

### **Test Monitoring Center**

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org 412-365-1000

MEMORANDUM:	22-035
DATE:	October 31, 2022
TO:	Matthew Sangpeal, Chairman, L-42 Surveillance Panel
FROM:	Dylan Beck DyW Bego
SUBJECT:	L-42 Rater Calibration from April 1, 2022 through September 30, 2022

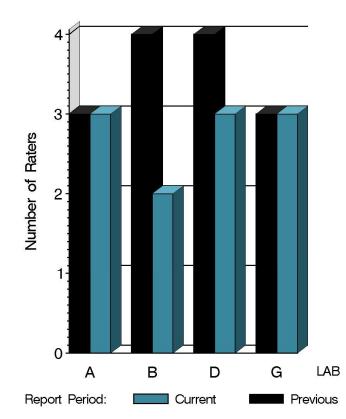
Attached is a summary of L-42 rater calibration activity this period.

DJB/djb/mem22-035.djb.doc cc: Jeff Clark Sean Moyer L-42 Surveillance Panel <u>https://www.astmtmc.org/ftp/docs/gear/142rc/semiannualreports/142rc-10-2022.pdf</u>

Distribution: email

	Reporting Data	Calibrated on 9-30-22
Number of Labs	4	4
Number of Raters	11	11

BY-LAB RATER DISTRIBUTION



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### **Test Distribution by Validity**

		Totals		
		Last Period	This Period	
Accepted for calibration	AC	15	12	
Rejected (Mild)	OC	0	0	
Rejected (Severe)	OC	0	2	
Rejected (Multiple)	OC	0	0	
Rejected (Precision)	OC	0	0	
Workshop data	AG	10	9	
Total		25	23	

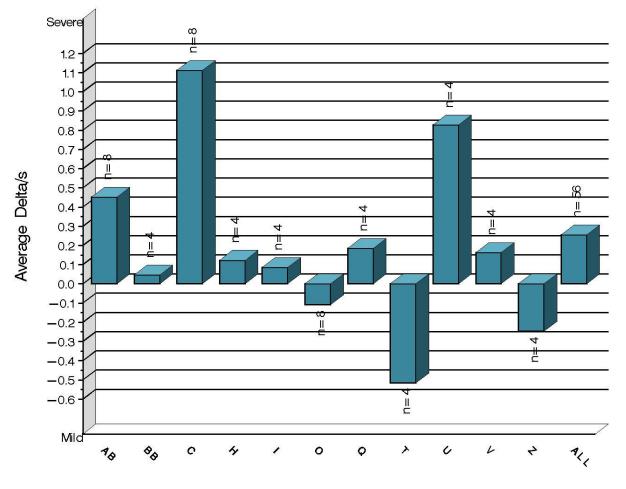


			PSCR		CR
Rater	Ν	Avg Yi	STD*	Avg Yi	STD*
AA	8	0.452	0.681	0.939	0.833
BB	4	0.047	0.252	-0.126	0.362
С	8	1.112	1.122	0.266	1.436
Н	4	0.123	0.293	0.033	0.458
I	4	0.086	0.360	0.175	0.569
0	8	-0.109	0.548	0.933	1.014
Q	4	0.185	0.525	-0.358	0.762
Т	4	-0.516	0.739	-0.432	0.662
U	4	0.828	0.527	-0.012	0.634
V	4	0.164	0.688	0.207	0.258
Z	4	-0.248	0.506	-0.105	0.663
ALL	56	0.256	0.773	0.261	0.921

\* 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.



PINION SCORING Severity as Measured by Delta/s

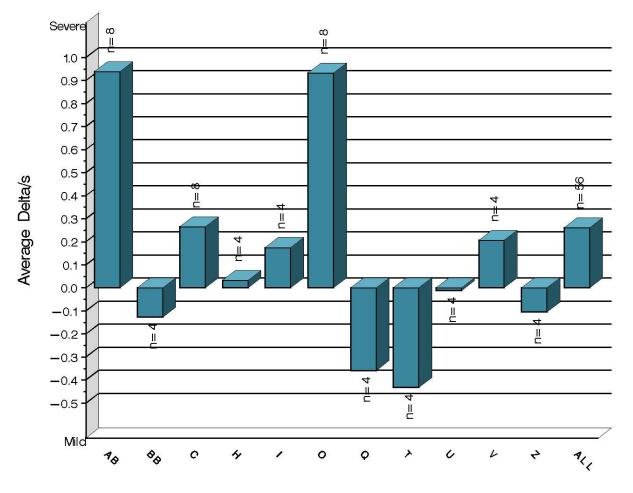


Rater

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RING SCORING Severity as Measured by Delta/s

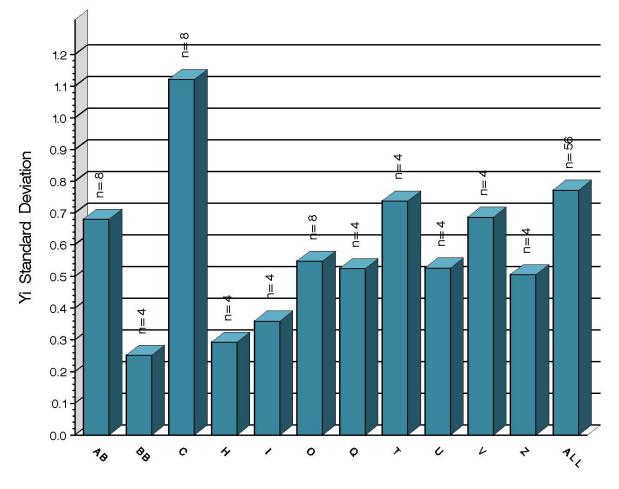


Rater

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PINION SCORING Precision as Measured by Yi STD



Rater

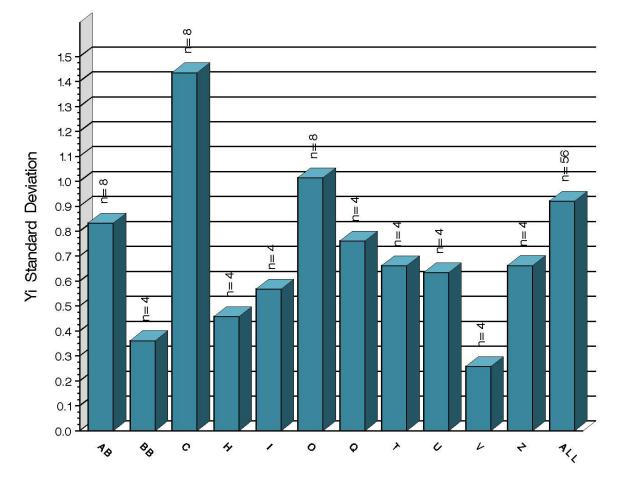
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RING SCORING Precision as Measured by Yi STD



Rater

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### **SUMMARY OF SEVERITY & PRECISION**

### Severity

PSCR exceeded the limit in the severe direction with one test this period. RSCR exceeded the action limit in the severe direction with two tests this period but has since returned within limits.

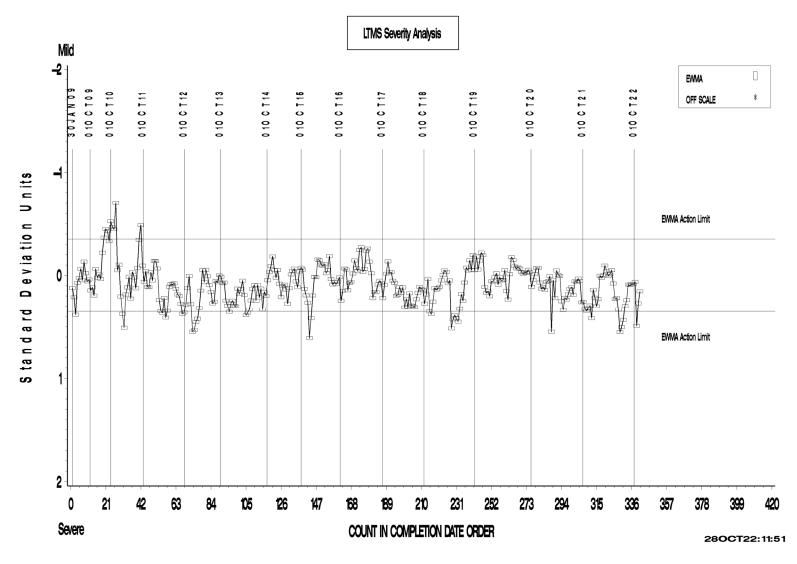
### Precision

Precision for both parameters remained within acceptable limits.

Industry control charts follow.



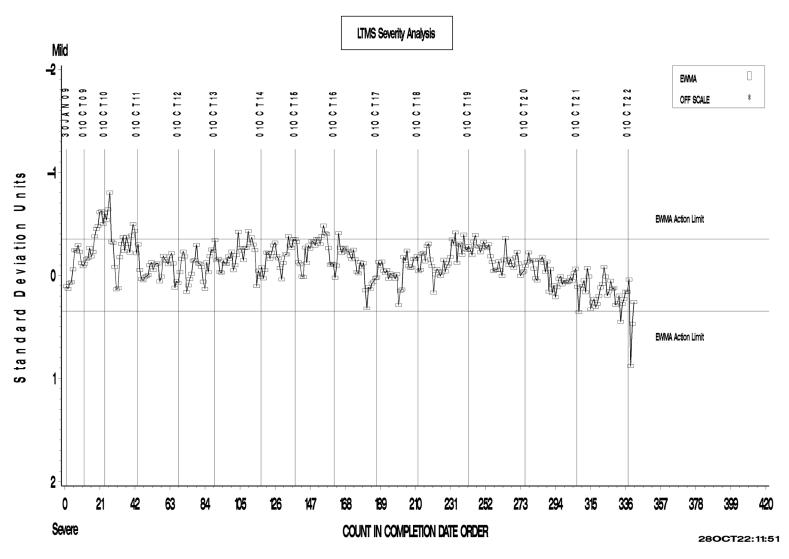
#### L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA



#### **PINION SCORING**



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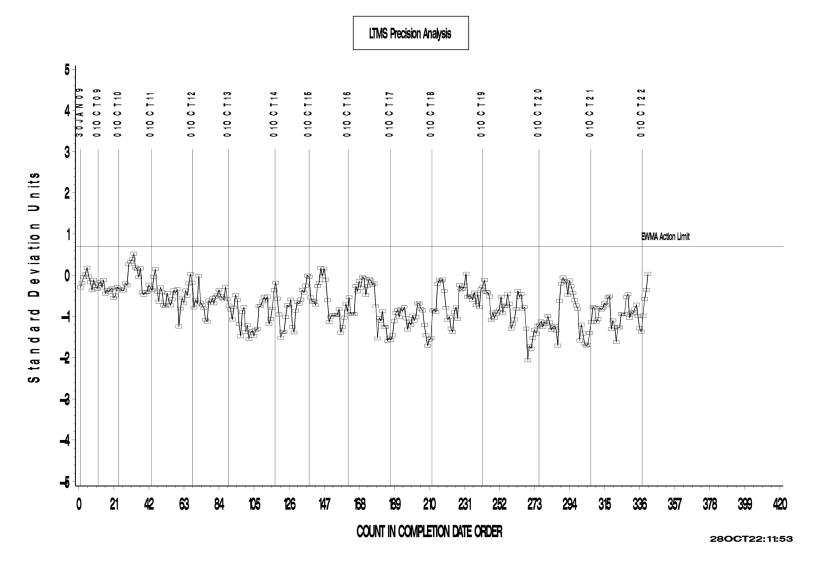






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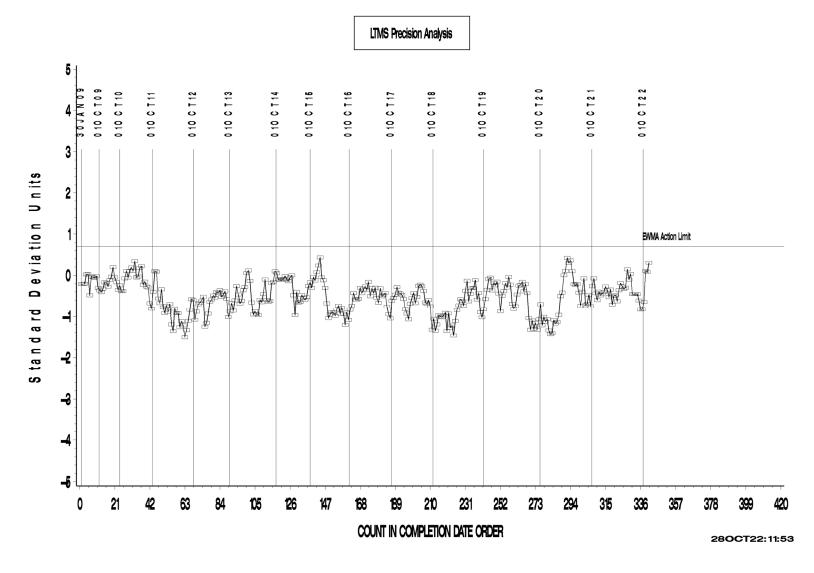
#### **PINION SCORING**





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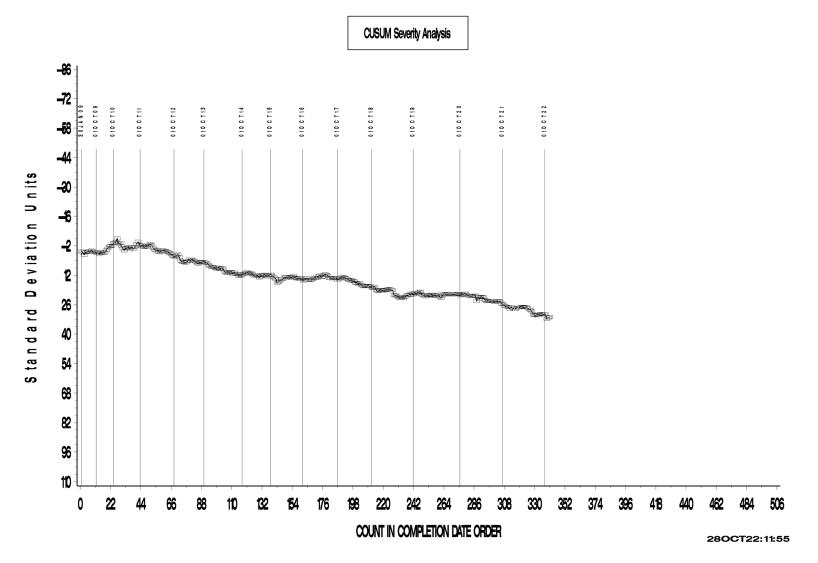
#### **RING SCORING**





#### L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

#### **PINION SCORING**





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