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AEROSPACE STANDARD

SAE AS7114

Submitted for recognition as an American National Standard

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Superseding AS7100/1A

NATIONAL AEROSPACE AND DEFENSE CONTRACTORS ACCREDITATION PROGRAM REQUIREMENTS FOR NONDESTRUCTIVE TESTING

1. SCOPE

This Aerospace Standard (AS) establishes the requirements for suppliers of nondestructive testing (NDT) to be accredited by the National Aerospace and Defense Contractors Accreditation Program (NADCAP) in accordance with the current revision of SAE AS7003. Using the audit checklist and the applicable supplementary checklists will ensure that accredited NDT suppliers meet the requirements of this standard and all applicable supplementary standards.

When customer requirements differ from those specified herein, the customer requirements shall take precedence.

The NADCAP Nondestructive Testing Task Group recognizes SAE AS7004, SAE AS7106, SAE AS7107 or other quality systems documents approved by the NADCAP NDT Task Group as equivalent to portions of this document as noted in the audit checklist.

2. REFERENCES

2.1 SAE Publications

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15086-0001.

AS7003 National Aerospace and Defense Contractors Accreditation Program (NADCAP) - Program Operation

2.2 U. S. Government Publications

Available from DODSSP Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-STD-410 Nondestructive Personnel Qualification and Certification
MIL-STD-45662 Calibration Systems Requirements

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Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

ISO 9001 "Quality Systems - Model for Quality Assurance in Design/Development, Production, Installation and Servicing

3. NDT QUALITY SYSTEM:**3.1 Quality Manual**

3.1.1 The supplier shall have a quality manual that details the system by which it intends to control the overall quality of its operations.

3.1.2 A documented quality system shall be established.

- a. The quality system shall be reviewed periodically.
- b. Records of such reviews shall be maintained.

3.2 Document Control

3.2.1 Applicable specifications shall be available. Applicable specifications include, but are not limited to customer, industry specifications (ASTM, SAE, etc.), U.S. Government specifications, and company specifications and other applicable specifications; i.e., ISO specifications, etc.

3.2.2 There shall be a procedure in place that assures the updating of specifications and removal of obsolete documents.

3.3 Customer Requirements:

3.3.1 There shall be a procedure to ensure that all customer requirements, including unique requirements, are implemented.

3.3.2 Responsibility for identifying and implementing customer requirements shall be identified by function and title.

3.3.3 Customer requirements shall be documented.

3.3.4 Customer documents/requirements shall be communicated to the inspectors.

3.4 Internal Audit

3.4.1 There shall be a procedure requiring periodic internal audit of the NDT system comprised of personnel, procedures, and equipment.

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- 3.4.2 There shall be a procedure for qualification of personnel performing NDT internal audits based on customer requirements.
- 3.4.3 When evaluation of material parts is a function of the internal audit, the individual performing the audit shall be qualified to a minimum of Level II.
- 3.5 Nonconforming Parts:
- 3.5.1 There shall be a procedure that requires that all rejected parts be adequately identified and segregated until rework, reinspection, and material/or disposition has been completed in accordance with applicable customer requirements.
- 3.5.2 The responsibilities for review and authority for the disposition of nonconforming parts shall be defined, when applicable.
- 3.5.3 Dispositions for the following nonconforming parts shall be covered by a procedure, as applicable.
- a. Reworked to meet specified requirements
 - b. Accepted with or without repair by concession
 - c. Regraded for alternative applications
 - d. Rejected or scrapped
 - e. Return to customer for disposition
 - f. Forward documentation of nonconforming condition to customer
- 3.5.4 Descriptions of non-conformities and repairs that have been accepted shall be recorded to denote the actual conditions and this report provided to the customer.
- 3.5.5 Repaired and reworked parts shall be reinspected in accordance with documented procedures as evidenced by documented records.
- 3.6 Stamp Control
- 3.6.1 There shall be a procedure specifying symbols, methods of application, and control of inspection stamps.
- 3.6.2 The procedure shall contain, as applicable:
- a. Letter symbol for the method applied
 - b. The facility identifier
 - c. The inspector's identification number
 - d. Requirements for a record to be maintained for the issuance, recall, and traceability of all inspection stamps