



Test Monitoring Center

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

MEMORANDUM: 18-009
DATE: May 1, 2018
TO: Eric Donovan, Chairman, L-42 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-42 Rater Calibration from October 1, 2017 through March 31, 2018

Attached is a summary of L-42 rater calibration activity this period.

DJB/djb/mem18-009.djb.doc

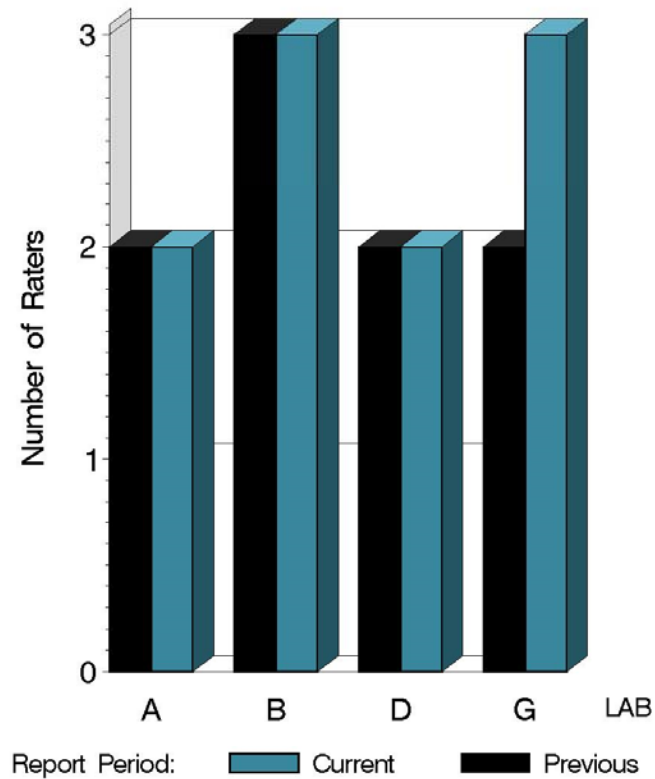
cc: Frank Farber
Jeff Clark
Scott Parke
L-42 Surveillance Panel
<http://www.astmtmc.cmu.edu/ftp/docs/gear/l42rc/semiannualreports/l42rc-04-2018.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 3-31-18
Number of Labs	4	4
Number of Raters	10	10

BY-LAB RATER DISTRIBUTION



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L-42 Rater Calibration

Test Distribution by Validity

		Totals	
		Last Period	This Period
Accepted for calibration	AC	11	12
Rejected (Mild)	OC	0	0
Rejected (Severe)	OC	0	0
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	0	0
Workshop data	AG	9	24
Total		20	36

L-42 Rater Calibration

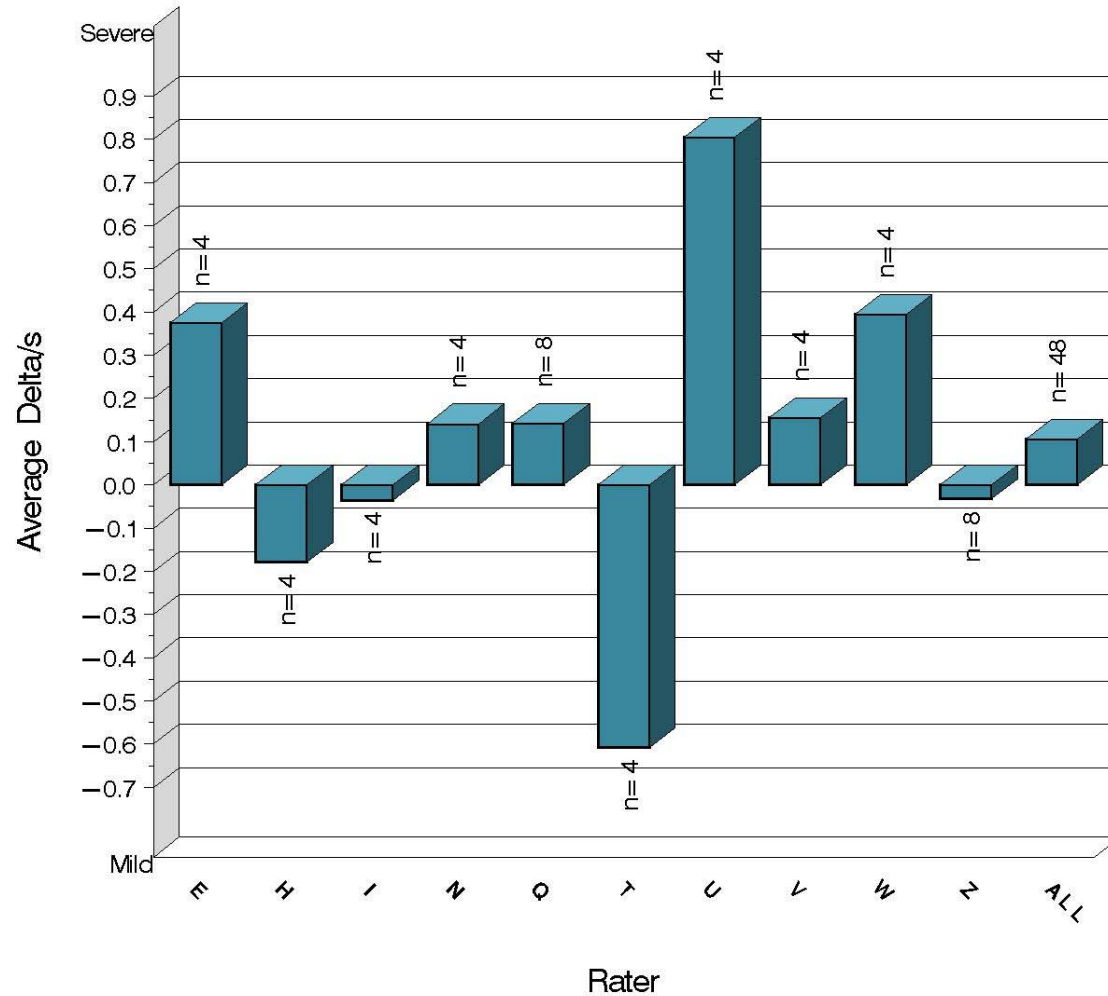
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
E	4	0.376	0.841	-0.177	0.623
H	4	-0.179	0.259	0.023	0.374
I	4	-0.035	0.259	0.023	0.374
N	4	0.141	0.289	0.058	0.427
Q	8	0.142	0.829	-0.482	0.590
T	4	-0.608	0.803	-0.294	1.040
U	4	0.805	0.349	-0.01	1.438
V	4	0.155	0.470	0.385	0.522
W	4	0.394	0.626	0.311	0.516
Z	8	-0.032	0.881	0.108	0.974
ALL	48	0.106	0.693	-0.031	0.757

* Due to the small number of ratings per part, the standard deviation of the Yi values is given in place of a pooled standard deviation.

L-42 Rater Calibration

PINION SCORING

Severity as Measured by Delta/s

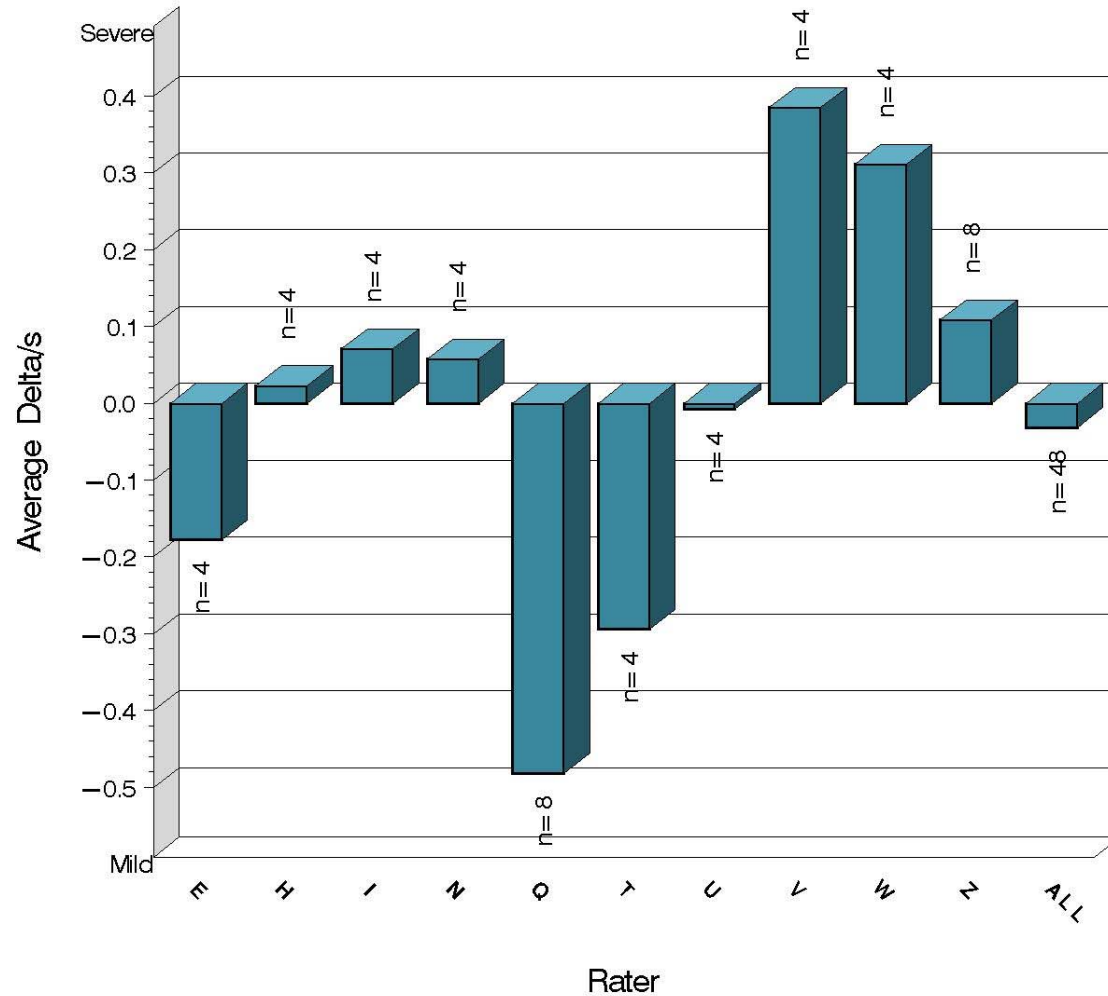


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L-42 Rater Calibration

RING SCORING

Severity as Measured by Delta/s

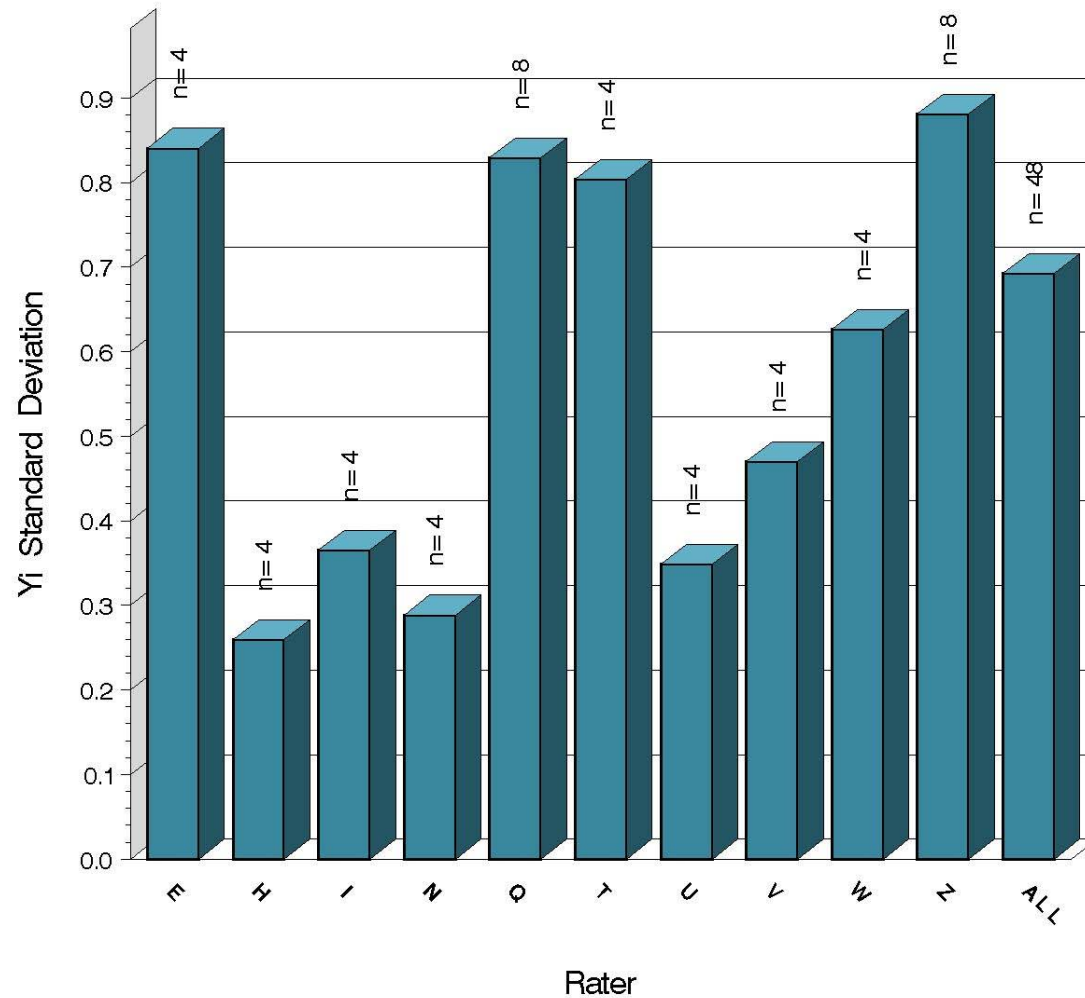


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L-42 Rater Calibration

PINION SCORING

Precision as Measured by Yi STD

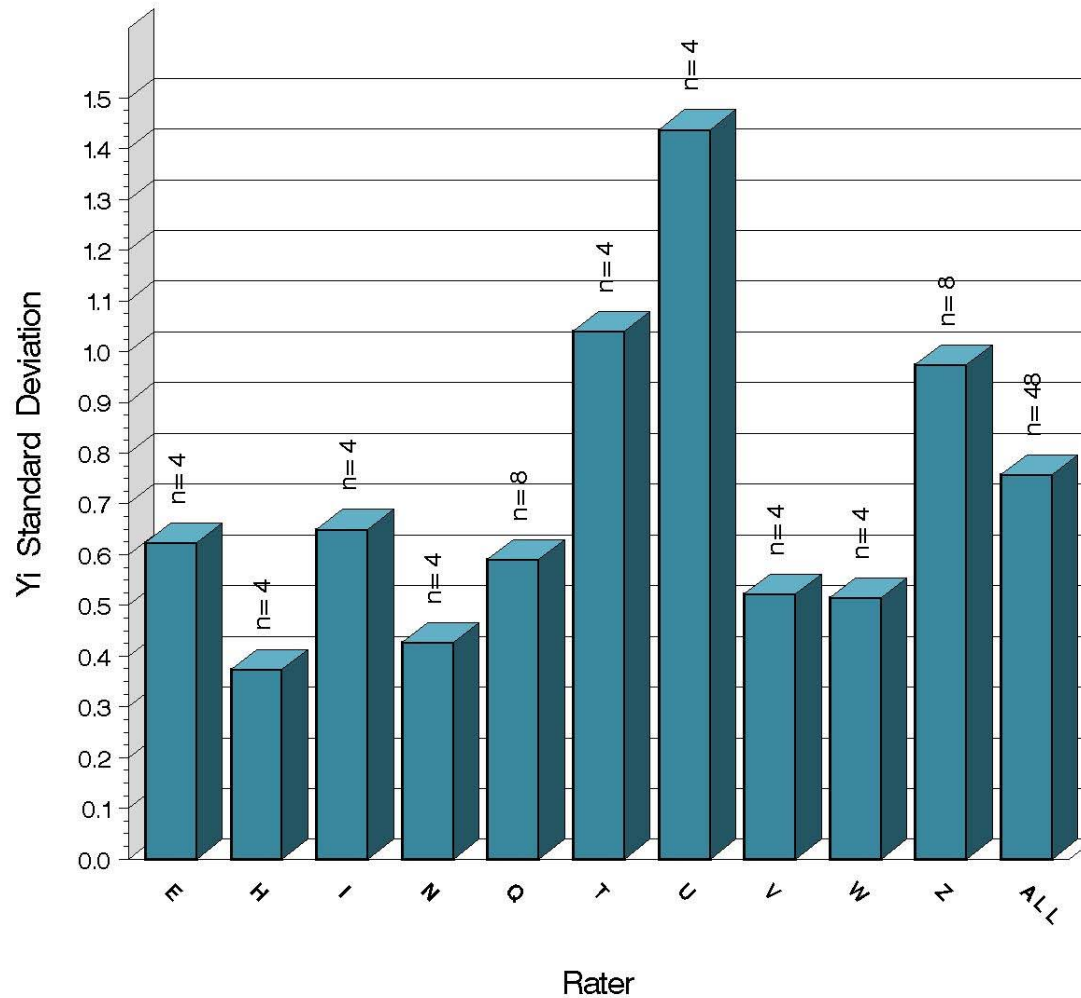


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L-42 Rater Calibration

RING SCORING

Precision as Measured by Yi STD



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L-42 Rater Calibration

L-42 Rater Calibration

SUMMARY OF SEVERITY & PRECISION

Severity

Both PSCR and RSCR remained within limits over this report period.

Precision

Precision for both parameters remained within acceptable limits.

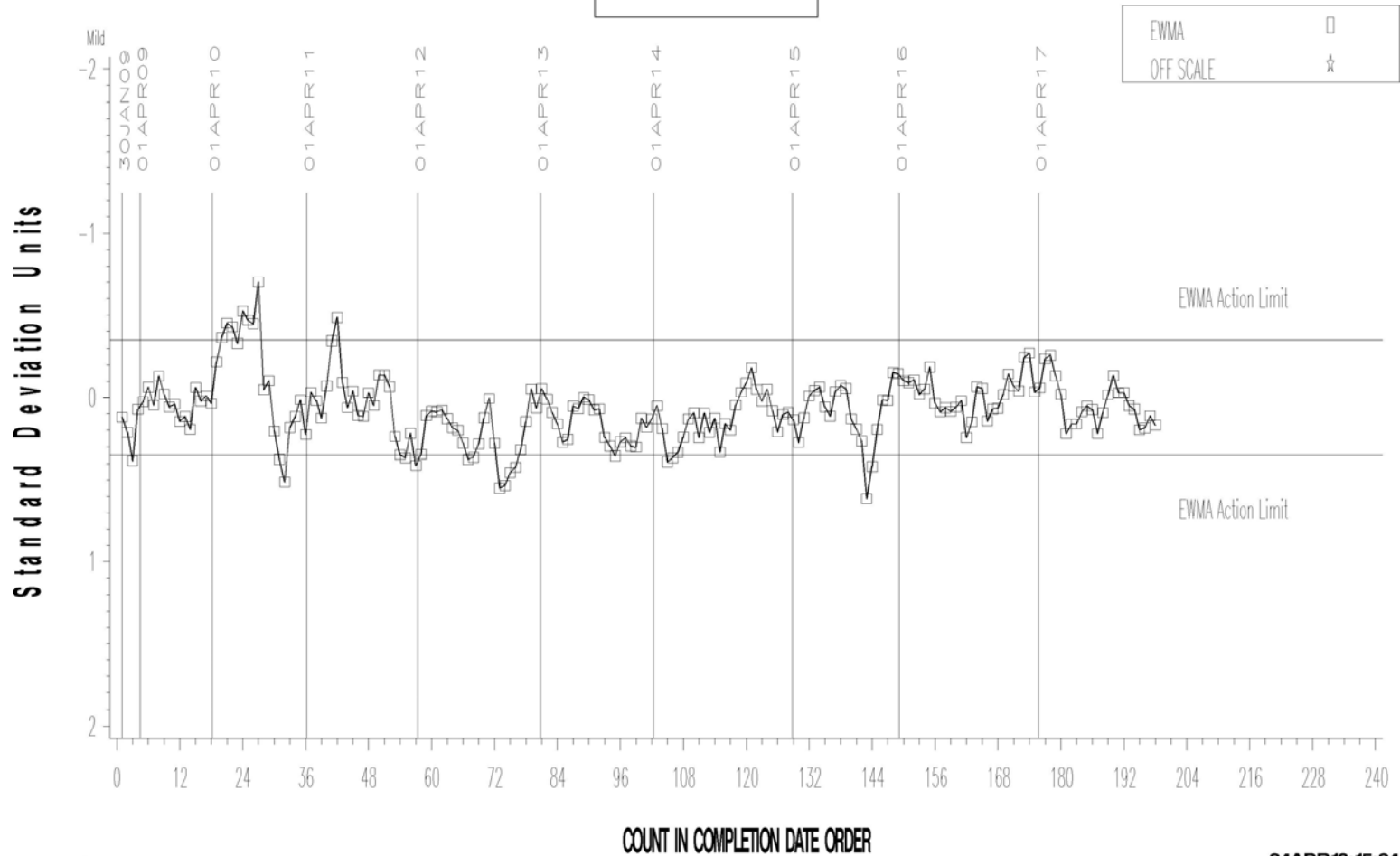
Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

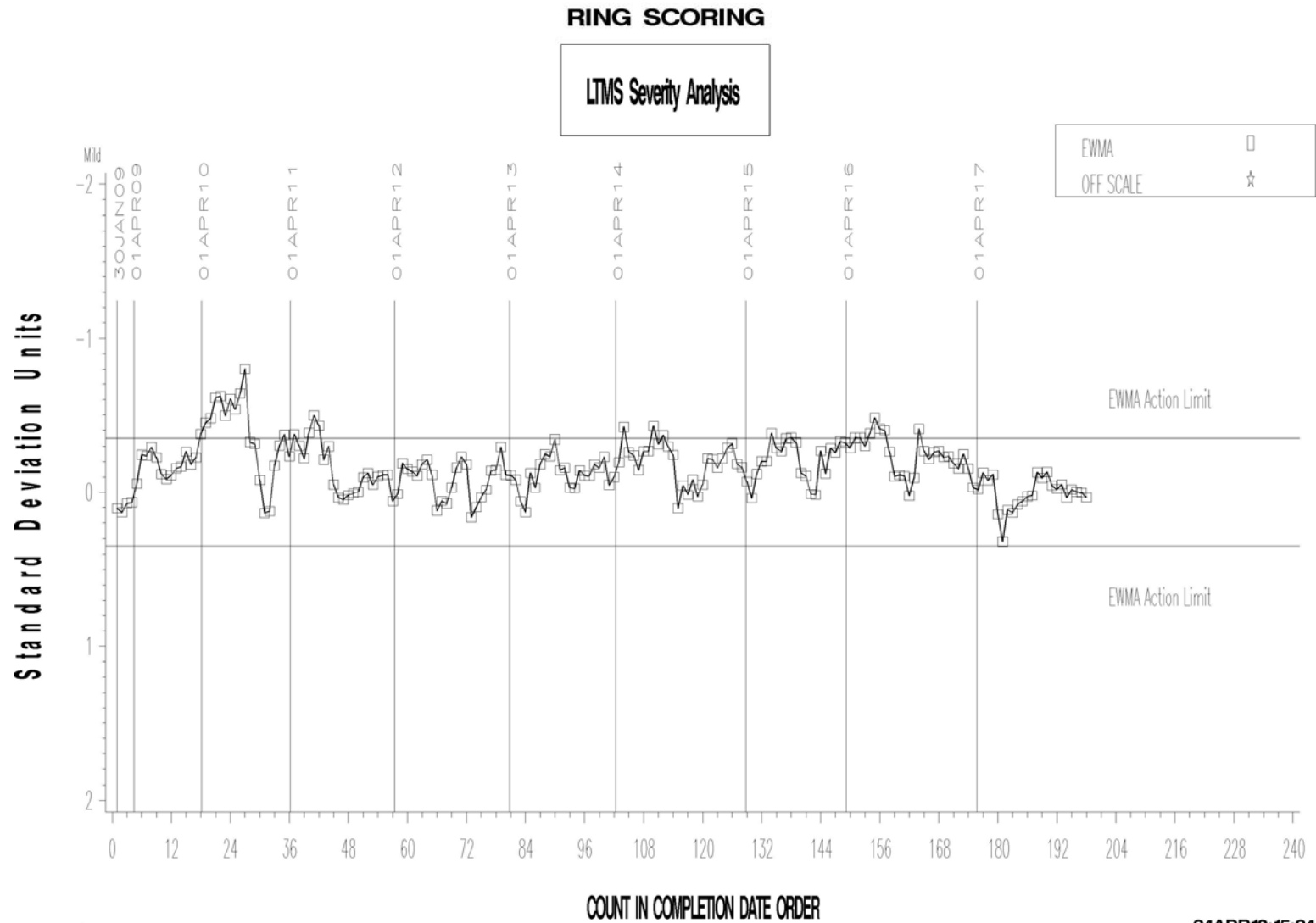
PINION SCORING

LTMS Severity Analysis



L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA



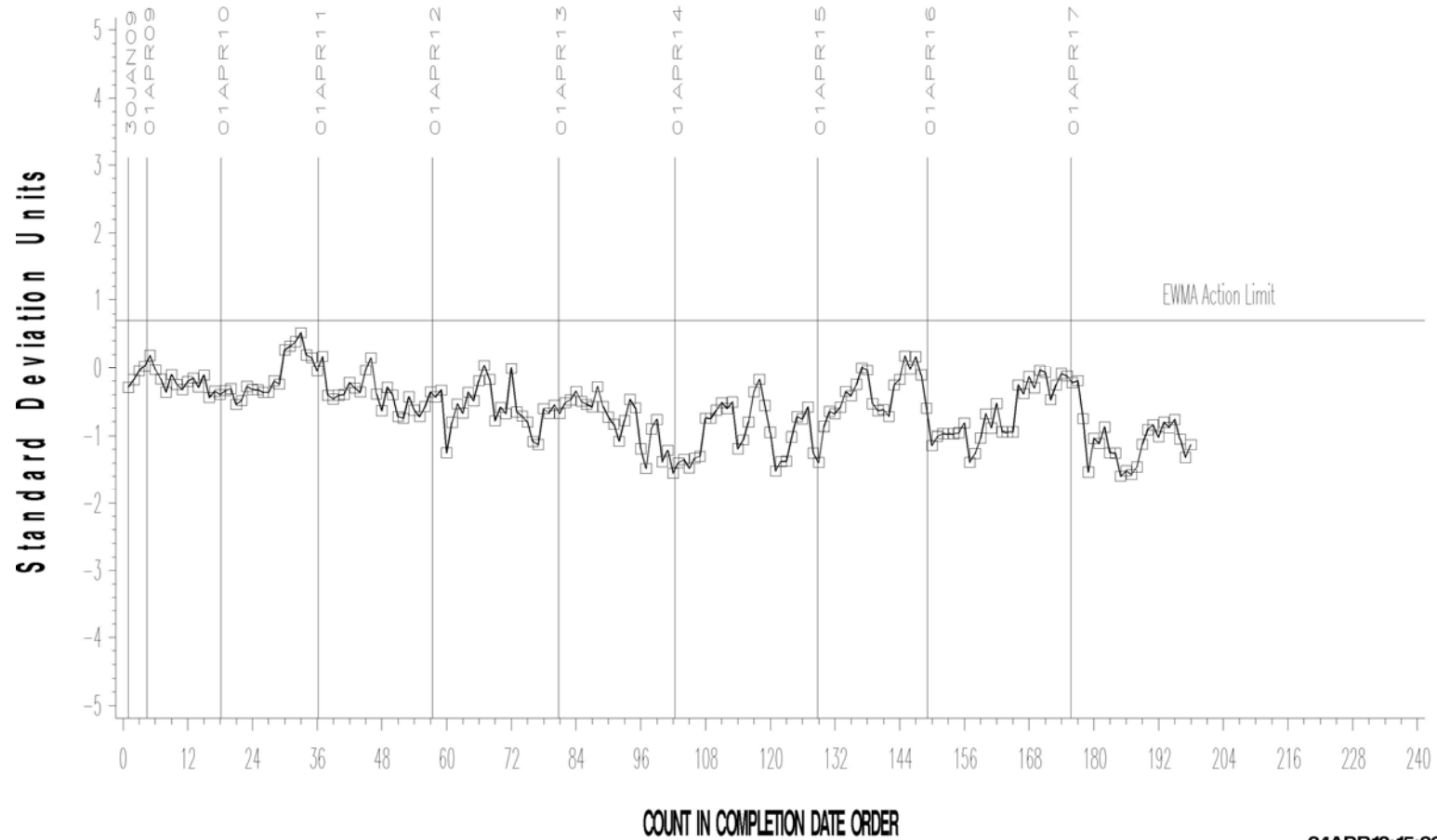
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



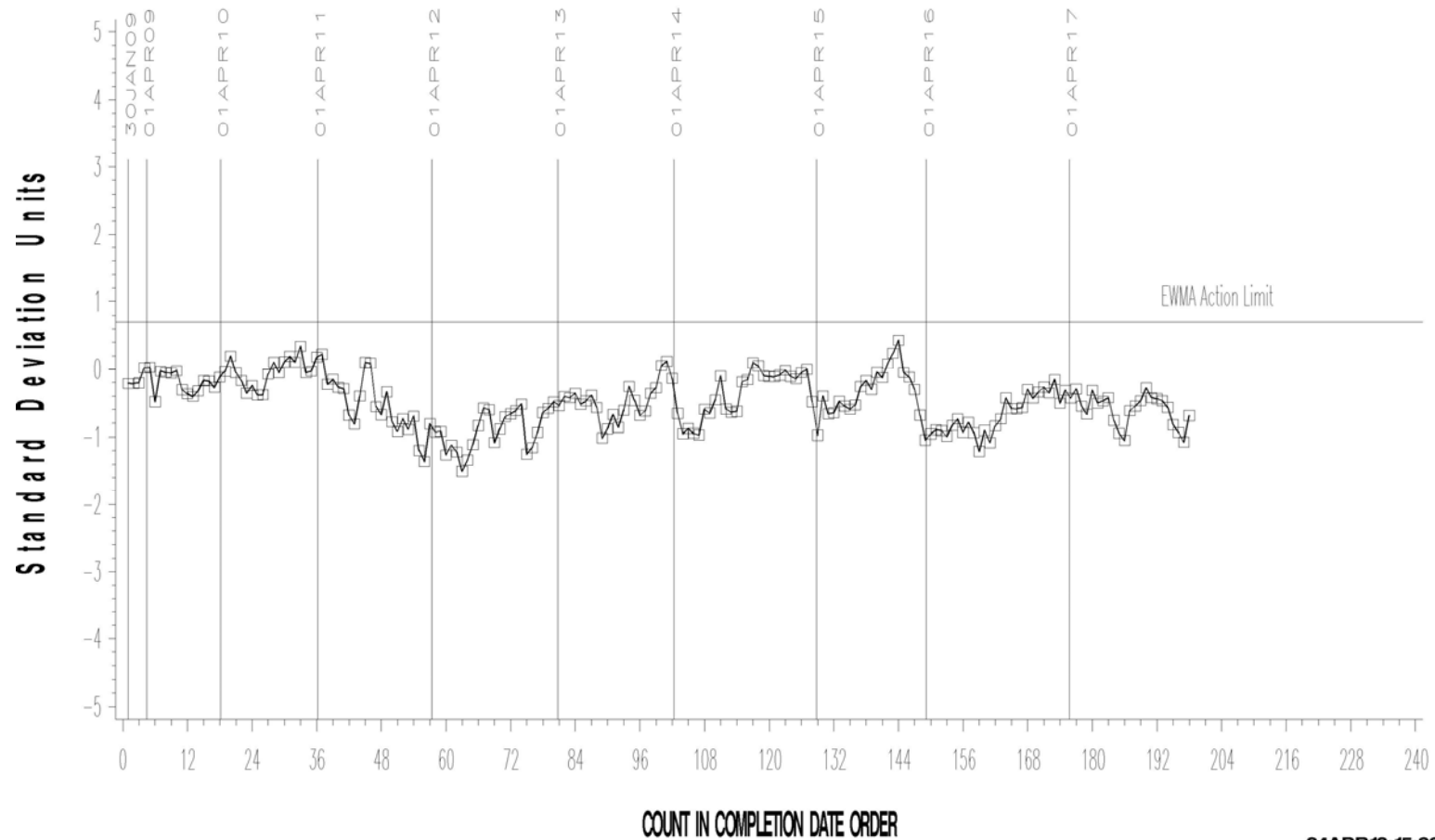
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



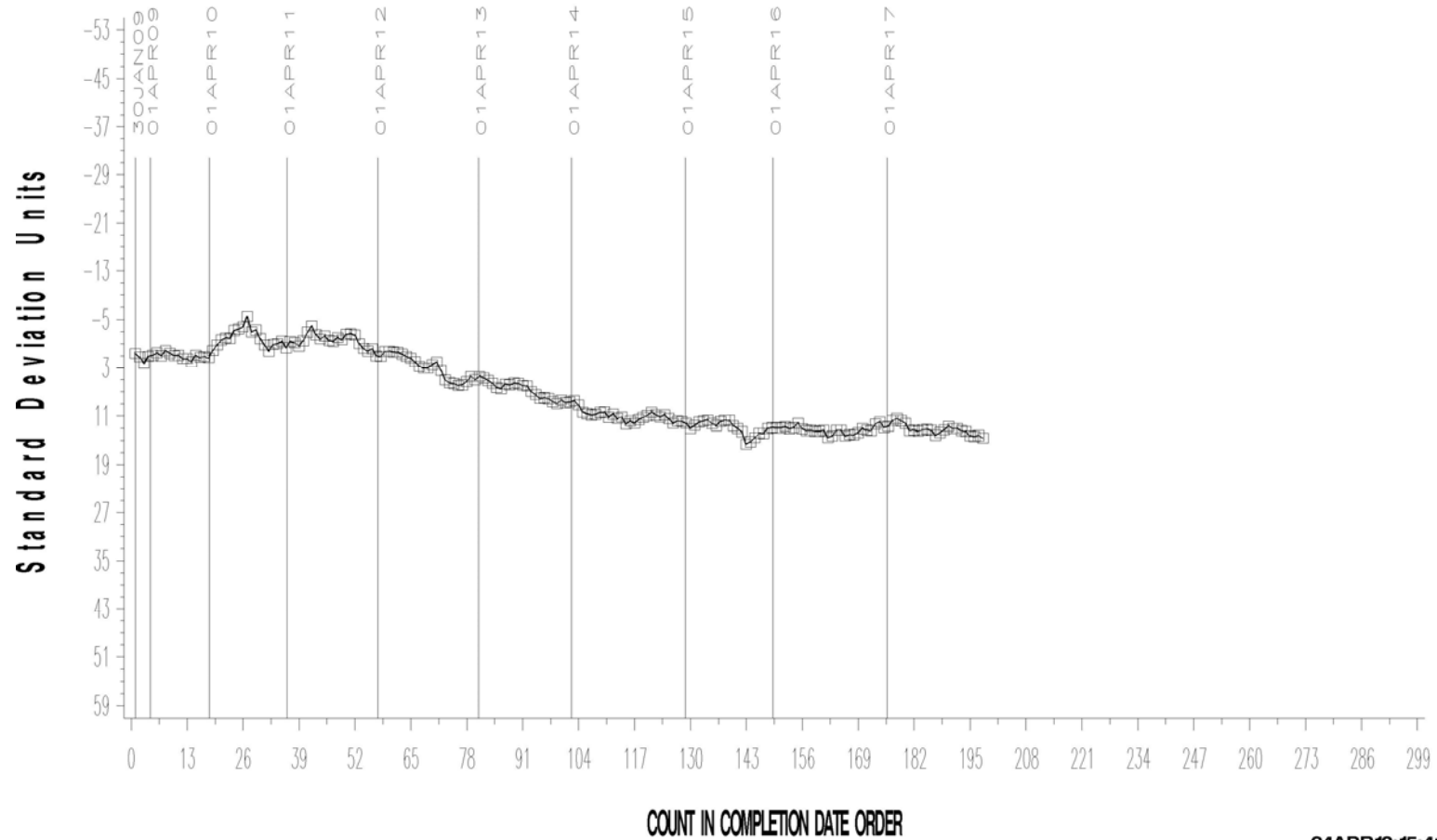
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



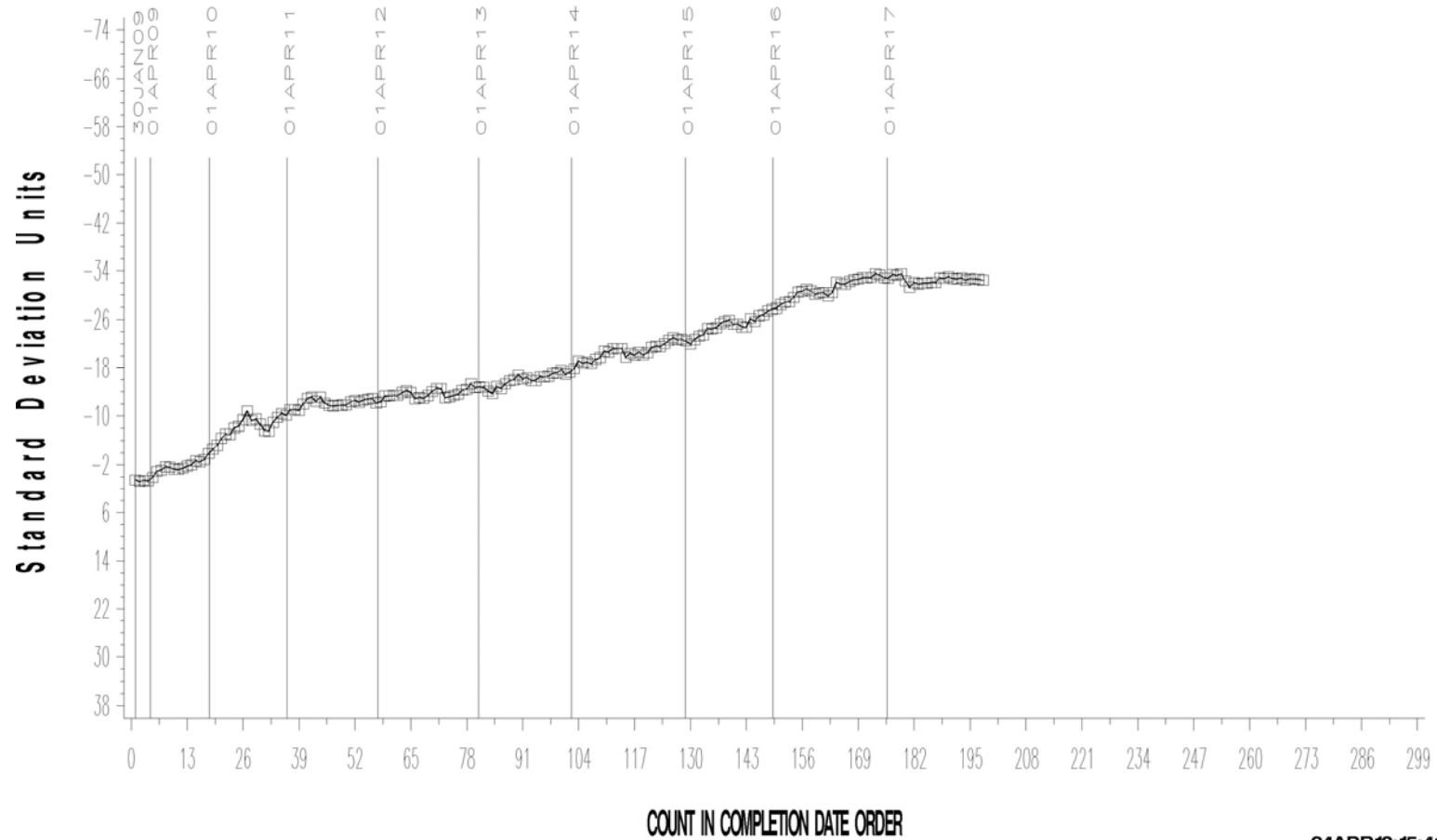
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

CUSUM Severity Analysis



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