




Test Monitoring Center

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412-365-1000

MEMORANDUM: 17-021
DATE: May 26, 2017
TO: Eric Donovan, Chairman, L-42 Surveillance Panel
FROM: Scott Parke 
SUBJECT: L-42 Rater Calibration from October 1, 2016 through March 31, 2017

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

SDP/sdp/mem17-021.sdp.doc

cc: Frank Farber

Jeff Clark

L-42 Surveillance Panel

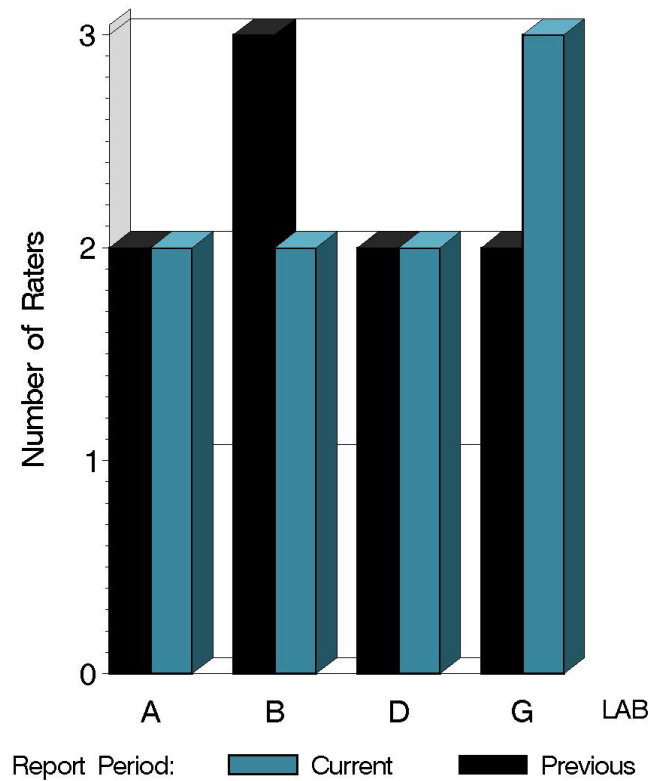
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-04-2017.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 3-31-17
Number of Labs	4	4
Number of Raters	9	9

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	12	12
Rejected (Mild)	OC	0	1
Rejected (Severe)	OC	0	0
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	0	1
Workshop data	AG	15	24
Total		27	38

L-42 Rater Calibration

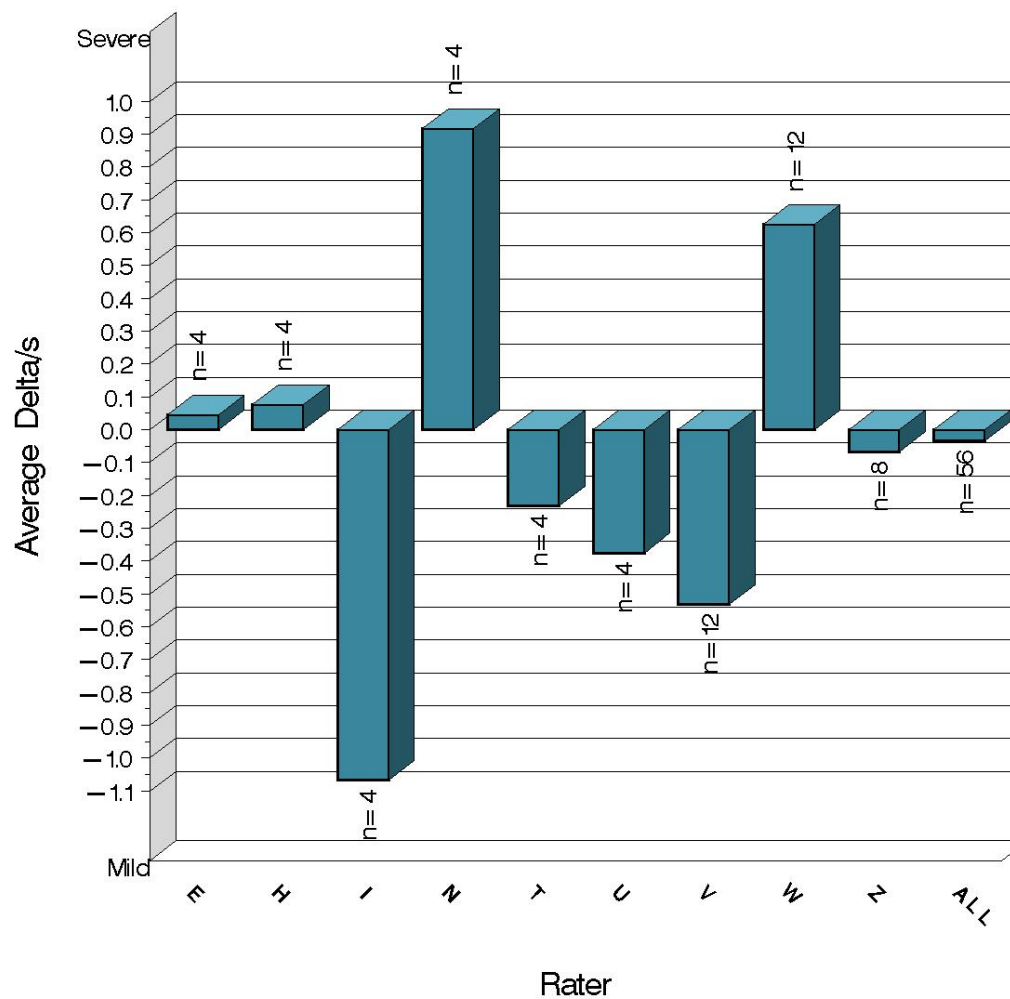
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
E	4	0.046	1.273	-0.300	1.213
H	4	0.077	0.300	-0.015	0.596
I	4	-1.068	1.127	-0.626	1.131
N	4	0.918	0.736	0.456	1.036
T	4	-0.232	0.235	-0.564	0.708
U	4	-0.375	1.100	0.219	0.330
V	12	-0.532	0.900	-0.543	1.185
W	12	0.625	1.753	0.030	0.784
Z	8	-0.066	0.678	-0.037	0.649
ALL	56	-0.035	1.184	-0.175	0.911

* 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

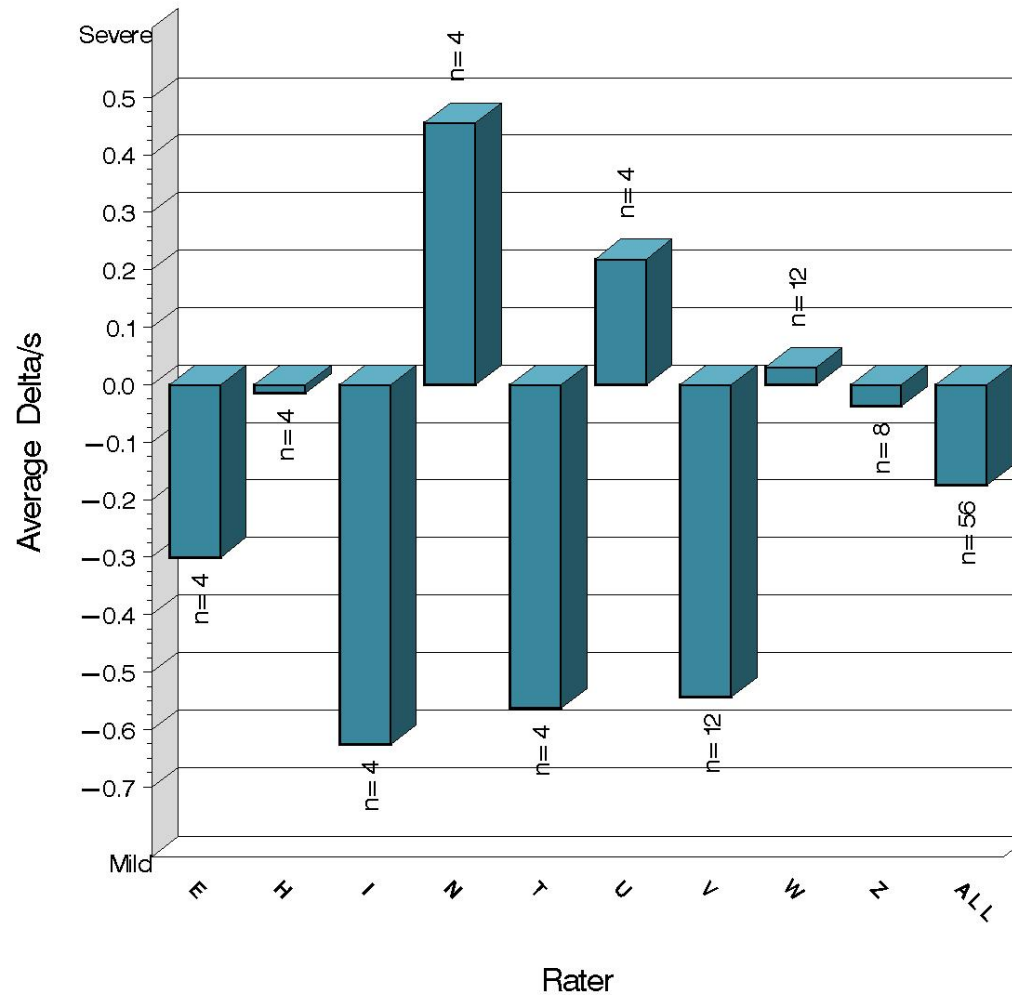


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L-42 Rater Calibration

RING SCORING

Severity as Measured by Delta/s

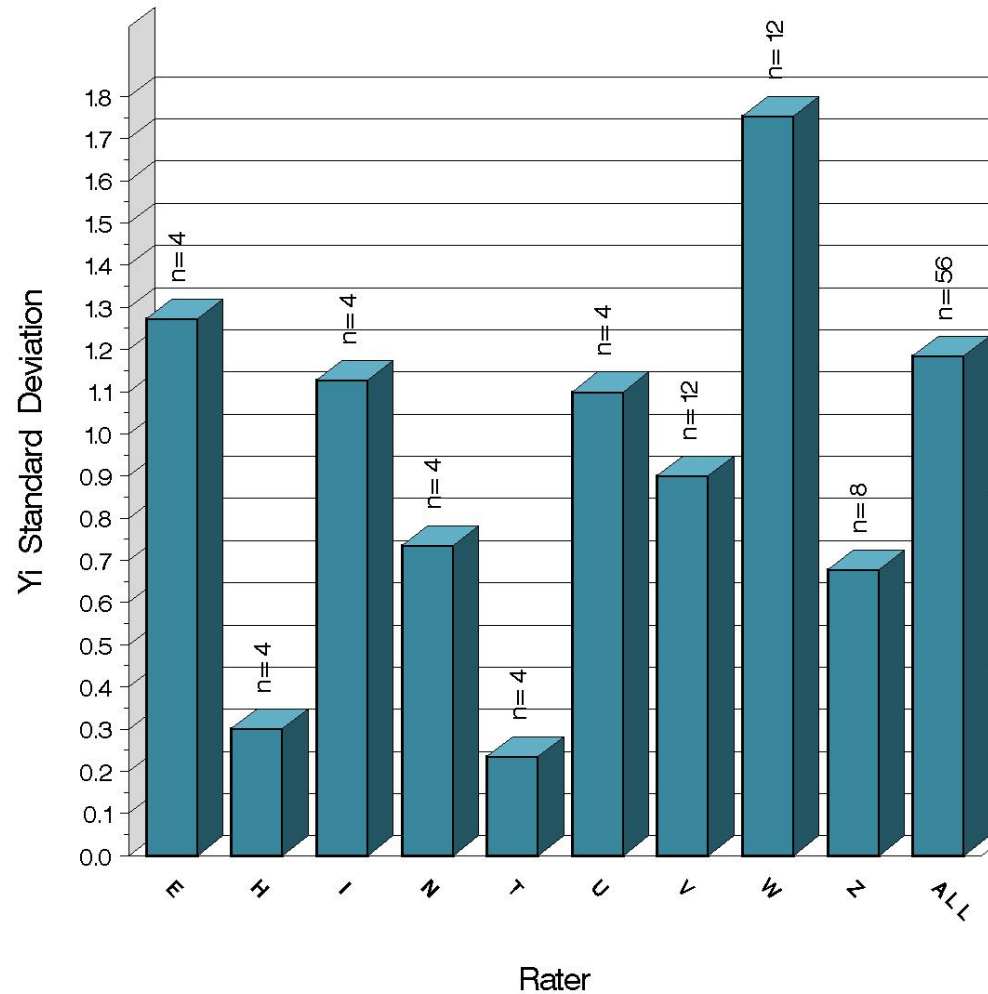


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L-42 Rater Calibration

PINION SCORING

Precision as Measured by Yi STD

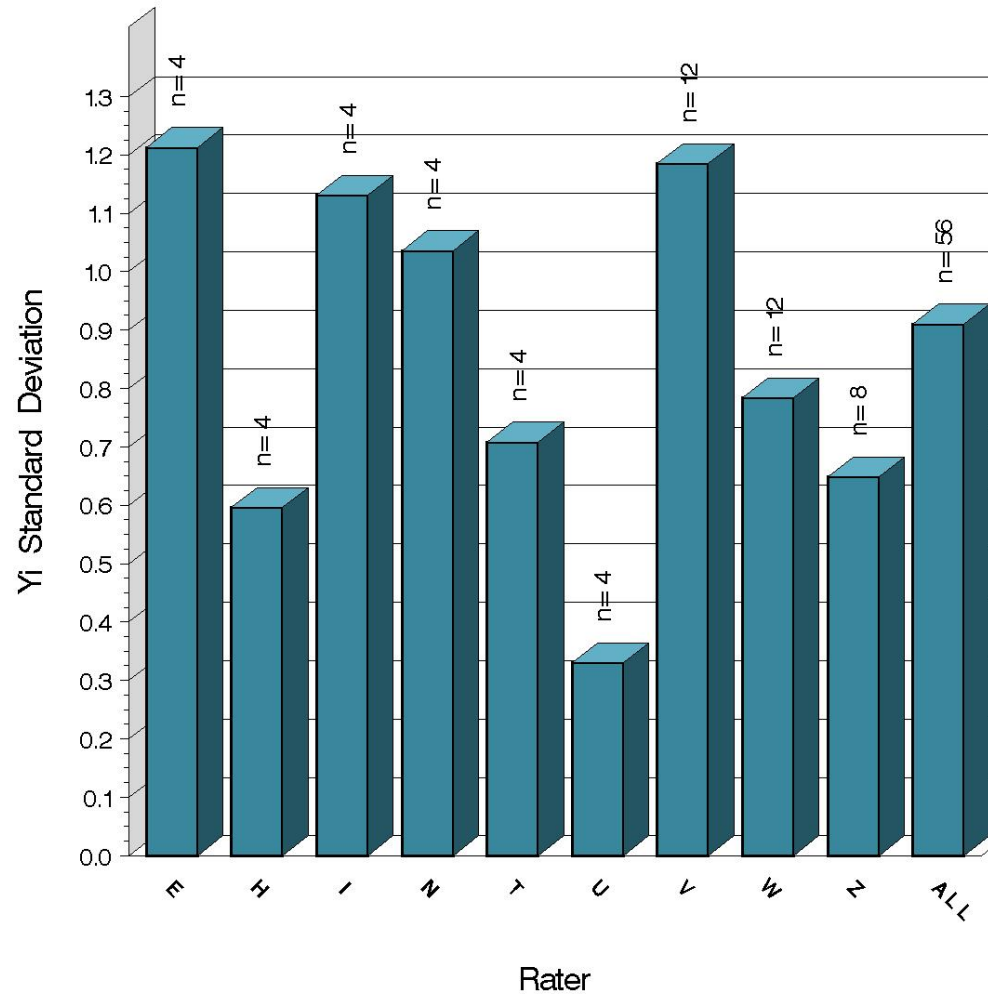


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L-42 Rater Calibration

RING SCORING

Precision as Measured by Yi STD



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L-42 Rater Calibration

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.

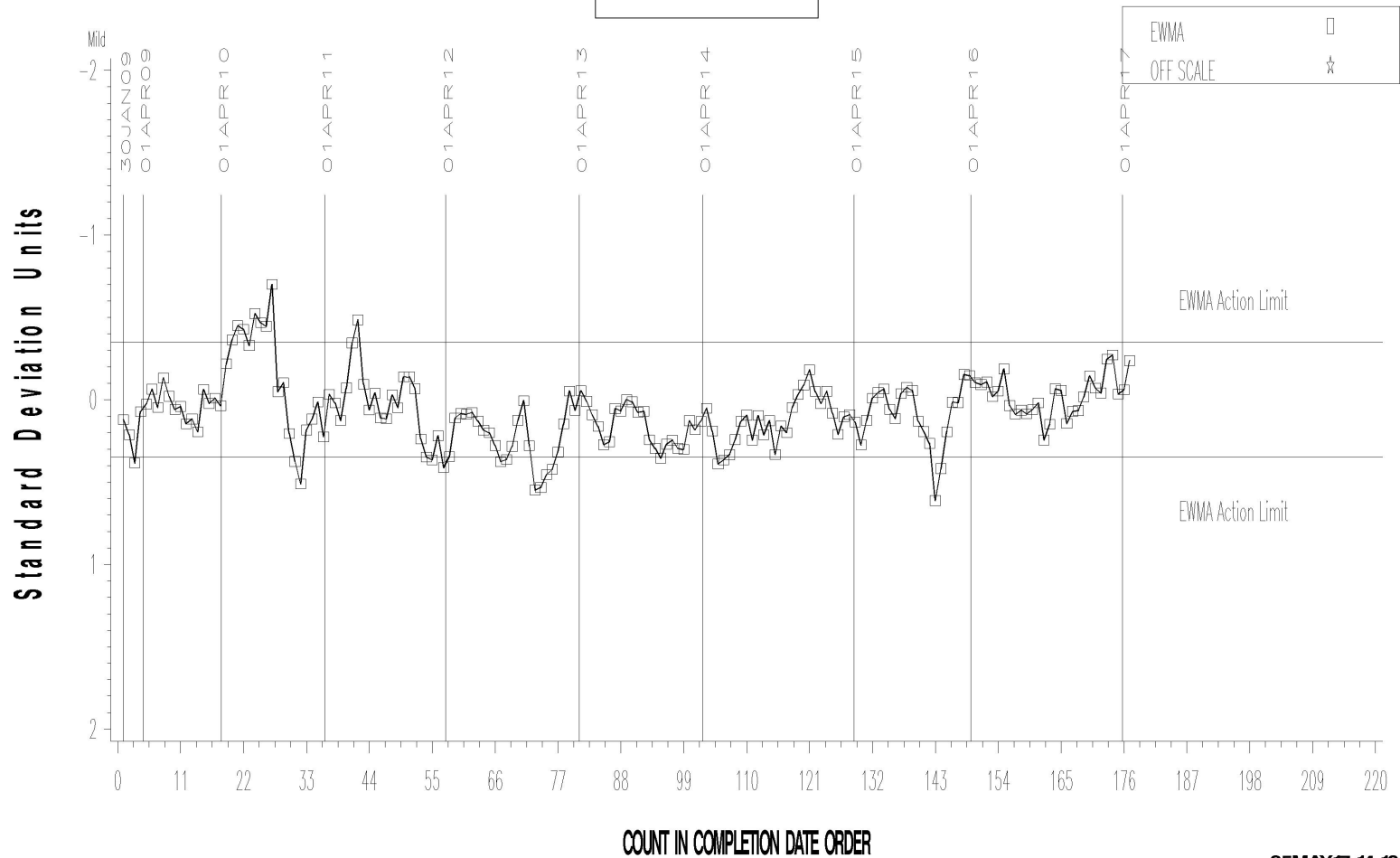
Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Severity Analysis

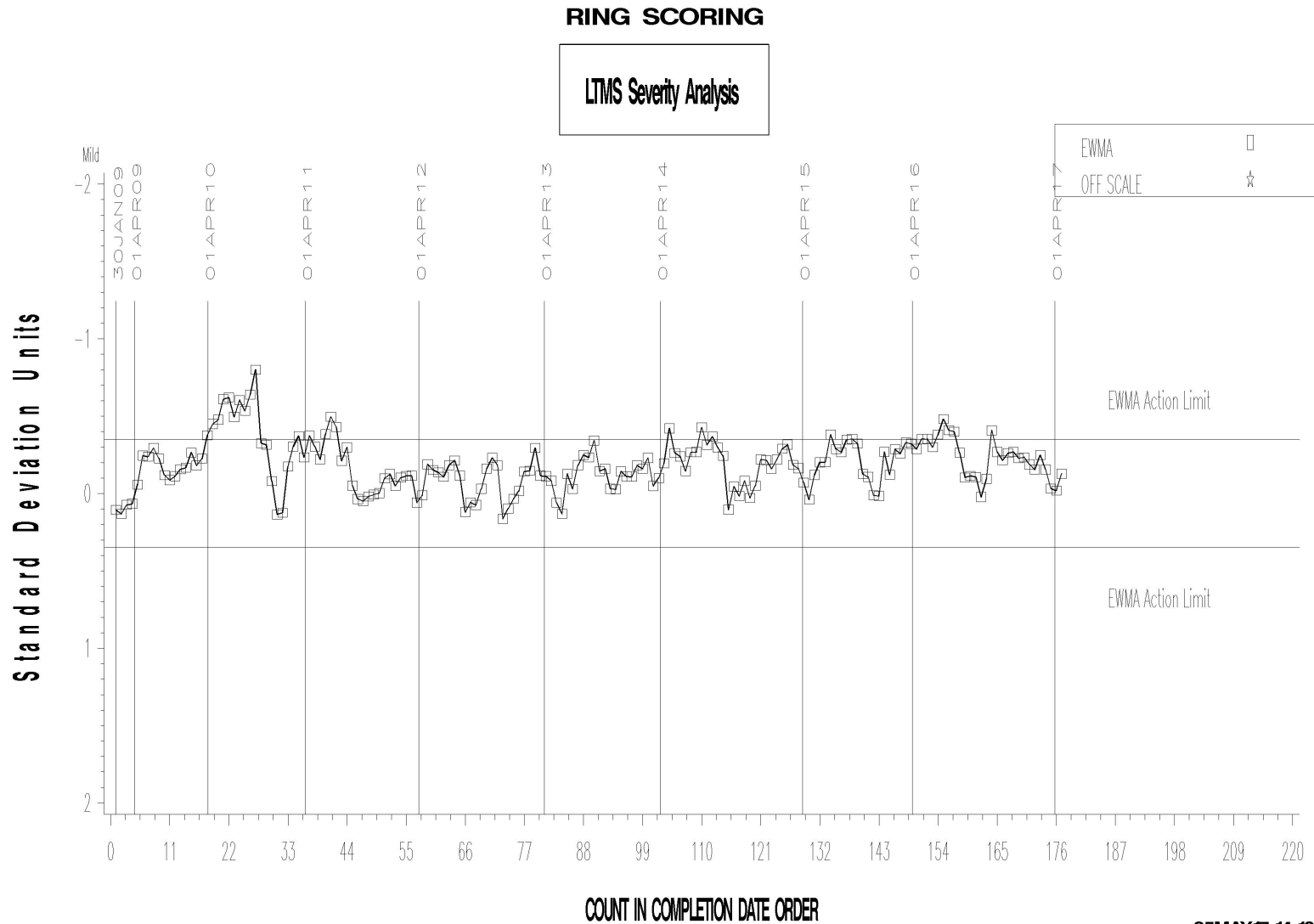


Severity

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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

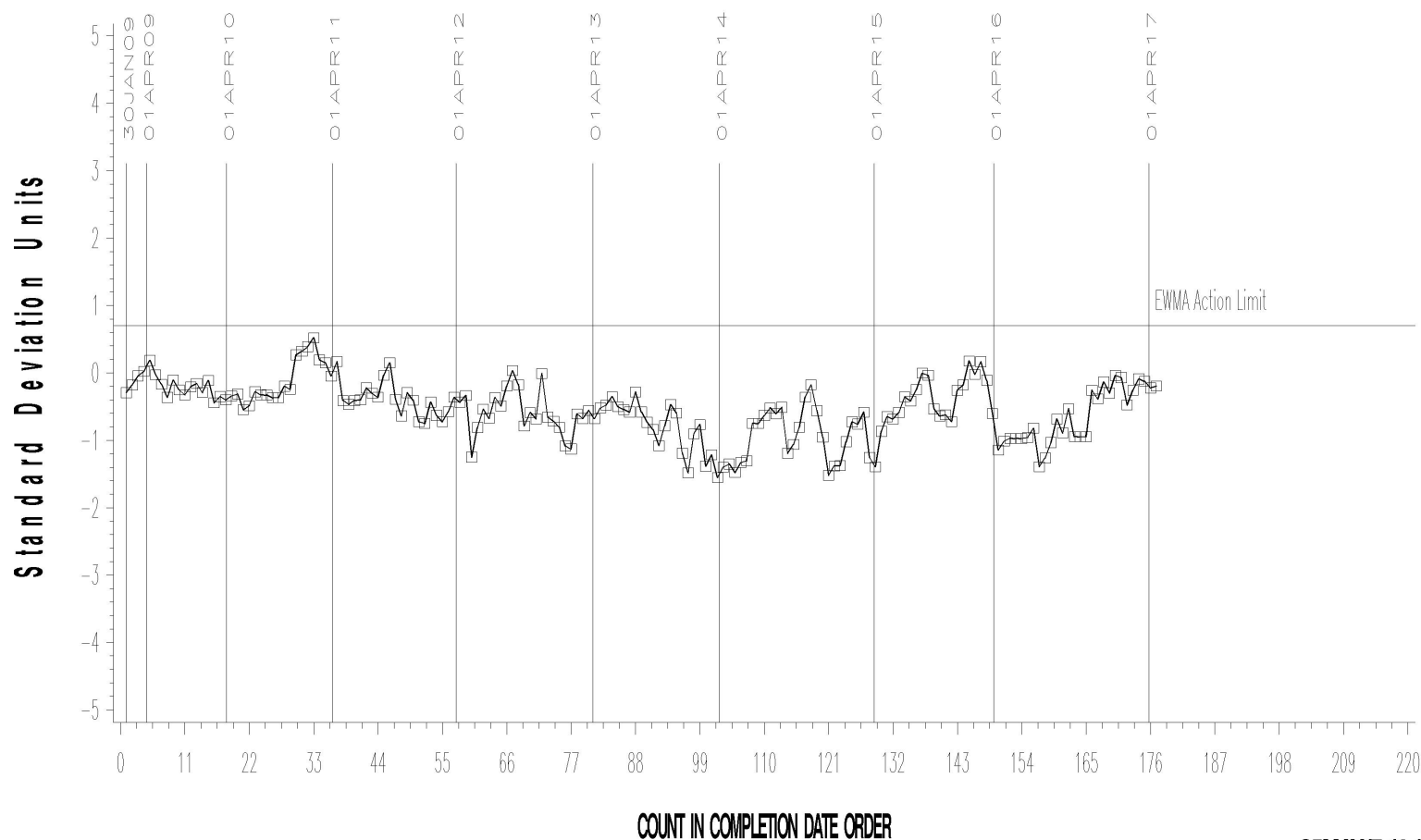


L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



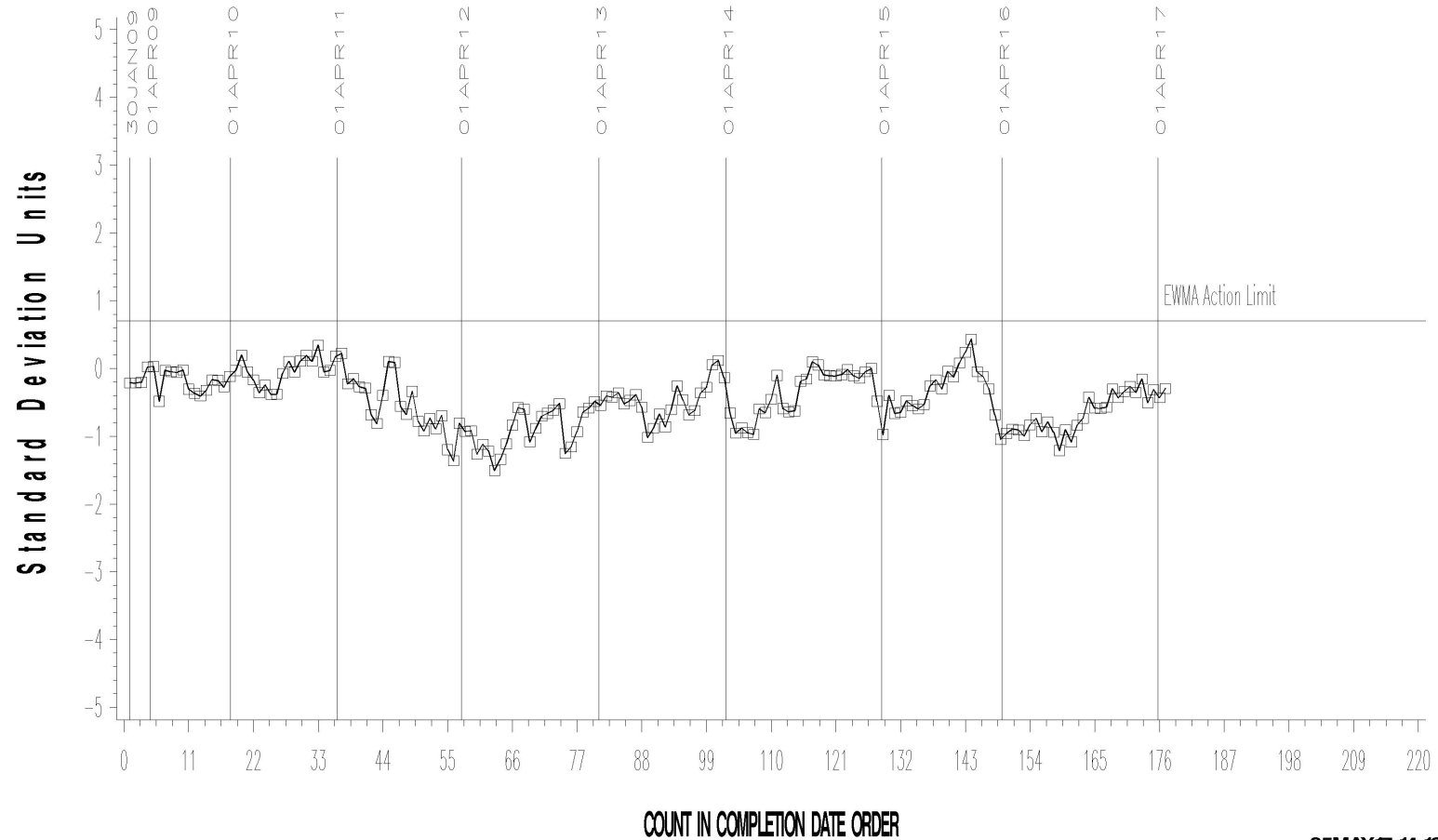
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



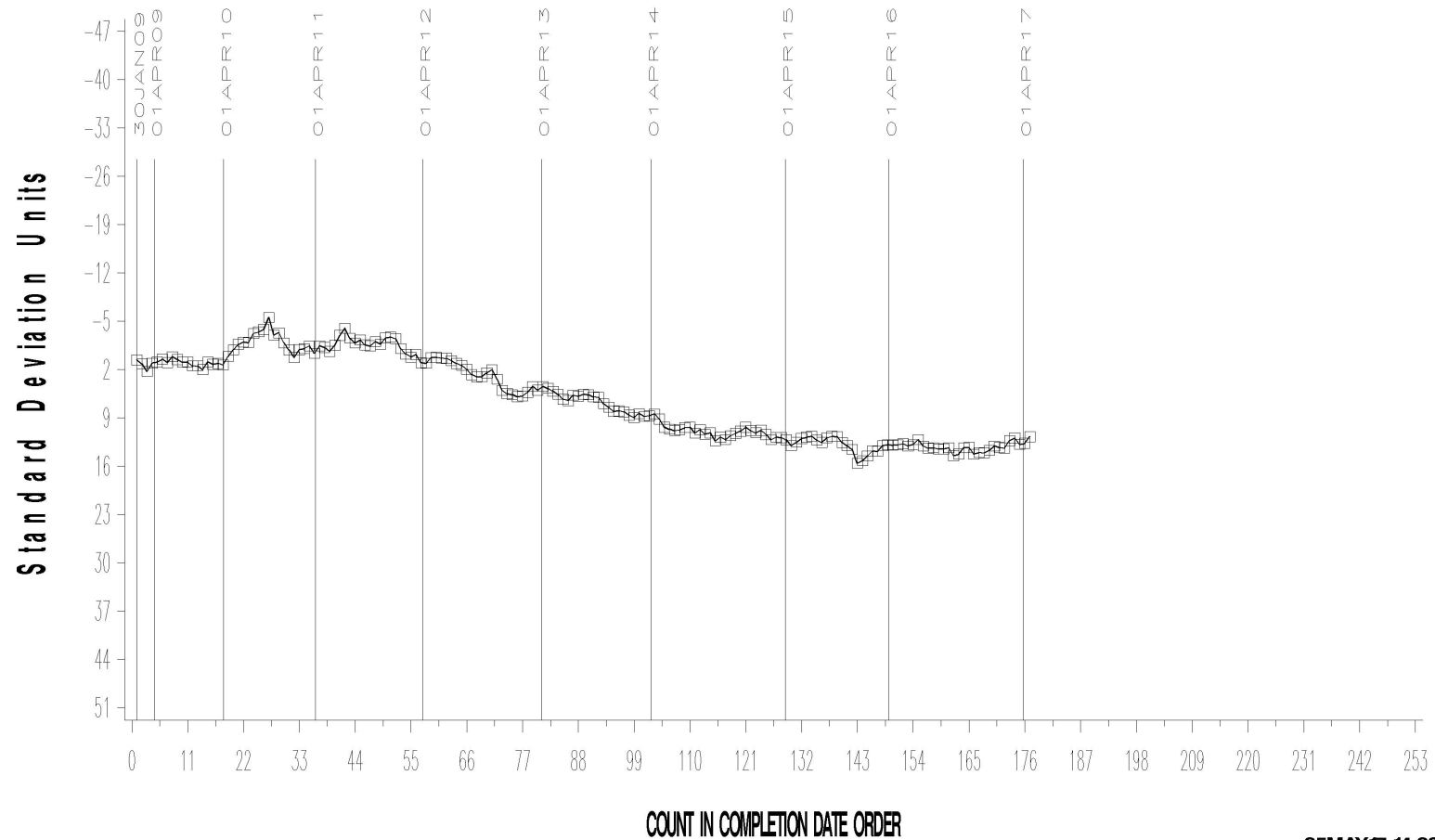
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



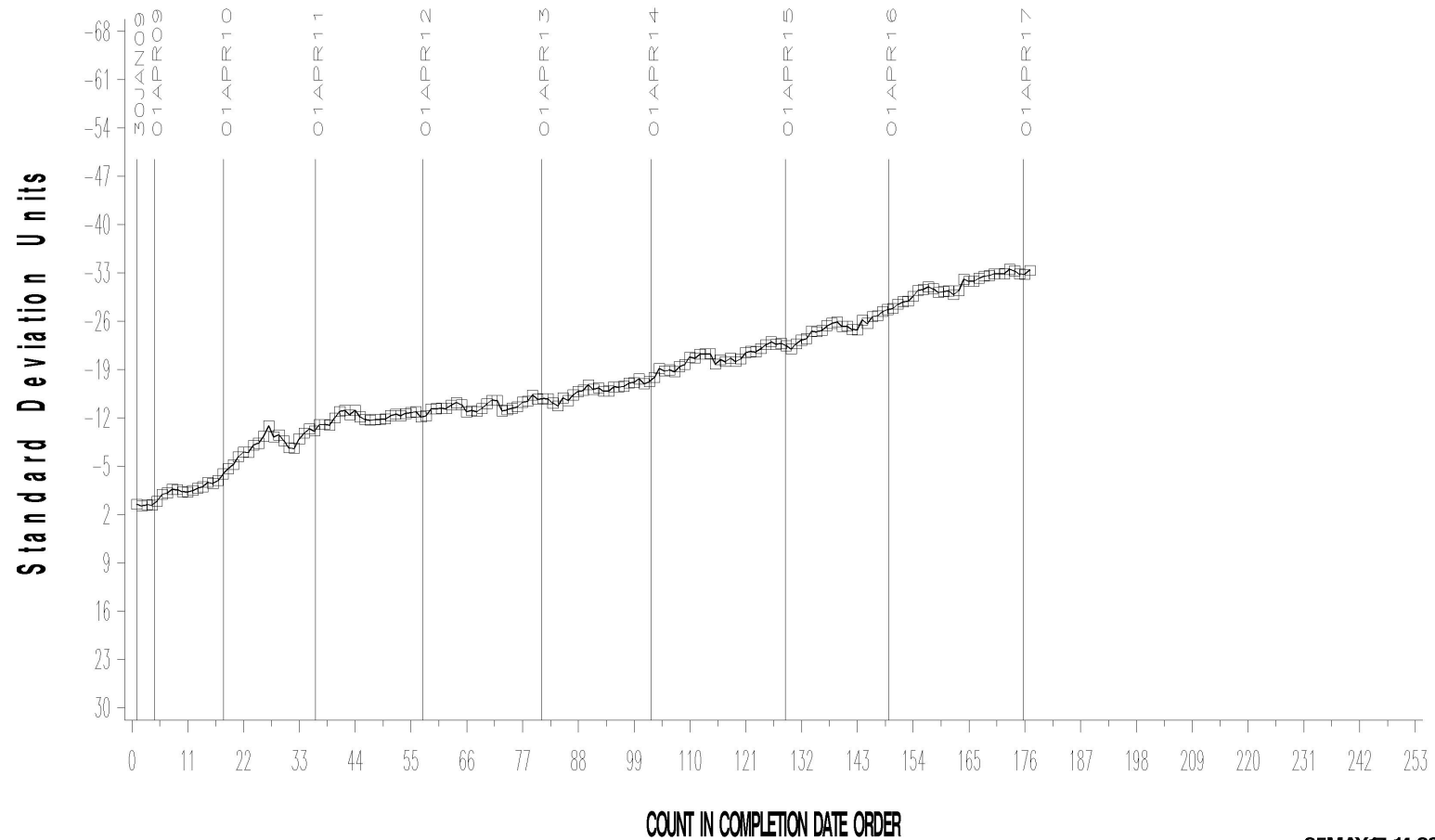
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

CUSUM Severity Analysis



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