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Standard Specification for Sprayed Slurries, Foams and Indigenous Materials Used As Alternative Daily Cover for Municipal Solid Waste Landfills¹

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1. Scope

1.1 This specification defines procedures for determining the performance of certain landfill daily cover materials generally described as an alternative daily cover (ADC). This specification applies only to slurries that are sprayed, foams that are spray applied, or indigenous materials that are placed onto the working face of a Municipal Solid Waste Landfill (MSWLF) unit as a cover. It is not applicable to other types of landfills. It does not apply to geosynthetics used as an ADC.

1.2 This standard addresses the evaluation of an ADC and its ability to control fires and odors and whether or not the cover contains materials that present a threat to human health and the environment. The control of disease vectors and blowing litter can be evaluated by observation, and scavenging is controlled by security procedures and other operating practices.

1.3 *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

- D4982 Test Methods for Flammability Potential Screening Analysis of Waste
- D6523 Guide for Evaluation and Selection of Alternative Daily Covers (ADCs) for Sanitary Landfills
- E96/E96M Test Methods for Water Vapor Transmission of Materials
- G40 Terminology Relating to Wear and Erosion

¹ This specification is under the jurisdiction of ASTM Committee D35 on Geosynthetics and is the direct responsibility of Subcommittee D35.03 on Permeability and Filtration.

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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.

2.2 Other Documents:³

- U.S. Environmental Protection Agency Regulations, Resource Conservation and Recovery Act, Subtitle D, Code of Federal Regulations, Protection of the Environment, Title 40, Part 258, Subpart CB Operating Criteria, Section 258.21 Cover Material Requirements, pp. 393-94, revised as of July 1, 1995
- EPA Method 1311 Toxicity Characteristic Leaching Procedure
- EPA Method 1312 Synthetic Precipitation Leaching Procedure
- EPA Publication SW-846
- EPA Method 8260
- EPA Method 8270

3. Terminology

3.1 *Definitions*—For definitions of some terms used in this specification, refer to Terminology G40.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *daily cover, n*—6 in. (152.4 mm) of earthen material that is spread and compacted on the top and side slopes of compacted solid waste, at least at the end of each operating day, which satisfies the U.S. Environmental Protection Agency, Resource Conservation and Recovery Act, Subtitle D.

3.2.1.1 *alternative daily cover material, n*—a substance or material other than 6 inches (152.4 mm) of earthen material, used for daily cover, which satisfies the U.S. Environmental Protection Agency, Resource Conservation and Recovery Act, Subtitle D, performance standards for an ADC (see Guide D6523).

3.2.2 *foam, n*—a synthetic material sprayed and combined with air to form closed cell air pockets (see Guide D6523).

3.2.3 *indigenous, adj*—native to a particular region (see Guide D6523).

3.2.4 *leachate, n*—contaminated water resulting from the combination of waste with precipitation (see Guide D6523).

³ Available from the Superintendent of Documents, US Government Printing Office, Washington, DC 20402.