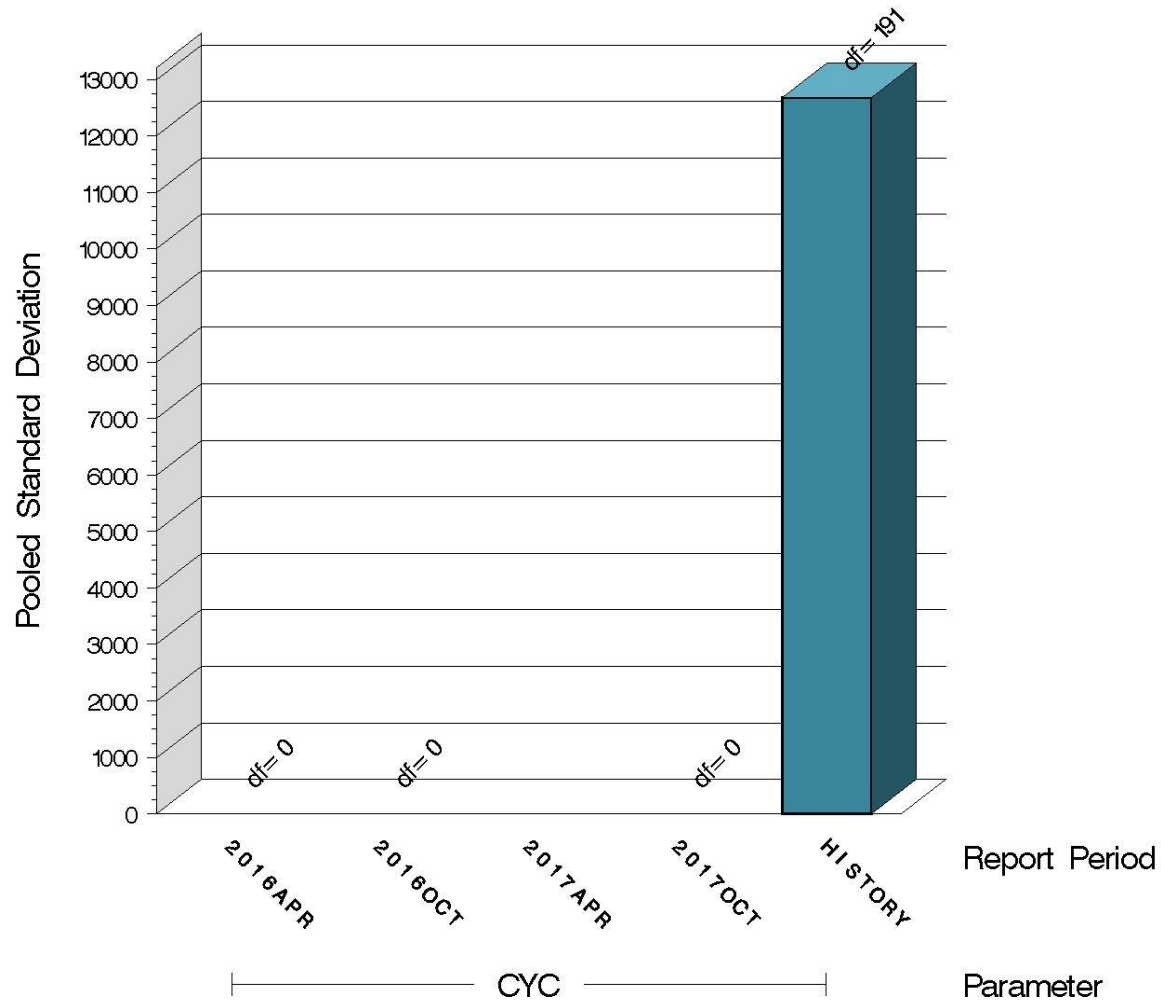


Average Δ/s by Lab		
Lab	n	CYC
A	1	-1.15
Industry	1	-1.15
Shift	1	-11120

High Temperature Cyclic Transmission

TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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High Temperature Cyclic Transmission

SUMMARY OF SEVERITY & PRECISION

Severity

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

Precision

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

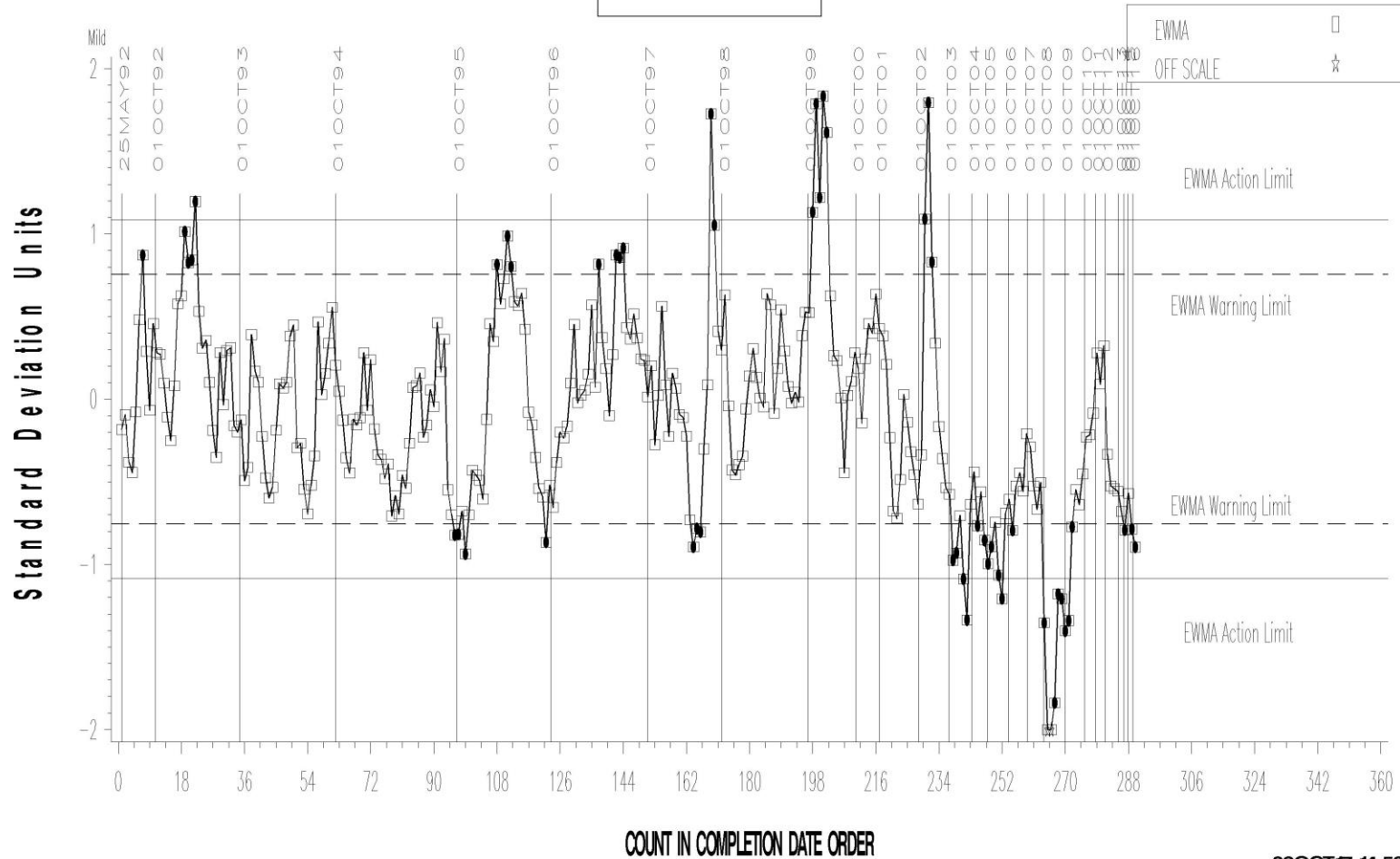
Industry control charts follow.

High Temperature Cyclic Transmission

HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

LTMS Severity Analysis



Severity

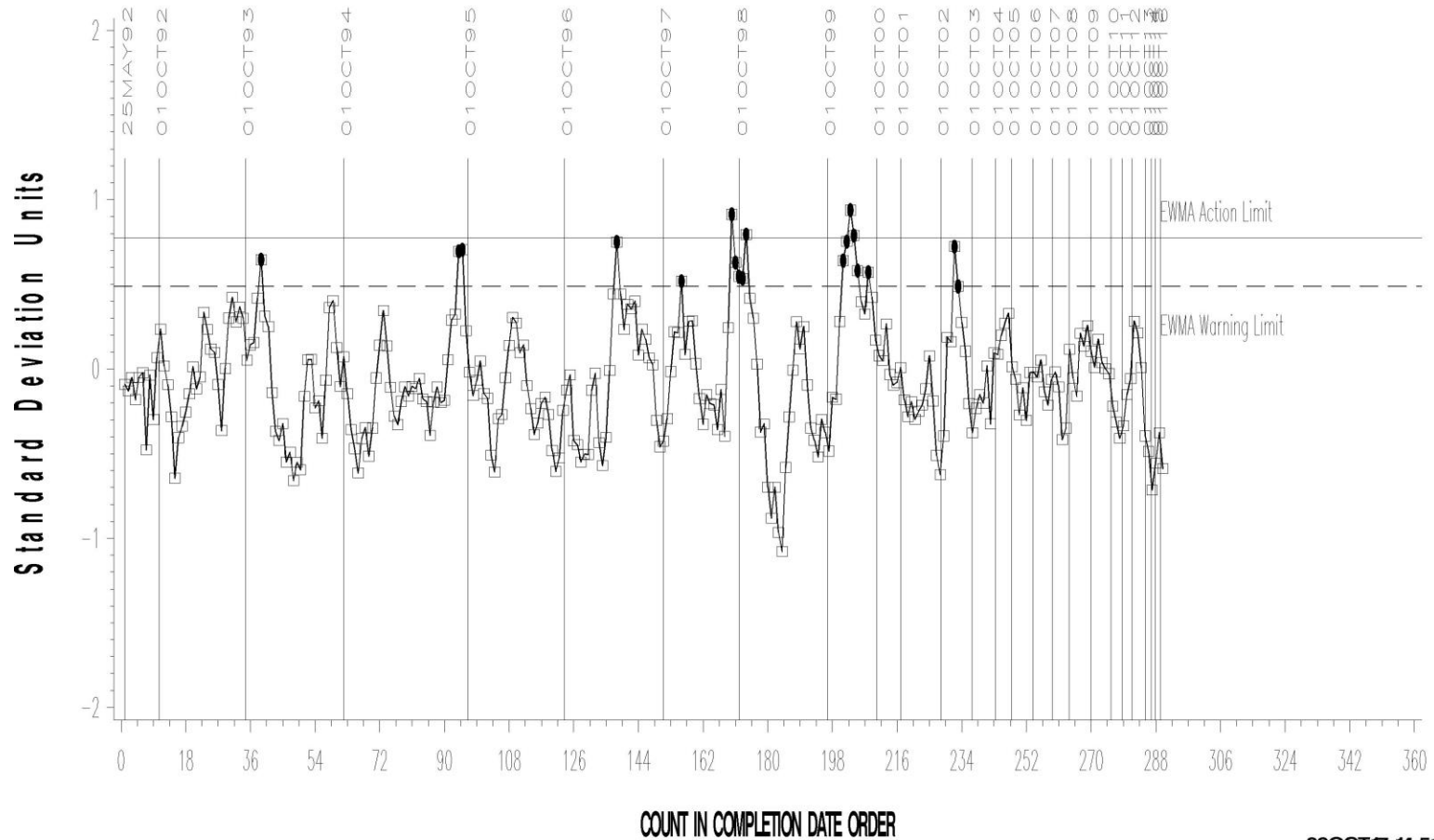
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High Temperature Cyclic Transmission

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
		No timeline additions were made this period.

High Temperature Cyclic Transmission

LAB VISITS

No HTCT lab visits were conducted during this period.

INFORMATION LETTERS

No information letters were issued this report period.

High Temperature Cyclic Transmission

STATUS OF REFERENCE OIL SUPPLY

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
154	2	16	176.0
155	0	1	15.0
155-1	2	16	186.4
Total	4	33	377.4

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, L-60-1 and L-37-1). Oil 154 is the discrimination oil used only for new hardware approval.