




Test Monitoring Center

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412-365-1000

MEMORANDUM: 13-062
DATE: November 19, 2013
TO: Thomas D. Gottwald, Chairman, L-42 Surveillance Panel
FROM: Scott Parke 
SUBJECT: L-42 Rater Calibration from April 1, 2013 through September 30, 2013

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

SDP/sdp/mem13-062.sdp.doc

cc: Frank Farber

Jeff Clark

L-42 Surveillance Panel

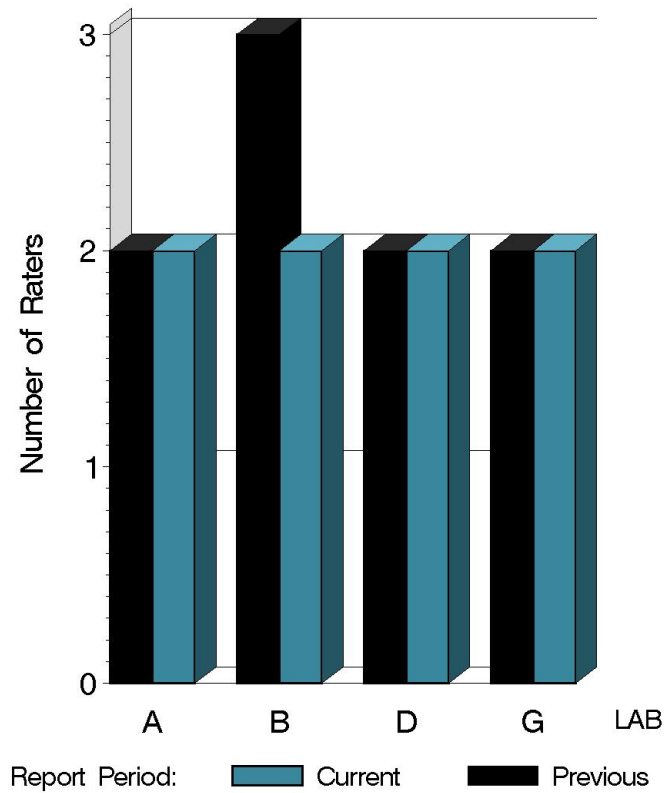
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-10-2013.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 9-30-13
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	0
Rejected (Severe)	OC	1	0
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	1	0
Workshop data	AG	27	18
Total		39	27

L-42 Rater Calibration

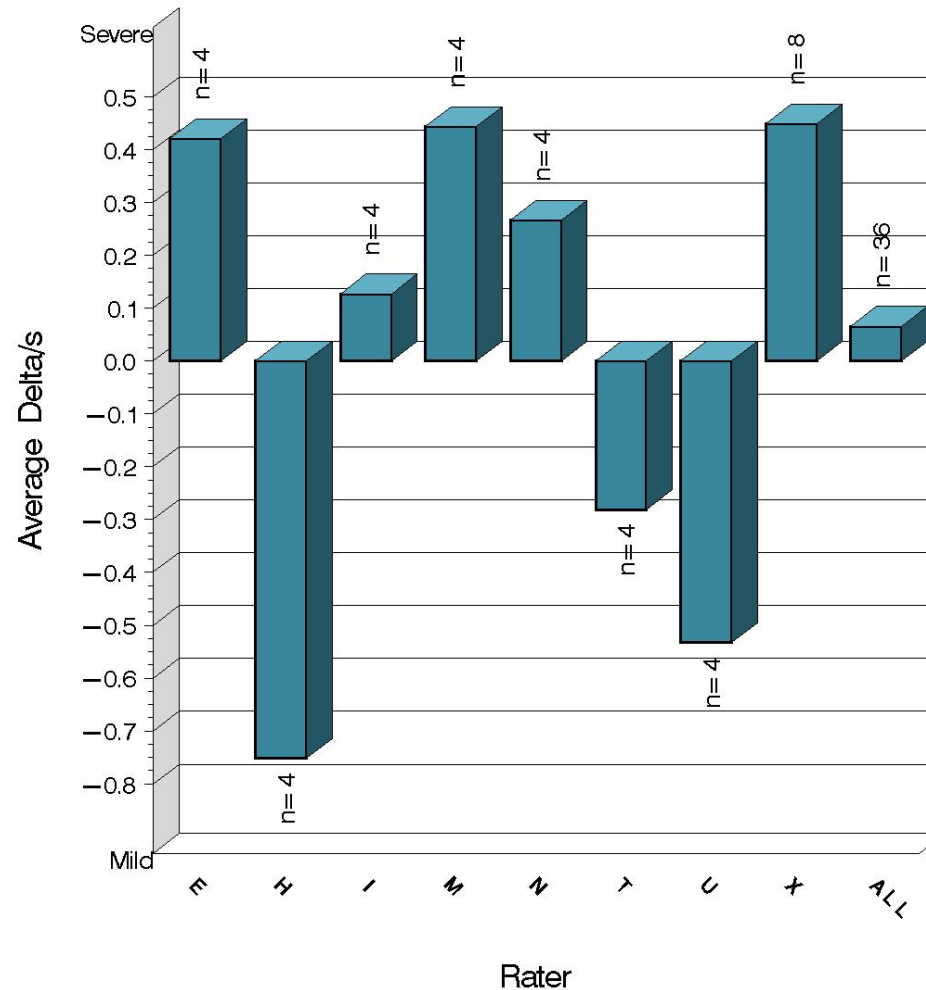
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
E	4	0.421	0.715	0.626	0.654
H	4	-0.752	0.587	-0.800	0.811
I	4	0.127	1.290	-0.510	0.442
M	4	0.444	0.896	0.413	0.794
N	4	0.266	0.879	0.040	0.892
T	4	-0.281	0.353	-0.172	0.213
U	4	-0.533	0.473	-0.101	0.574
X	8	0.449	0.574	-0.400	0.988
ALL	36	0.066	0.805	-0.145	0.804

* 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

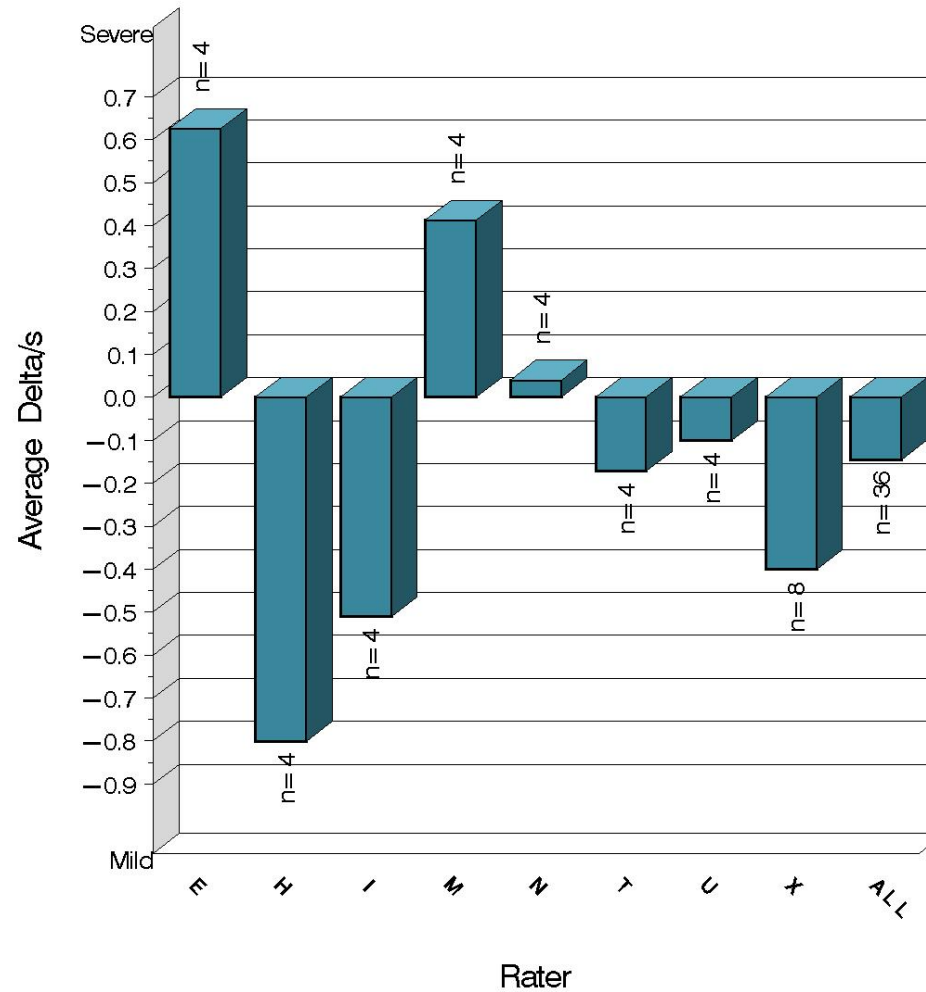


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L-42 Rater Calibration

RING SCORING

Severity as Measured by Delta/s

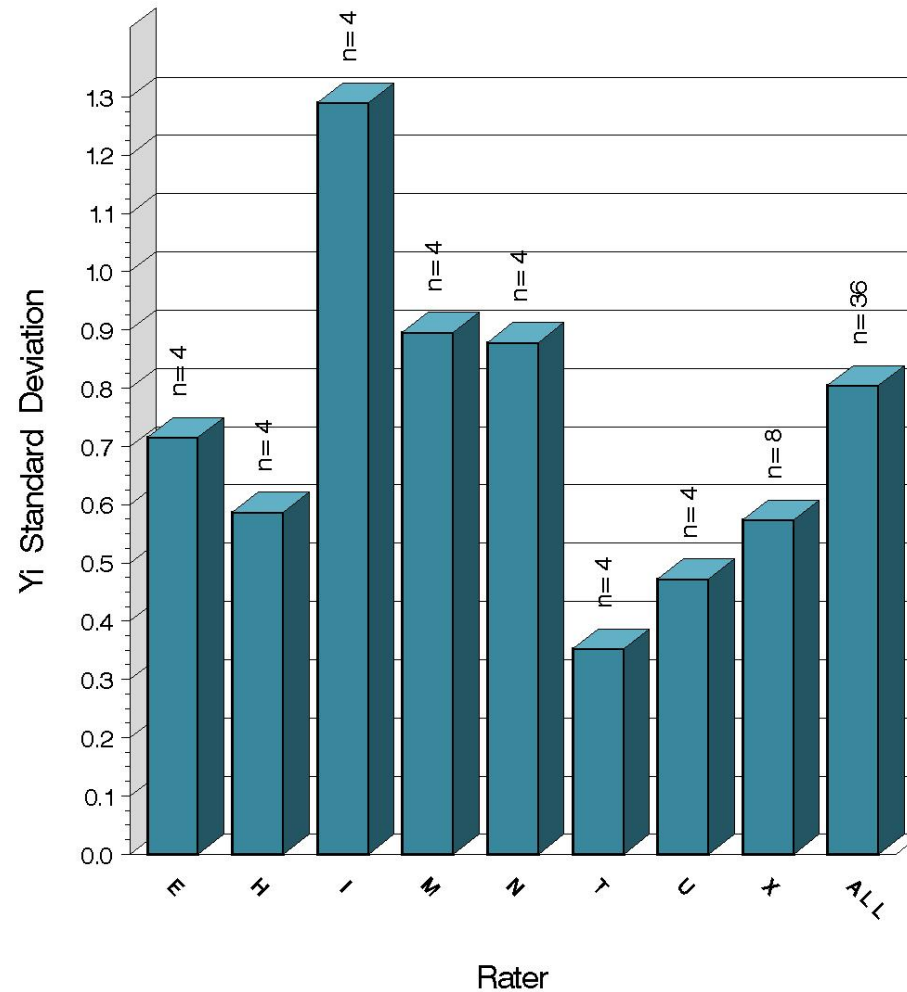


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L-42 Rater Calibration

PINION SCORING

Precision as Measured by Yi STD

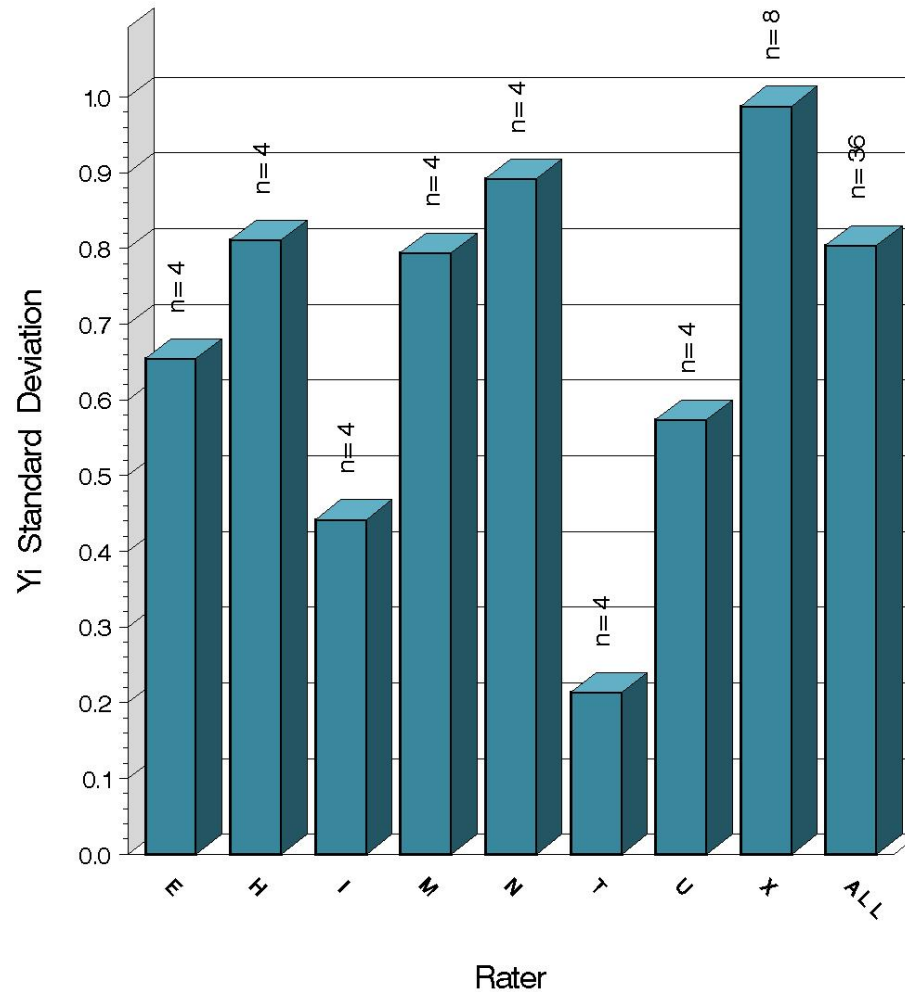


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L-42 Rater Calibration

RING SCORING

Precision as Measured by Yi STD



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L-42 Rater Calibration

SUMMARY OF SEVERITY & PRECISION

Severity

PSCR was essentially on-target over this period; RSCR was slightly mild.

Precision

Precision for both parameters remained within acceptable limits.

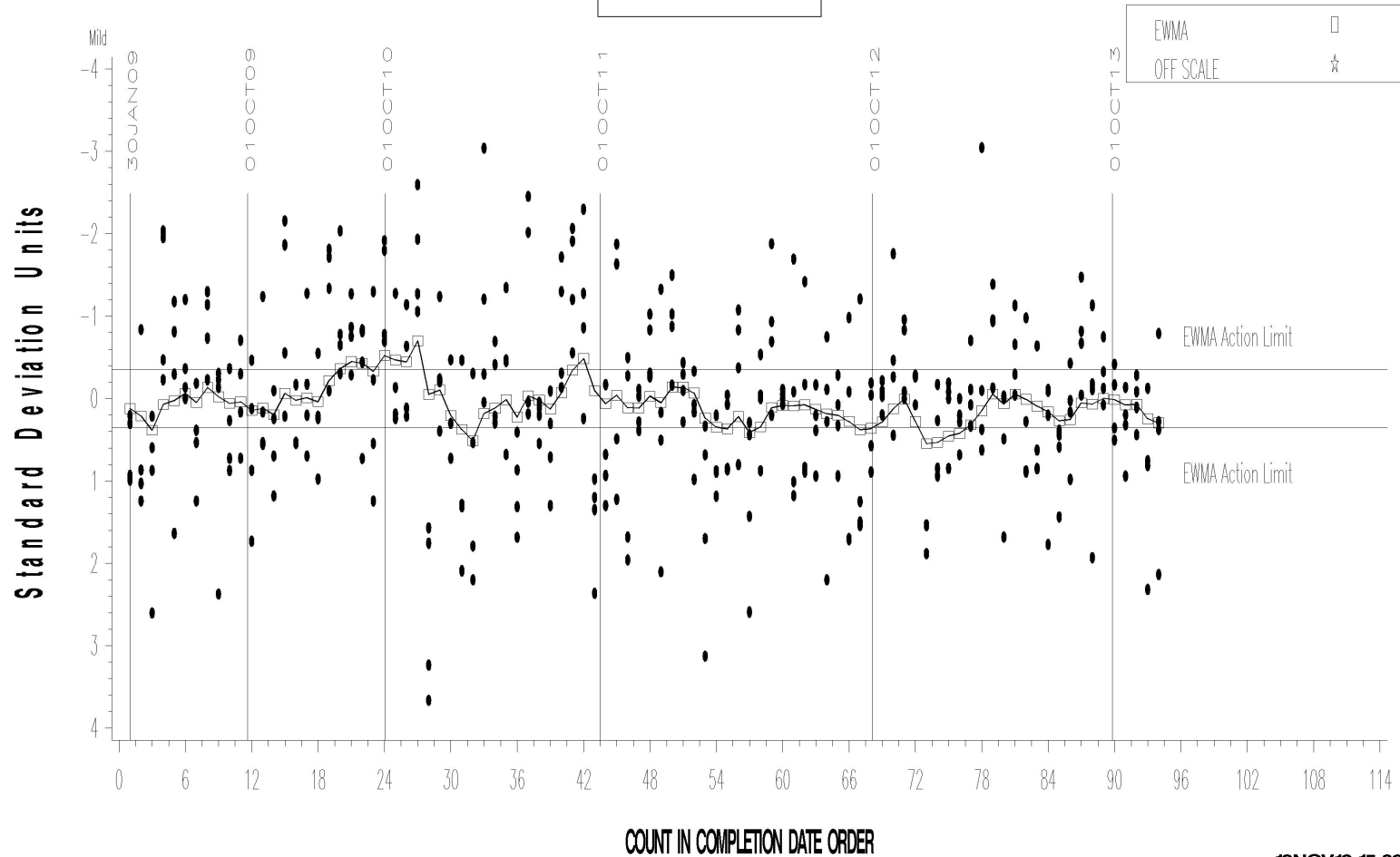
Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Severity Analysis



Severe

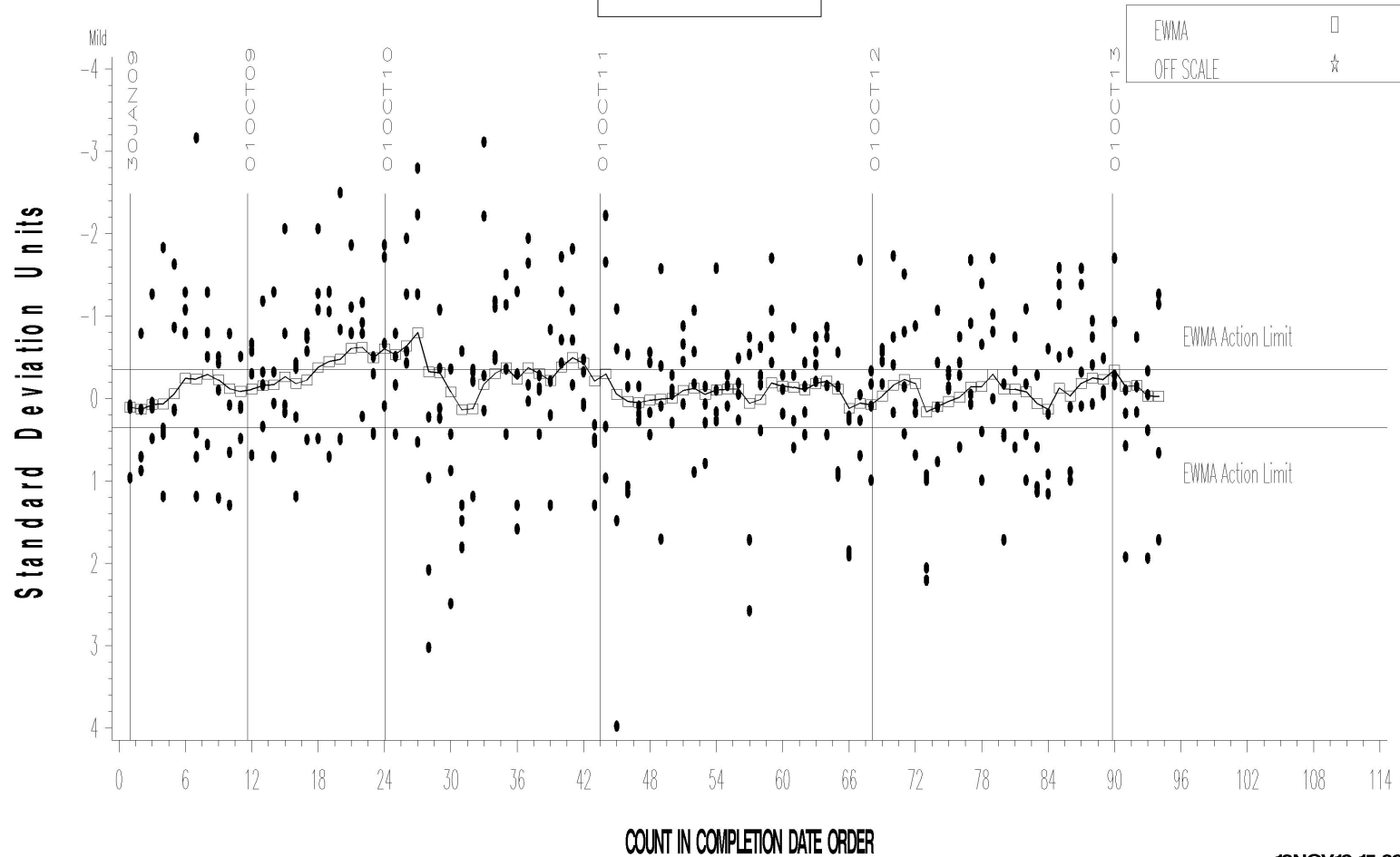
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Severity Analysis



Severe

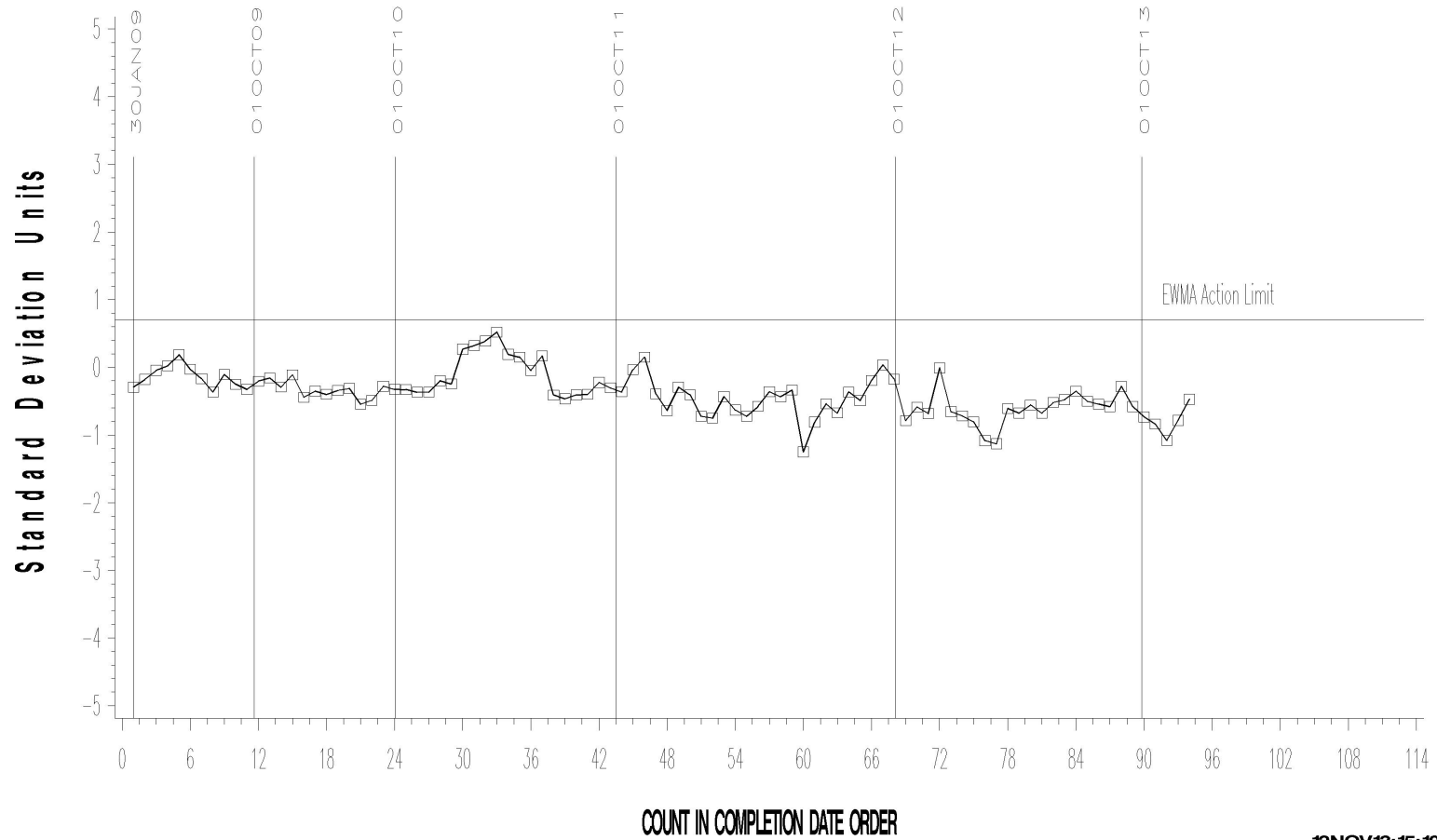
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



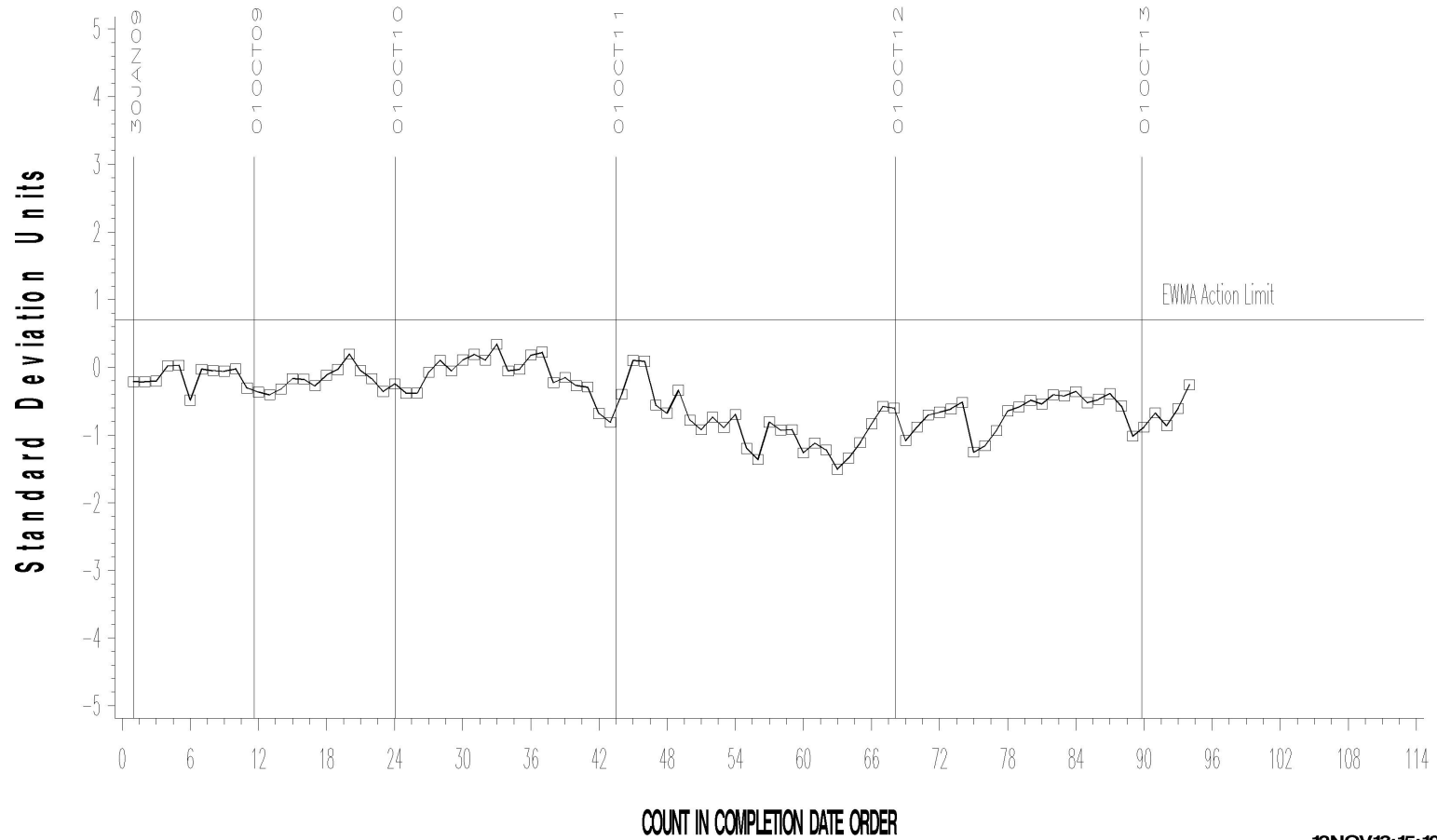
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



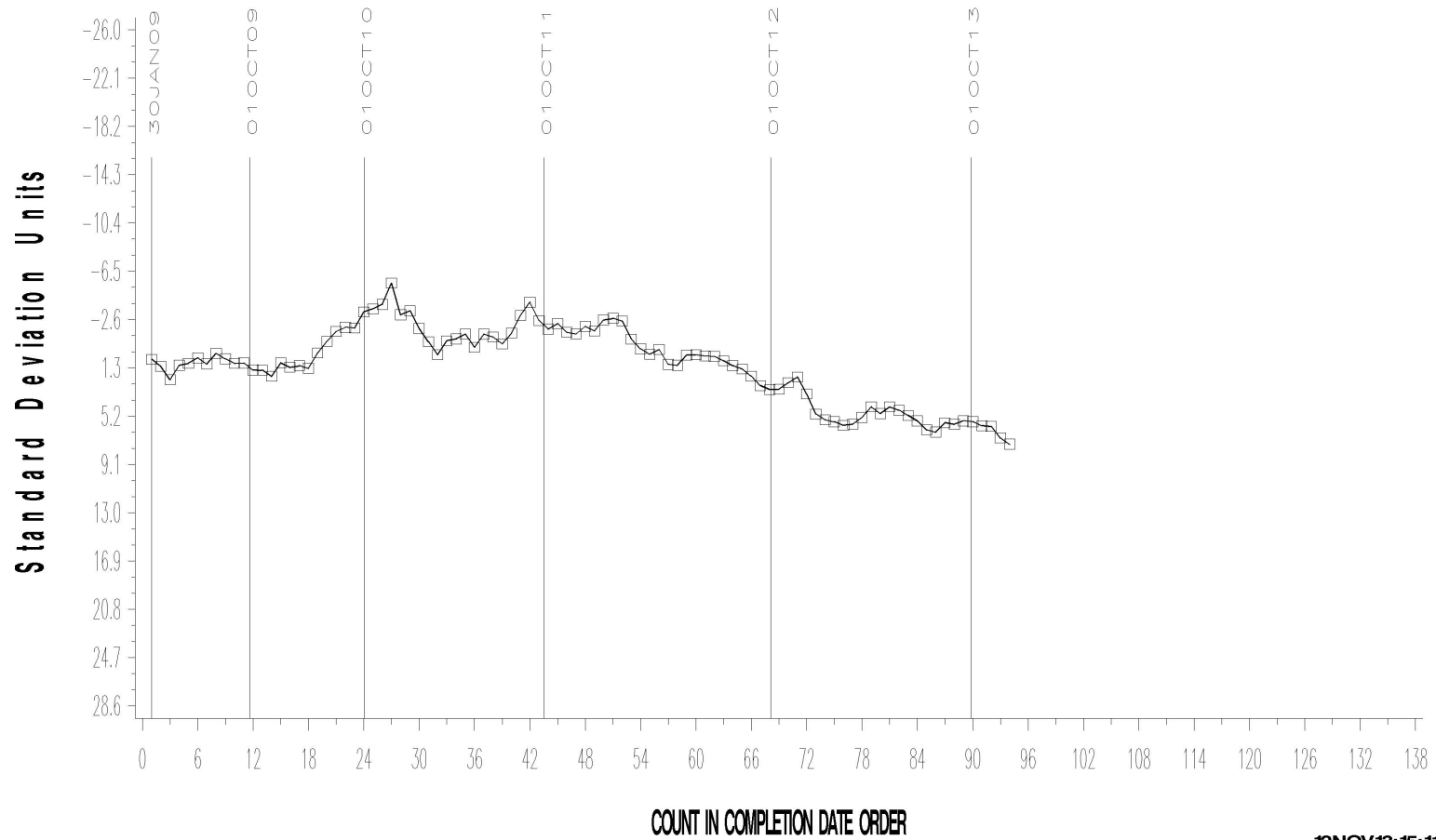
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



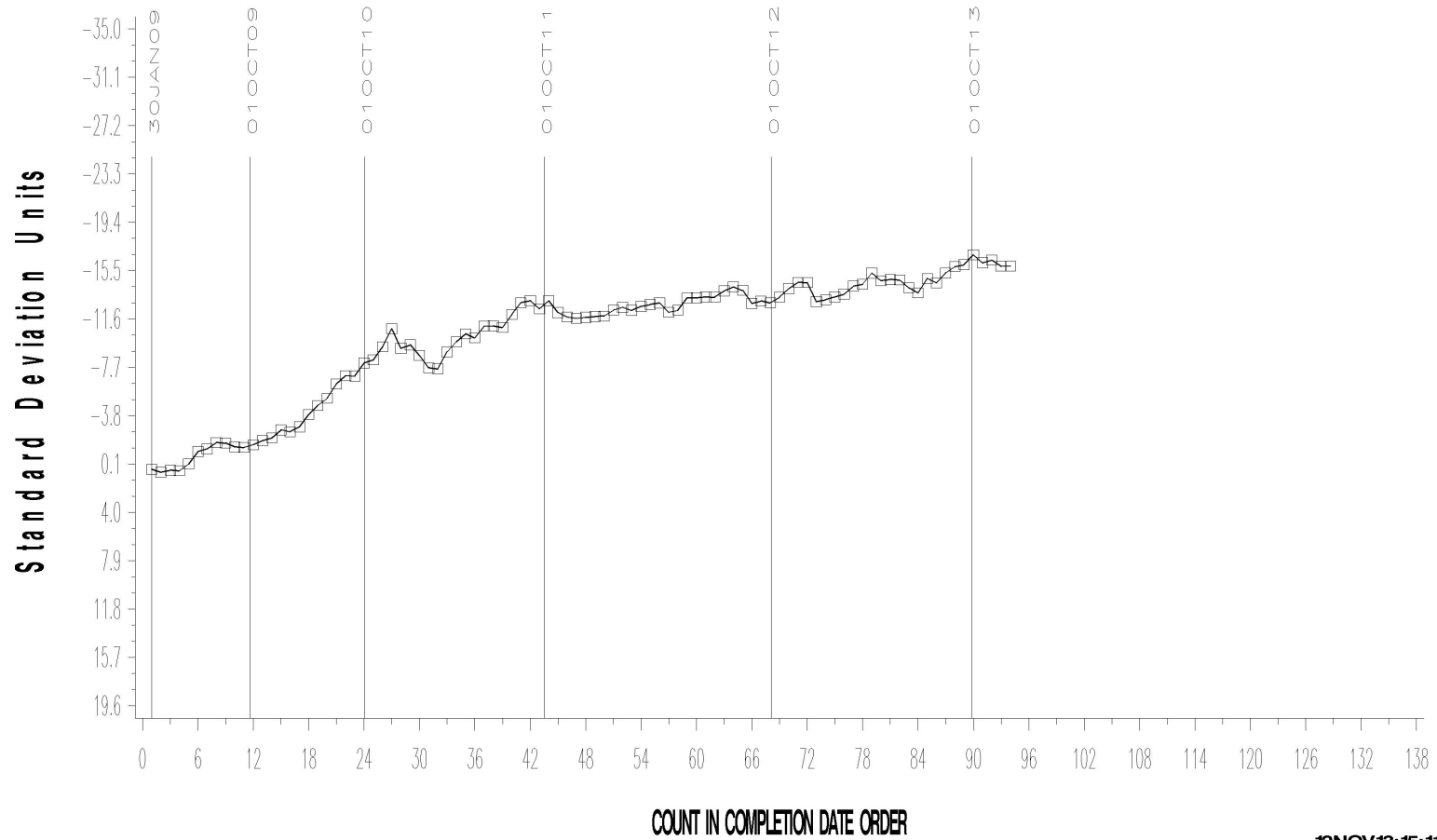
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

CUSUM Severity Analysis



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