



# Test Monitoring Center

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412-365-1000

MEMORANDUM: 09-060

DATE: November 23, 2009

TO: Cory Koglin, Chairman, L-42 Surveillance Panel

FROM: Donald Lind *Donald Lind*

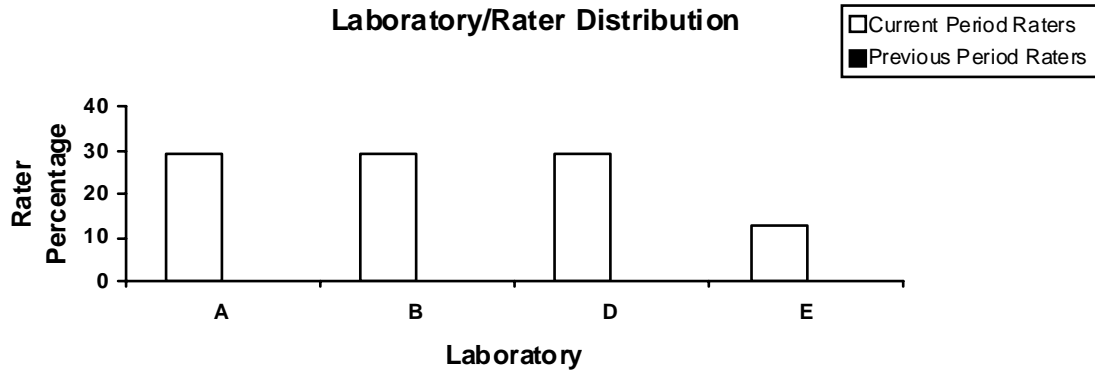
SUBJECT: L-42 Rater Calibration Status from April 1, 2009 through September 30, 2009

The following is a summary of the L-42 rater calibrations reported to the Test Monitoring Center during the period April 1, 2009 through September 30, 2009.

### Rater Summary

	Reporting Data	Calibrated as of 9/30/09
Number of Raters	7	7

The following chart shows the laboratory/rater distribution:



The following summarizes the status of the rater calibration tests reported to the TMC:

	TMC Validity Codes	No. of Calibrations
Statistically Acceptable	AC	7
Failed Acceptance Criteria	OC	0
Total		7

Summary

A total of seven L-42 rater calibration results from seven different raters were reported to the TMC this period. All seven raters were within the acceptance criteria with their first set of pinions.

There were no RCMS deviations written this period.

Severity and Precision

For this period, the mean delta/s was -0.03 mild for Pinion Scoring and -0.27 mild for Ring Scoring. Precision was 0.87 for pinion scoring and 0.98 for ring scoring. A straight standard deviation of Yi was used because the number of ratings per pinion was too small to determine a pooled standard deviation. Below is a table illustrating rater severity for this report period:

Rater	Pinion Scoring		Ring Scoring	
	Yi	S.D. *	Yi	S.D. *
B	0.43	1.30	0.04	0.80
E	0.38	0.56	0.31	0.88
H	-0.03	0.62	0.04	0.41
I	0.49	0.59	-0.21	1.99
K	-0.85	0.48	-0.51	0.78
M	-0.43	0.54	-0.99	0.24
N	-0.16	1.25	-0.56	0.86

\*A straight standard deviation of Yi was used as the number of ratings per pinion was too small to determine a pooled standard deviation.

Industry Control Charts

Figures 1 and 2 are the L-42 rater industry control charts for Pinion and Ring Scoring respectively. Figures 3 and 4 are the rater industry control charts of the last 30 test results for Pinion and Ring Scoring respectively. Severity EWMA charts for Pinion and Ring Scoring were in control this report period. Precision EWMA charts Pinion and Ring Scoring were in control this report period.

Attachments

c: L-42 Surveillance Panel  
 L-42 Rater Task Force  
 F. M. Farber  
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-10-2009.pdf>

Distribution: Email

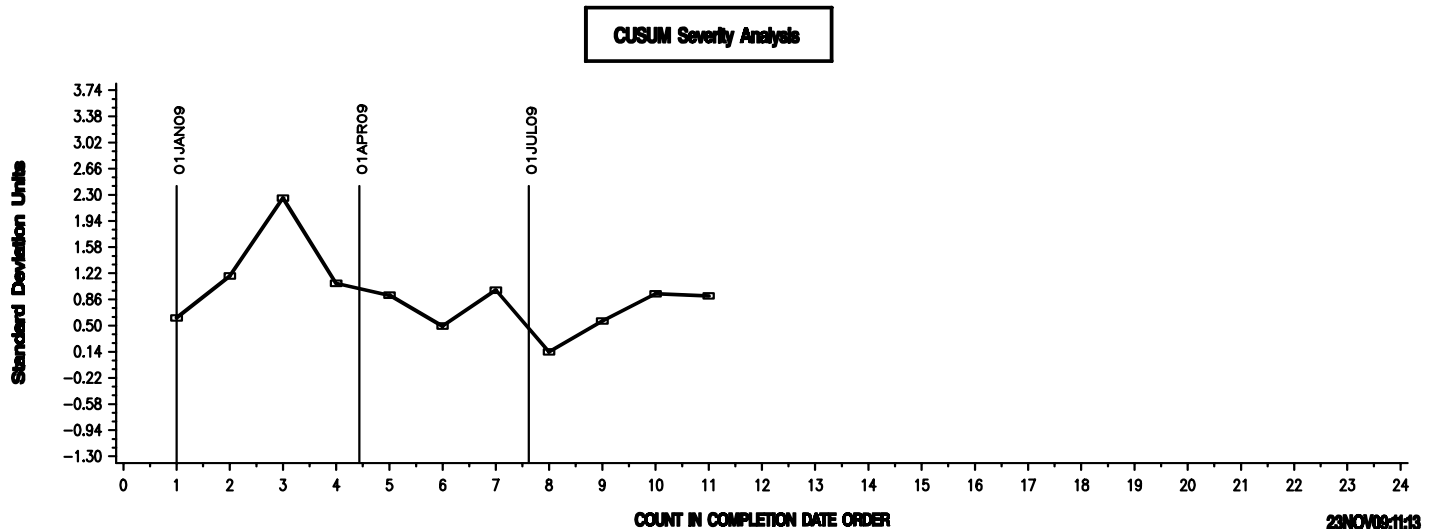
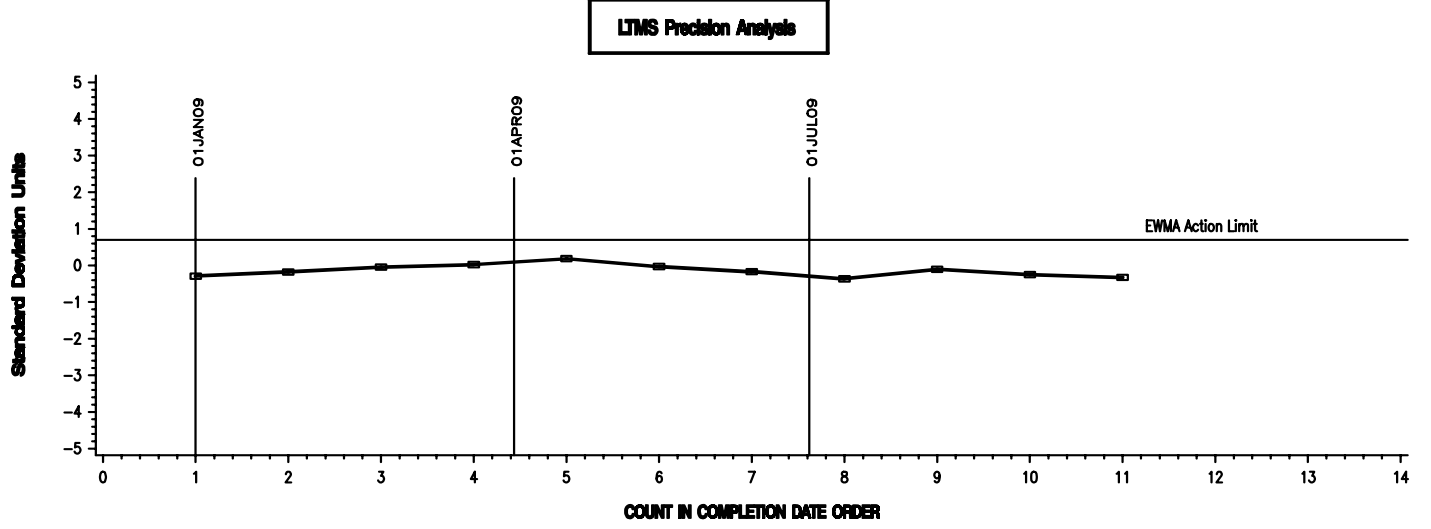
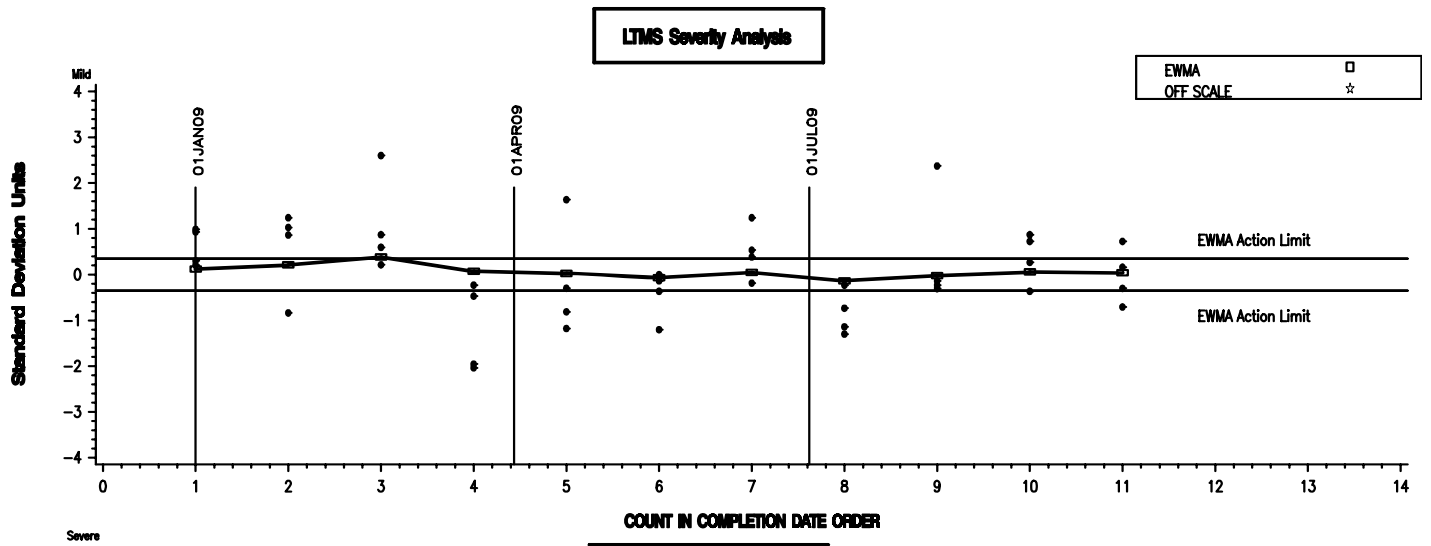
**Listing of Tables and Figure Included as Part of This Report to the L-42 Rater Calibration Report**

Figure 1 is the L-42 Rater Industry Control Charts for Pinion Scoring

Figure 2 is the L-42 Rater Industry Control Charts for Ring Scoring

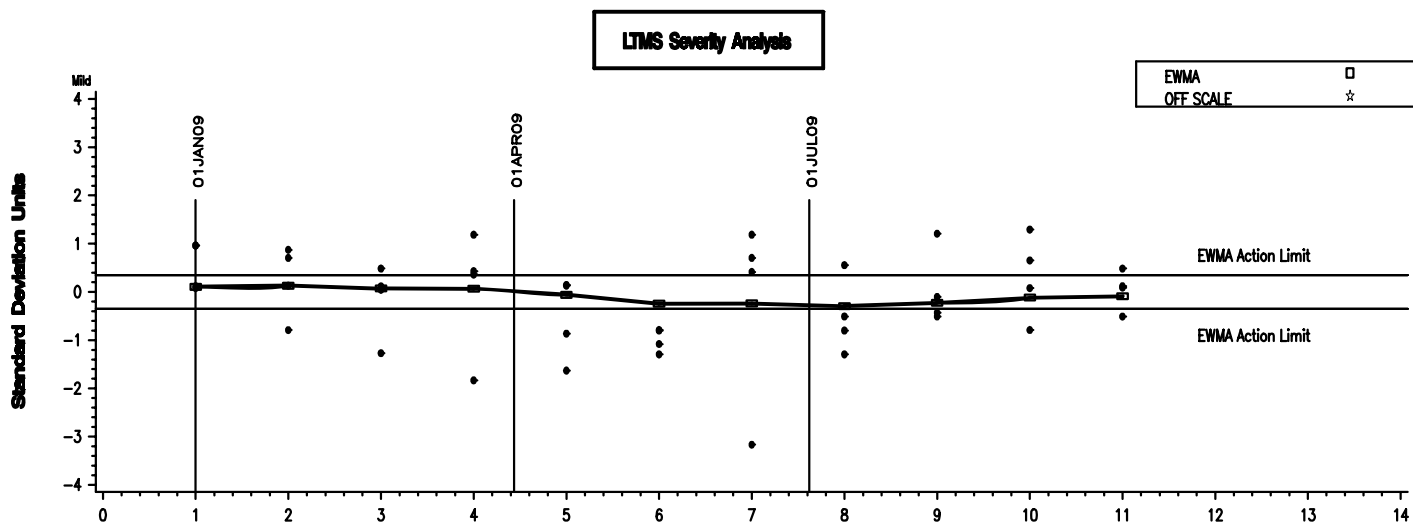
L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

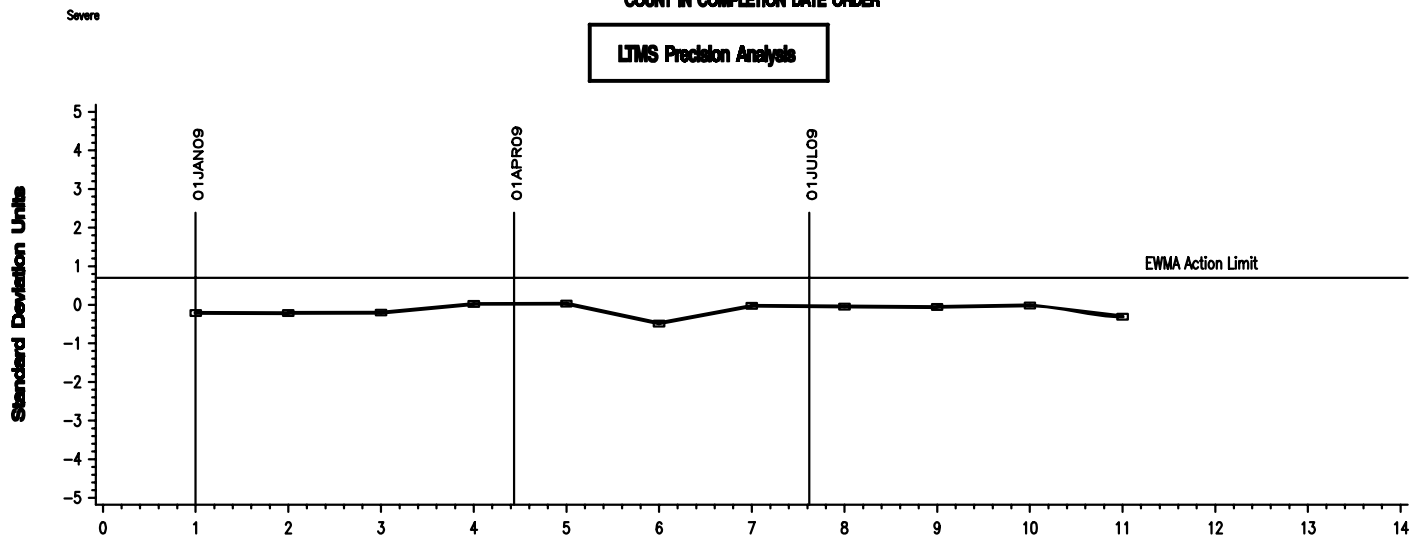


L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING



COUNT IN COMPLETION DATE ORDER



COUNT IN COMPLETION DATE ORDER

