



ATIS STANDARD

ATIS-0600338.2021

**Electrical Coordination of
Primary and Secondary Surge Protection
for Use in Telecommunications Circuits**

AMERICAN NATIONAL STANDARD FOR TELECOMMUNICATIONS



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Is an American National Standard developed by the **Network Electrical Protection (NEP)** Subcommittee under the **ATIS Sustainability in Telecom: Energy and Protection (STEP)**.

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American National Standard for Telecommunications

**Electrical Coordination of
Primary and Secondary Surge Protection
for Use in Telecommunications Circuits**

Alliance for Telecommunications Industry Solutions

Approved July 30, 2021

American National Standards Institute, Inc.

Abstract

Many types of communications devices contain secondary surge protection devices or components either integral to their designs or placed near the protected equipment. External primary surge protection devices or components, typically placed where the outside plant enters a structure, are normally used to prevent excessive currents and voltages from entering the structure or equipment, where they could cause injury or damage. This standard addresses the proper electrical coordination of primary devices or components and secondary surge protection devices or components.

Foreword

The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with the American National Standards Institute's (ANSI) requirements for an ANS. As such, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between providers, customers, and manufacturers. The Sustainability in Telecom: Energy and Protection (STEP) Committee – formerly the Network Interface, Power, and Protection Committee (NIPP) – engages industry expertise to develop standards and technical reports for telecommunications equipment and environments in the areas of energy efficiency, environmental impacts, power, and protection. The work products of STEP enable vendors, operators, and their customers to deploy and operate reliable, environmentally sustainable, energy efficient communications technologies. STEP is committed to promote engagement with national, regional, and international standards development organizations and forums that share its scope of work.

ANSI guidelines specify two categories of requirements: mandatory and recommendation. The mandatory requirements are designated by the word shall and recommendations by the word should. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently achievable as having distinct compatibility or performance advantages.

Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, STEP, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time it approved this document, STEP, which is responsible for the development of this Standard, had the following leadership:

- J. Fuller, STEP Chair and NEP Vice-Chair (AT&T)
- E. Gallo, STEP Vice-Chair (Ericsson)
- D. Ashton, NEP Chair (Lumen)

The Network Electrical Protection (NEP) subcommittee was responsible for the development of this document.

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