

Background Memo

Document:	Specific Accreditation Criteria: ISO/IEC 17025 Application Document, Calibration - Annex, Mass and related quantities
Date:	June 2024
Key changes:	<p>Force Measuring Systems</p> <p>Information about the approach to use for the determine of the uncertainty contribution of the known reference force (UBf) for AS 2193 Calibration and classification of force-measuring systems.</p> <p>Additional information about matching of load cell load fittings and assembly instructions is also included. This section has been editorially revised.</p> <p>Piston operated volumetric apparatus (POVA) calibration</p> <p>Reference to Australian Standard for POVAS AS 2162.2 has been withdrawn and is no longer deemed a current standard method. Also, ISO 8655 series was updated in 2022 and the annex has been updated to reflect these changes.</p>
Background:	
<ul style="list-style-type: none"> AS 2193 section 4 'Calibration and Classification of Working Force Standards' is ambiguous about how to determine and apply the uncertainty contribution of the known reference force (UBf) used to calibrate the cell. This proposed update clarifies the approach to use which is to Determine UBf at each force and apply at each force. There is now only one current standard for the calibration of Piston operated volumetric apparatus (POVA), ISO 8655 and hence differences to between AS 2162.2 and ISO 8655 - 6 have been removed. ISO 8655 series was updated in 2022 and periodic metrological confirmation or calibration and appropriate performance tolerances for POVAs is ISO 8655 -1. 	
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