

FIJI AERONAUTICAL INFORMATION CIRCULAR



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ACCEPTANCE OF MEASUREMENT AND CALIBRATION SYSTEMS

1. INTRODUCTION

- 1.1 The purpose of this AIC is to provide information and guidance on the Acceptance of Measurement and Calibration Systems.
- 1.2 It is applicable to aircraft Maintenance Organisations approved by the Civil Aviation Authority of the Fiji Islands to FJAR145.
- 1.3 JAR-145 and Section 3 of the CAAFI Minimum Requirement Document (MRD) 1 require that where necessary, tools, equipment and in particular test equipment are calibrated to standards acceptable to the Authority. The required frequency is that which, for the particular equipment, will ensure confidence in serviceability and accuracy.
- 1.4 These requirements are in broad terms in order to ensure a flexible approach, reflecting influences such as the degree of accuracy required, frequency of use and reliability of the equipment. The key factor, however, is the need for confidence in the accuracy of the equipment when it is required for use.

2.0 PROCEDURES

- 2.1 Tools, equipment and test equipment requiring calibration are those items that are necessary to perform measurements or tests of an aircraft, system or component to a defined standard in order that compliance with an airworthiness requirement may be certified.
- 2.2 The control of tools and equipment requires that the organisation has a procedure to inspect/service and where appropriate, calibrate such items on a regular basis and to indicate to users that the item is within any inspection, service or calibration time-limit.

- 2.3 A clear system of labeling all tooling, equipment and test equipment is therefore necessary giving information on when the next inspection, service or calibration is due. Unserviceable items should be clearly identified as such and withdrawn from use.
- 2.4 A register should be maintained for all precision tooling, equipment and test equipment.

The register should contain as a minimum: -

- The Tool/Equipment type.
- Control Number and/or Serial Number.
- Due Date of Calibration/Service/Inspection.
- Completion Date of Calibration/Service/Inspection.
- Results of the Calibration/Service/Inspection.
- Standards/Specification Used.
- Copies of the relevant Test Certificate or equivalent (refer to paragraphs 2.7 and 2.8).

The register may cross refer to other documents, however, the above information must be available and ultimately be traceable to a National Standard as detailed in Paragraph 2.6.

- 2.5 The equipment manufacturer's instructions for determining the inspection, service or calibration period should be used except where the organisation can show by results that a different period is appropriate in a particular case.
- 2.6 The Civil Aviation Authority of the Fiji Islands has accepted that the Measurement and Calibration System Specifications of countries such as Australia, New Zealand, UK and USA can provide the necessary level of confidence. These standards are predicated upon the need for calibration standards being ultimately traceable to the appropriate national standard.
- 2.7 In some cases, such as, dedicated test equipment, the appropriate standard may be that specified by the original equipment manufacturer or design organisation.
- 2.8 Approved Maintenance Organisations should use test houses that can provide traceability of the standards used to NATA, IANZ, NAMAS or NIST.

Note: NAMAS = National Measurement Accreditation Services.
 IANZ = International Accreditation New Zealand.
 NATA = National Association of Testing Authorities.
 NIST = National Institute of Standards and Technology.