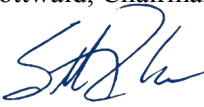




Test Monitoring Center

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

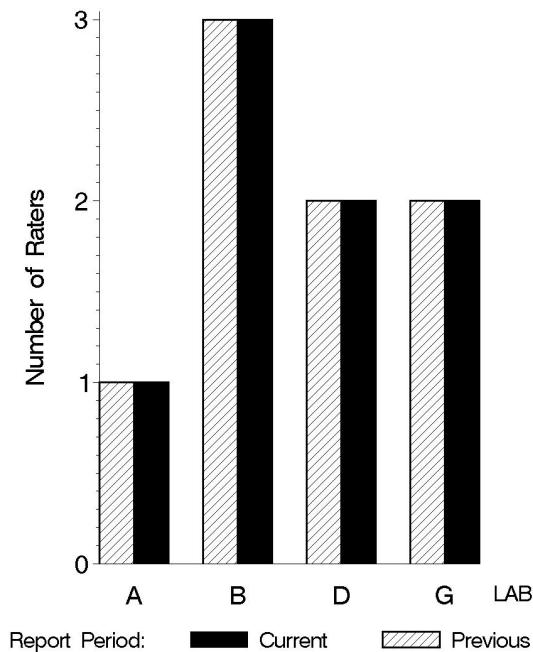
<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 13-011
 DATE: February 28, 2013
 TO: Thomas D. Gottwald, Chairman, L-42 Surveillance Panel
 FROM: Scott Parke 
 SUBJECT: L-42 Rater Calibration from April 1, 2012 through September 30, 2012

The following is a summary of L-42 rater calibration activity from April 1, 2012 through September 30, 2012.

	Reporting Data	Calibrated on 9-30-2012
Number of Raters	8	8

BY-LAB RATER DISTRIBUTION



Test Distribution by Oil and Validity

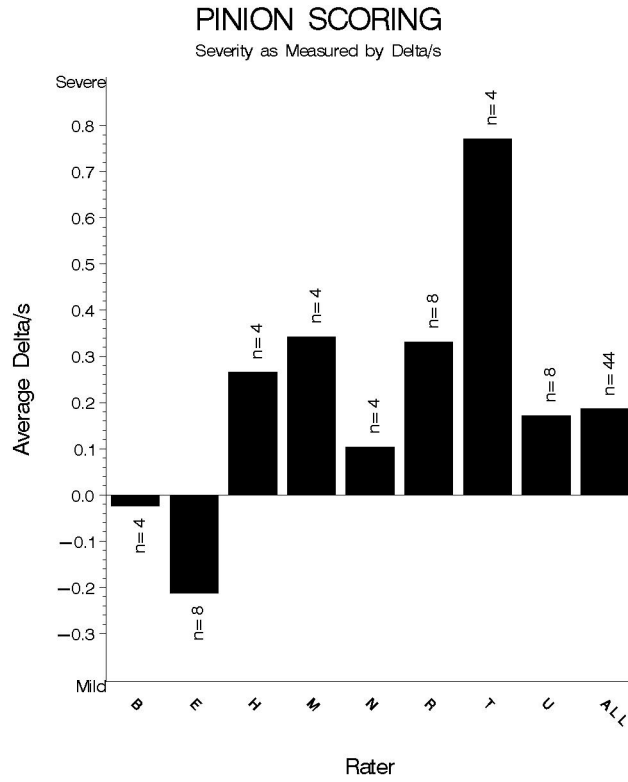
		Totals	
		Last Period	This Period
Accepted for calibration	AC	12	11
Rejected (mild)	OC	0	0
Rejected (severe)	OC	1	0
Rejected (multiple)	OC	0	0
Rejected (precision)	OC	1	0
Workshop data	AG	24	12
Total		38	23

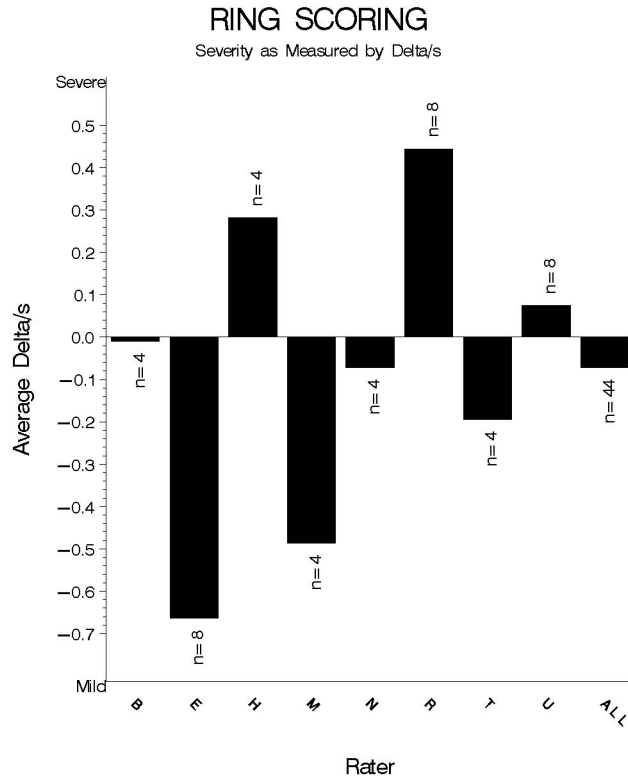
CAUSE OF REJECTED TESTS

There were no rejected tests this period.

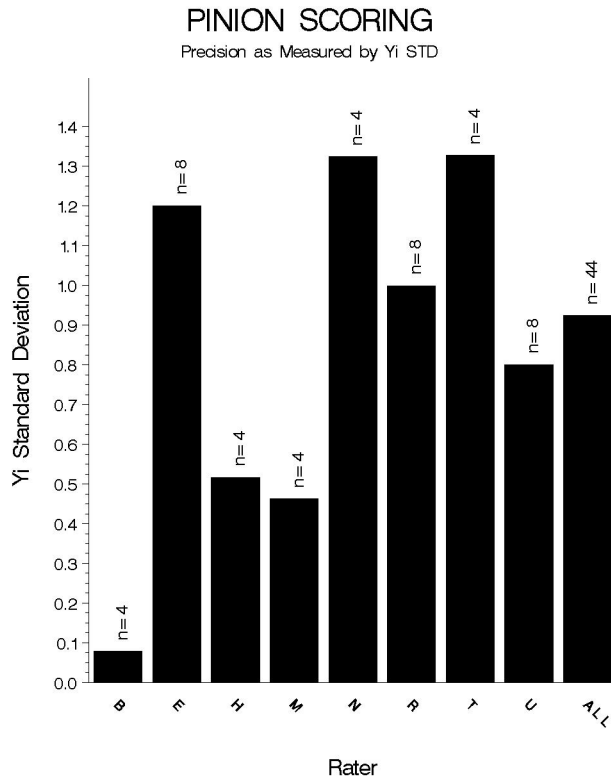
Rater	N	Pinion Scoring		Ring Scoring	
		Avg Yi	STD*	Avg Yi	STD*
B	4	-0.022	0.077	-0.009	0.231
E	8	-0.211	1.199	-0.662	0.635
H	4	0.264	0.514	0.280	0.752
M	4	0.341	0.461	-0.485	0.230
N	4	0.102	1.322	-0.071	0.639
R	8	0.330	0.998	0.442	0.946
T	4	0.770	1.326	-0.194	1.038
U	8	0.171	0.798	0.073	0.467
ALL	44	0.185	0.922	-0.070	0.738

* Due to the small number of ratings per pinion, the standard deviation of the Yi values is given in place of a pooled standard deviation.

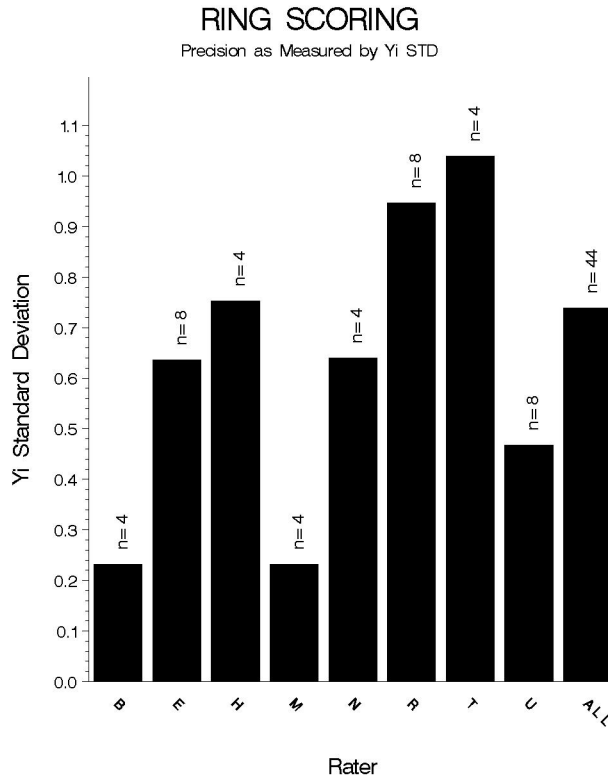




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INDUSTRY CONTROL CHARTS:

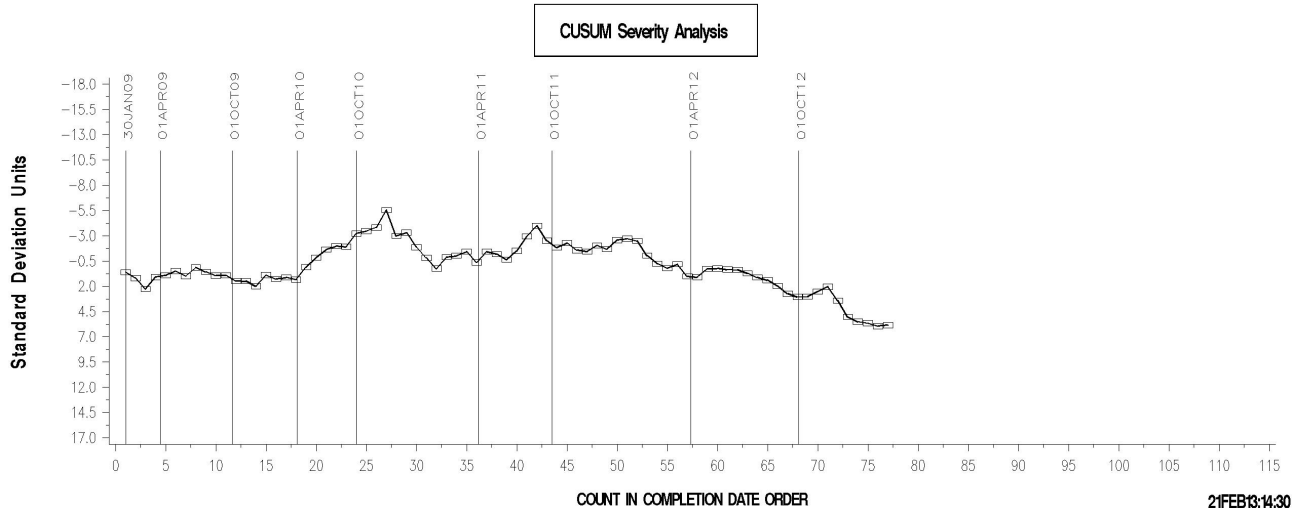
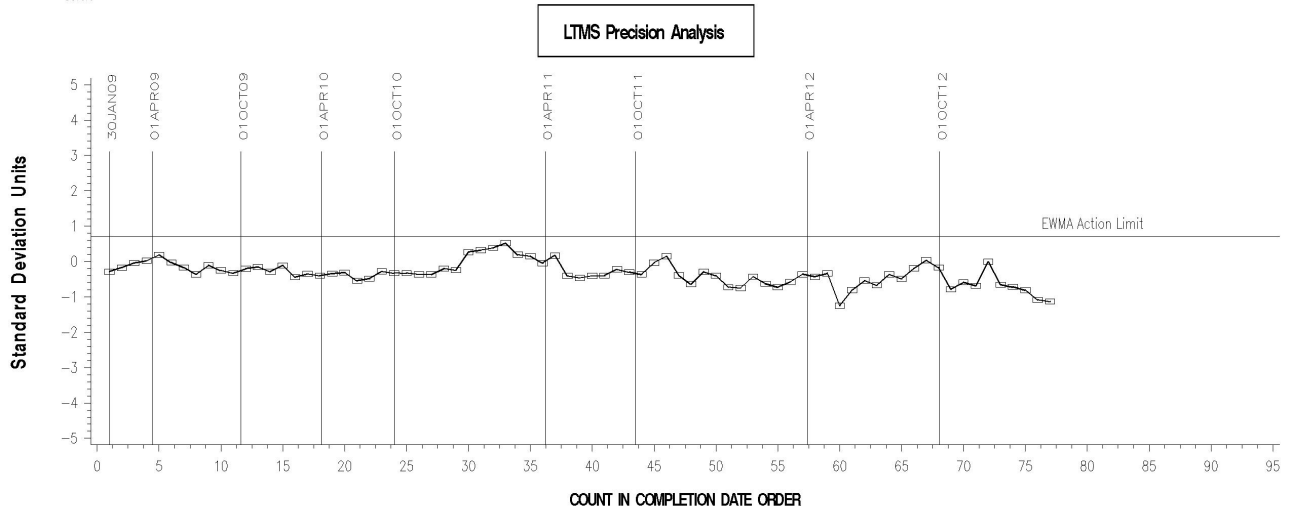
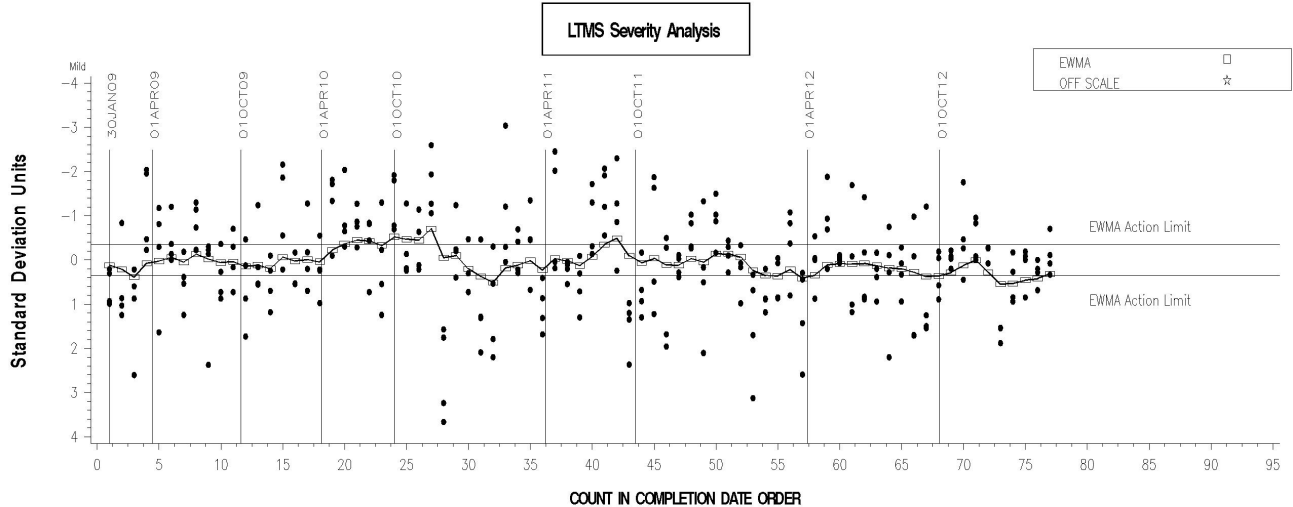
The industry control charts are shown beginning on the following page.

PSCR was generally slightly severe over this period; RSCR was on-target throughout the period. Precision for both parameters remained within acceptable limits.

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA



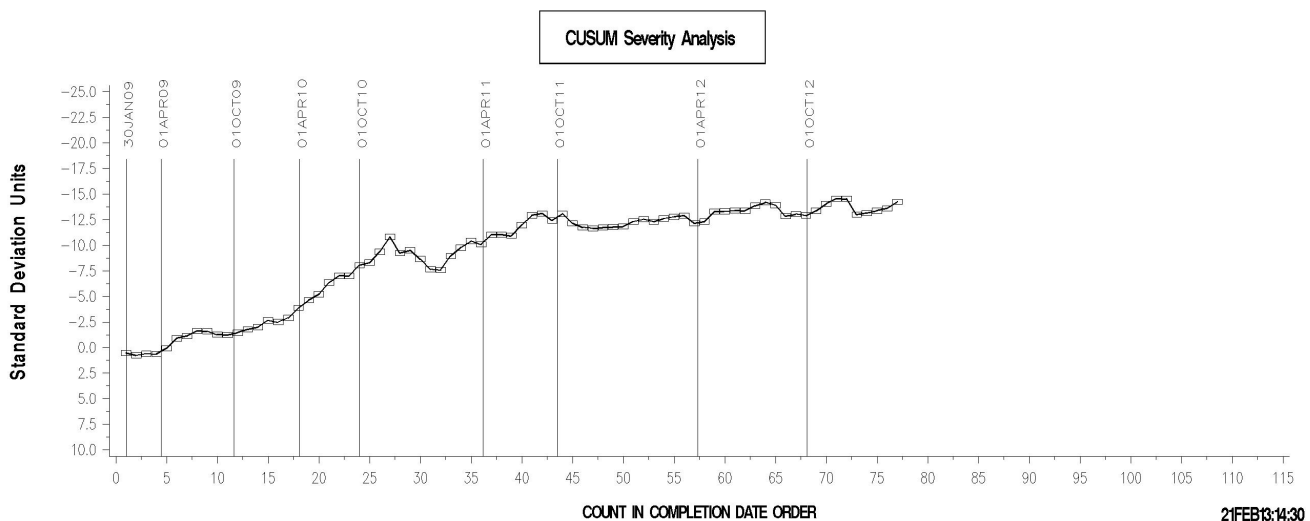
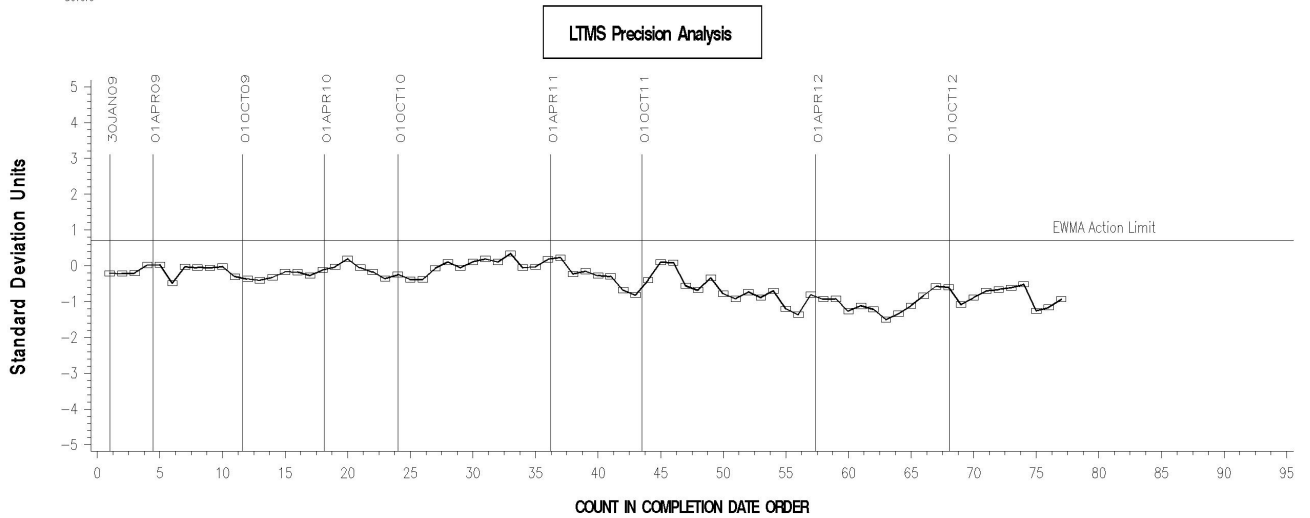
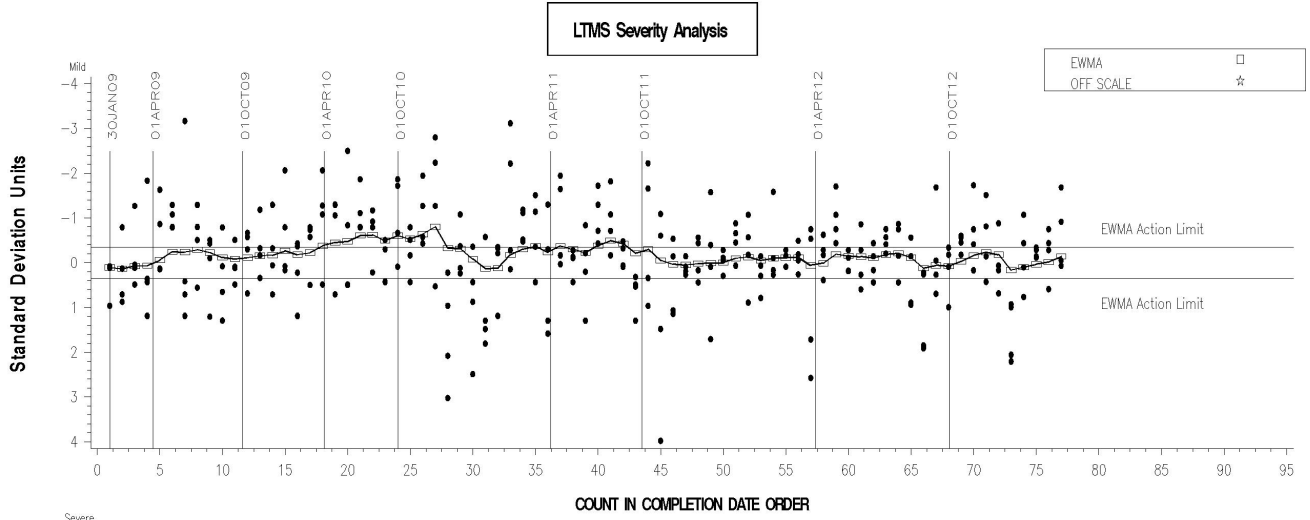
PINION SCORING



L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA



RING SCORING



Memo 13-011

Page 8

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cc: Frank Farber

Jeff Clark

L42 Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/gears/l42rc/semiannualreports/l42rc-10-2012.pdf>

Distribution: email