




Test Monitoring Center

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412-365-1000

MEMORANDUM: 16-013
DATE: May 5, 2016
TO: Eric Donovan, Chairman, L-42 Surveillance Panel
FROM: Scott Parke 
SUBJECT: L-42 Rater Calibration from October 1, 2015 through March 31, 2016

Please find attached a summary of L-42 rater calibration activity this period.

SDP/sdp/mem16-013.sdp.doc

cc: Frank Farber

Jeff Clark

L-42 Surveillance Panel

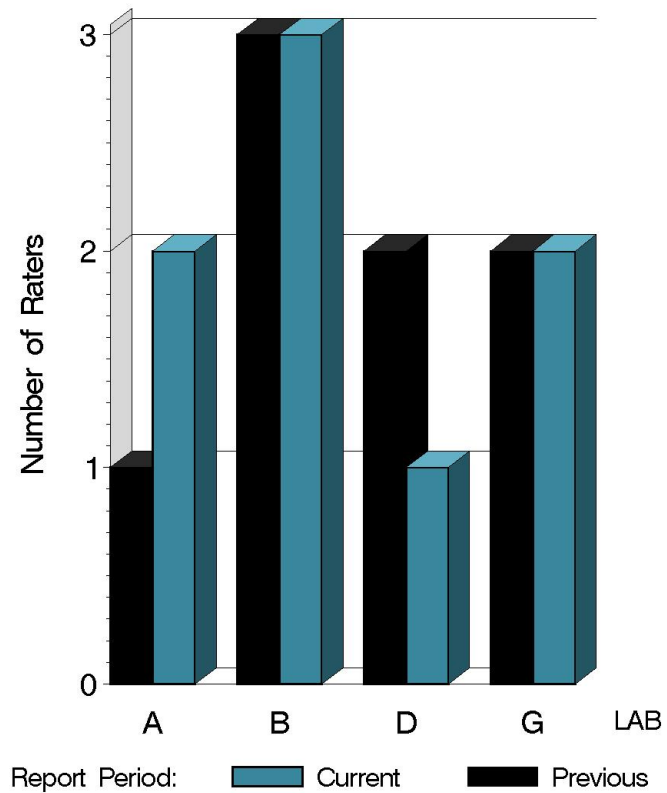
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-04-2016.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 3-31-16
Number of Labs	4	4
Number of Raters	8	8

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	10	9
Rejected (Mild)	OC	0	1
Rejected (Severe)	OC	0	1
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	0	0
Workshop data	AG	15	24
Total		25	35

L-42 Rater Calibration

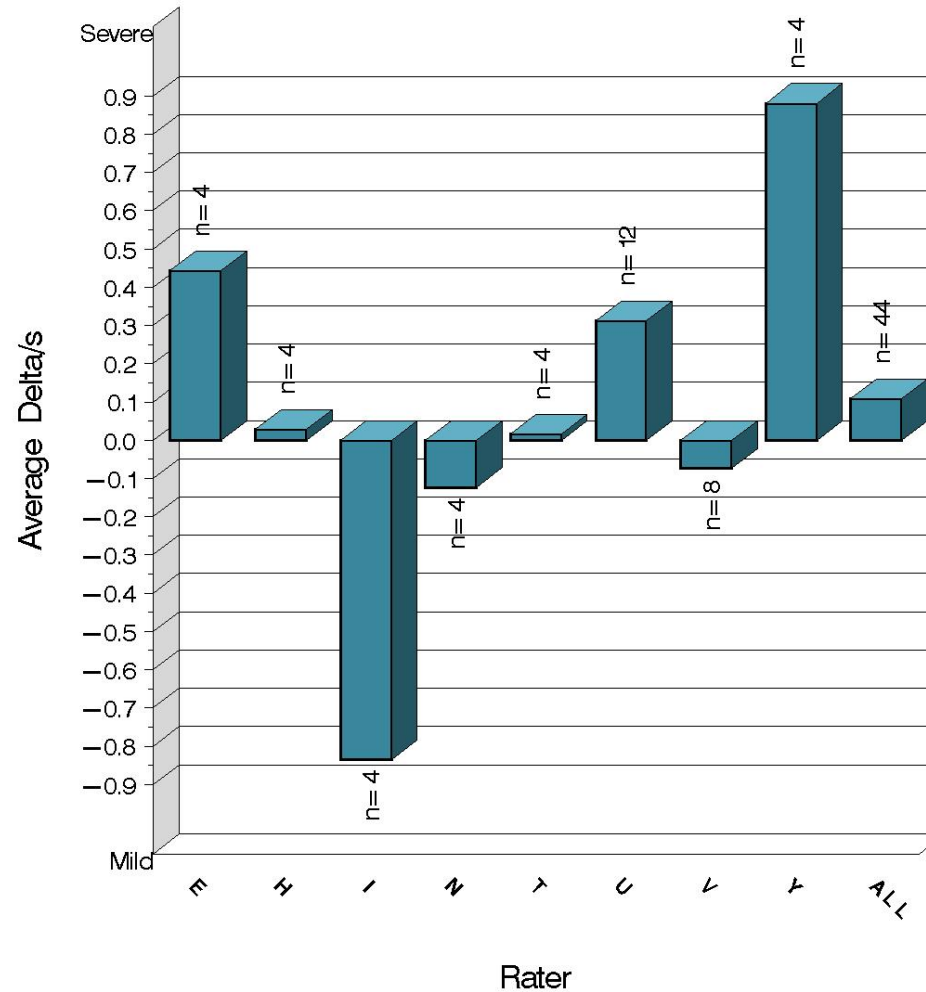
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
E	4	0.443	0.633	-0.034	0.669
H	4	0.029	1.297	-0.145	0.503
I	4	-0.835	0.464	-0.615	0.286
N	4	-0.123	0.238	-0.291	0.247
T	4	0.016	0.244	-0.209	0.559
U	12	0.313	1.667	-0.775	1.255
V	8	-0.074	1.393	0.477	0.870
Y	4	0.881	0.500	0.665	1.338
ALL	44	0.109	1.177	-0.182	0.999

* 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

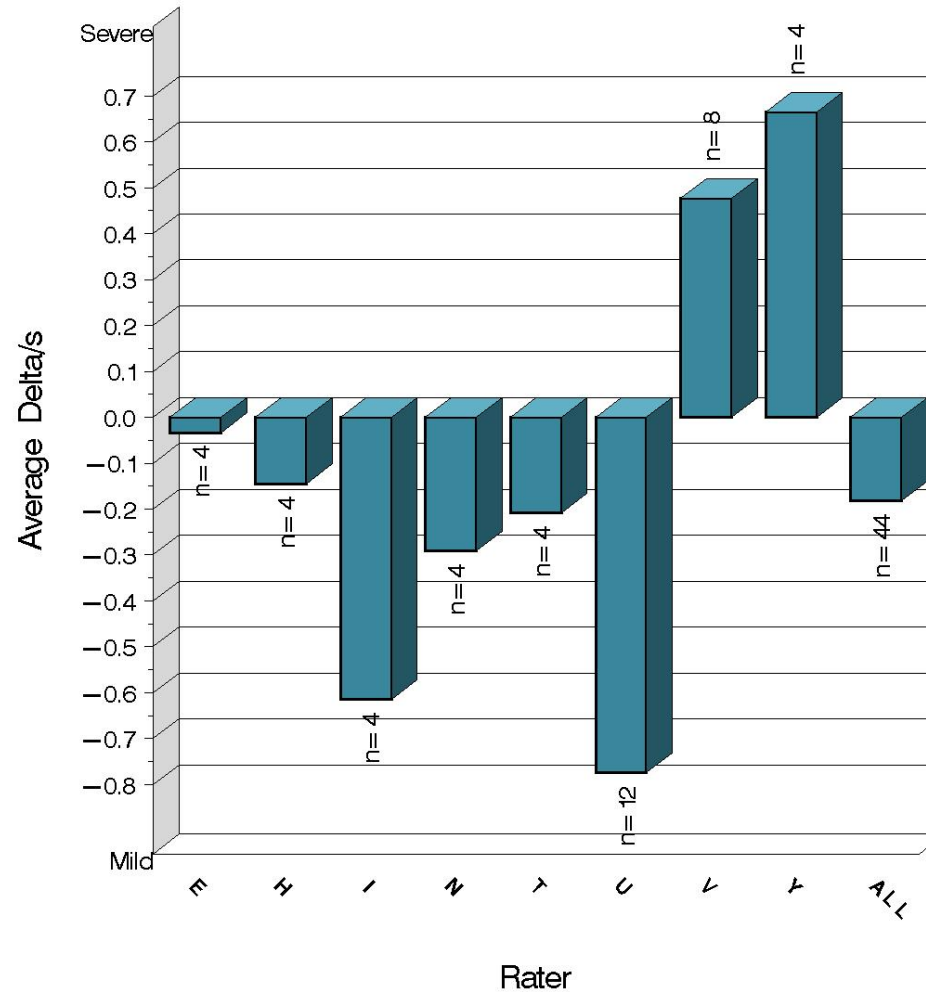


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L-42 Rater Calibration

RING SCORING

Severity as Measured by Delta/s

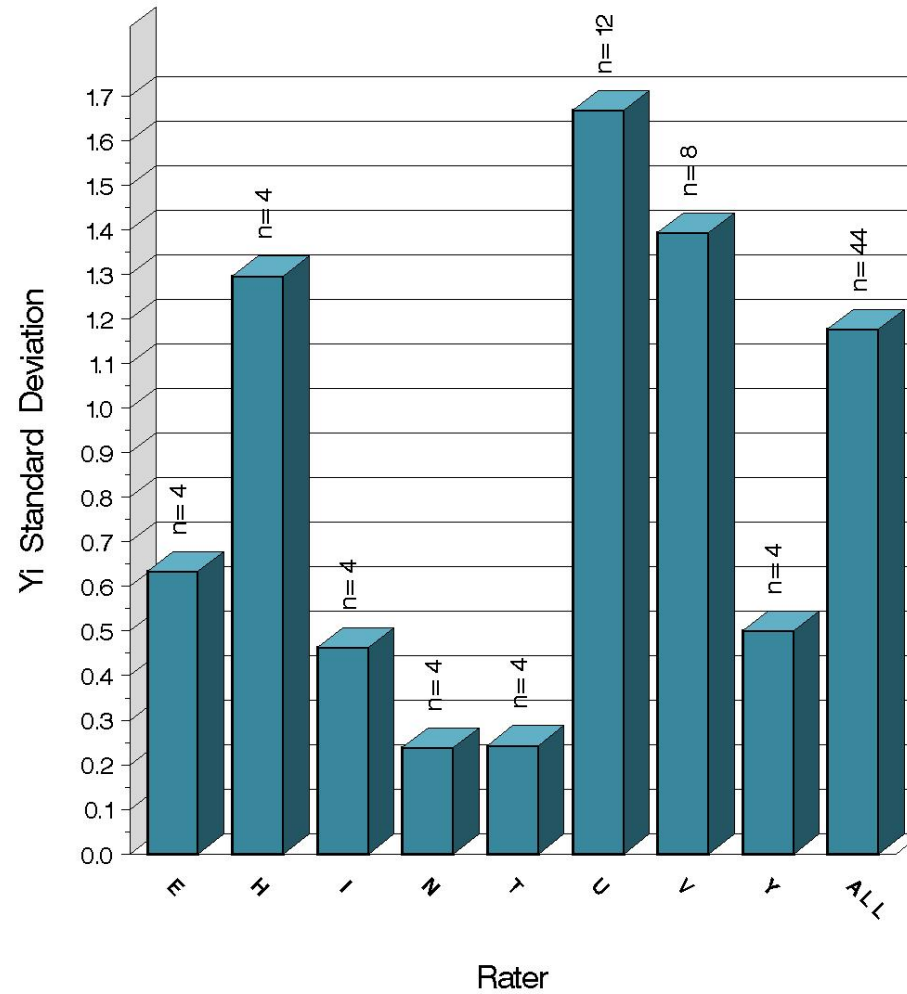


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L-42 Rater Calibration

PINION SCORING

Precision as Measured by Yi STD

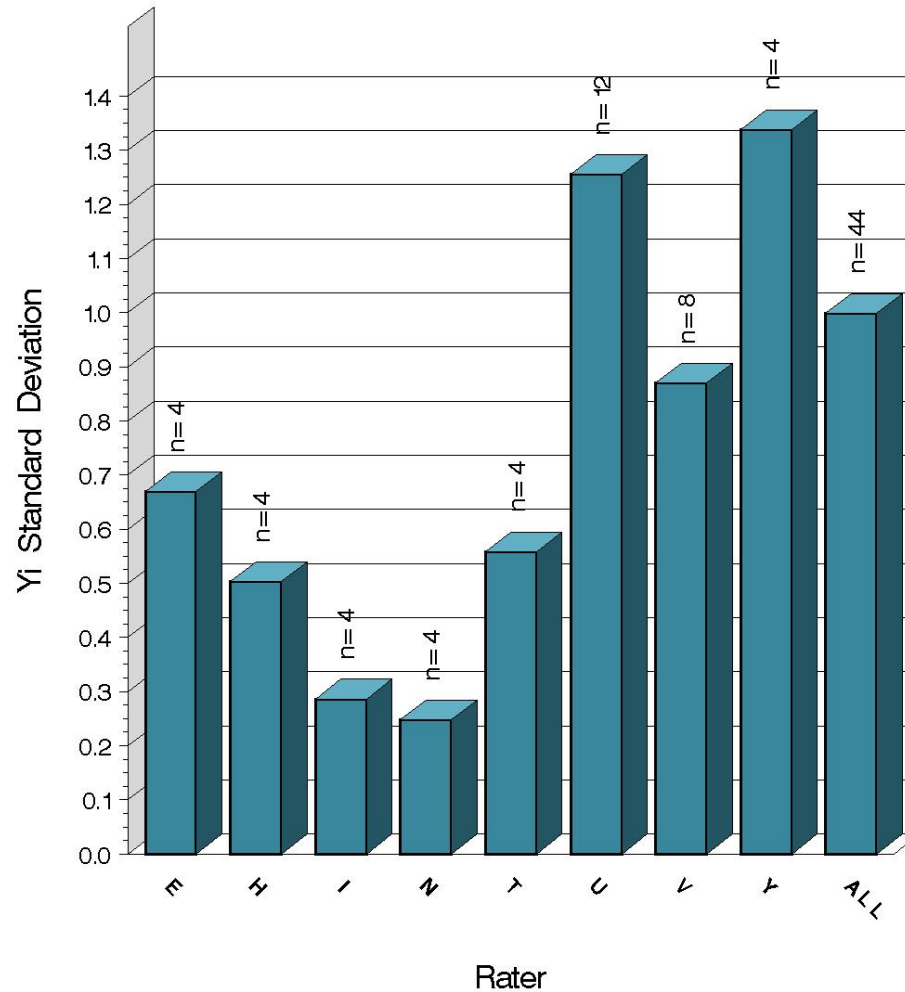


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L-42 Rater Calibration

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.

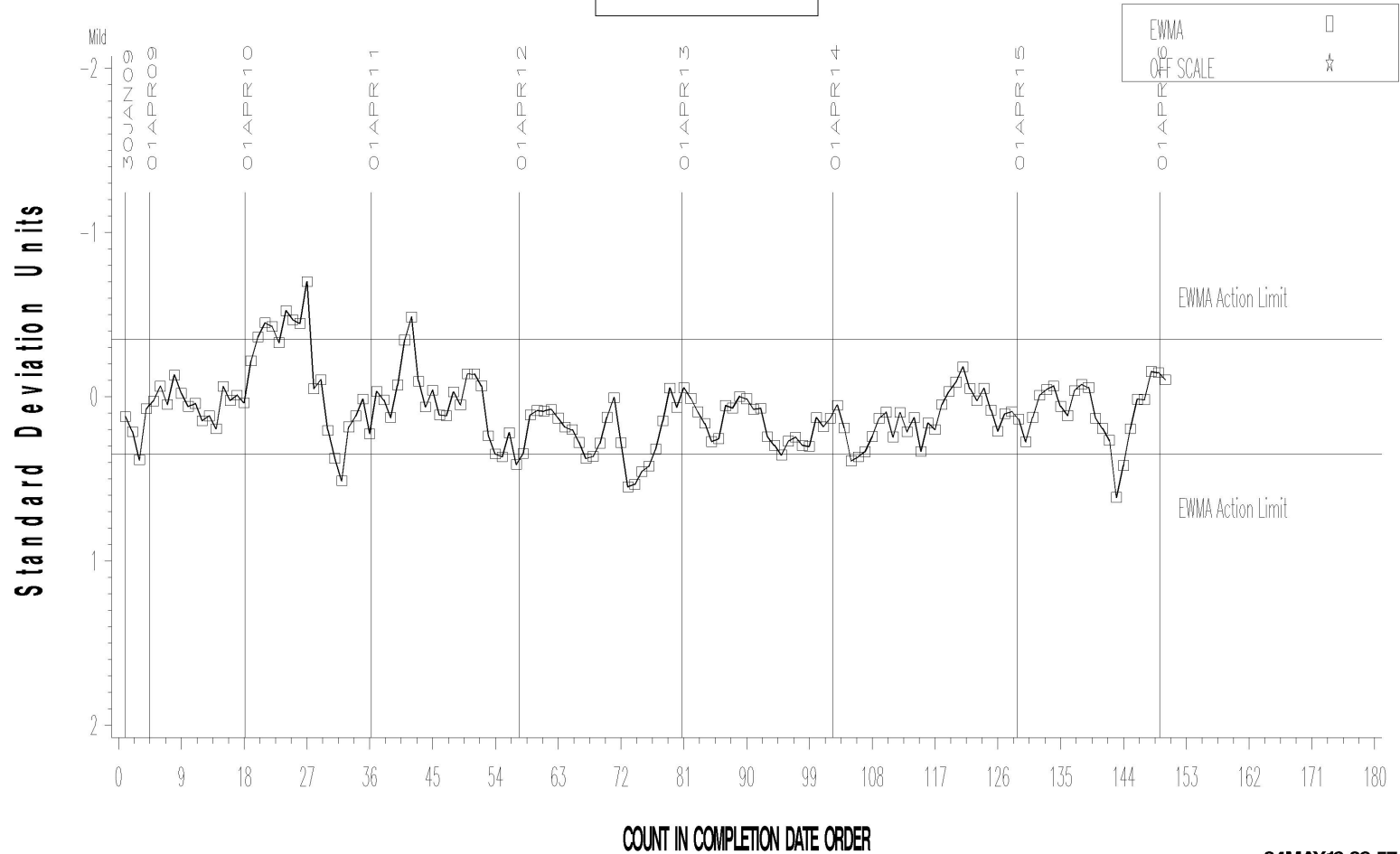
Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Severity Analysis



Severe

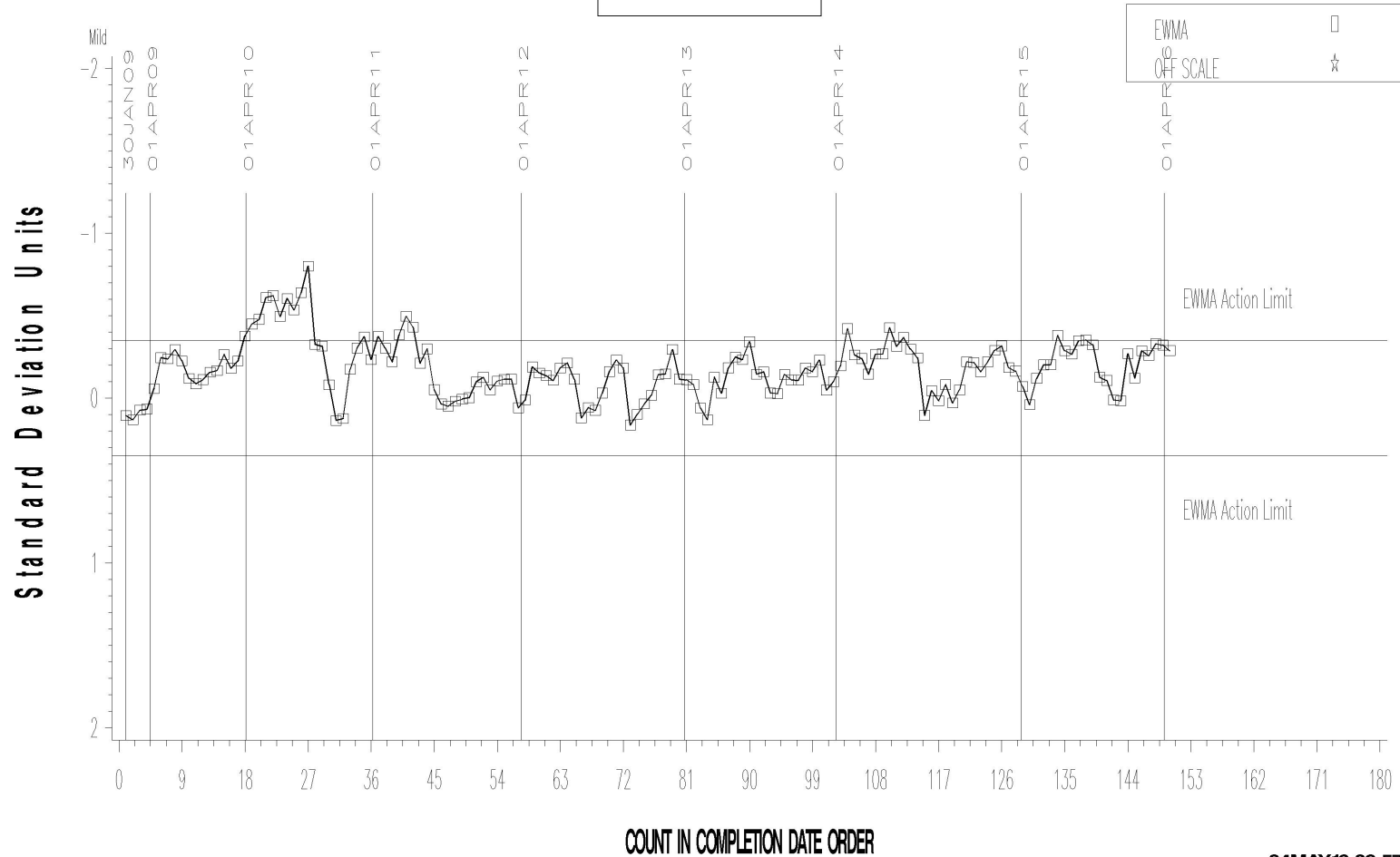
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Severity Analysis



Severe

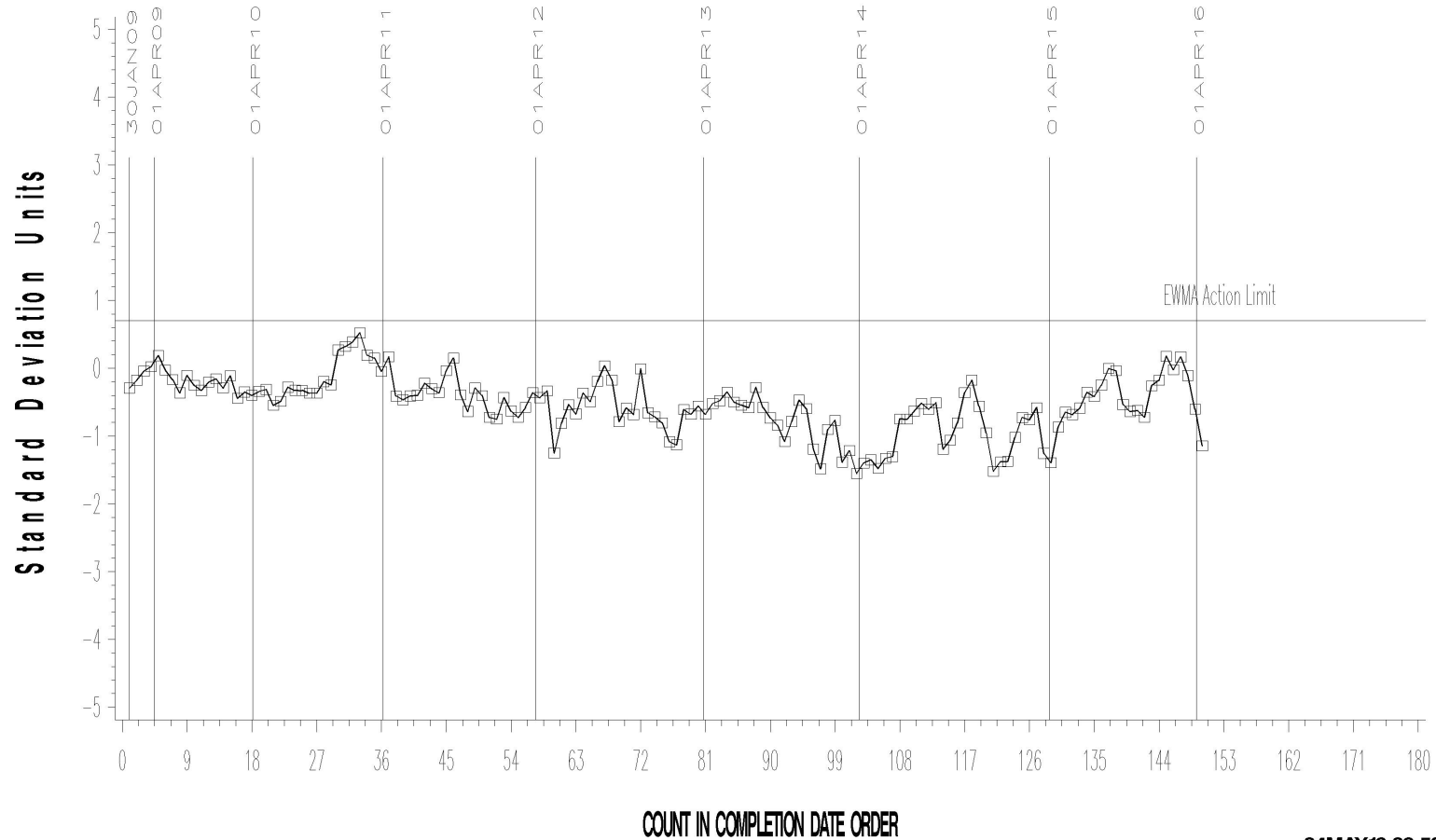
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



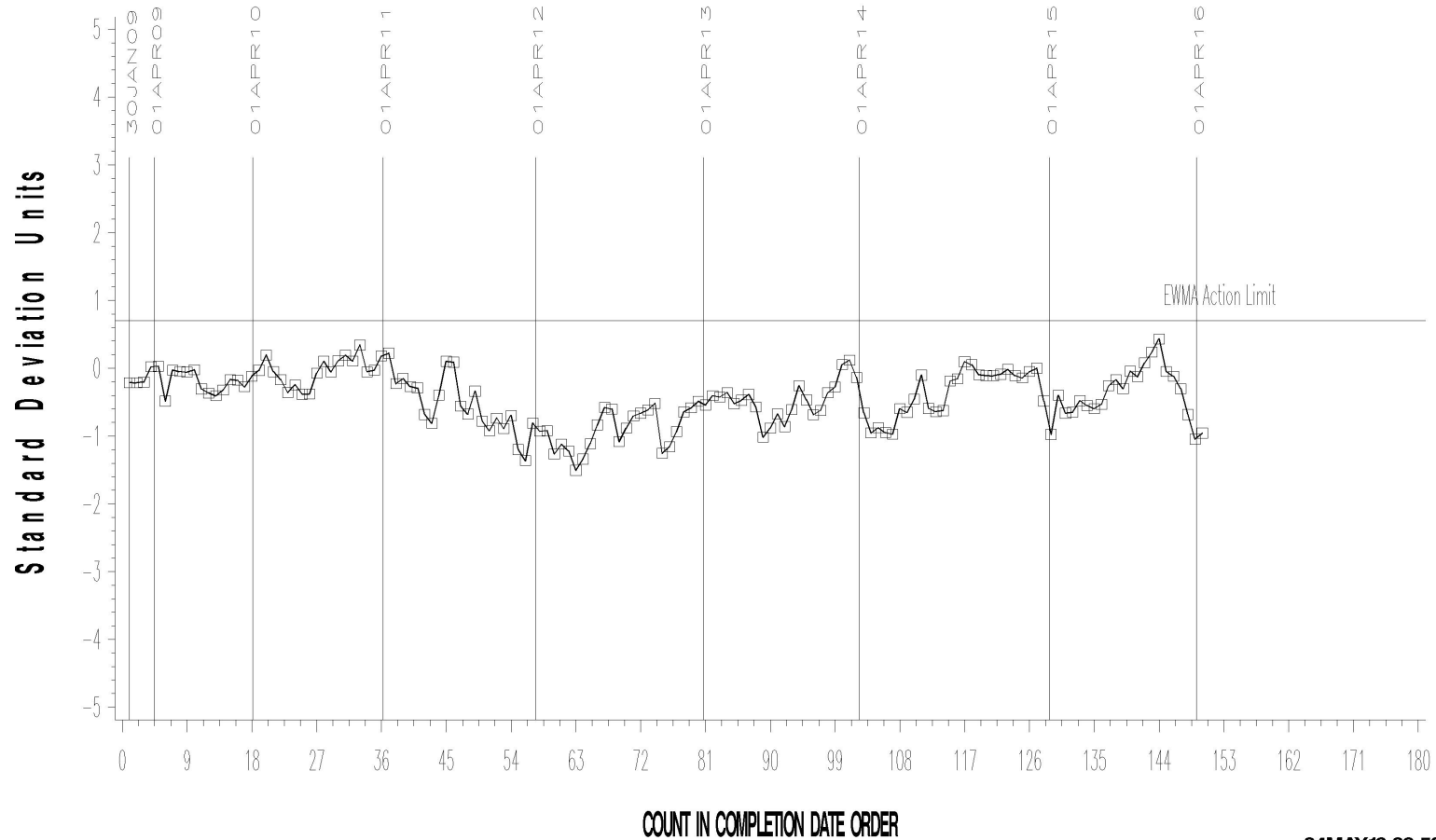
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



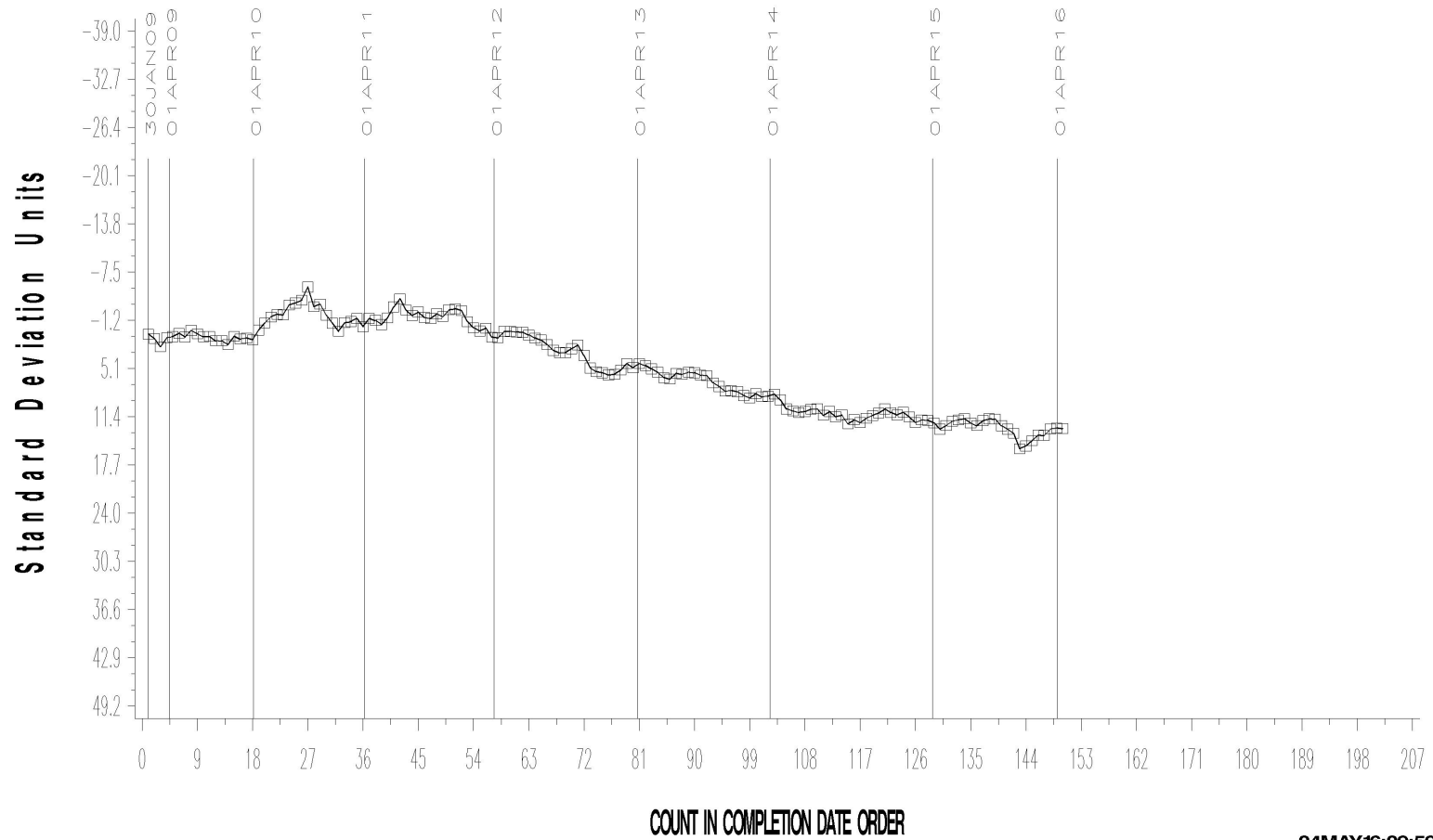
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



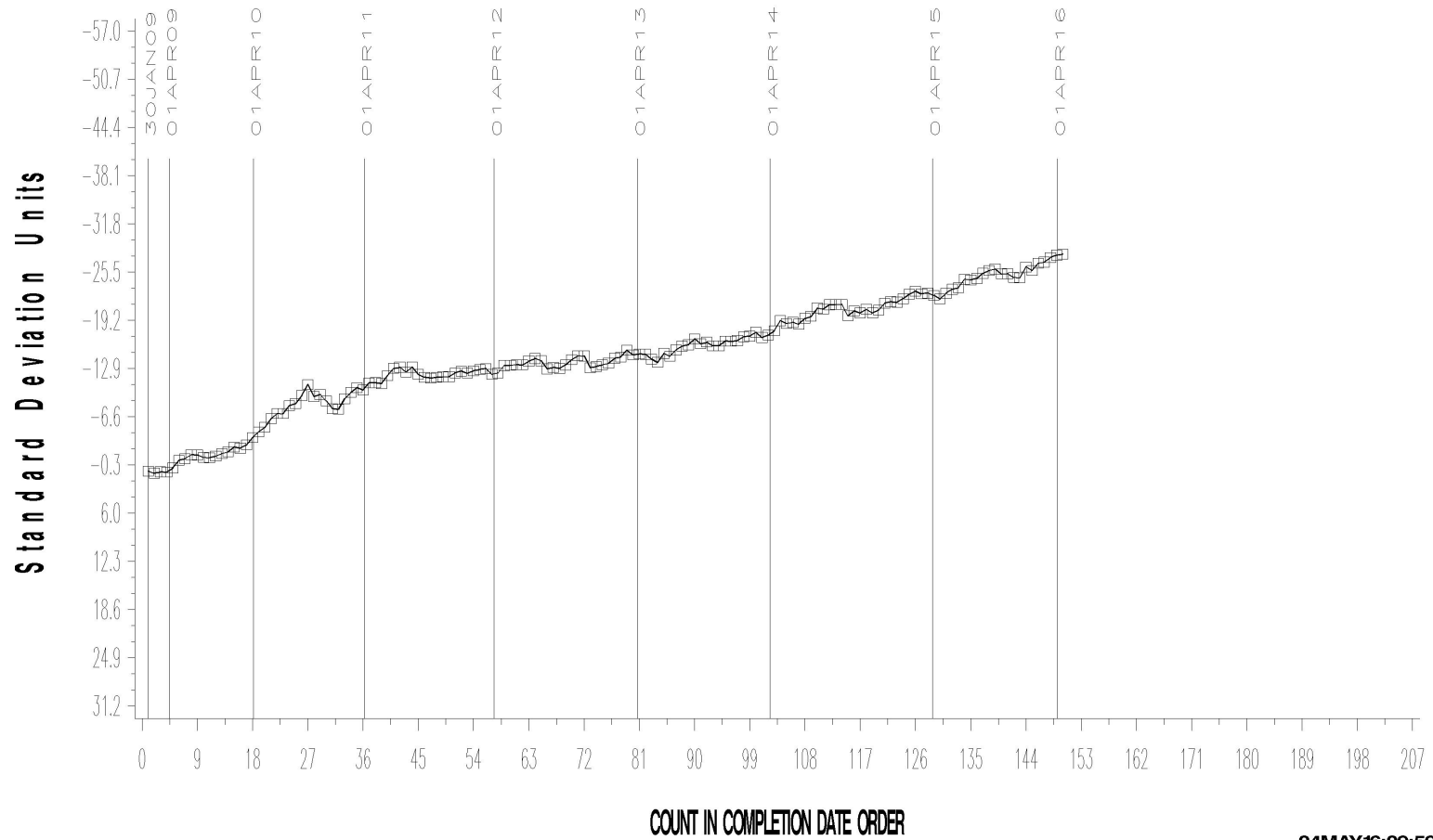
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

CUSUM Severity Analysis



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