




Test Monitoring Center

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

MEMORANDUM: 14-035
DATE: November 19, 2014
TO: Jarrod Chalkley, Chairman, L-42 Surveillance Panel
FROM: Scott Parke 
SUBJECT: L-42 Rater Calibration from April 1, 2014 through September 30, 2014

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

SDP/sdp/mem14-035.sdp.doc

cc: Frank Farber

Jeff Clark

L-42 Surveillance Panel

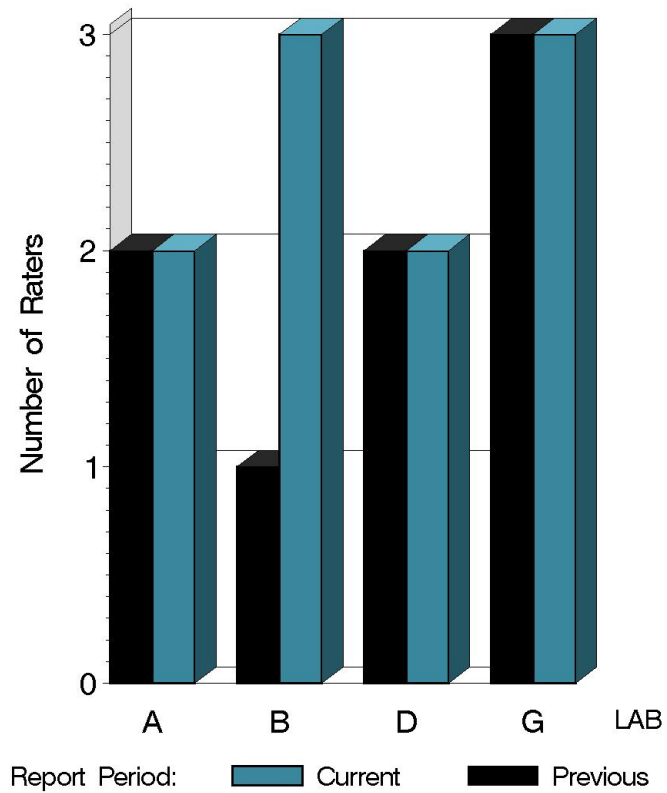
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-10-2014.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 9-30-14
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	13	13
Rejected (Mild)	OC	0	1
Rejected (Severe)	OC	0	1
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	0	0
Workshop data	AG	24	15
<hr/>			
Total		37	30

L-42 Rater Calibration

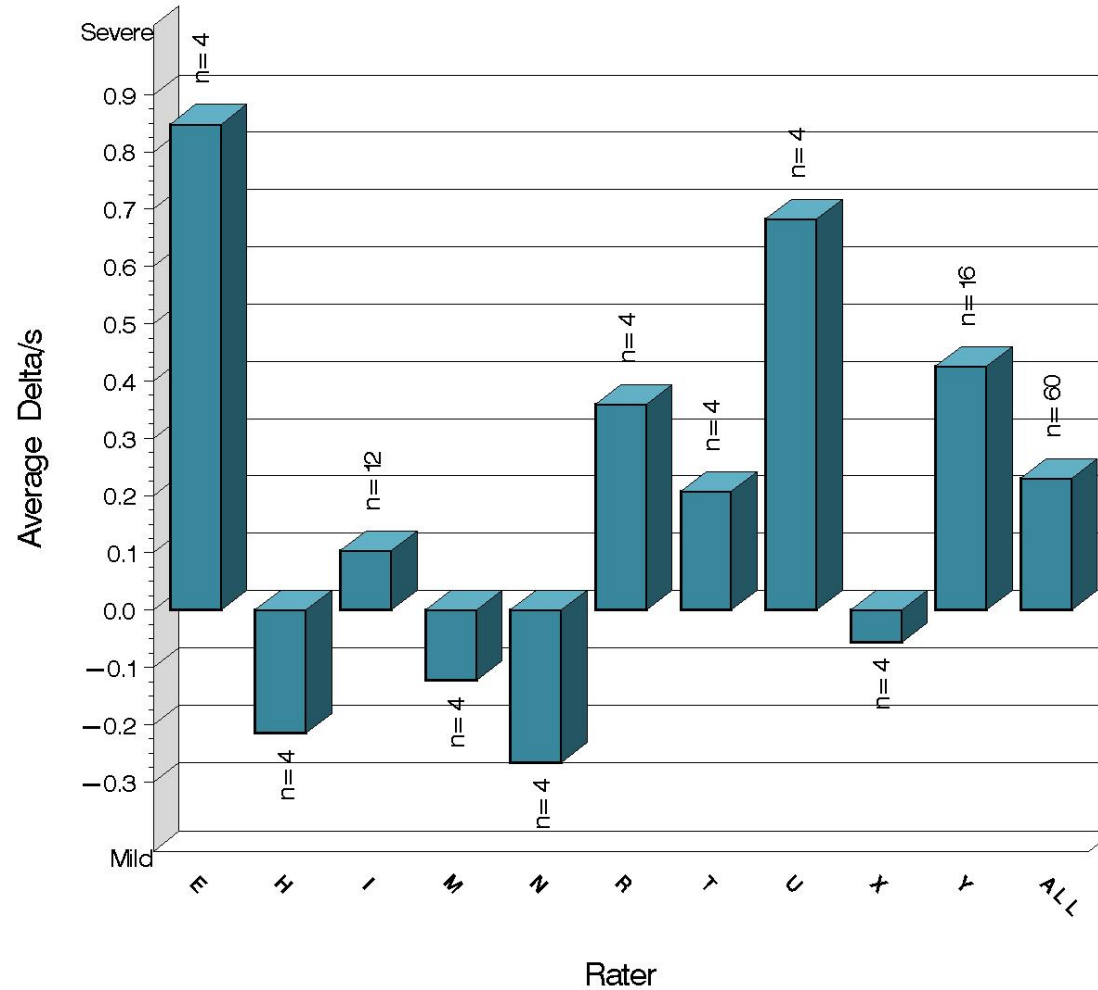
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
E	4	0.849	0.809	0.136	1.578
H	4	-0.215	0.124	-0.027	0.635
I	12	0.103	1.023	0.193	1.439
M	4	-0.123	1.697	-0.749	1.295
N	4	-0.266	0.568	-0.582	0.220
R	4	0.360	1.668	0.261	1.420
T	4	0.207	0.467	0.234	0.495
U	4	0.683	0.781	-0.020	0.557
X	4	-0.056	0.771	-1.064	0.973
Y	16	0.425	0.778	-0.420	0.748
ALL	60	0.230	0.926	-0.194	1.052

* 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

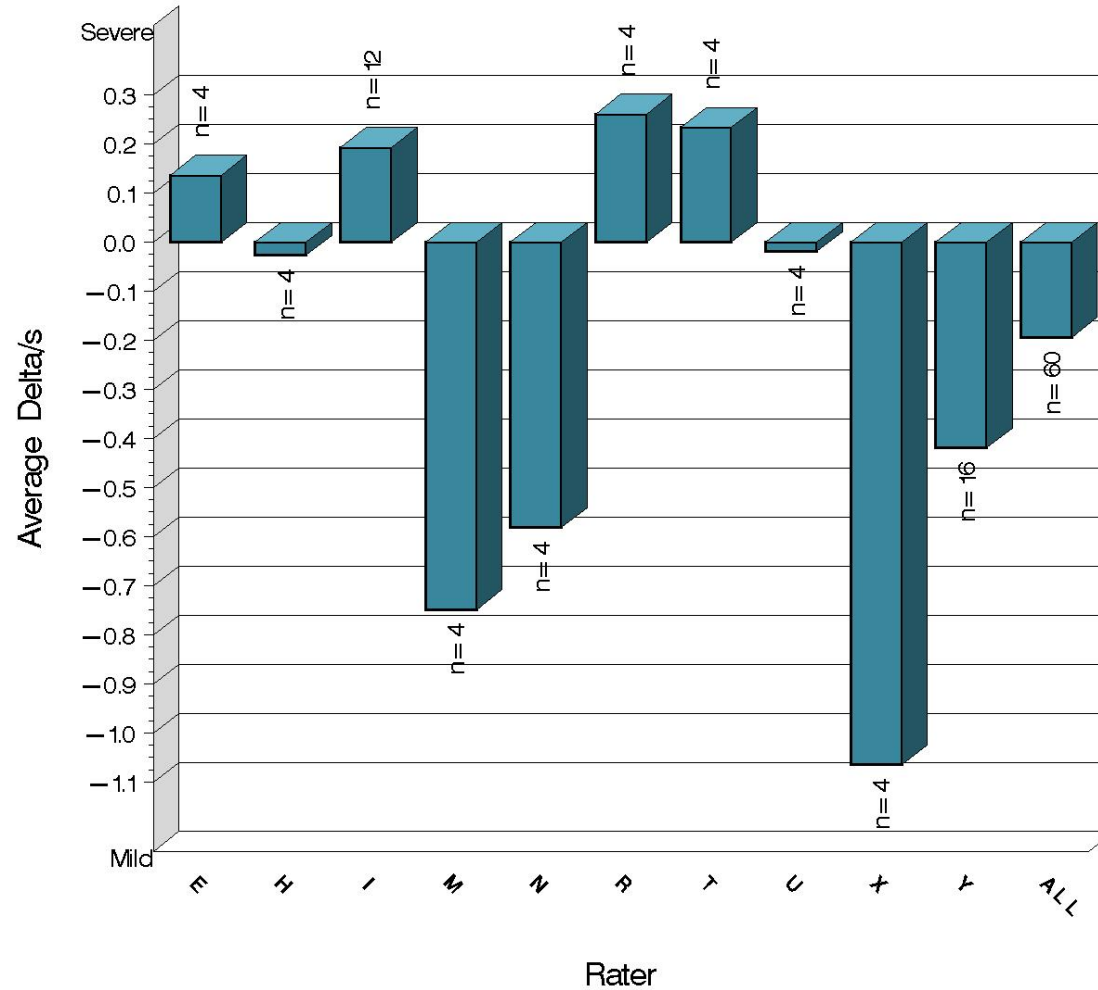


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L-42 Rater Calibration

RING SCORING

Severity as Measured by Delta/s

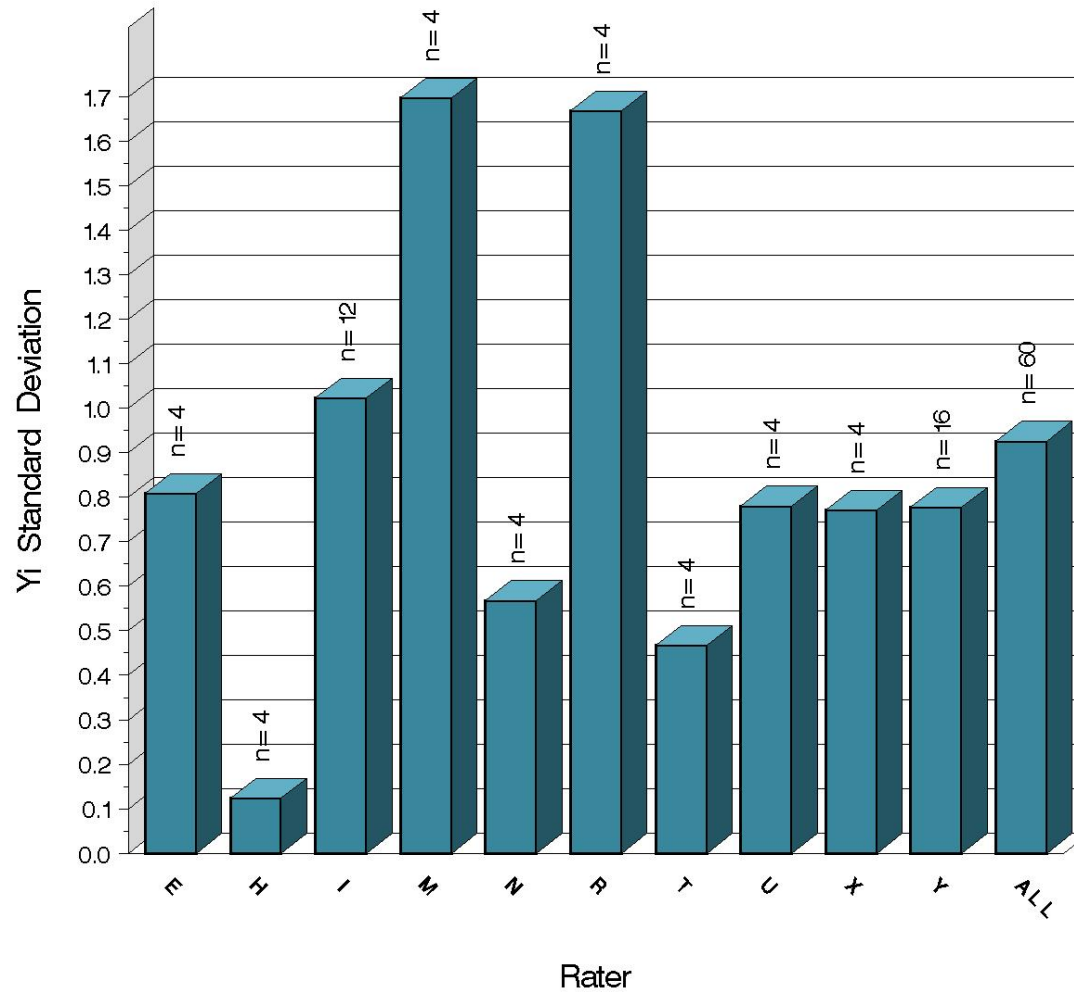


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L-42 Rater Calibration

PINION SCORING

Precision as Measured by Y1 STD

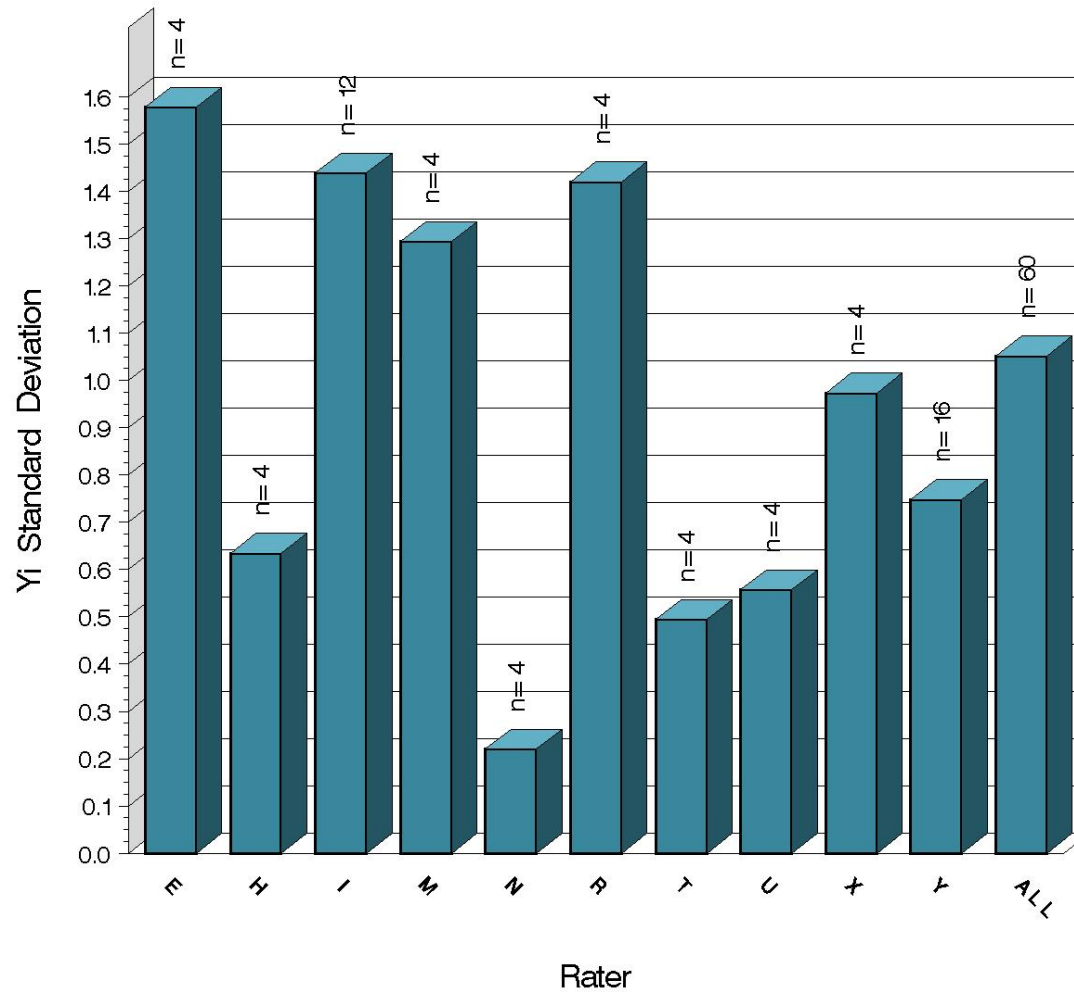


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L-42 Rater Calibration

RING SCORING

Precision as Measured by Yi STD



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L-42 Rater Calibration

SUMMARY OF SEVERITY & PRECISION

Severity
RSCR was generally mild over most of this period; PSCR was slightly severe.
Precision
Precision for both parameters remained within acceptable limits.

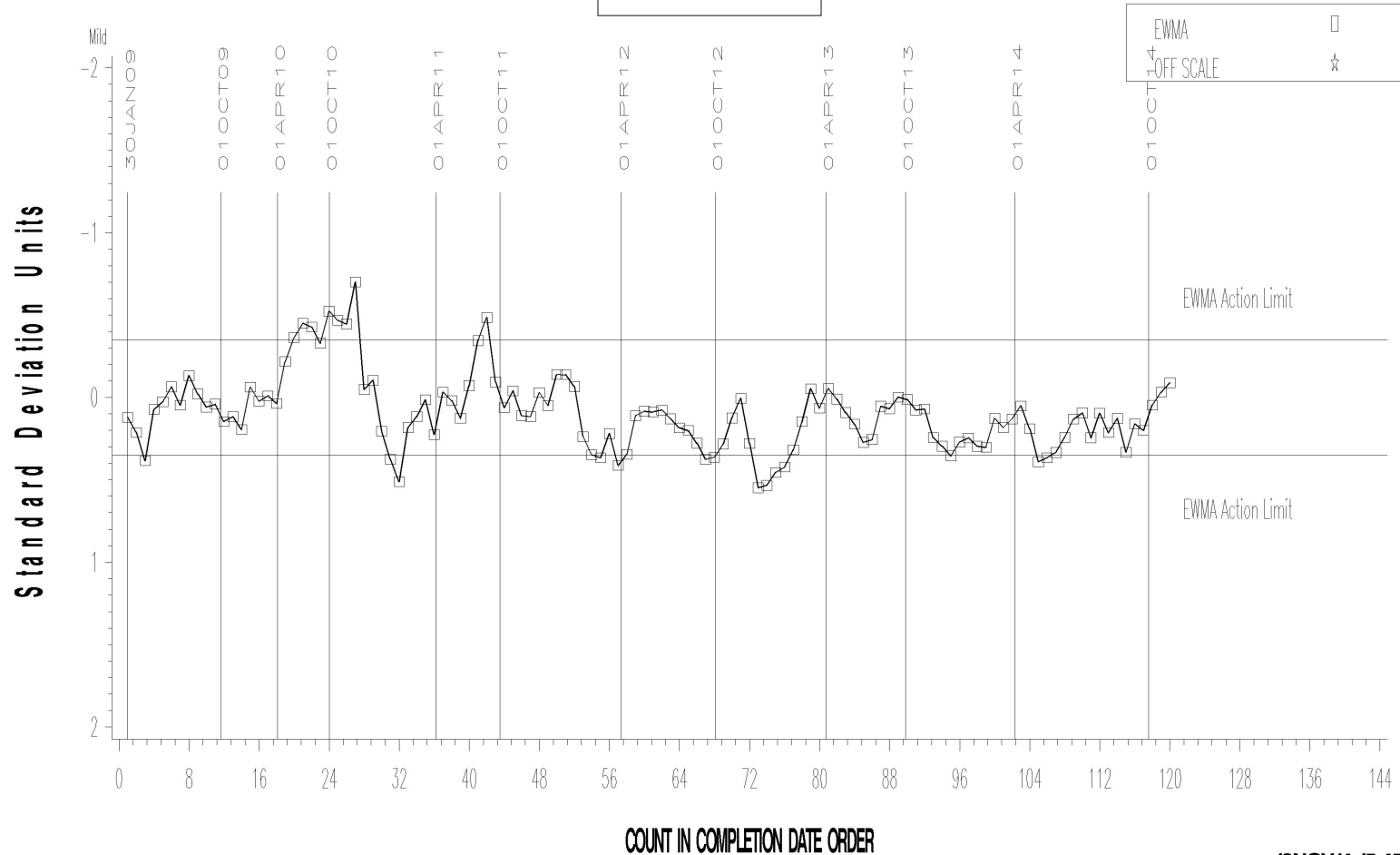
Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Severity Analysis

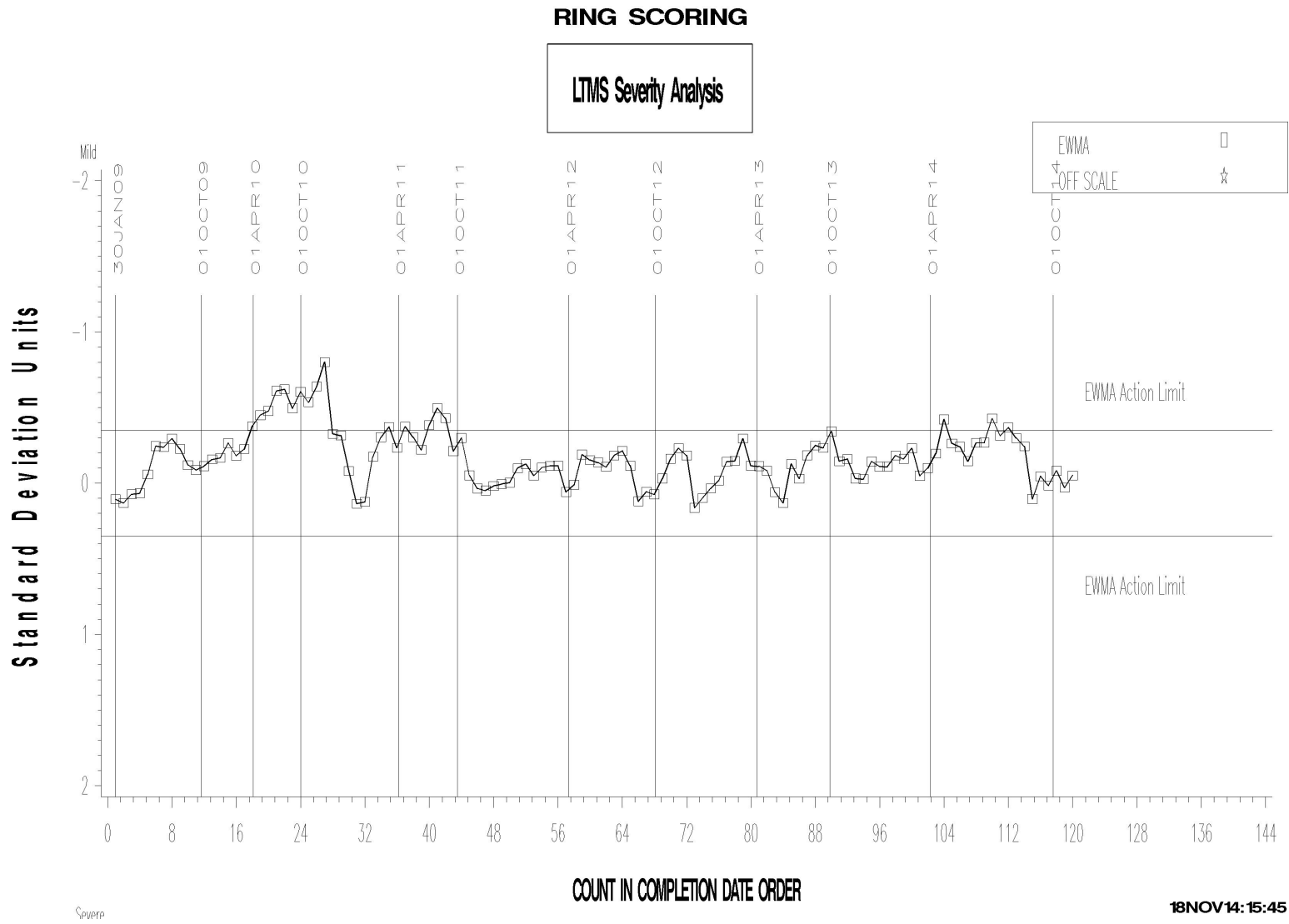


Severe

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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

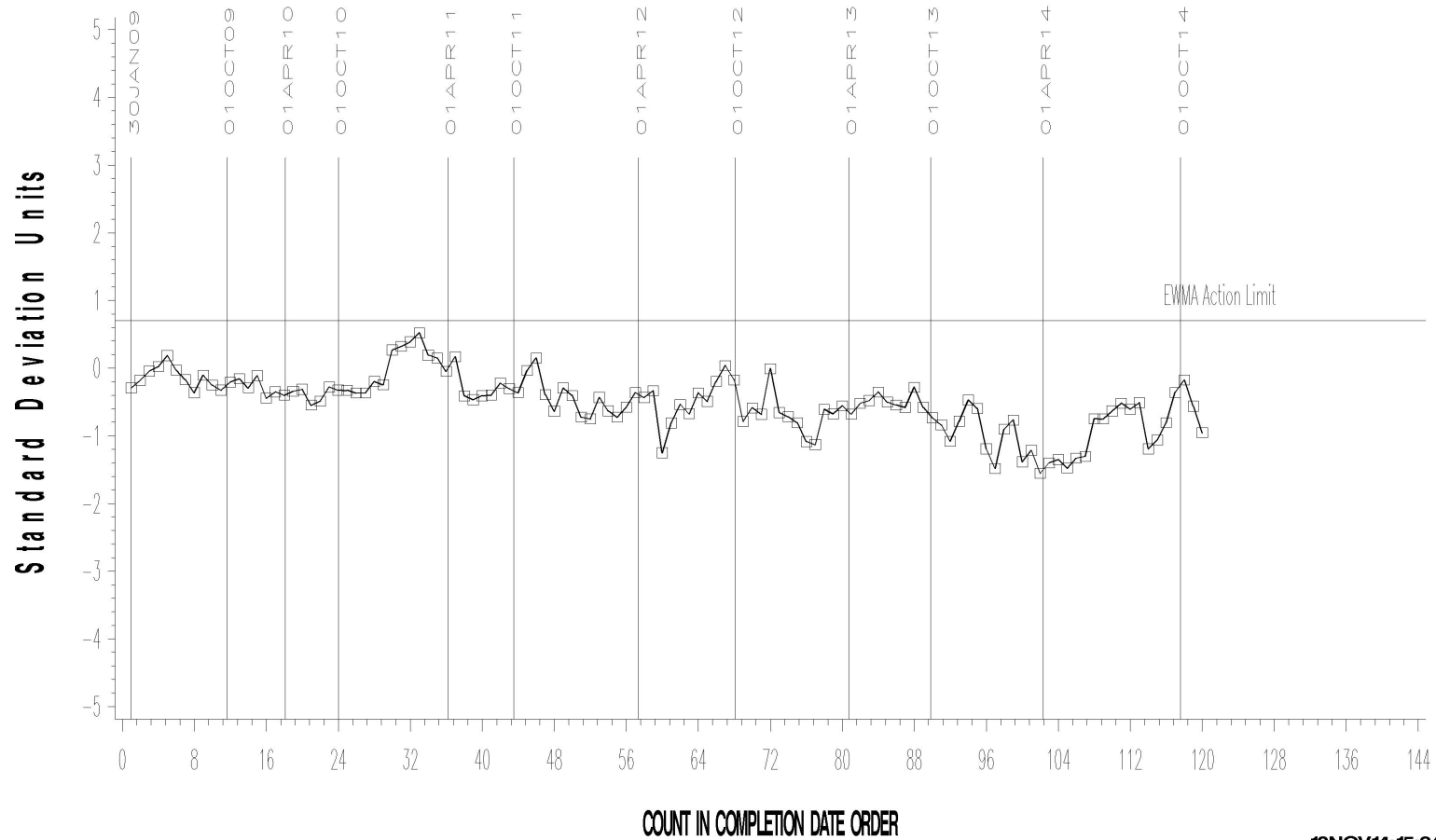


L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



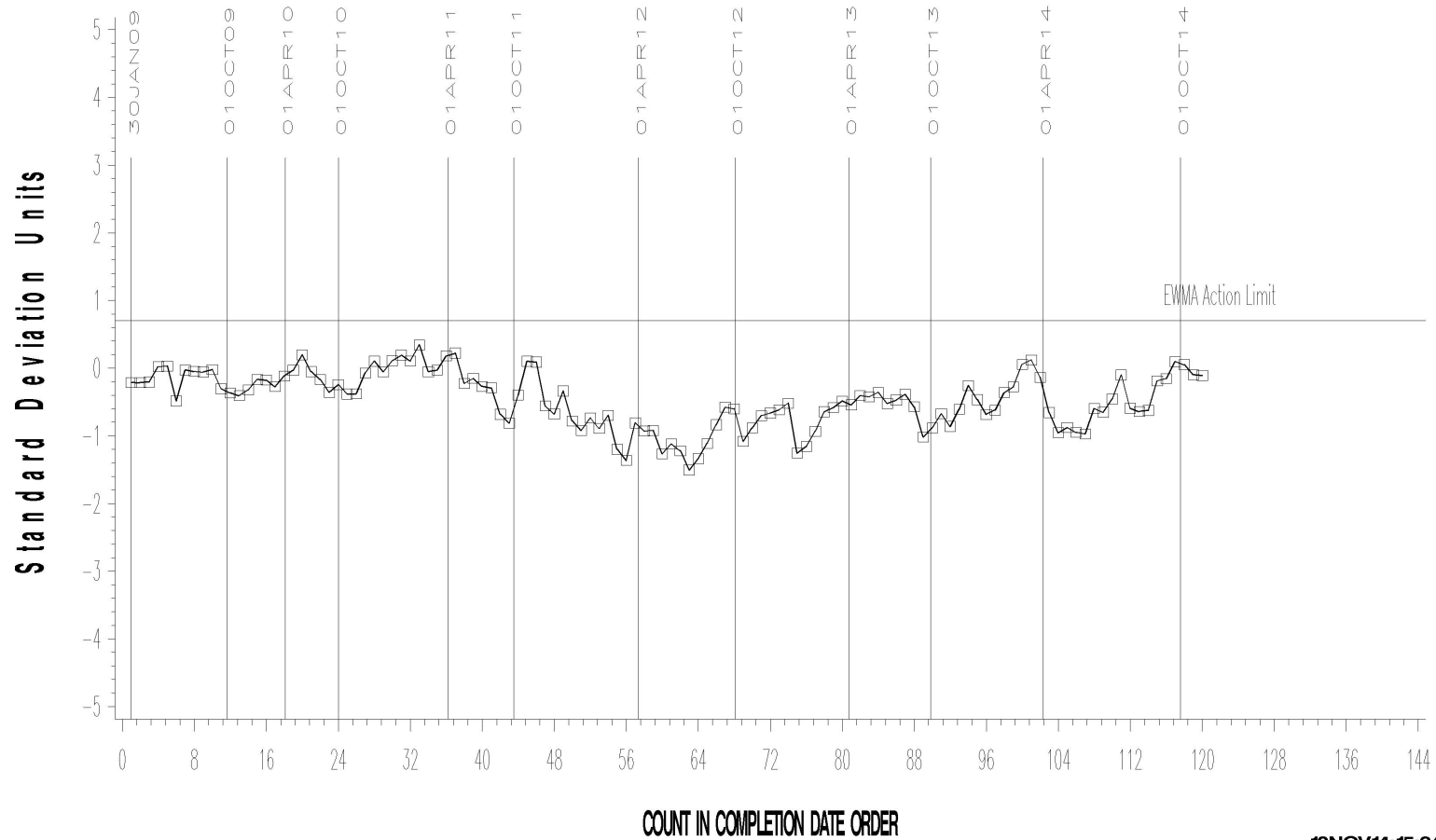
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



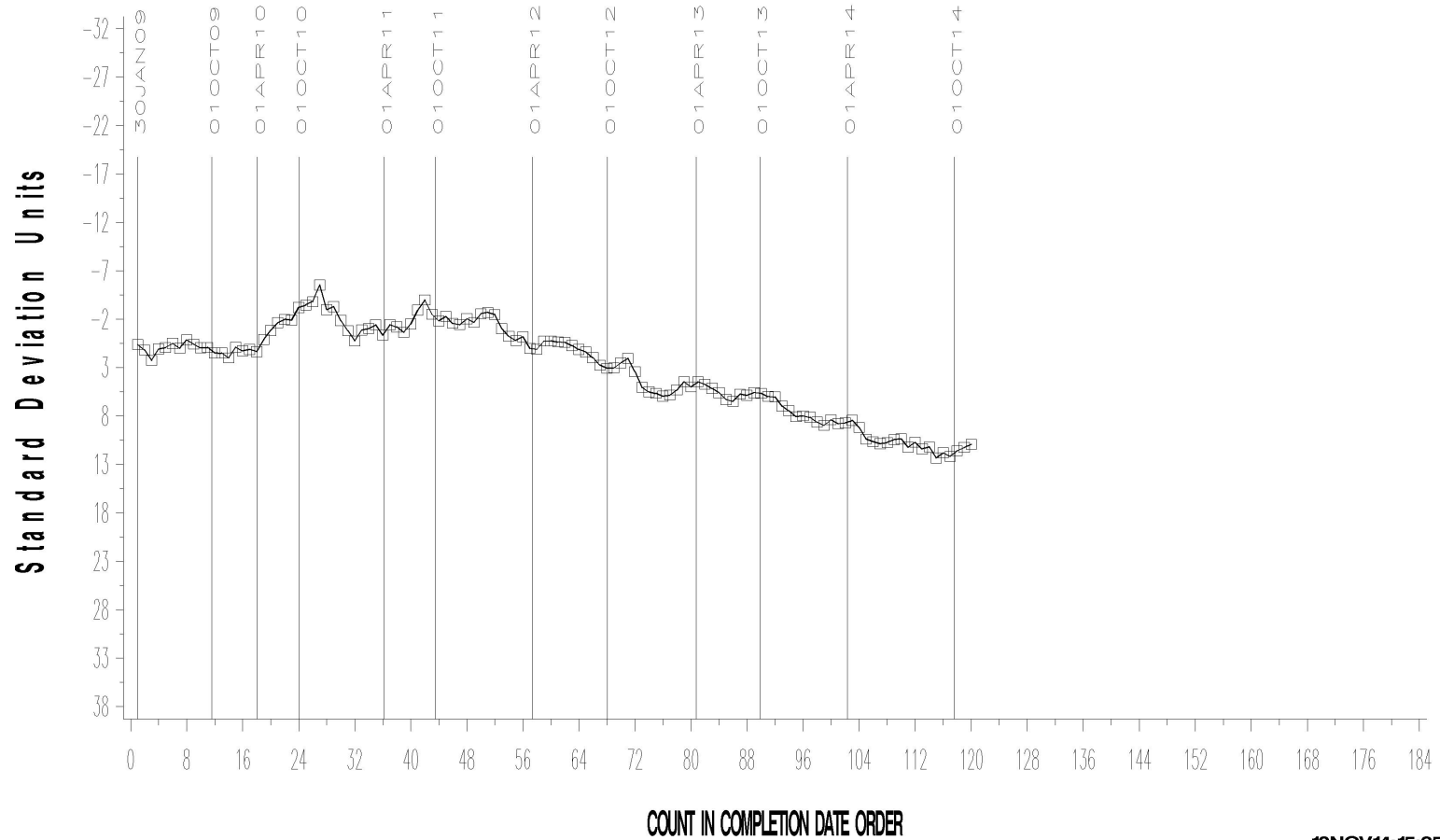
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



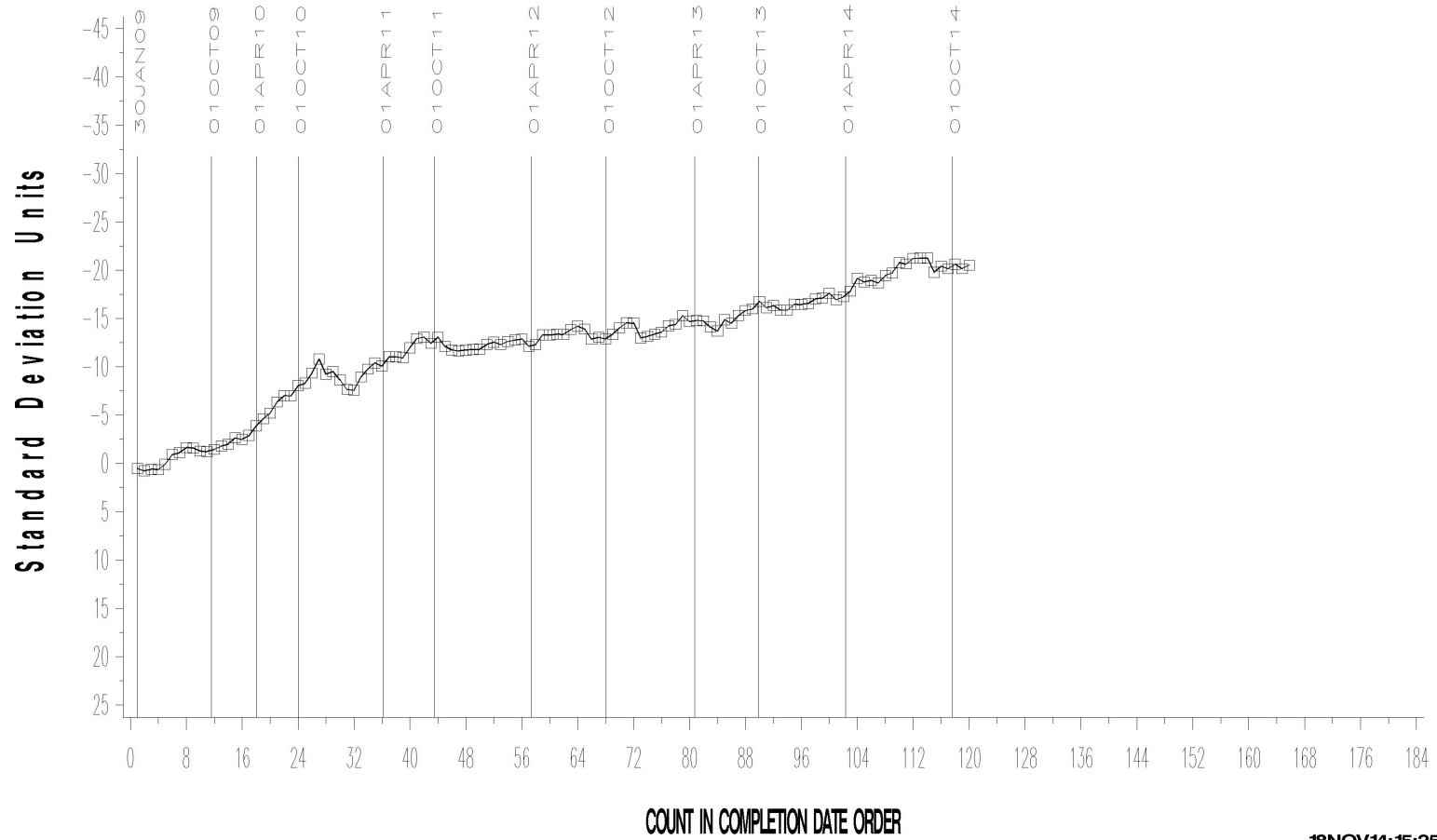
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

CUSUM Severity Analysis



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