



Designation: D4537 – 12 (Reapproved 2018)

Standard Guide for Establishing Procedures to Qualify and Certify Personnel Performing Coating and Lining Work Inspection in Nuclear Facilities¹

This standard is issued under the fixed designation D4537; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide delineates the requirements for development of procedures for the qualification and certification of personnel who perform inspection of coating and lining work. Establishment of qualification requirements to verify conformance to specified requirements for nuclear facility coating and lining work is necessary to assure satisfactory performance of the inspections and to avoid compromising safety-related coating systems.

1.2 The intent of this guide is to provide a uniform interpretation of the requirements in ANSI/ASME N45.2.6 or ANSI/ASME NQA-1 as applicable, for the inspection of coating and lining work in nuclear facilities.

1.3 It is the intent of this guide to provide a recommended basis for qualification and certification, not to mandate a singular basis for all qualifications. Variations or simplifications of the qualifications described in this guide may be appropriate for special coating and lining work other than safety-related coating and lining systems. Similarly, the qualification and certification process might be abbreviated for work of minor scope such as touch-up.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This guide is under the jurisdiction of ASTM Committee D33 on Protective Coating and Lining Work for Power Generation Facilities and is the direct responsibility of Subcommittee D33.04 on Quality Systems and Inspection.

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2. Referenced Documents

2.1 ASTM Standards:²

D4538 Terminology Relating to Protective Coating and Lining Work for Power Generation Facilities

D5144 Guide for Use of Protective Coating Standards in Nuclear Power Plants

D5498 Guide for Developing a Training Program for Personnel Performing Coating and Lining Work Inspection for Nuclear Facilities

2.2 ANSI/ASME Standards:³

ANSI/ASME N45.2.6 Qualifications of Inspection, Examination, and Testing Personnel for Nuclear Power Plants

ANSI/ASME NQA-1 Quality Assurance Program Requirements for Nuclear Facilities

3. Terminology

3.1 *Definitions*—Definitions for use with this standard are shown in Terminology D4538 or other applicable standards.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *certification, n*—written documentation of qualification.

3.2.2 *coating and lining work inspection, n*—a phase of quality control that, by means of examination, observation, or measurement, determines the conformance of safety-related coating or lining system applications to predetermined quality requirements. The term inspection as used in this standard shall be understood to mean coating and lining work inspection.

3.2.3 *Level I, II, and III inspection, n*—indicative of the time in grade classification for personnel who perform coating and lining work inspection. Each level reflects progressive experience and responsibility. This term is separate from and differs distinctly from Coating Service Levels. The latter term reflects

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.