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Interface Practices Subcommittee

AMERICAN NATIONAL STANDARD

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Surge Withstand Test Procedure

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1. Introduction

1.1. Executive Summary

When evaluating broadband products for surge susceptibility to both power ports, and data ports it is useful to have a uniformed practice for this endeavor. The document seeks to outline such a practice.

1.2. Scope

This document describes a procedure for subjecting a broadband device to surge conditions as specified in IEEE C62.45. Ports shall be tested in compliance with IEEE C62.45 Category B Combination Waveform or IEEE C62.45 Category A Ring Waveform as specified for the Device Under Test.

1.3. Benefits

This procedure is intended to benefit the purchasers of products tested, by ensuring a uniformed method of evaluation.

1.4. Intended Audience

This document is intended for multiple audiences including product designers, test engineers and end users of products tested to this procedure.

1.5. Areas for Further Investigation or to be Added in Future Versions

There are no current recommendations for further investigations.

2. Normative References

The following documents contain provisions, which, through reference in this text, constitute provisions of this document. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision; and while parties to any agreement based on this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

2.1. SCTE References

- No normative references are applicable.

2.2. Standards from Other Organizations

- IEEE C62.45-2002 “IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000 V and Less) AC Power Circuits”

2.3. Published Materials

- No normative references are applicable.

3. Informative References

The following documents might provide valuable information to the reader but are not required when complying with this document.