



## Quality Division Use Only

Scientific Area Committee (SAC): Physics/Pattern Interpretation

Subcommittee: Firearms

Standard/Guidelines Title ANSI/ASB Best Practice Recommendation 060-2021: Guidelines for Barrel and Overall Length Measurements of Firearms

Date added to OSAC Registry 5/2/2023

Can the Standard/Guidelines be followed in totality? No

### Please explain if the Standard/Guidelines and the applicable clauses that cannot be followed in their totality:

The Firearms Section will be in partial compliance with Standard 060. The recommendation clauses below will not be followed as written. All other applicable clauses are followed in full.

Clause 4.5.4 Participants responsible for manual measurements should be trained to avoid key factors which may affect the uncertainty of measurement.

Most training points listed in this clause are addressed directly in the Firearms Examiner training manual. Only Firearms Examiners are responsible for taking manual measurements of firearms. In practice, individual sources of error are addressed in training but are not delineated in the training manual.

Clause 4.5.10 and associated sub-clauses (4.5.10.1 and 4.5.10.2) Once uncertainties for BL-OL measurements are established, at least two measurements should be obtained for barrel length and at least two measurements should be obtained for overall length in casework. The mean value of the measurements should be reported. Any difference between the measurements should be consistent with the uncertainty as assessed above.

Individual measurements taken in the method validation and measurement uncertainty study did not demonstrate variation significant enough to warrant multiple measurements in casework. The section will not implement this recommendation clause and its associate sub-clauses based on this data. The Firearms Section is confident in the accuracy of a single barrel and overall length measurement. The uncertainty of measurement reported with applicable measurements sufficiently encompasses the variation noted by the data in the study.

### Compliance plan to achieve conformance to Standard/Guidelines:

4.5.4 The Firearms section will add key factors which may affect the uncertainty of measurement to the next iteration of the Firearms Examiner Training Manual. These factors are currently addressed in training but are not delineated in the training manual.

The Firearms section does not plan to implement recommendation clause 4.5.10 and its associated sub-clauses for the reasons listed above.

### Declaration of Compliance to OSAC Registry Standard/Guidelines:



**Quality**  
**OSAC Registry Compliance Form**  
**Quality Division**

As of August 22, 2024, the Firearms Section is partially compliant with the guidelines listed in "Guidelines for Barrel and Overall Length Measurements of Firearms".

**Technical Leader:** N/A

**Date:** N/A

**Section Manager:**   
Donna Catalley (Aug 23, 2024 16:04 CDT)

**Date:** Aug 23, 2024

**Division Director:**   
Amy Castillo

**Date:** Aug 26, 2024

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**Date:** Aug 29, 2024