




Test Monitoring Center

@ Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 15-049
DATE: December 1, 2015
TO: Eric Donovan, Chairman, L-42 Surveillance Panel
FROM: Scott Parke 
SUBJECT: L-42 Rater Calibration from April 1, 2015 through September 30, 2015

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

SDP/sdp/mem15-049.sdp.doc

cc: Frank Farber

Jeff Clark

L-42 Surveillance Panel

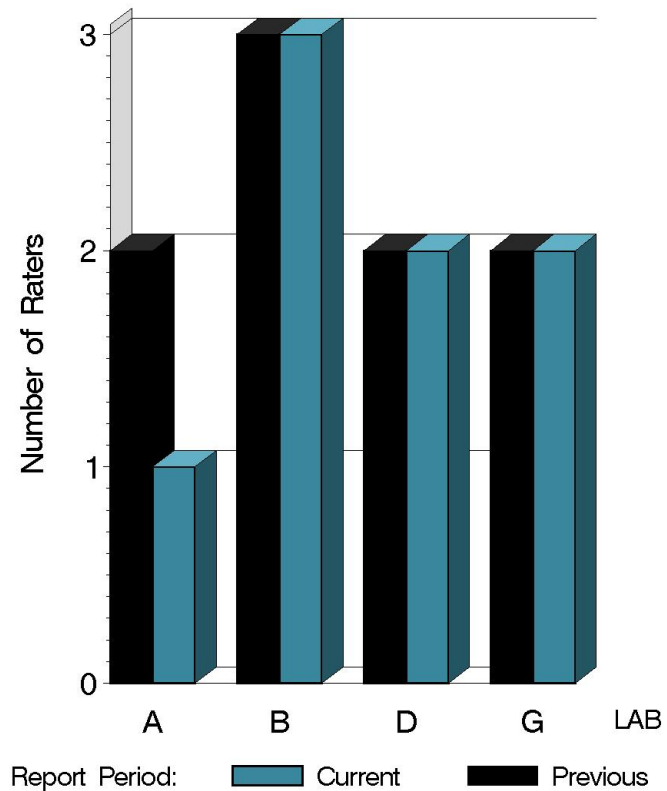
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-10-2015.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 9-30-15
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	11	10
Rejected (Mild)	OC	0	0
Rejected (Severe)	OC	0	0
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	0	0
Workshop data	AG	24	15
<hr/>			
Total		35	25

L-42 Rater Calibration

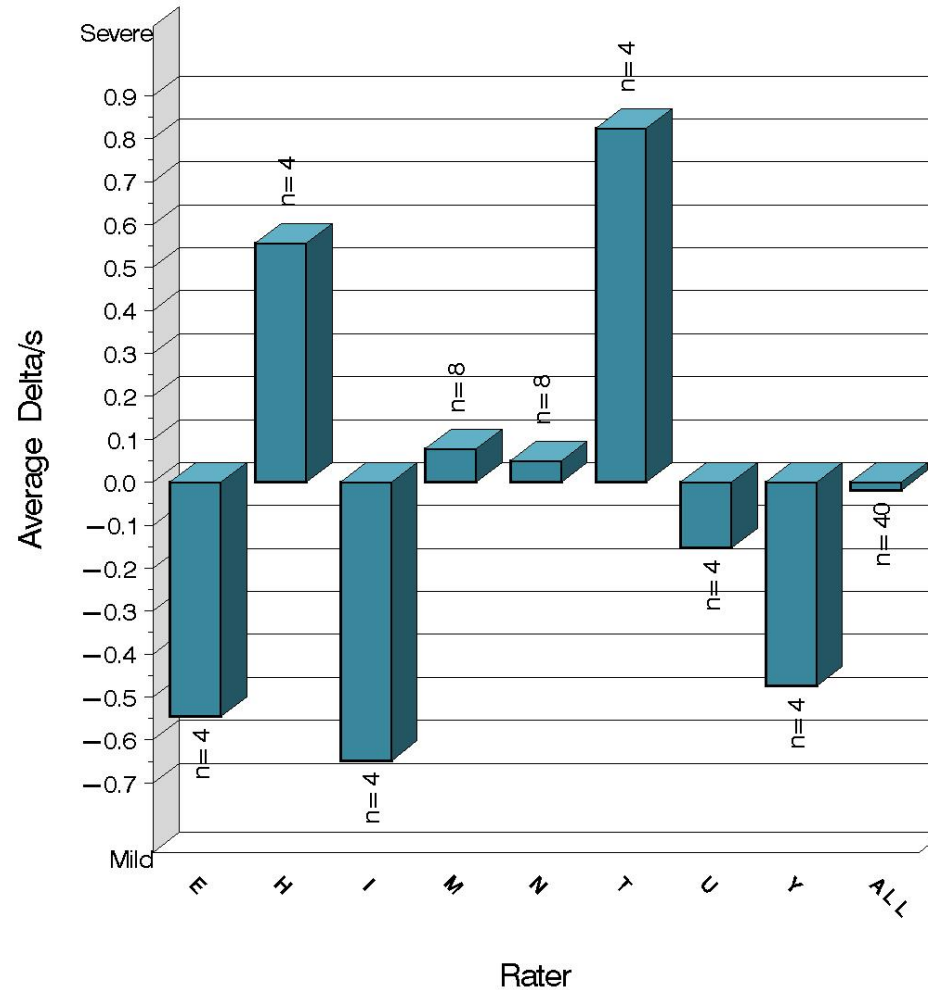
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
E	4	-0.545	0.561	-0.529	0.626
H	4	0.557	0.603	0.082	0.569
I	4	-0.648	1.338	-0.676	1.243
M	8	0.078	0.877	-0.193	0.768
N	8	0.050	0.620	-0.033	0.709
T	4	0.824	1.515	0.479	2.093
U	4	-0.153	1.097	-1.089	0.555
Y	4	-0.475	0.927	-0.760	0.362
ALL	40	-0.018	0.966	-0.295	0.970

* 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

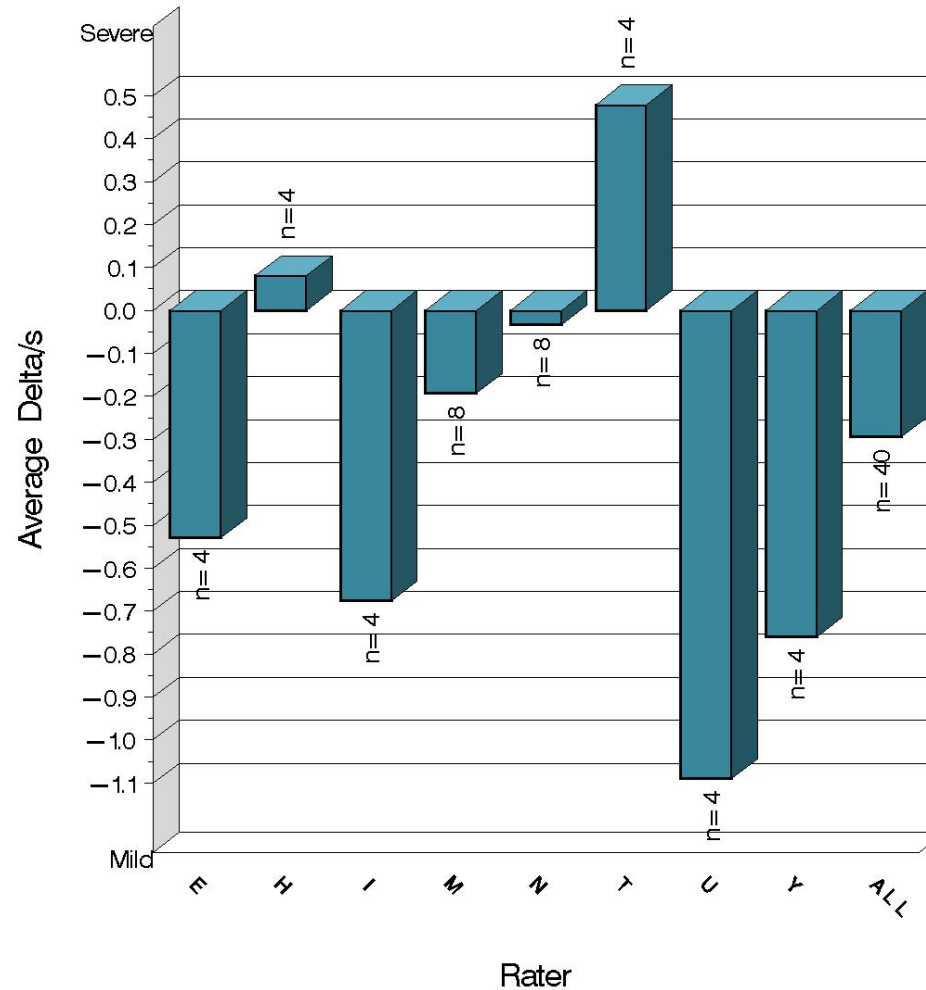


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L-42 Rater Calibration

RING SCORING

Severity as Measured by Delta/s

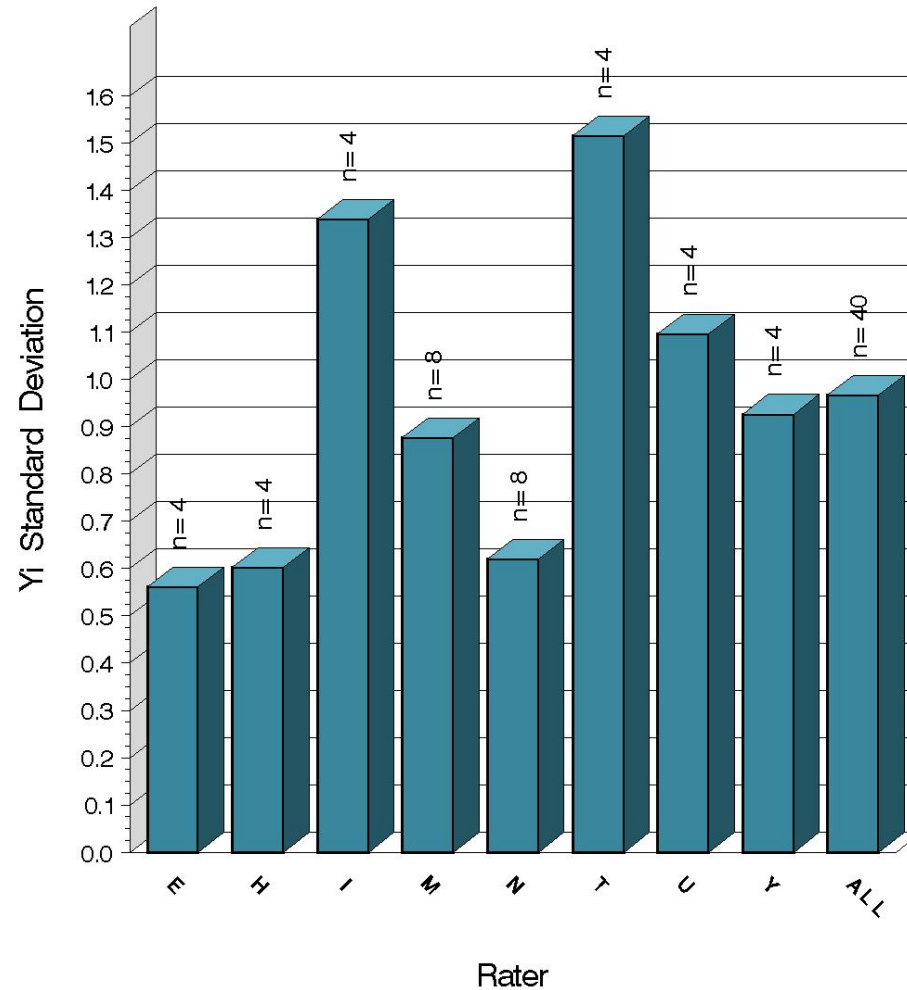


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L-42 Rater Calibration

PINION SCORING

Precision as Measured by Yi STD

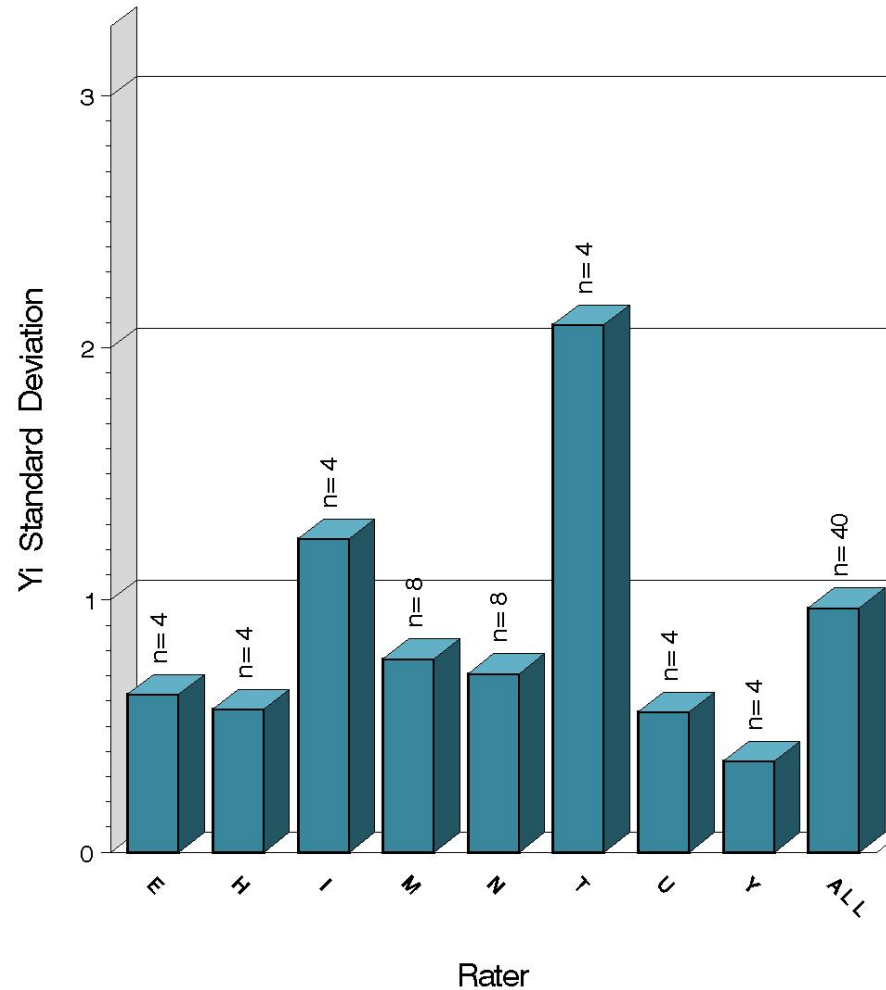


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L-42 Rater Calibration

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.

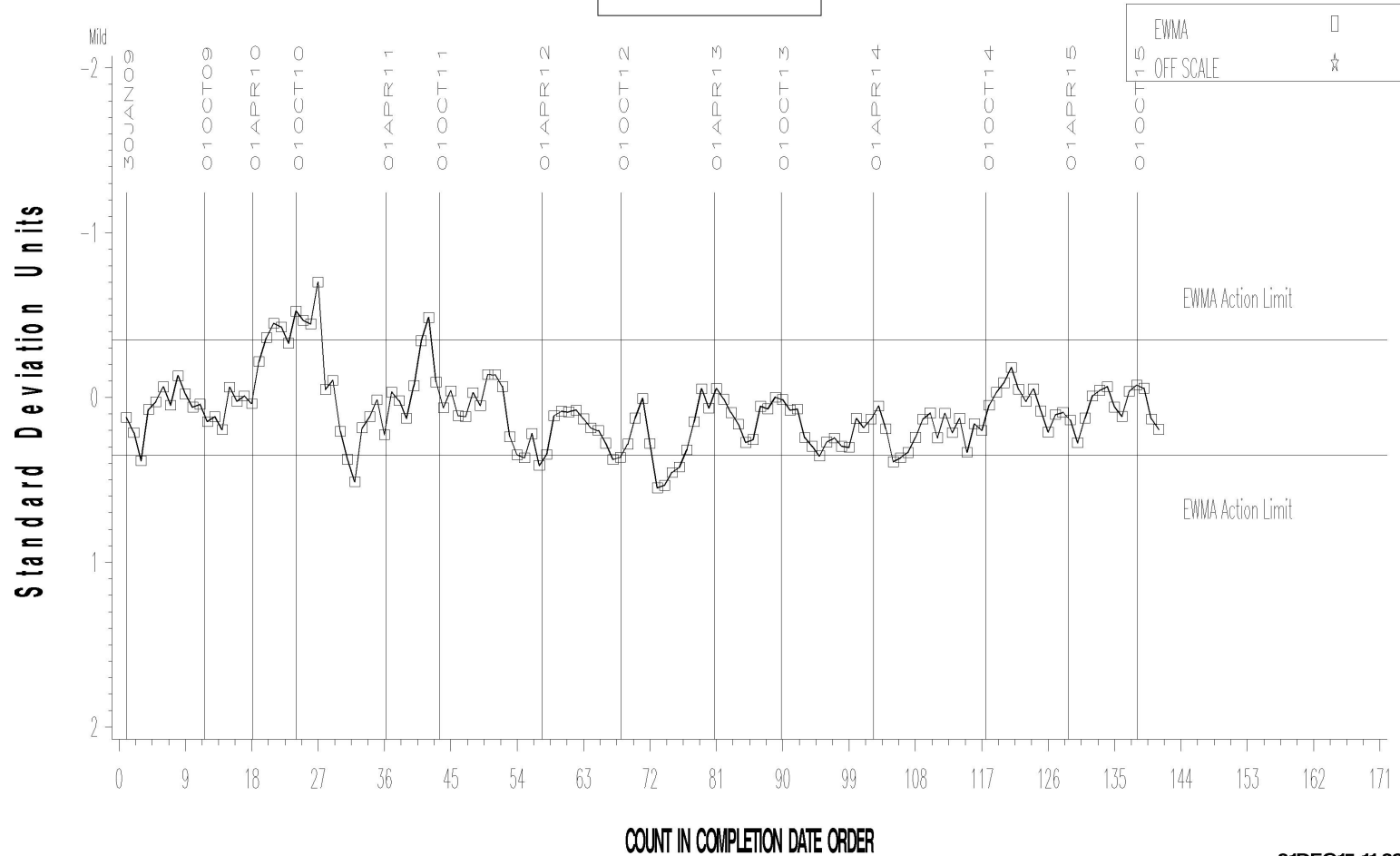
Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Severity Analysis



Severe

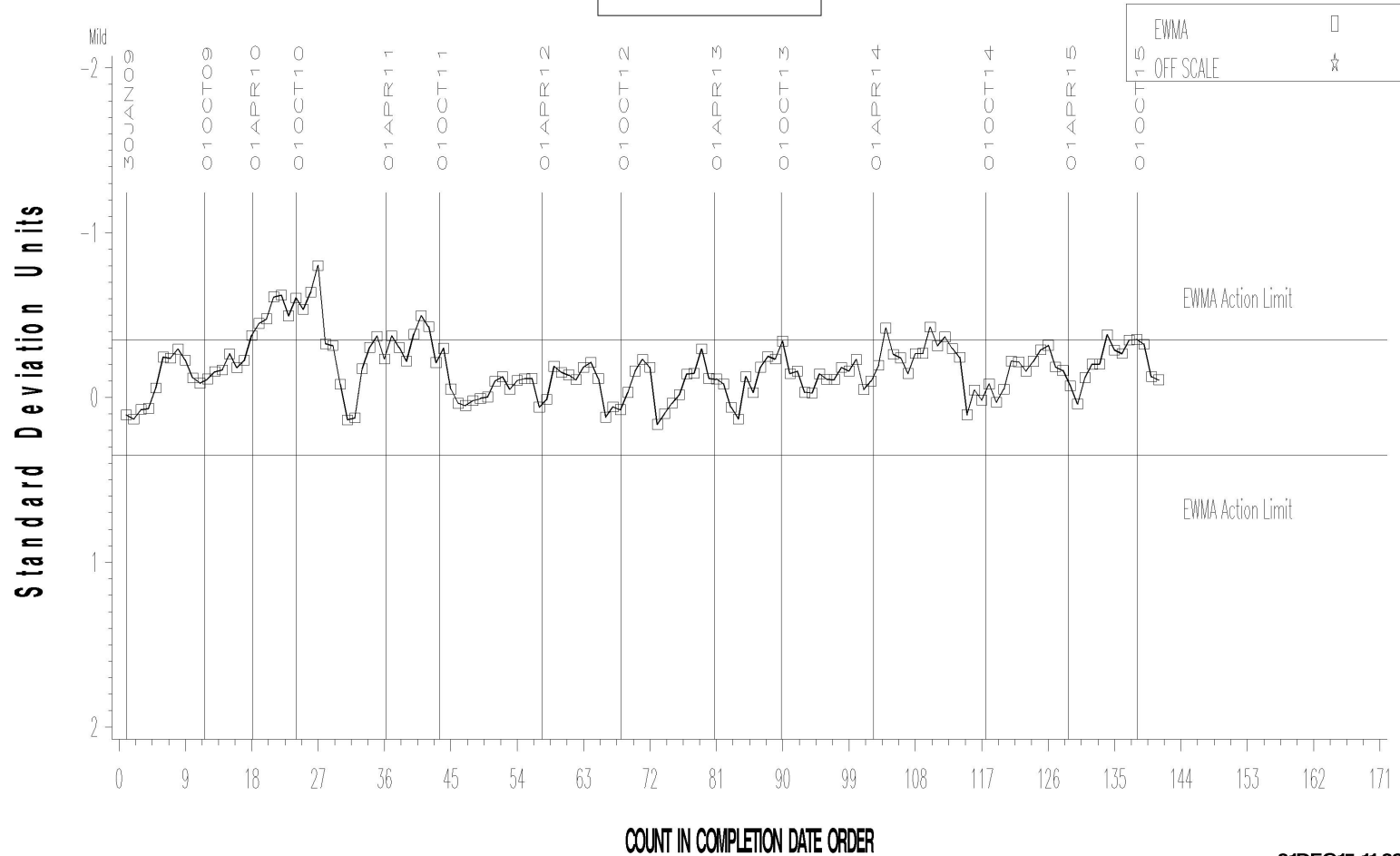
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Severity Analysis



Severe

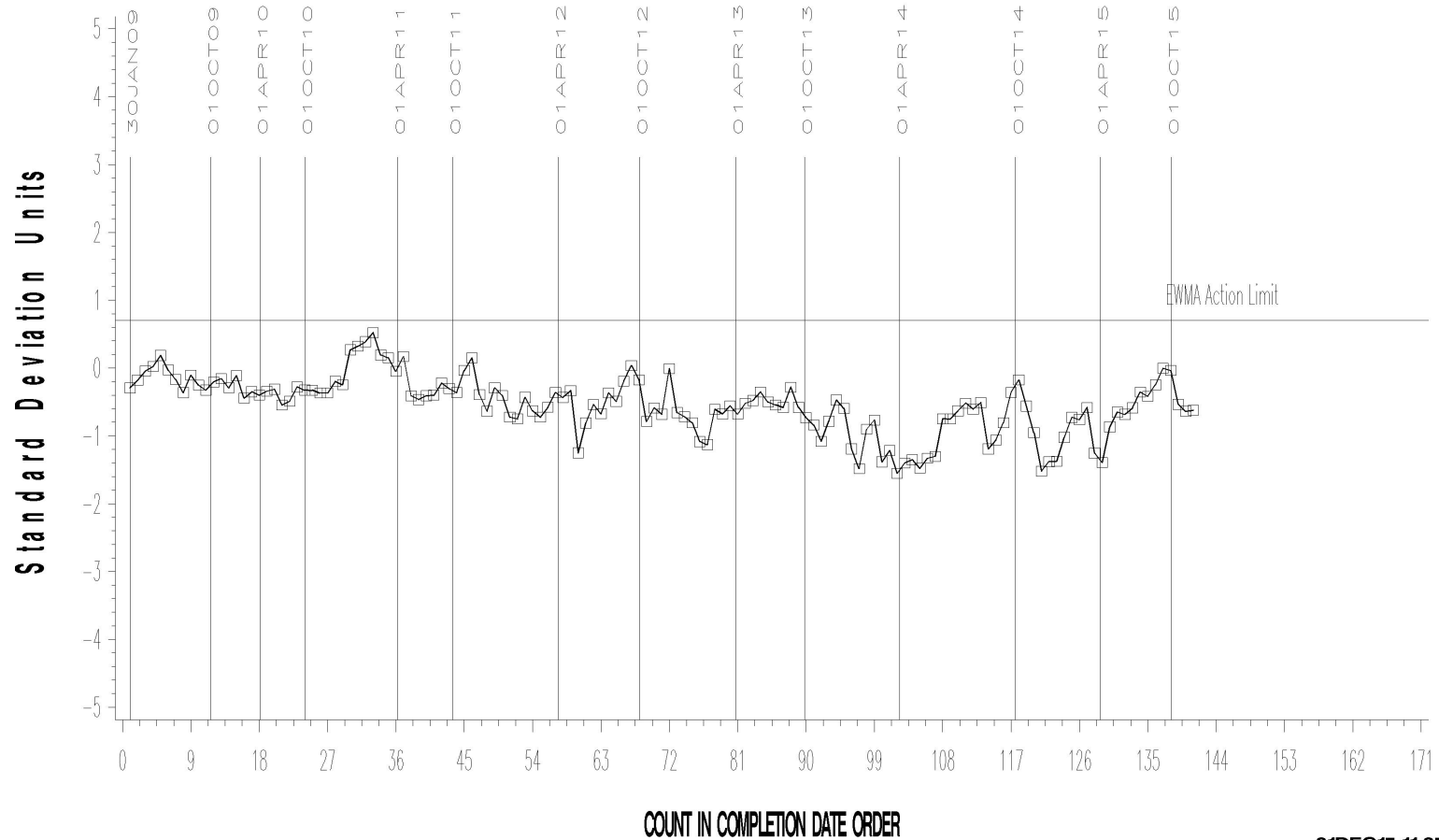
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



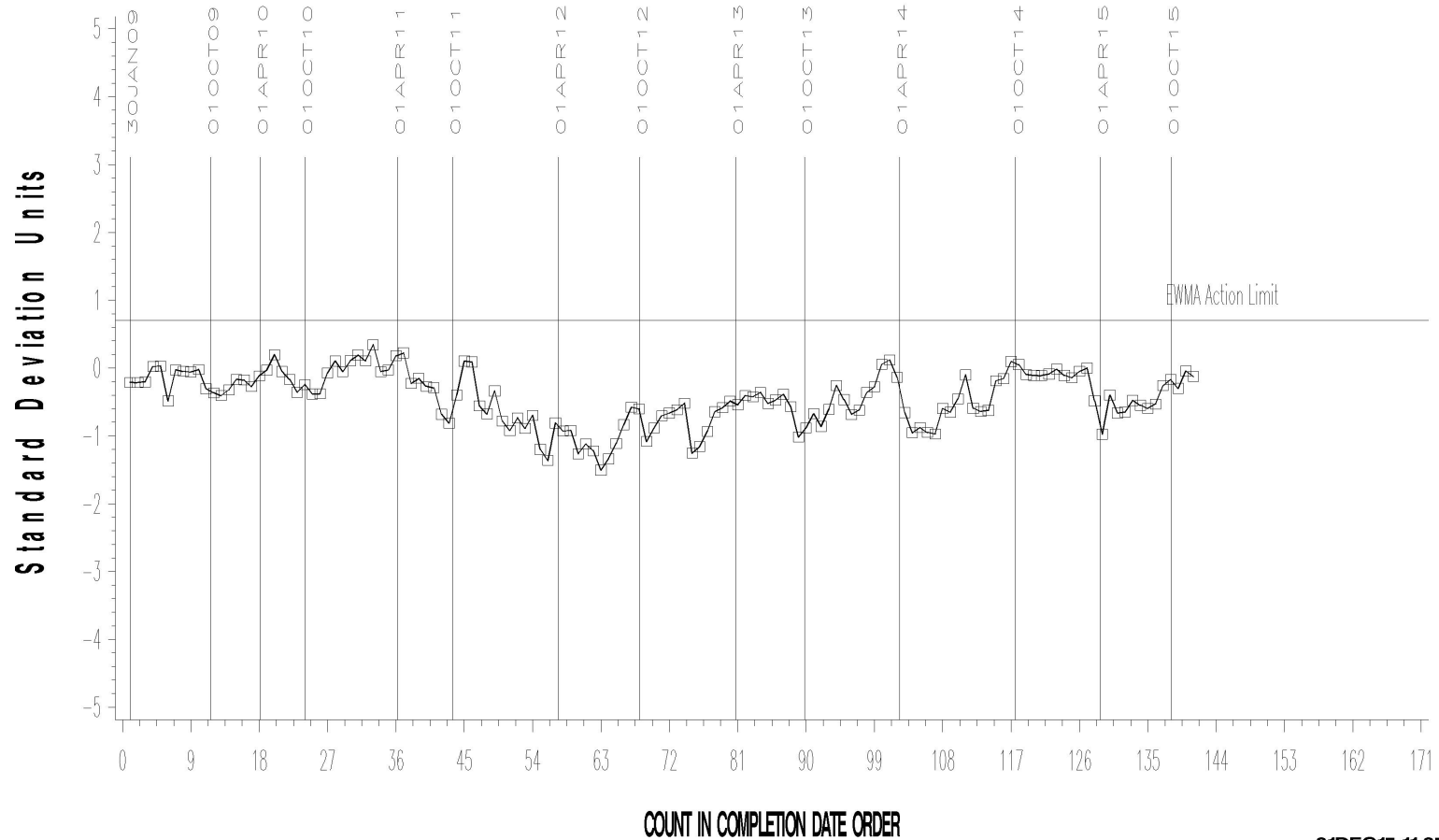
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



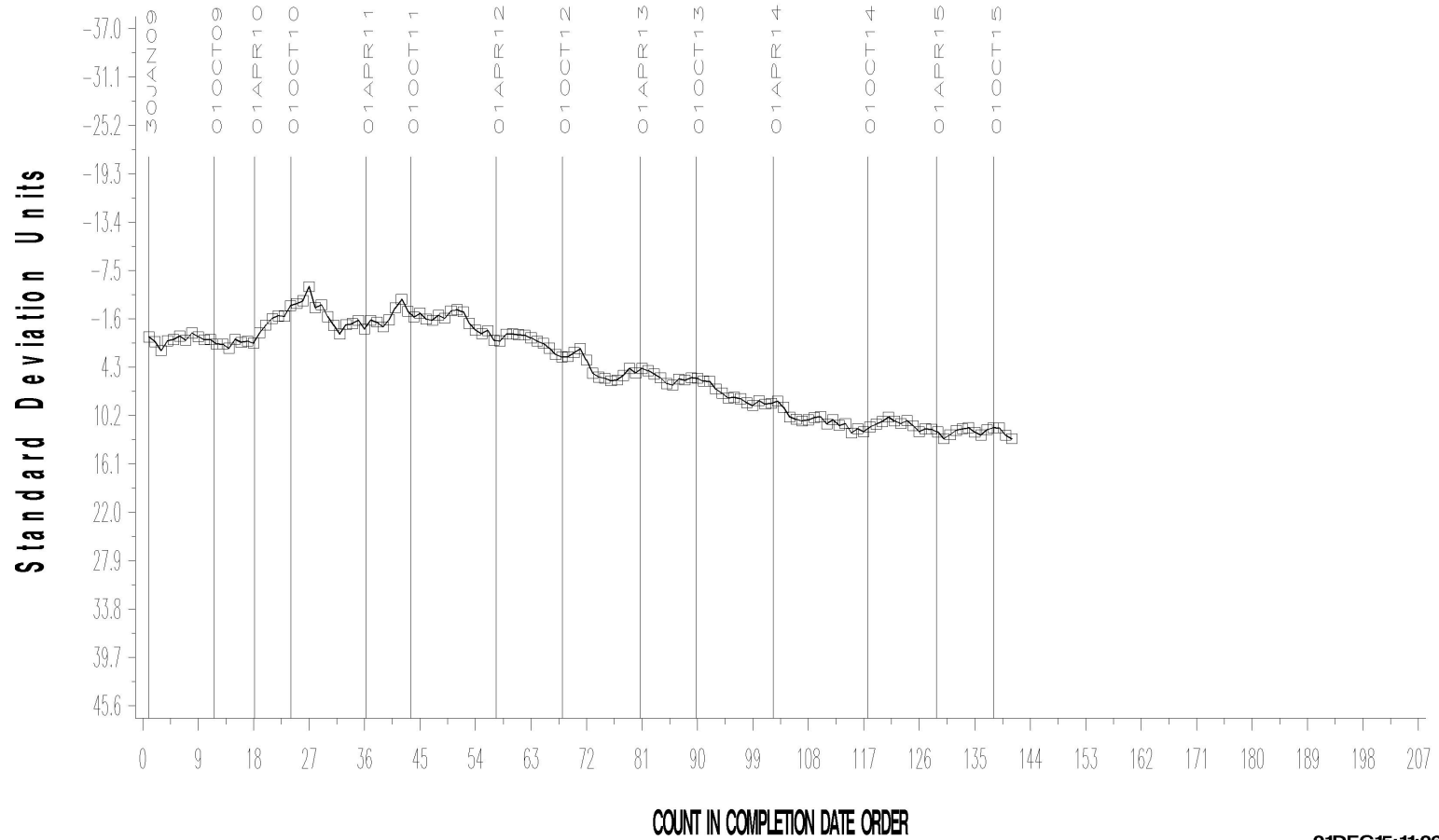
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



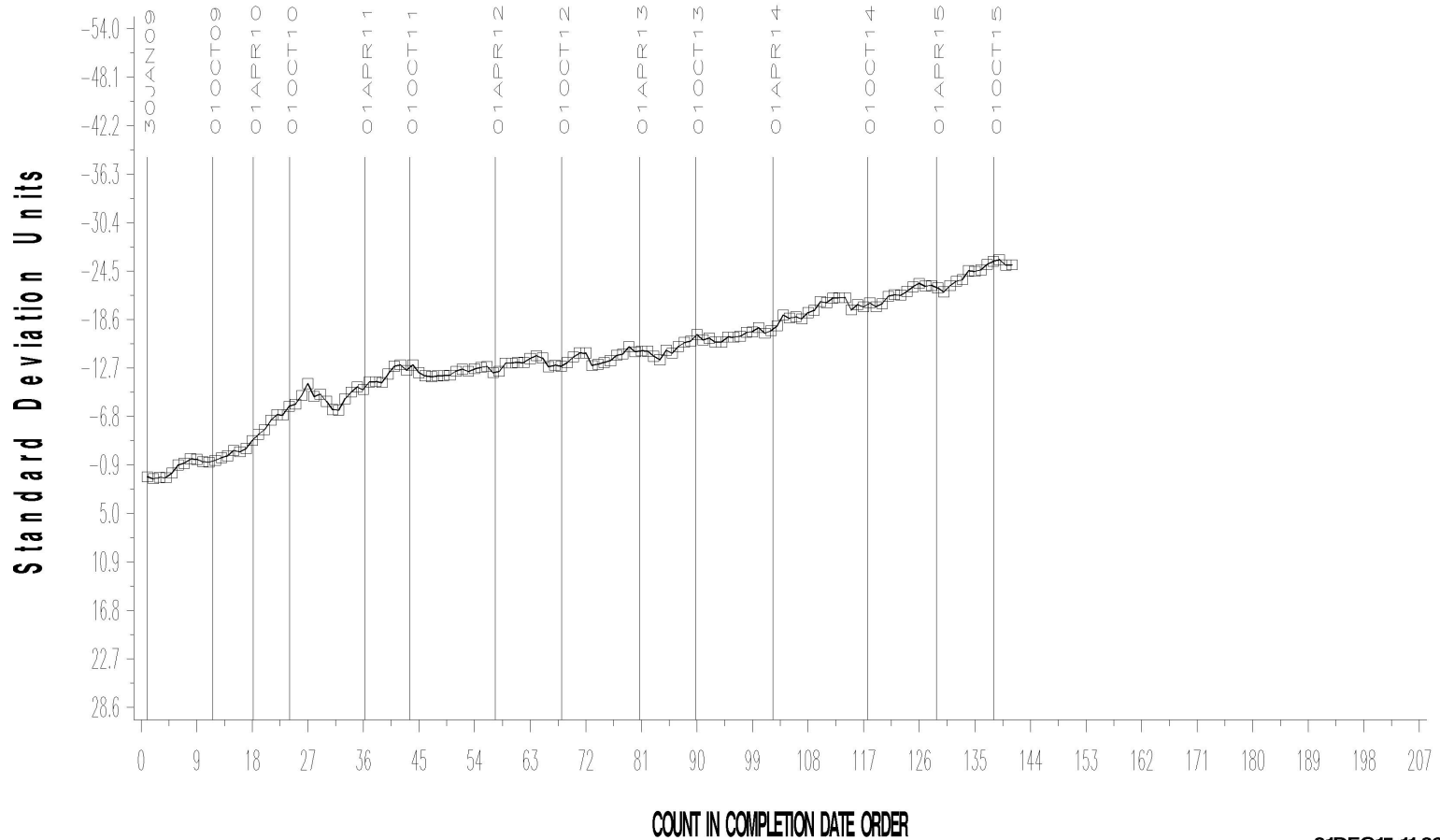
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

CUSUM Severity Analysis



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