	<i>The American Association for Laboratory Accreditation</i>	
	R212 – Specific Requirements: Nondestructive Testing Laboratory Accreditation Program	Document Revised: June 11, 2009
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INTRODUCTION

This document describes the accreditation requirements applicable to the A2LA Nondestructive Testing (NDT) Field of Testing. These requirements are designed to meet the needs of users looking for quality NDT services.

Internationally accepted accreditation criteria, guidance documents developed by ASTM Committees E-36 and E-7, and individual U.S. military and ASME requirements form the basis for accrediting laboratories under this field. One of the major objectives of A2LA is to provide regulators responsible for approving NDT laboratories with an effective alternative for evaluating and recognizing qualified laboratories. A2LA is committed to working with federal, state and commercial organizations to realize this objective. The A2LA accreditation process is described in the A2LA General Requirements for Accreditation booklet.

The scope of this field includes the following testing technologies: radiography, magnetic particle, ultrasonic, liquid penetrant, electromagnetic, neutron radiography, visual examination, leak (bubble, pressure change, halogen diode and mass spectrometer), and acoustic emission.

Applications for accreditation may be made for one or more testing technologies. When applying, the laboratory is requested to complete the NONDESTRUCTIVE FIELD OF TESTING SELECTION LIST.

GENERAL CRITERIA

The general criteria for accreditation are contained in ISO/IEC 17025:2005. Contact A2LA Headquarters or visit the A2LA web site www.A2LA.org for information on how to obtain that document.


SPECIFIC CRITERIA

Specific criteria are generally an elaboration on or interpretation of the general criteria plus those requirements of accreditation applicable to a certain field of testing, testing technology, type of test, or specific test.

To be accredited under the NDT field, laboratories must conform to the applicable requirements of the latest versions of the test methods on their proposed Scope of Accreditation. Laboratories also have the option of being assessed to ASTM E543, *Standard Practice for Evaluating Agencies Performing Nondestructive Testing* and/or ASTM E1212, *Standard Practice for Quality Control Systems for Nondestructive Testing Agencies*. Laboratories that choose to be accredited to ASTM E543 must perform a self-assessment using the checklist in ASTM E1359, *Standard Guide for Evaluating Capabilities of Nondestructive Testing Agencies*. The completed E1359 checklist must be submitted to the A2LA assessor(s) prior to the assessment.

Equipment Calibrations:

The following equipment used in NDT Testing is required to meet the A2LA Traceability Policy, all other NDT equipment not listed below must be checked and/or standardized accordingly.

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Magnetic Particle (MT): Ammeter, Timer, Gauss Meter, White/Black Light Meter.

Radiographic Testing (RT): Density Film Strip.

Liquid Penetrant Testing (PT): Pressure Gages, White/Black Light Meter, Temperature Gages.

Visual: White Light Meter .

Leak Test, Pressure Drop: Pressure Gage.

Leak Test, Gas Detection and Flow Rate: Sensing Units.

Document Revision History

Date	Description
April 2004	General Criteria updated to reference ISO/IEC 17025. Following changes made to Specific Criteria: <ul style="list-style-type: none"> • ASTM E543 and ASTM E1212 made optional; • Requirement to use E1359 checklist for E543 added; • Personnel certification requirement removed. Document Revision History section added. No other changes made.
September 2005	Updated to reference ISO 17025:2005
June 2009	Added NDT Equipment Calibrations Section

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