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Standard Guide for Establishing Qualifications for a Nuclear Coatings Specialist¹

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1. Scope

1.1 This guide delineates recommendations for development of procedures and criteria for designation of personnel as a Nuclear Coatings Specialist involved in work in nuclear facilities. The Nuclear Coatings Specialist is responsible for the technical aspects of the safety-related coatings program in a nuclear facility or organization.

1.2 This guide details the guidance provided in Guide D5144, USNRC Regulatory Guide 1.54 Revision 1, and EPRI Report 1003102.

1.3 It is the intent of this guide to provide several alternatives for designation of personnel as Nuclear Coatings Specialists.

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 and health practices and determine the applicability of regulatory requirements prior to use.*

2. Referenced Documents

- 2.1 *ASTM Standards:*²
D4537 Guide for Establishing Procedures to Qualify and Certify Personnel Performing Coating and Lining Work Inspection in Nuclear Facilities
D5144 Guide for Use of Protective Coating Standards in Nuclear Power Plants
- 2.2 *Other Documents:*³
ANSI N45.2.6 Qualifications of Inspection, Examination and Testing Personnel for Nuclear Power Plants
USNRC Regulatory Guide 1.54 Revision 1, Service Level I,

- II and III Protective Coatings Applied to Nuclear Power Plants, July 2000
EPRI Report 1003102 Guidance on Nuclear Safety-Related Coatings, Revision 1 (formerly TR-109937), November 2001
10CFR21 Reporting of Defects and Nonconformance
10CFR50.59 Changes, Tests and Experiments

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *safety-related coatings program, n*— the systematic and planned activities conducted at a nuclear power plant to ensure that the safety-related coatings perform all of their design functions.

4. Significance and Use

4.1 This guide applies to personnel technically responsible for the safety-related coatings program.

4.2 It is the responsibility of each nuclear facility or organization participating in a safety-related coatings program to ensure that only those personnel within their respective organizations who meet the requirements of this guide are designated as Nuclear Coatings Specialists.

5. General Duties and Responsibilities of a Nuclear Coatings Specialist

5.1 The duties of a Nuclear Coatings Specialist should be detailed in the facility safety-related coatings program and typically may include, but are not limited to:

5.1.1 Developing and managing the safety-related coatings program,

5.1.2 Developing and maintaining coatings inspection criteria,

5.1.3 Resolving and dispositioning issues that arise during the performance of coating work,

5.1.4 Performing or evaluating condition assessment data, or both, generating written assessment reports, and initiating the appropriate corrective actions,

5.1.5 Approving personnel performing coatings inspections (ensuring that coatings inspection is performed in accordance with the facility's or organization's Quality Assurance Program),

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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 U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.