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Specification for Underground Enclosure Integrity

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1.0 Scope and Purpose

1.1 Scope

This standard covers conformance tests and requirements for the integrity of grade level enclosures containing telecommunication or other low voltage apparatus that may be exposed to the public.

1.2 Purpose

The purpose of this standard is to describe the requirements for a comprehensive integrity system for grade level enclosures providing long installation life and minimal maintenance.

2.0 References and Related Standards

2.1 Referenced standards

2.1.1 American Society for Testing and Materials (ASTM) (www.astm.org)

ASTM D543-95(2001), Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents

ASTM D570-98, Standard Test Method for Water Absorption of Plastics

ASTM D756-93, Practice for Determination of Weight and Shape Changes of Plastics Under Accelerated Service Conditions

ASTM D2444-99, Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)

ASTM G154-00, Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials

2.1.2 Rural Utilities Service (RUS) (www.usda.gov/rus)

RUS 7 CFR 1755.910 - 11/94 "Specification for Outside Plant Housings and Serving Area Interface Systems"

2.1.2 American Association of State Highway and Transportation Officials (AASHTO) (www.aashto.org)

Standard Specification for Highway Bridges, 16th Edition

3.0 Definitions

3.1 Grade level enclosure

Enclosures housing and protecting distribution equipment, including but not limited to: splice cases, excess cable, and construction or pull box equipment. These enclosures are typically non-metallic. They include a removable cover to support the anticipated loading requirements of the installation.