




A Program of ASTM International

## Test Monitoring Center

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

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

MEMORANDUM: 15-025  
DATE: June 9, 2015  
TO: Thomas Gottwald, Chairman, L-42 Surveillance Panel  
FROM: Scott Parke   
SUBJECT: L-42 Rater Calibration from October 1, 2014 through March 31, 2015

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

SDP/sdp/mem15-025.sdp.doc

cc: Frank Farber

Jeff Clark

L-42 Surveillance Panel

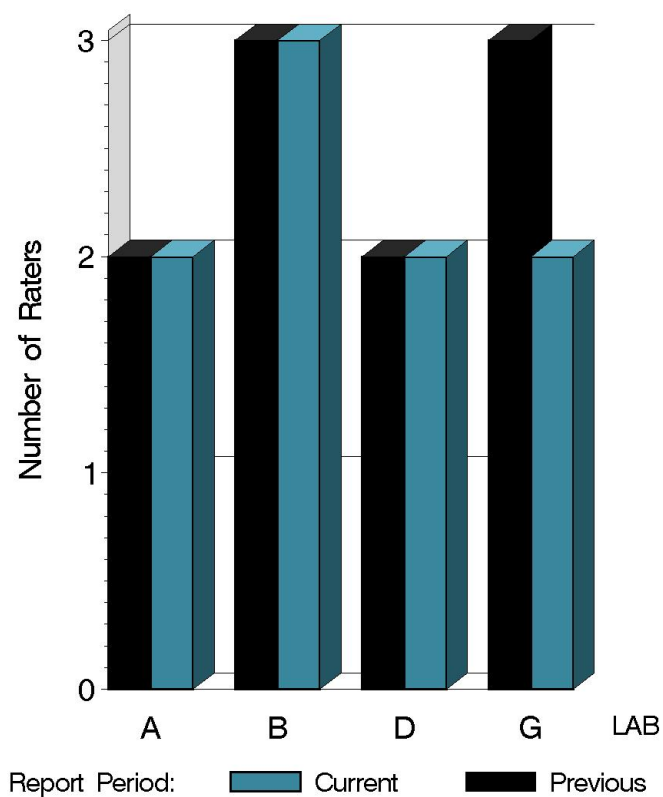
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-04-2015.pdf>

Distribution: email

# L-42 Rater Calibration

	Reporting Data	Calibrated on 3-31-15
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	13	11
Rejected (Mild)	OC	1	0
Rejected (Severe)	OC	1	0
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	0	0
Workshop data	AG	15	0
Total		30	11

# L-42 Rater Calibration

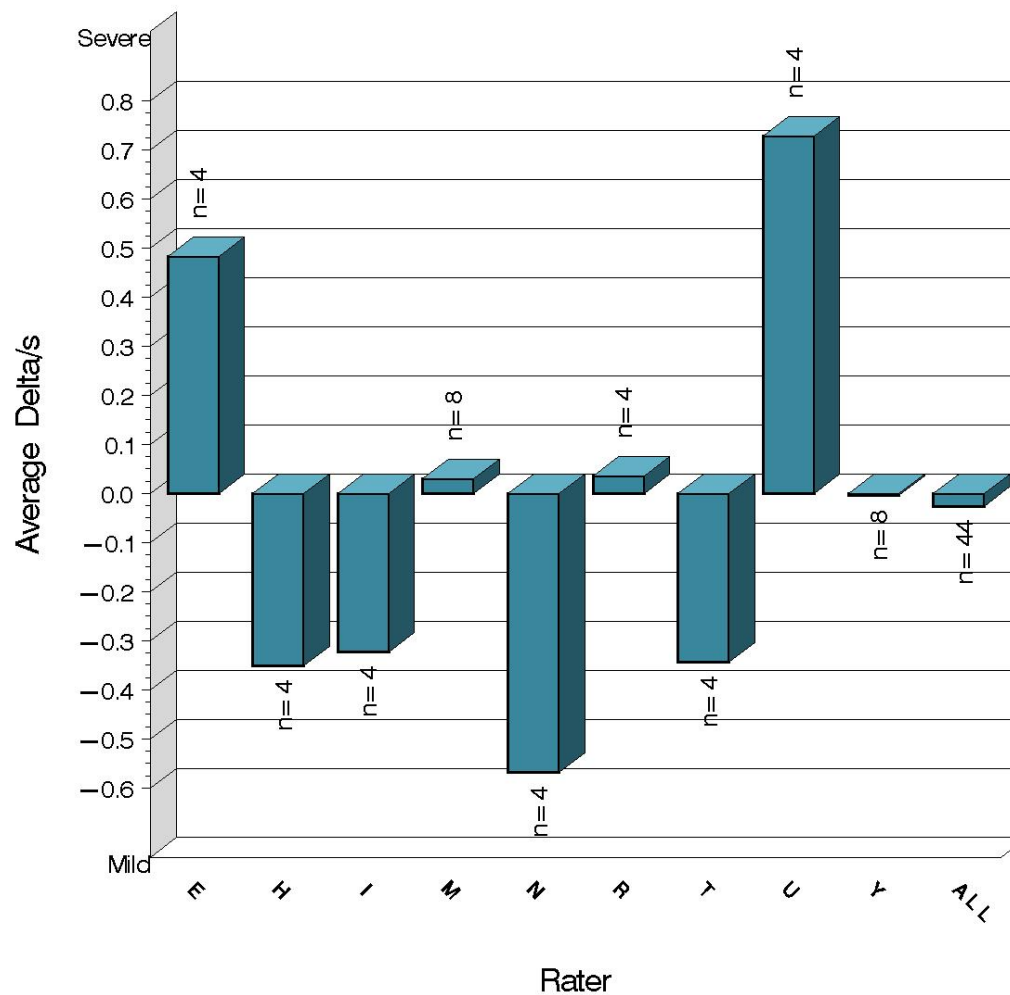
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
E	4	0.483	0.560	-0.198	0.830
H	4	-0.351	1.007	-0.458	0.661
I	4	-0.323	0.885	0.342	0.916
M	8	0.030	0.925	-0.734	0.722
N	4	-0.568	1.088	-0.473	0.782
R	4	0.036	0.122	-0.079	0.257
T	4	-0.344	0.300	0.471	0.596
U	4	0.728	0.541	-0.426	0.976
Y	8	-0.004	0.469	-0.153	0.835
ALL	44	-0.026	0.752	-0.236	0.784

\* 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

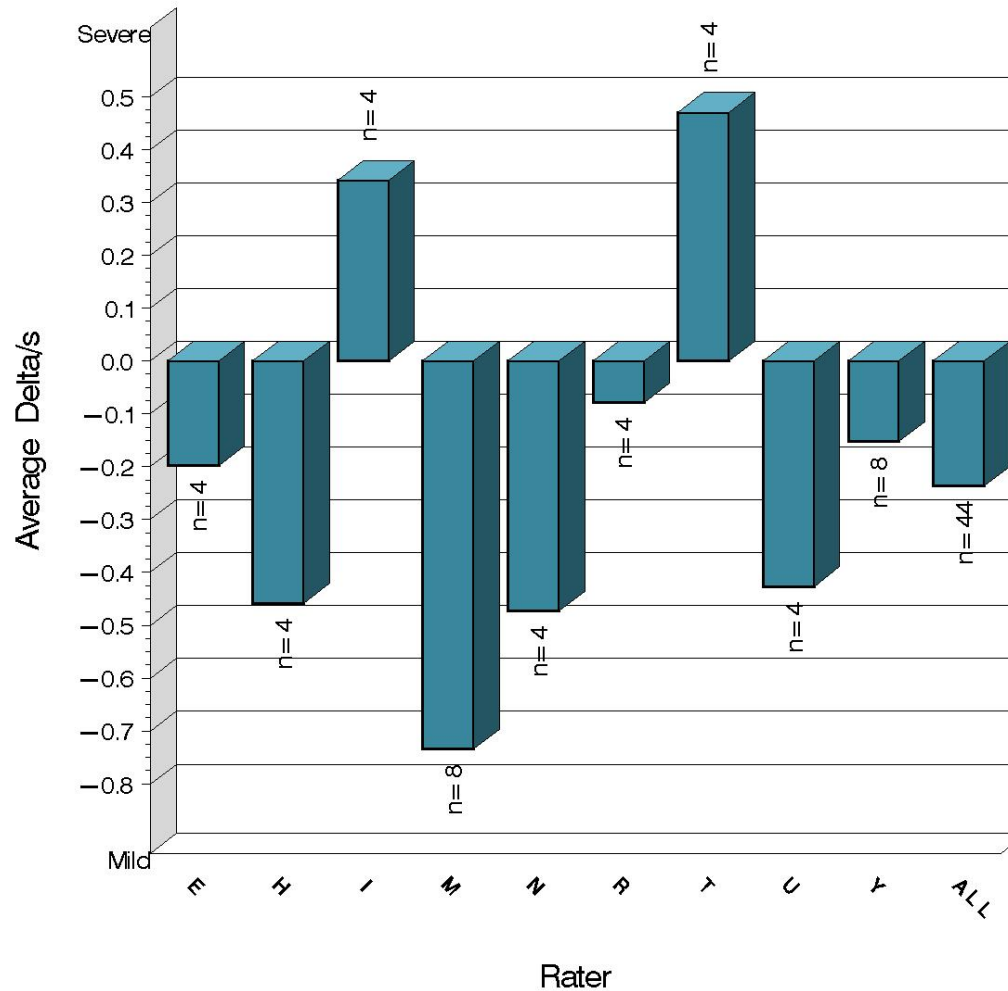


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# L-42 Rater Calibration

## RING SCORING

Severity as Measured by Delta/s

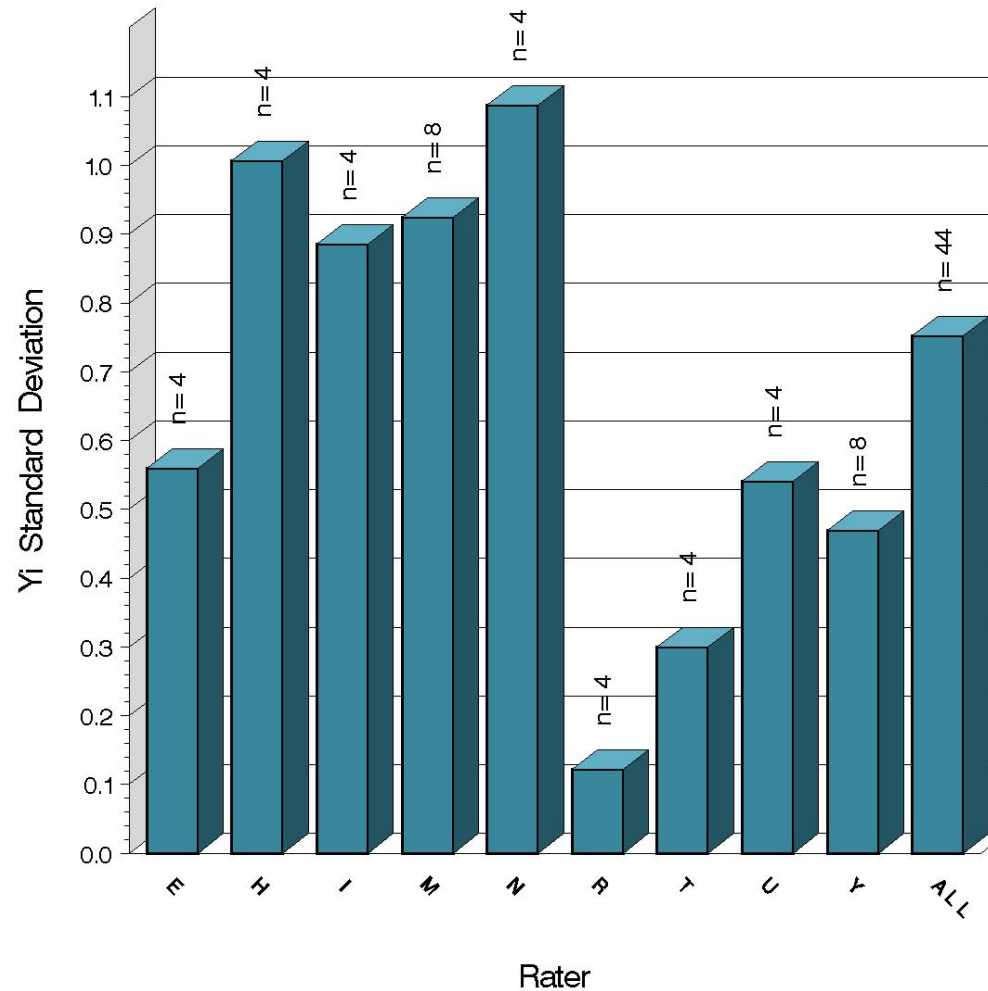


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# L-42 Rater Calibration

## PINION SCORING

Precision as Measured by Yi STD

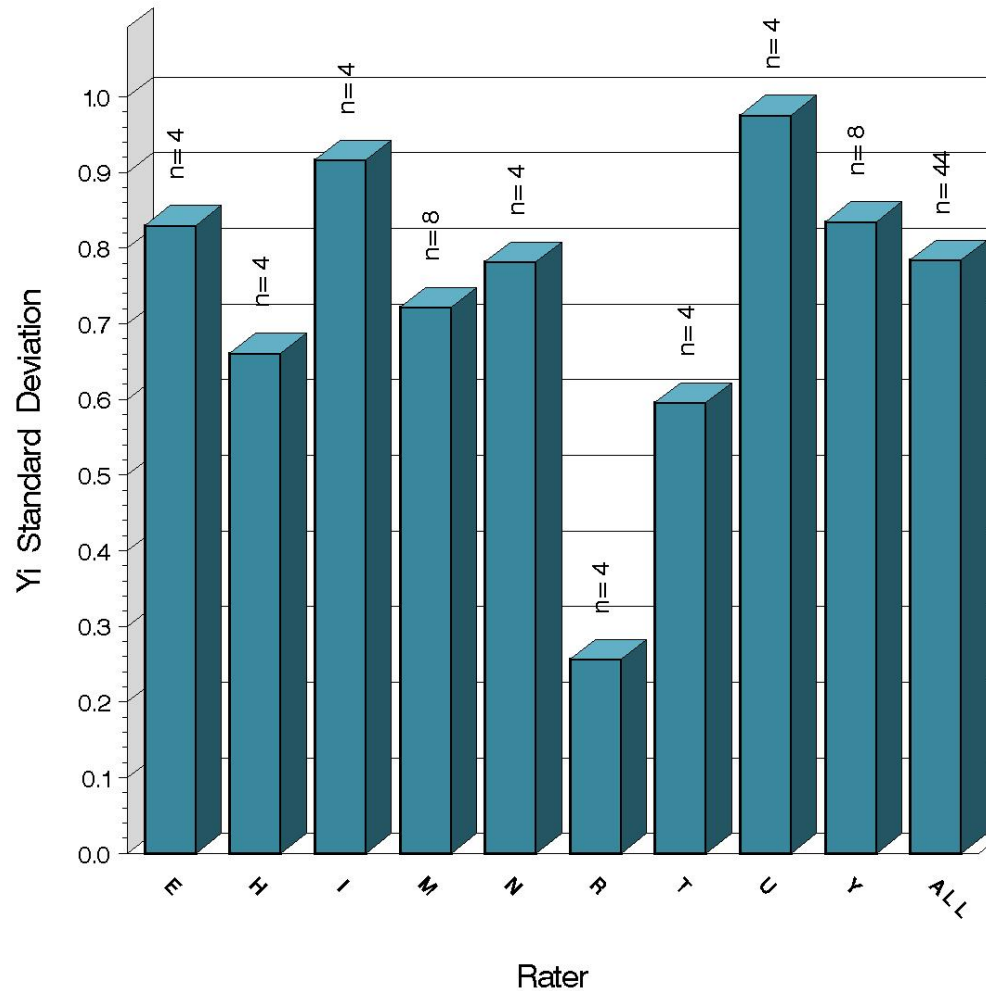


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# L-42 Rater Calibration

## 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.

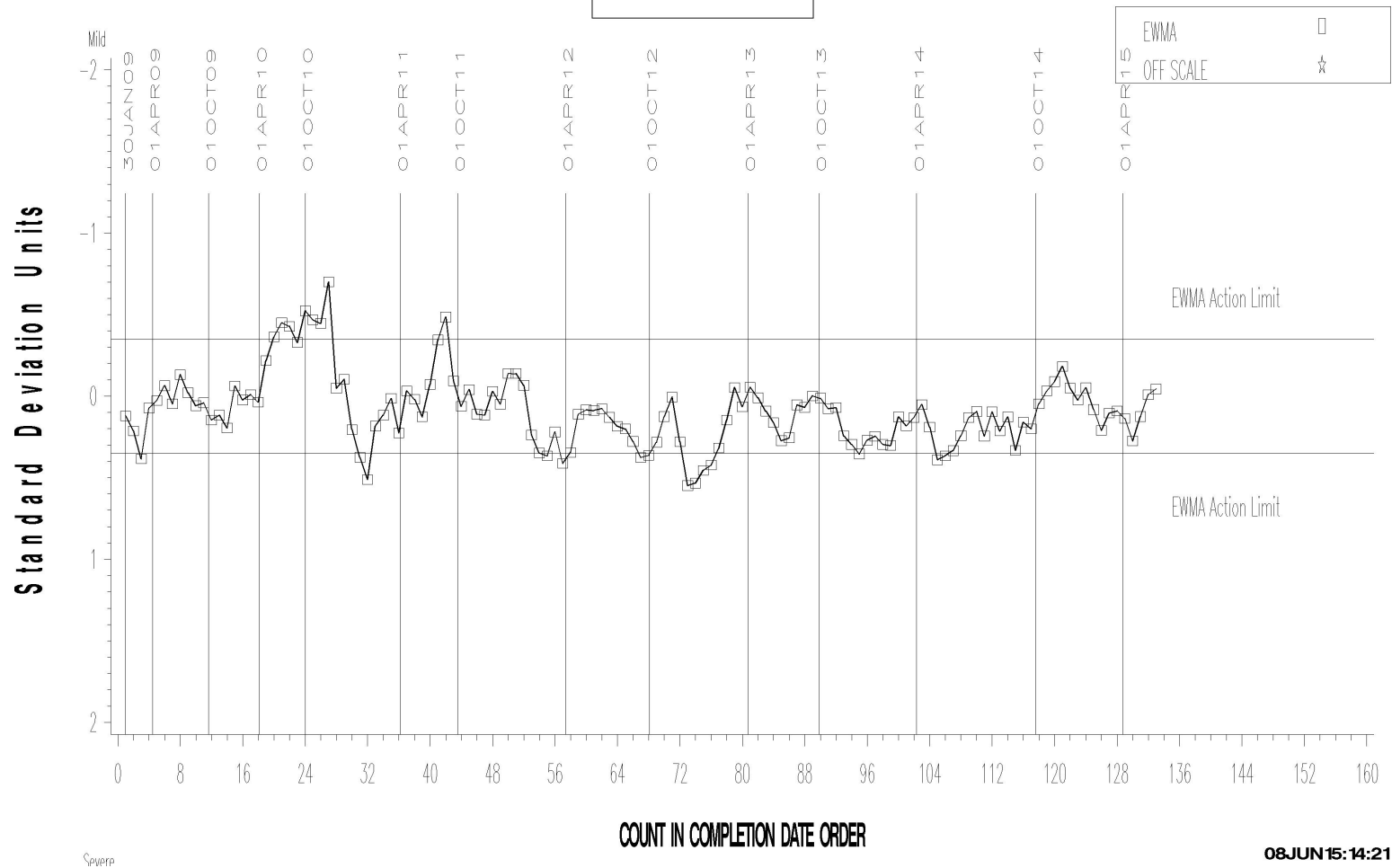
Industry control charts follow.

# L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

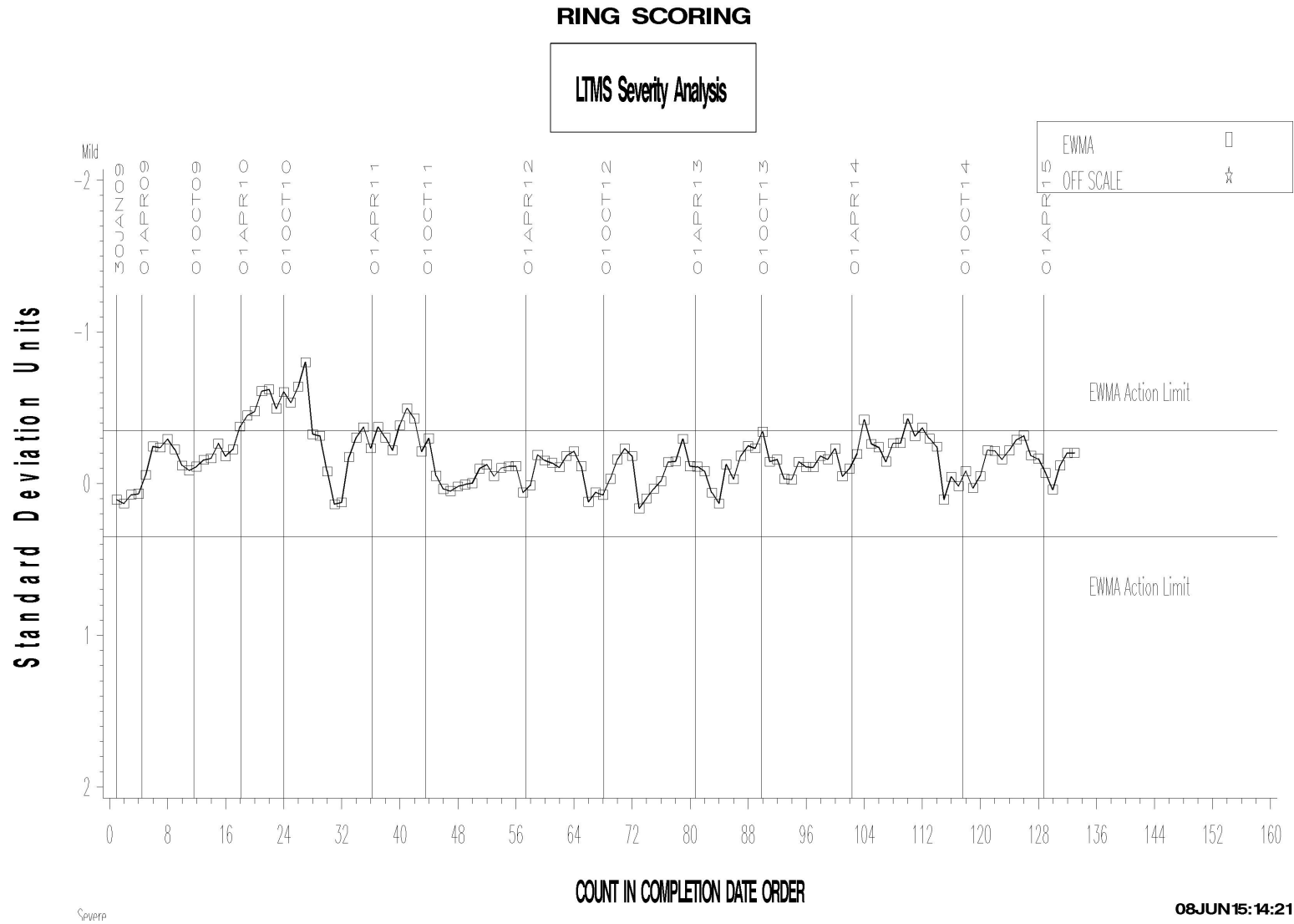
## PINION SCORING

LTMS Severity Analysis



# L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

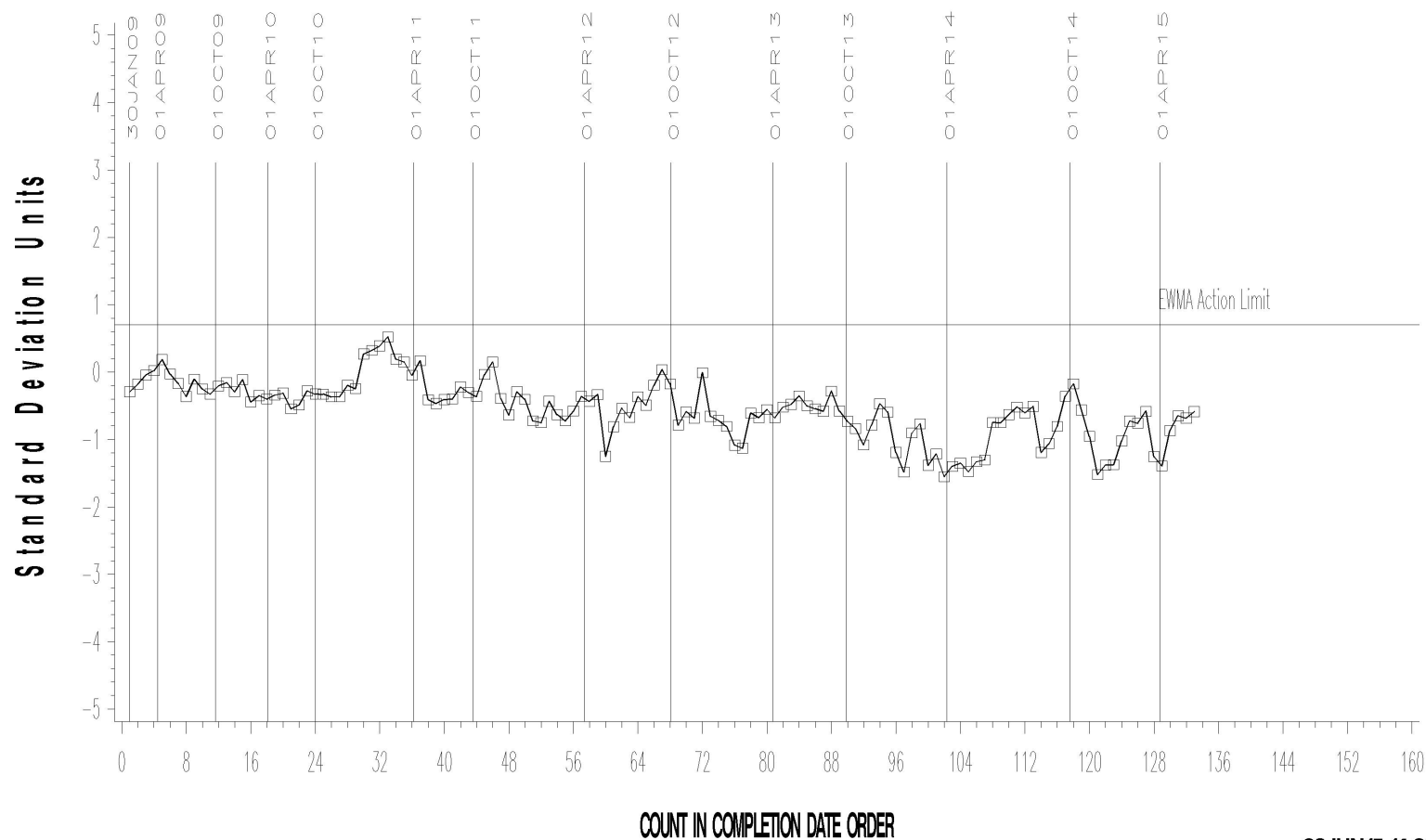


# L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

## PINION SCORING

LTMS Precision Analysis



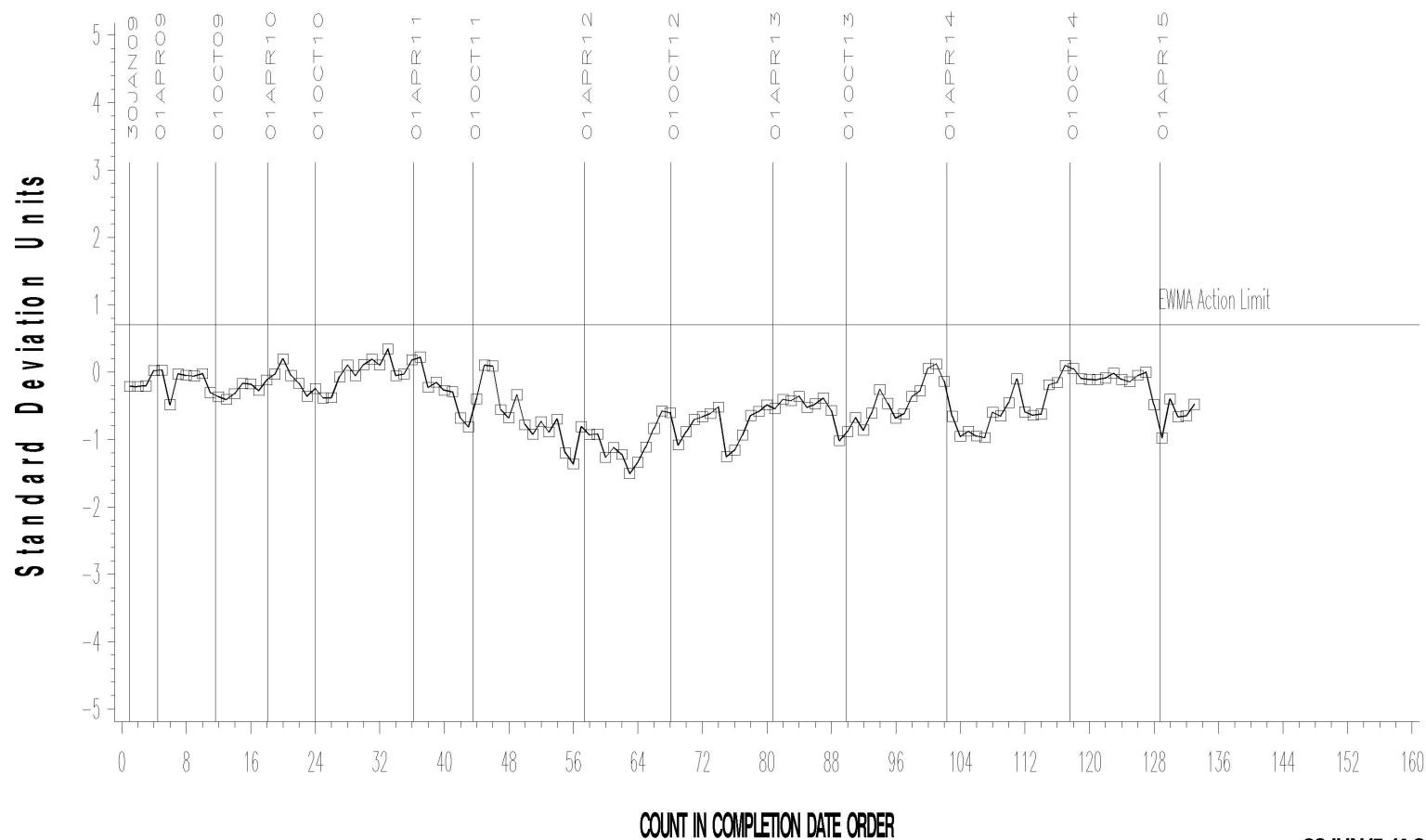
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# L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

## RING SCORING

LTMS Precision Analysis



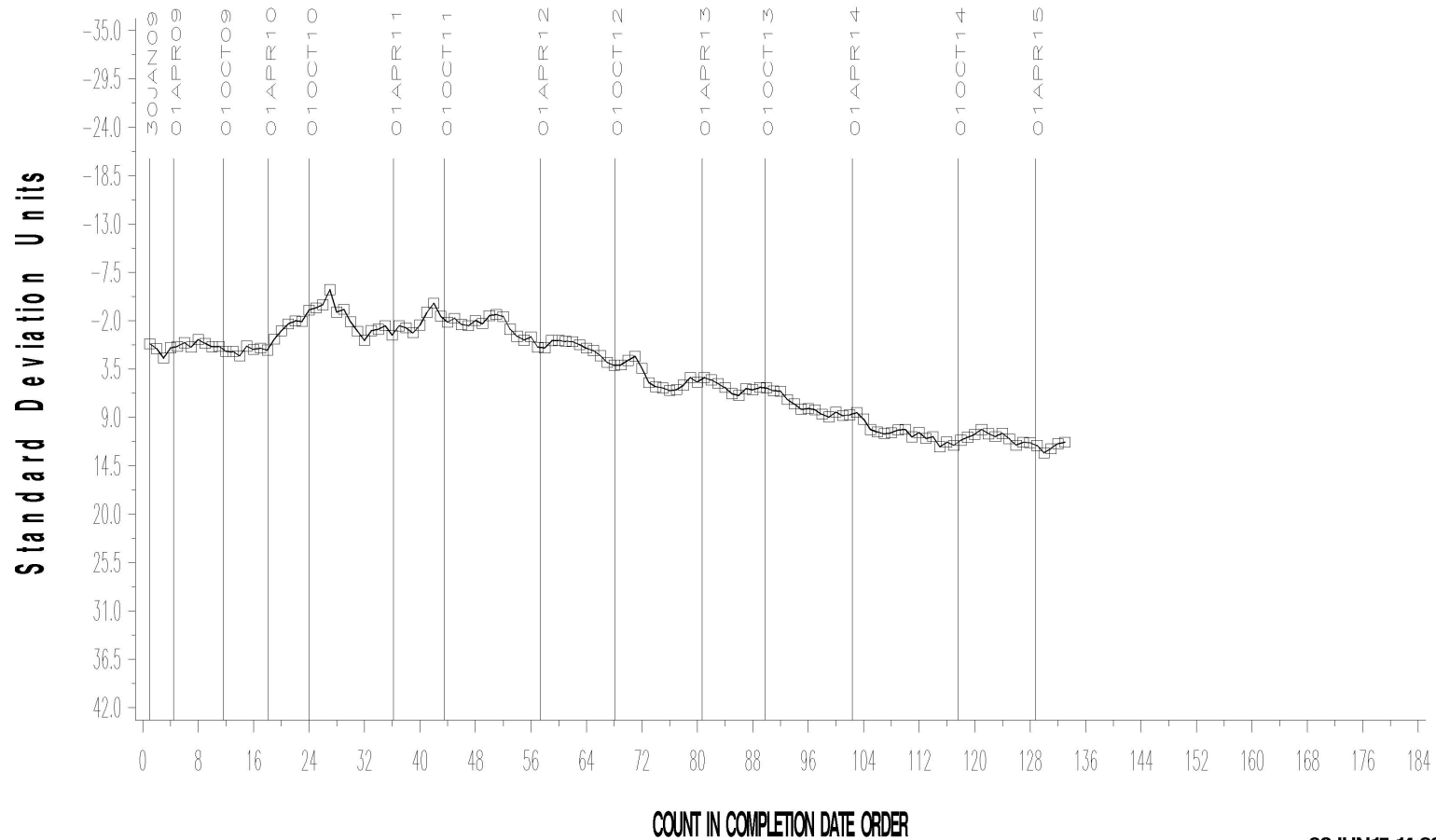
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# L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

## PINION SCORING

CUSUM Severity Analysis



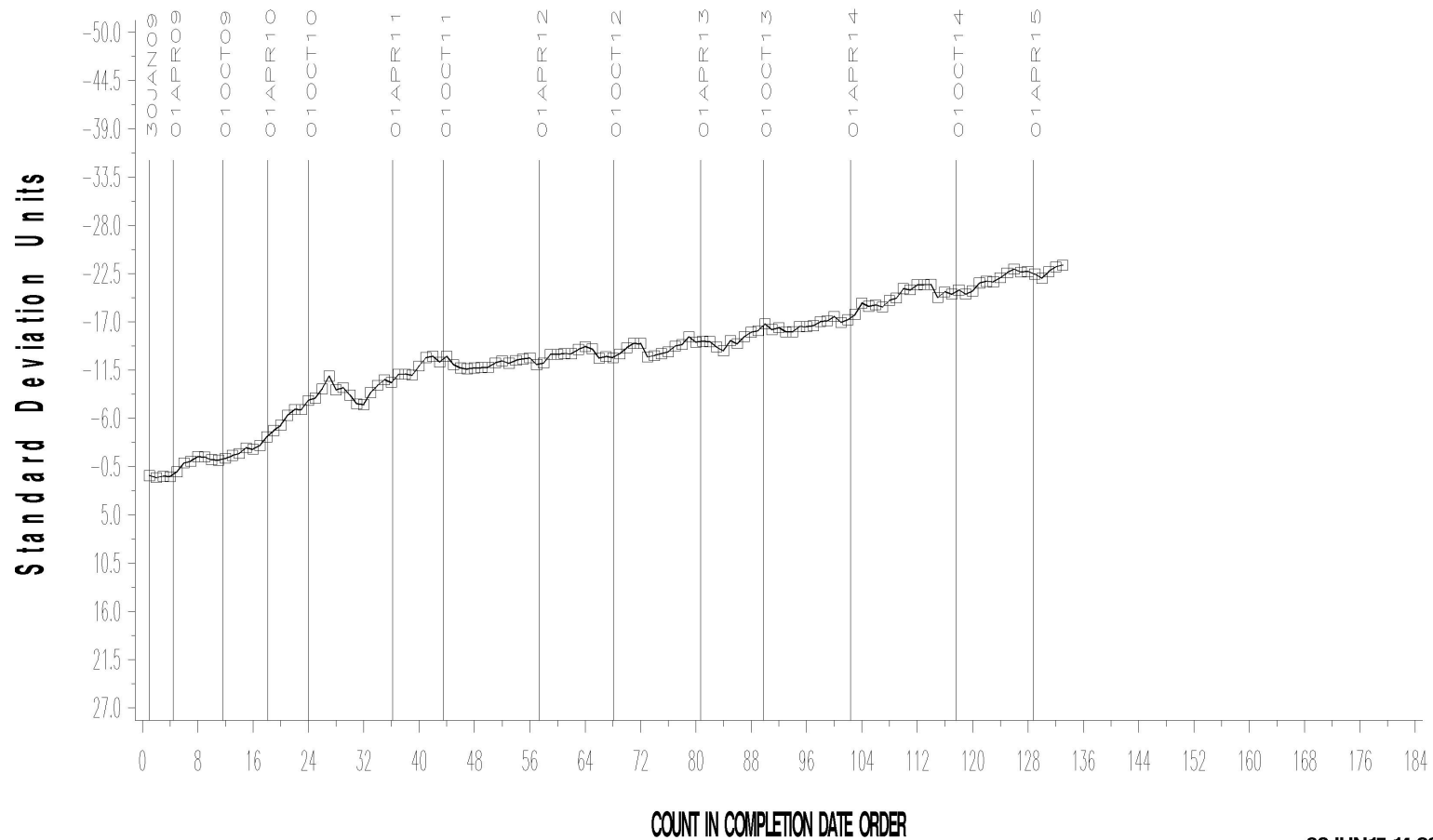
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# L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

## RING SCORING

CUSUM Severity Analysis



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