SUPPLEMENTAL ACCREDITATION REQUIREMENTS:
LABORATORIES PERFORMING DETECTION OF SUSPECT/ COUNTERFEIT PARTS UNDER AS6171

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INTRODUCTION

This document sets forth supplemental requirements for voluntary accreditation of laboratories performing detection of suspect/counterfeit parts to the requirements of AS6171, Test Methods Standard. This document establishes specific program requirements as defined by the ANSI National Accreditation Board (ANAB).

ANAB conforms to the requirements of AS6810 for accreditation of laboratories to AS6171.

REFERENCES

AS6810, Requirements for Accreditation Bodies when Accrediting Test Laboratories Performing Detection of Suspect/Counterfeit in Accordance with AS6171 General Requirements and the Associated Test Methods

MA 2100, ANAB Accreditation Manual for Laboratory-Related Activities

AR 2250, Accreditation Requirements: ISO/IEC 17025 Testing Laboratories

ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories

AS6171, Test Methods Standard; General Requirements, Suspect/Counterfeit, Electrical, Electronic, and Electromechanical Parts

AS6171, Current Test Methods (slash sheets)

DEFINITIONS

All definitions in the documents referenced above apply.

1. ACCREDITATION REQUIREMENTS

1.1. The laboratory shall meet the requirements contained in:

1.1.1. ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories.

1.1.2. AS6171, Test Methods Standard; General Requirements, Suspect/Counterfeit, Electrical, Electronic, and Electromechanical Parts.

1.1.3. AS6171 slash sheets.

2. SCOPE OF ACCREDITATION

2.1. Only the test methods included in the current AS6171 slash sheets are applicable for this accreditation program.
3 PERSONNEL COMPETENCE

3.1. Laboratory personnel shall demonstrate the following knowledge, understanding, and competence as they relate to AS6171 and the AS6171 test methods requested or included in the scope of accreditation, at a minimum:

3.1.1. Knowledge of the definition of a suspect/counterfeit part and description of the seven types of counterfeit electrical, electronic, and electromechanical (EEE) parts.

3.1.2. Understanding of EEE parts and the distinction between active and passive parts, and an understanding of the applicability matrix in Appendix A of AS6171 and the devices covered by this standard.

3.1.3. Thorough understanding of the interrelationship of the “user/requester” and the “responsible test laboratory.”

3.1.4. Responsibilities and requirements for the responsible test laboratory.

3.1.5. Recommendations from the user/requester and information that should be supplied to the test laboratory.


3.1.7. Complete understanding of the sampling plan, both for standard lot and small lot.

3.1.8. Use of sampling tables for different test methods.

3.1.9. Action to be taken if a defect is observed that represents a quality or counterfeit concern.

3.1.10. Working understanding of the test sequences of tables 6A, 6B, and 7, and use of the corresponding tables in Appendix E, Test Sequence Results.

3.1.11. Ability to determine the suspect/counterfeit defect coverage (CDC), suspect/counterfeit type coverage (CTC), under-covered defects (UCD), and not-covered defects (NCD) for a given test sequence.

3.1.12. Knowledge of part-handling requirements by laboratory personnel including electrostatic discharge (ESD) preventative requirements and procedures for segregation of parts for potential use in surface analysis, moisture sensitivity, and radiation sensitivity.

3.1.13. Policies for safe handling of hazardous chemicals.


3.1.15. Understanding of the interpretation and analysis of results and the factors in determination of a suspect/counterfeit part.

3.1.16. Test report requirements and data retention.

3.1.17. Processing of data and reports from subcontracted laboratories.

3.1.18. Knowledge of test traveler requirements and associated requirements for the certificate of quality conformance (CoQC).
3.1.19. Material control of nonconforming parts and suspect/counterfeit parts.

4. ELECTROSTATIC DISCHARGE (ESD) CAPABILITIES

4.1. The laboratory must demonstrate the capabilities to work under conditions of low relative humidity as outlined in Appendix B of AS6171.

REVISION HISTORY

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