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IEEE: Your Source for NESC[®] Information

2007 National Electrical Safety Code[®]

<http://standards.ieee.org/nesc/>



IEEE and the NESC®

The IEEE is the primary resource for the **2007 National Electrical Safety Code® (NESC)**. This Code, which is used throughout the U.S. and in over 100 countries, offers practical guidance on safeguarding employees and the public when electrical supply and communication lines are designed, installed, operated and maintained.

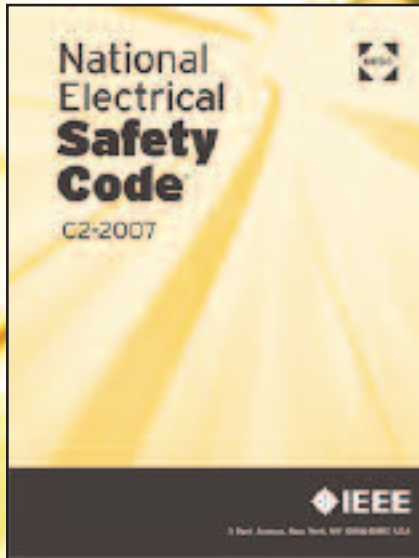
The NESC is a performance code that takes a consistent approach to the safety of overhead and underground electrical supply lines, power-related telephone and cable TV lines, and rail power and signal installations. It is a comprehensive document that covers all relevant topics from grounding, rotating equipment, storage batteries, transformers, conductors and circuit breakers to switchgear, clearances, cable terminations, safety signs, protective clothing and ladders.

The Code, which is updated every five years, has a long tradition. Prior to the creation of the Code and its review process, early electrical supply and communications systems were isolated and built without safety standards, causing problems as workers changed locales and as systems were linked. The U.S. National Bureau of Standards began creating the NESC in 1913 based on extensive research and public review – practices that continue today.

In 1972, the IEEE was designated the secretariat of the National Electrical Safety Code, which means the IEEE provides a home for the NESC Committee and supports its activities with a full range of administrative, logistical, publishing and other services.

IEEE: All the NESC® Support You Need

As secretariat for the National Electrical Safety Code®, the IEEE publishes the NESC and offers users comprehensive support in obtaining, understanding and working with the Code. The IEEE also offers a wealth of online resources dedicated to the Code.



» Getting the Latest Code

The NESC is updated every five years to reflect the evolving nature of the electrical and communications industries. To purchase the most current version, the 2007 National Electrical Safety Code, go to <http://standards.ieee.org/nesc/nescproducts.html>.

or

Email: customer-service@ieee.org

Phone: +1 800 678 4333 (in US and Canada);
outside of US and Canada +1 732 981 0060

» NESC Zone: Code Information When You Need It

The National Electrical Safety Code® Zone (<http://standards.ieee.org/nesc/>) is a one-stop, online NESC resource. It covers NESC Committee activities and provides the latest interpretations and developments in the Code. It also addresses NESC-related products and services, provides hot links to e-news sites dedicated to NESC coverage, and answers frequently asked questions about the Code. In addition, it has an interactive area for comments and questions, and offers a subscription to *NESC Update*, an e-newsletter on current NESC developments and industry applications.



The 2007 NESC® Handbook: Help in Using the Code

The 2007 NESC Handbook, Sixth Edition, edited by Allen Clapp*, is an essential companion to the Code. It gives users insight into what lies behind the NESC's rules and how to apply them. The *Handbook* was developed for use at many levels in the electric and communication industries, including those involved in system design, construction, maintenance, inspection, standards development and worker training.

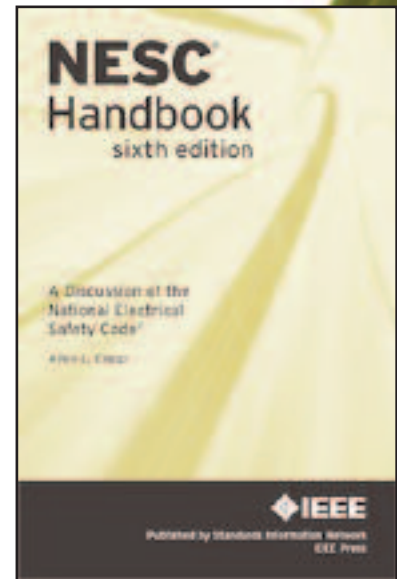
The *Handbook* also discusses how the NESC Committee has interpreted the rules in the Code and responded to change proposals during the past 85 years. This allows users to understand how questions they may have were dealt with in the past.

The *Handbook* looks at how the 2007 Code, with its many additions and revisions, differs from the 2002 version and what this means for users. The 2007 Code includes changes in a great many areas, including:

- » Rounding numbers found in the rules
- » Metal grounding poles
- » Starting voltages and clearances
- » Grounding and insulation for guys
- » Clearances between transmission lines
- » Multiplex cable attachment to neutral brackets
- » Loading due to freezing rain and wind
- » Fiber-reinforced polymer elements
- » Worker loads
- » Equipment bonding
- » Arc exposure analysis
- » Antenna radiation exposure limits

The 2007 edition also contains new appendices on loading and conductor movement, extreme wind loading, and maximum over-voltage at a work site. To purchase the 2007 NESC Handbook, Sixth Edition, go to <http://standards.ieee.org/nesc/nescproducts.html>.

* Allen Clapp is President of Clapp Research Associates PC Consulting Engineers and Clapp Research Inc. He has been part of and held many leadership positions in the NESC effort since 1971. He is, for instance, a past Chair of the NESC Main Committee and of the Interpretations Subcommittee. He is currently Chair of the Subcommittee on Scope, Application, Definition and Coordination and Secretary of the Subcommittee on Strengths and Loading.





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