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StandardTerminology Relating to Protective Coating and Lining Work for Power Generation Facilities¹

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ε¹ NOTE—An editorial correction was made in the Discussion of definition sag or sagging in May 2009.

1. Scope

1.1 This terminology covers terms and their definitions relevant to the use of protective coatings in nuclear power plants.

2. Referenced Documents

2.1 ASTM Standards:²

D16 Terminology for Paint, Related Coatings, Materials, and Applications

D1193 Specification for Reagent Water

D3843 Practice for Quality Assurance for Protective Coatings Applied to Nuclear Facilities

D3911 Test Method for Evaluating Coatings Used in Light-Water Nuclear Power Plants at Simulated Design Basis Accident (DBA) Conditions

D4227 Practice for Qualification of Coating Applicators for Application of Coatings to Concrete Surfaces

D4228 Practice for Qualification of Coating Applicators for Application of Coatings to Steel Surfaces

D4537 Guide for Establishing Procedures to Qualify and Certify Personnel Performing Coating and Lining Work Inspection in Nuclear Facilities

D4787 Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Substrates

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

D5161 Guide for Specifying Inspection Requirements for Coating and Lining Work (Metal Substrates)

D5162 Practice for Discontinuity (Holiday) Testing of Nonconductive Protective Coating on Metallic Substrates

D5962 Guide for Maintaining Unqualified Coatings (Paints)

Within Level I Areas of a Nuclear Power Facility (Withdrawn 2008)³

2.2 Other Documents:⁴

USNRC Regulatory Guide 8.8 Ensuring Occupational Radiation Exposure ALARA at Nuclear Power Stations 10CFR20.1 Standards for Protection Against Radiation

3. Terminology

acceptable coating or lining system, *n*—safety-related coating or lining system for which a suitability for application review that meets the plant licensing requirements has been completed and there is reasonable assurance that, when properly applied and maintained, the coating or lining will not detach under normal or accident conditions.

D5144

ALARA, *n*—concept of reducing radiation exposure to personnel to levels "as low as reasonably achievable," as defined in the USNRC Regulatory Guide 8.8 and 10CFR20.1(C).

blistering, *n*—formation of bubbles in a coating (paint) film. See D16 (take out "ability to resist"). D3911

boiling water reactor (**BWR**), *n*—reactor in which the water moderator-coolant is boiled directly within the reactor core and the pressure in the reactor vessel is only slightly greater than the steam turbine pressure. **D3911**

certification, *n*—written documentation of qualification.

checking, *n*—slight breaks in the film that do not penetrate to the previously applied coating or to the substrate.

chemical spray, *n*—solution of chemicals that could be used during a loss of coolant accident (LOCA) to suppress the incident, to scavenge fission products, and to return the facility to near-ambient conditions.

D3911

¹ This terminology 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 D33.92 on Definitions.

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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 The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, http://www.access.gpo.gov.