

IEEE STANDARDS ASSOCIATION

Preprint Proposals for the 2017 Edition of the National Electrical Safety Code® (NESC®)



1 September 2014



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**Preprint Proposals
for the
2017 Edition
of the
National Electrical
Safety Code®**

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Foreword

This publication has been prepared to provide all interested persons an opportunity to study and comment on the Proposed Revisions to be incorporated into the 2017 Edition of the National Electrical Safety Code[®] (NESC[®]).

This Preprint provides the full text of each proposal to revise the 2012 Edition of the NESC together with the recommendation of the subcommittee that has cognizance of the rule addressed by the change proposal (CP). A change bar, located in the left hand margin, signifies the specific material that the various subcommittees each have approved for the inclusion in the revised Code.

The deadline for receipt of comments on the Proposal Revision contained herein is 1 May 2015. All comments shall be submitted through the website shown below. Only comments that are submitted electronically through the website will be accepted. For instructions, see:

<http://standards.ieee.org/about/nesc/erp/index.html>

Comments for each separate topic are to be uploaded separately and must use the template at the following URL:

<http://standards.ieee.org/about/nesc/erp/comment.dot>

When clicking the comment file link, if you don't see the file download window pop up, then right click on the link (.dot file) and save to your hard drive. Some browsers require a right click on the link.^a

In those cases where a single CP or a group of related CPs affect rules within the scopes of two or more subcommittees, the recommendations of all subcommittees affected are included. Where there are recommendations of two or more subcommittees, a recommendation by Subcommittee 1, which is responsible for coordination, is also included as the final proposed change in this phase of the NESC revision cycle.

Please note that the subcommittee recommendations herein are subject to further review and revision by the cognizant subcommittee following study and evaluation of all comments received in the Fall of 2015. The subcommittee final recommendation will be prepared for a February 2016 letter ballot of the National Electrical Safety Code Committee. It is anticipated that the approved text will be submitted for American National Standards Institute approval in May 2016, with publication of the NESC 2017 Edition on 1 August 2016.

If you have any questions, please contact Sue Vogel, IEEE Standards Association, at s.vogel@ieee.org.

PDF Instructions

This PDF has the following navigation options:

- 1) All CP numbers listed under Subcommittee Comments are linked to the actual CP. Use the hand tool to double click on the CP number and automatically be taken to the proposed change. This applies to “See CP” and “See action taken on CP” comments.
- 2) Previous View and Next View are toolbar buttons in the current version of Acrobat[®] Reader[®] software. Using them enables navigation between the Subcommittee Comments and the proposed change. If these buttons do not appear in the toolbar, follow instructions for adding them in the software being used.

^aFor Mac[®] users, you must have Microsoft[®] Word[®] for Mac to open the file.

Call for Comment on Specific NESC Change Proposals

The publication of the 2017 NESC Preprint is an important opportunity for all stakeholders to provide comment on the CPs received and initial recommendations made by the NESC Subcommittees. As such, the broadest possible input is solicited and all interested and affected parties are encouraged to provide comment. For several CPs, NESC Subcommittees have specifically requested public comment from affected interests:

CP4557, definition: communication space

While CP4557 was rejected by both Subcommittee 1 and Subcommittee 4, public comment is solicited on whether this definition is needed in the Code, since the phrase is used throughout the Code. This CP is also referenced in CPs 4584 and 4702.

CP4556, definition: supply space

While CP4556 was rejected by both Subcommittee 1 and Subcommittee 4, public comment is solicited on whether this definition is needed in the Code, since the phrase is used throughout the Code. This CP is also referenced in CPs 4584 and 4702.

CP4131, definition: wire gages

Comment from wire manufacturers is solicited regarding the clarification of Steel Wire Gauge.

CP4208, Rule 124A1

NESC Subcommittee 3 solicits specific comments regarding this CP from the IEEE Substation Committee Members, Working Group on IEEE Std 1427, Standard on Electrical Clearance Insulation Levels.

CP4701, Rule 215C2-C8

NESC Subcommittee 4 solicits specific comments on CP4701, which contains a complete reorganization of the guy insulator rules.

CP4702, Rule 220B1

NESC Subcommittee 4 solicits specific comment regarding the communication space above the supply space. CP4702 also deals with the relative level of supply and communication cables similar to CP4584 (Rule 224A).

CP4584, Rule 224A

NESC Subcommittee 4 solicits specific comments regarding the communication space above the supply space (similar to CP4702, Rule 220B1).

CP4683, Rule 230B

NESC Subcommittee 4, Working Group 4.1, specifically is seeking documented cases and comment where a line designed to meet existing or previous NESC clearance requirements created a safety issue with road clearances solely due to extreme ice loads on conductors.

CP4447, Table 232-1, Footnote 1

NESC Subcommittee 4 requests comments from railroad representatives on the proposed change to Footnote 1, Table 232-1.

CP4593, Rule 233B1

NESC Subcommittee 4 specifically requests comments regarding the current clearances between supply and trolley, and communications, when they are located at the same level on lines on different structures.

CP4305, Rule 234B1a

NESC Subcommittee 4 requests comment regarding the impact this proposed change will have to existing design standards.

CP4468, Rule 234, 234K

NESC Subcommittee 4 Working Group 4.2 was formed to address whether or not clearance rules are needed for irrigation systems. NESC Working Group 4.2 is seeking comments on (1) the need for the NESC to specify conductor or structure clearances from irrigation equipment, (2) what specific facilities are included within the category of “irrigation equipment,” (3) under what conditions are clearances to be maintained, and (4) what are appropriate clearances. See CP4468.

CP4198, Table 235-6

NESC Subcommittee 4 requests comment on CP4198, as it is not clear and does not appear to achieve the desired goal. See also CP4715.

CP4610, Rules 250C and 250D

NESC Subcommittee 5 desires industry review and comments for this CP, which would eliminate the present exemption for structures (including supported facilities) not exceeding 60 ft in height) from consideration of “Extreme wind loading” and “Extreme ice with concurrent wind loading.” For Rule 250 C (Extreme wind loading), the required wind speed for such structures would be limited to that which produces wind-blown debris (e.g., Category 1 hurricane).

CP4694, Rule: 277

Subcommittee 5 invites public comment on CP4694 regarding insulator loadings (and whether the load factors of Table 253-1 are to be including when selecting the insulator strength).

CP4722, Rule 354D

NESC Subcommittee 7 invites comment on CP4722, developed by SC7 Working Group 7.8 to address possible changes in Rule 354 as a result of concerns raised in IR 575.

CP4176, Rule 420G

A CP, CP4176, was submitted for the 2017 revision process focused on aligning Rule 420G—Liquid Cell Batteries—with Part 1, Section 14—Storage Batteries. Technology has introduced new battery systems, other than liquid cell batteries, that may pose additional safety considerations. A joint SC3/SC8 Working Group reviewed the current Rule 420G and has proposed revised language for public comment.

NESC Part 4

In response to OSHA 29 CFR 1910.269 and 1926 Subpart V final rulings published 11 April 2014, NESC Subcommittee 8 has created the following CPs to harmonize Part 4 with the updated OSHA rules:

CP4724, Rule 410A3

CP4725, Rule 420C

CP4726, Table 431-1

CP4727, Rule 441

CP4728, Table 441-1

CP4729, Tables 441-2, 441-3, and 441-4

NOTE: All NESC change proposals submitted are included in the Preprint. A number of proposals were withdrawn by the submitters during the NESC Subcommittee meetings that took place to review proposals. These withdrawn change proposals are no longer open for comment, since there was no action taken by the cognizant Subcommittee. They are included in the Preprint Proposals for the 2017 Edition of the NESC as a matter of historical record.

Procedure for Revising the National Electrical Safety Code

1. Preparation of Proposals for Amendment

NOTE: The procedures for the collection of change proposals (CPs) are subject to change as the revision of the 2017 Edition of the NESC approaches. Logon to the NESC Zone at <http://standards.ieee.org/nesc/> for updates.

1.1 A proposal may be prepared by any

- (a) Substantially interested person
- (b) Interested organization
- (c) NESC Subcommittee
- (d) Member of the NESC Committee or its subcommittees

1.2 CPs shall be submitted to Secretary of the National Electrical Safety Code Committee via the following URL: <http://standards.ieee.org/nesc/>, using the CP form on the website.

1.3 Each separate topic shall begin on a separate form and shall only address one rule, unless a change in a rule directly affects another rule. If a proposal references documents not readily available to all subcommittee members, sufficient copies of the referenced documents to supply the subcommittee must be furnished.

1.4 The proposal shall consist of

- (a) A statement, in NESC rule form, of the exact change, rewording, or new material proposed
- (b) Words to be deleted shall be indicated via strike-throughs, and words to be added shall be underlined.
- (c) The name of the submitter (organization or individual as applicable)
- (d) Supporting comments, giving the reasons why the NESC should be revised

(NOTE: A CP will not be accepted if the steps are not followed.)

2. The NESC Secretary will

- (a) Acknowledge receipt of proposals for revision
- (b) Distribute to each member of the appropriate NESC Subcommittee all of the proposals received, arranged in a coordinated sequence

3. Subcommittee recommendation

The NESC Subcommittee responsible will consider each proposal and take one or more of the following steps:

- (a) Endorse the proposal as received.
- (b) Prepare a proposed revision or addition for the NESC (this may be a coordination of several comments, or a committee consensus on a modification of a proposal).
- (c) Refer the proposal to a technical working group for detailed consideration.
- (d) Request coordination with other NESC Subcommittees.
- (e) Recommend rejection of the proposal, for stated reasons.

For each item, the responsible subcommittee shall prepare a voting statement, accompanied by all members' statements concerning their votes (cogent reasons are required for negative votes). Steps (c) and (d) are intended to result, eventually, in a proposal of category (b).

Action under steps (c) or (d) shall be completed and reported to the subcommittee before the end of the public review period if the item is to be included in the upcoming revision.

4. Preprint of proposals

The NESC Secretary shall organize and publish a Preprint of the proposed revisions including:

- (a) The original proposal as received from the submitter.
- (b) The recommendation of the subcommittee with respect to the proposal (including a voting statement and subcommittee members' statements).
- (c) Copies of submittal form for comments.

The Preprint shall be distributed to all members of NESC Subcommittees and representatives of organizations comprising the NESC Committee. Copies shall be available for sale to other interested parties. Notice of availability of the Preprint shall be submitted to ANSI for publication in *ANSI Standards Action*. The Preprint shall carry information on how to submit comments on the proposals and the final date for such submissions.

5. Final processing of proposed revisions and comments

5.1 Following the public review period, the Secretary shall organize and distribute for subcommittee consideration all comments received electronically via the following URL: <http://standards.ieee.org/nesc/rp/welcome.html>.

5.2 The Preprint and the comments received shall be reconsidered by the subcommittees. No new CPs may be considered.

- (a) The subcommittee may recommend adoption or rejection of the proposal by majority vote.
- (b) When extended technical consideration or resolution of differing or conflicting points of view is necessary, the subcommittee shall refer the problem to a working group of the subcommittee for proposed resolution. If expeditious resolution is not possible, the subject shall be held on the docket.

Each working group shall provide, to its parent subcommittee, recommendations on matters considered as a result of subcommittee referrals under items 3(c) and 5.2(b).

Each subcommittee shall prepare a report showing its proposed revisions and all items held on the docket together with a plan for their disposition.

5.3 The Secretary shall provide commenters with copies of actions taken on the rules affected by their comments and shall make all such reports available for examination upon request.

6. Final approval

6.1 Based upon the subcommittee reports, the Secretary shall prepare a draft of the revision of the NESC and distribute copies to

- (a) The NESC Committee for approval by a six-week letter ballot
- (b) The American National Standards Institute Board of Standards Review for concurrent 60-day public review

6.2 Comments received in response to the letter ballot and public review shall be referred to the Executive Subcommittee for resolution or referral to the appropriate subcommittee. Those items on which consensus cannot be reached shall be referred to the appropriate subcommittee for consideration during the next revision cycle. Unless a consensus for revision is established, the requirements of the current edition shall carry over to the proposed edition.

Committee Membership

Main Committee

Michael J. Hyland, Chair **James R. Tomaseski, Vice Chair**

Organization represented	Voting position	Name	Employed by
Chair	(Principal)	Michael J. Hyland	American Public Power Association
AEIC	(Principal)	Swapan Dey	NSTAR Electric & Gas Corp.
APTA	(Principal)	George S. Pristach	Parsons Brinckerhoff
APPA	(Principal)	Alex Hofmann	American Public Power Association
AEIC	(Principal)	Swapan Dey	NSTAR Electric & Gas Corp.
ATIS	(Principal)	Lawrence M. Slavin	Outside Plant Consulting Services, Inc.
BPA	(Principal)	Danna Liebhaber	Bonneville Power Administration
EEI	(Principal)	Edward Harrel	Oncor Electric Delivery
	Alternate	Eric Engdahl	American Electric Power
IBEW	(Principal)	James R. Tomaseski	IBEW
IEC	(Principal)	James C. Tuggle	Malpasco Group Inc.
	(Alternate)	Robert W. Baird	Independent Electric Contractors
	(Alternate)	John Masarick	Independent Electric Contractors
IEEE	(Principal)	Nelson G. Bingel	Ossose Engineering Services Inc.
	(Alternate)	Walter D. Jones	Intermountain Rural Electric Association
Int'l Munic Sign Assn.	(Principal)	Jeffrey Knight	International Municipal Signal Association
NARUC	(Principal)	Vacant	
NCTA	(Principal)	Vacant	National Cable Television Assoc.
NECA	(Principal)	Stephen F. Tomasi	Newkirk Electric
NEMA	(Principal)	Vincent Baclawski	National Electrical Manufacturers Assoc.
NRECA	(Principal)	Robert Harris	National Rural Electric Cooperative Assoc.
	(Alternate)	Robert D. Saint	National Rural Electric Cooperative Assoc.
NSC	(Principal)	Kenneth Schriener	Western Area Power Administration
NSPE	(Principal)	Robert S. Fuller	Texas-New Mexico Power Co.
RUS	(Principal)	Georg A. Shultz	Rural Utilities Service
SCTE	(Principal)	Timothy Cooke	Times Fiber Communications, Inc.
TVA	(Principal)	Clayton L. Clem	TVA Power System Operations
	(Alternate)	Stephen Cantrell	TVA Power System Operations
WAP	(Principal)	Patrick Nies	Western Area Power Administration

Subcommittee 1
Purpose, Scope, Application, Definitions, and References
(Sections 1, 2, and 3)

Charles C. Bleakley, *Chair*

Mickey Gunter, *Secretary*

Name	Voting position	Employed by	Organization represented
			Interpretations
Donald E. Hooper	(Principal)	ES&C, Inc.	SC
Michael J. Hyland	(Principal)	APPA	Main
Charles C. Bleakley	(Principal)	Georgia Power, Consultant	SC1
John B. Dagenhart	(Principal)	Clapp Research Associates, P.C.	SC2
Ewell T. Robeson	(Alternate)	EEI Consultant	SC2
D. Jack Christofersen	(Principal)	CeCe	SC3
David Marne	(Alternate)	Marne & Associates	SC3
Eric K. Engdahl	(Principal)	American Electric Power	SC4
Mickey Gunter	(Alternate)	Georgia Power, Consultant	SC4
Nelson G. Bingel	(Principal)	Osmose Engineering Services Inc.	SC5
Bruce Freimark		American Electric Power	SC5
Charles C. Bleakley	(Principal)	Georgia Power, Consultant	SC7
Lauren E. Gaunt	(Alternate)	Northeast Utilities	SC7
James R. Tomaseski	(Principal)	IBEW	SC8
Samuel Stonerock	(Alternate)	Southern California Edison Co.	SC8

Subcommittee 2
Grounding Methods
(Section 9)

John B. Dagenhart, *Chair*

Ewell T. Robeson, *Secretary*

Name	Voting position	Employed by	Organization represented
Bill Galloway	(Principal)	Colorado Springs Utilities	APPA
Trevor Bowmer	(Principal)	Ericsson	ATIS
Donald Guinn	(Principal)	Duke Energy	EEI
Michael M. Dixon	(Principal)	Ameren	EEI
Robert Molde	(Principal)	Xcel Energy	EEI
Justin Rush	(Alternate)	Westar Energy	EEI
Lauren E. Gaunt	(Alternate)	Northeast Utilities	EEI
Ron Wellman	(Alternate)	American Electric Power	EEI
Timothy P. Hayden	(Alternate)	National Grid	EEI
Ewell T. Robeson	(Principal)	EEI Consultant	EEI
James R. Tomaseski	(Principal)	IBEW	IBEW
Donald W. Zipse	(Principal)	Zipse Electrical Engineering Inc.	IEEE/IAS

Name	Voting position	Employed by	Organization represented
John B. Dagenhart	(Principal)	Clapp Research Associates, P.C.	IEEE/PES/T&D
Steven Johnson	(Principal)	Johnson Telecom LLC	NCTA
Roger J. Montambo	(Principal)	Galvan Industries	NEMA
Bob Dew	(Principal)	Hi-Line Engineering	NRECA
Robert Harris	(Alternate)	National Rural Electric Cooperative Assoc.	NRECA
Ted Pejman	(Principal)	Rural Utilities Service	RUS
Timothy Cooke	(Principal)	Times Fiber Communications, Inc.	SCTE
Keith Reese	(Principal)	Georgia Power Company	SEEX
John Bruce	(Alternate)	Dominion Virginia Power	SEEX

Subcommittee 3
Electric Supply Stations
(Sections 10–19)

D. Jack Christofersen, *Chair*

David Marne, *Secretary*

Name	Voting position	Employed by	Organization represented
James Houston	(Principal)	Alabama Power Company	AEIC
Kevin Robinson	(Principal)	Niagara Mohawk Power Corp.	EEI
Kenneth Posey	(Alternate)	American Electric Power	EEI
Timothy Jyrkas	(Alternate)	Xcel Energy	EEI
James R. Tomaseski	(Principal)	IBEW	IBEW
D. Jack Christofersen	(Principal)	CeCe	IEEE/PES/SUB
W. Bruce Dietzman	(Principal)	Oncor Electric Delivery Company	IEEE/PES/SUB
Gregory Wolven	(Principal)	WIN Energy REMC	NRECA
Robert D. Saint	(Alternate)	National Rural Electric Cooperative Assoc.	NRECA
David J. Marne	(Principal)	Marne & Associates	NSPE
Mehrdad Eskandary	(Principal)	USDA/Rural Utilities Service	RUS
Lou Riggs	(Alternate)	USDA/Rural Utilities Service	RUS
Mark A. Konz	(Principal)	Gulf Power Company	SEEX
Christopher A. Carson	(Alternate)	Georgia Power Company	SEEX

**Subcommittee 4
Overhead Lines—Clearances
(Sections 20, 21, 22, and 23)**

Eric K. Engdahl, *Chair*

Mickey B. Gunter, *Secretary*

Name	Voting position	Employed by	Organization represented
Charles C. Bleakley	(Principal)	Georgia Power, Consultant	AEIC
Keith Reese	(Alternate)	Georgia Power Company	AEIC
Michael Dyer	(Principal)	Salt River Project	APPA
Lawrence M. Slavin	(Principal)	Outside Plant Consulting Services, Inc.	ATIS
Trevor Bowmer	(Principal)	Ericsson	ATIS
Dennis Henry	(Alternate)	Ericsson	ATIS
Danna Liebhaber	(Principal)	Bonneville Power Administration	BPA
Allen L. Clapp	(Principal)	Clapp Research Associates, P.C.	Consultant
Eric K. Engdahl	(Principal)	American Electric Power	EEI
Alan Kuipers	(Principal)	Consumer Energy	EEI
Jeffrey Steiner	(Principal)	National Grid	EEI
Mickey B. Gunter	(Principal)	Georgia Power, Consultant	EEI
Barrett Thomas	(Principal)	American Electric Power	EEI
David D’Hooge	(Alternate)	Commonwealth Edison Co.	EEI
Jeffrey Steiner	(Alternate)	National Grid	EEI
Frank Tucker	(Alternate)	American Electric Power	EEI
Joseph Renowden			Emeritus
James R. Tomaseski	(Principal)	IBEW	IBEW
Marc Candels	(Principal)	Candels Consulting	IEC
Jason Jenks	(Principal)	Intermountain Rural Electric Assoc	IEEE/IAS
Douglas Proctor	(Principal)	Proctor Engineering Services	IEEE/PES
Darren Gill	(Principal)	Pennsylvania Public Utility Comm.	NARUC
Vacant	(Principal)	National Cable & Telecommunication Assoc.	NCTA
Steven Mace	(Alternate)	National Cable & Telecommunication Assoc.	NCTA
Ernest H. Neubauer	(Principal)	Southern Rivers Energy National Rural Electric Cooperative Assoc.	NRECA
Robert Harris	(Alternate)	Assoc.	NRECA
David J. Marne	(Principal)	Marne And Associates, Inc.	NSPE
Gerald Moore	(Principal)	RUS	RUS
Donald Junta	(Alternate)	RUS	RUS
Joseph J. White	(Principal)	KCI Technologies	SEEX
Donnie Trivitt	(Alternate)	OG&E Electric Services	SEEX
Branch Davis	(Alternate)	Entergy Corporation	SEEX

Subcommittee 5
Overhead Lines—Strength and Loading
(Sections 24, 25, and 27)

Name	Nelson G. Bingel, <i>Chair</i>		Bruce Freimark, <i>Secretary</i>	
	Voting position	Employed by	Organization represented	
John Busel	(Principal)	ACMA	ACMA	
Scott Holmes	(Alternate)	Utility Composite Solutions Intl	ACMA	
Dustin Troutman	(Alternate)	Creative Pultrusions Inc.	ACMA	
Helen Chen	(Principal)	American Iron and Steel Institute	AISI	
Richard Aichinger	(Alternate)	Valmont-Newmark	AISI	
Christopher Jones	(Principal)	Springfield City Utilities	APPA	
Joseph Rempe	(Principal)	Tacoma Power	APPA	
Lawrence M. Slavin	(Principal)	Outside Plant Consulting Services, Inc.	ATIS	
Leon Kempner	(Principal)	Bonneville Power Administration	BPA	
Allen L. Clapp	(Principal)	Clapp Research Associates, P.C.	Consultant	
Bruce Freimark	(Principal)	American Electric Power	EI	
C. Jerry Wong	(Principal)	Florida Power & Light	EI	
Edward Harrel	(Principal)	Oncor Electric Delivery Company	EI	
Jeffery Erdle	(Principal)	Duke energy	EI	
G. Paul Anundson	(Principal)	National Grid	EI	
Robert O. Kluge	(Principal)	American Transmission Company	EI	
Ronald Cotant	(Principal)	American Electric Power	EI	
John-Chung Ng	(Alternate)	American Electric Power	EI	
Bryan L. Williams	(Alternate)	Oncor Electric Delivery Company	EI	
Prasad Yenumula	(Alternate)	Duke Energy	EI	
Mark Jurgemeyer	(Principal)	Stanley Consultants	IEEE/IAS	
Nelson G. Bingel	(Principal)	Osiose Utilities Services, Inc.	IEEE/PES	
Andrew Schwalm	(Principal)	Victor Insulators, Inc.	IEEE/PES	
Donald Soderberg, Jr.	(Principal)	Consumers Energy	IEEE/PES	
Michael Garrels	(Principal)	Xcel Energy	IEEE/PES	
H. M. Rollins	(Principal)	H. M. Rollins Company, Inc.	NAWPC	
Jason Rollins	(Alternate)	H. M. Rollins Company, Inc.	NAWPC	
Jacob Joplin	(Principal)	Carteret-Craven Electric Cooperative	NCEMC	
Russell Guerry	(Alternate)	Edgecombe-Martin County EMC	NCEMC	
Steven Johnson	(Principal)	Johnson Telecom LLC	NCTA	
Steven Mace	(Alternate)	National Cable & Telecommunication Assoc.	NCTA	
Robert Harris	(Principal)	National Rural Electric Cooperative Association	NRECA	
Robert S. Fuller	(Principal)	Texas-New Mexico Power Co.	NSPE	

Name	Voting position	Employed by	Organization represented
Grant Glaus	(Alternate)	Columbia Rural Electric Coop	NSPE
Otto J. Lynch	(Principal)	Power Line Systems, Inc.	Consultant
Thomas Haire	(Principal)	Rutherford EMC	REMC
Wilson Johnson	(Principal)	USDA/Rural Utilities Services	RUS
Timothy Cooke	(Principal)	Times Fiber Communications, Inc.	SCTE
Wade Shultz	(Principal)	Alabama Power Company	SEEX
Frank Agnew	(Principal)	Alabama Power Company	SEEX
David West	(Alternate)	Duke Energy	SEEX
Richard Stanford	(Principal)	TRC Companies	Consultant
Joseph Procopio	(Alternate)	TRC Companies	Consultant
Derrick Slayman	(Principal)	McFarland Cascade	TWC
Bob Reisdorf	(Alternate)	Laminated Wood Systems, Inc.	TWC
Clayton L. Clem	(Principal)	TVA Transmission	TVA
Stephen Cantrell	(Alternate)	TVA Transmission	TVA
Douglas Hanson	(Principal)	Western Area Power Administration	WAPA

**Subcommittee 7
Underground Lines
(Sections 30–39)**

Charles C. Bleakley, Chair

Lauren E. Gaunt, Secretary

Name	Voting position	Employed by	Organization represented
Michael Dyer	(Principal)	Salt River Project	APPA
George S. Pristach	(Principal)	Parsons Brinckerhoff	APTA
Lawrence M. Slavin	(Principal)	Outside Plant Consulting Services, Inc.	ATIS
Trevor Bowmer	(Principal)	Telcordia	ATIS
Dennis Henry	(Alternate)	Telcordia	ATIS
James D. Mars	(Principal)	Genesis Engineering, Inc.	Consultant
O. C. Amrhyn	(Principal)	OPEC	Consultant
Dennis B. Miller	(Principal)	Exelon Energy Delivery	EEI
John C. Spence	(Principal)	Baltimore Gas & Electric Co.	EEI
Lauren E. Gaunt	(Principal)	Northeast Utilities	EEI
Donald Guinn	(Alternate)	Progress Energy	EEI
Gregory Obenchain	(Alternate)	Edison Electric Institute	EEI
Jonathan Gonynor	(Alternate)	National Grid	EEI
Katie Croteau	(Alternate)	National Grid	EEI
Raymond Pregler	(Alternate)	American Electric Power	EEI
John Korman	(Principal)	Verizon Network Services	EIA
Percy E. Pool	(Alternate)	Verizon Network Services	EIA
James R. Tomaseski	(Principal)	IBEW	IBEW

Name	Voting position	Employed by	Organization represented
James Cowan	(Principal)	Wakker Engineering	IEC
Ewell T. Robeson	(Principal)	Progress Energy	IEEE
Richard S. Vencus	(Principal)	Northeast Utilities	IEEE
Christopher Austin	(Principal)	Time Warner Cable, NYC-Liberty	NCTA
Rex Bulinger	(Alternate)	National Cable Television Association	NCTA
Steven Mace	(Alternate)	National Cable & Telecommunication	NCTA
Monte Szendre	(Principal)	Wilson Construction Company Inc.	NECA
Michael C. Pehosh	(Principal)	National Rural Electric Cooperative Assoc.	NRECA
Robert D. Saint	(Alternate)	National Rural Electric Cooperative Assoc.	NRECA
Trung Hiu	(Principal)	Rural Development-Electric Program	RUS
Timothy Cooke	(Principal)	Times Fiber Communications, Inc.	SCTE
Charles C. Bleakley	(Principal)	Retired	SEEX
Mickey B. Gunter	(Principal)	Engineering Consultant	SEEX
Michael Kosinski	(Alternate)	Appalachian Power Company	SEEX

Subcommittee 8
Work Rules
(Sections 40–44)

James R. Tomaseski, Chair

Samuel Stonerock, Secretary

Name	Voting position	Employed by	Organization represented
Bill McGough	(Principal)	Alabama Power Company	AEIC
Bernie D. (Donnie) Bell	(Alternate)	Gulf Power Company	AEIC
Brent McKinney	(Principal)	City Utilities of Springfield	APPA
Kevin Dody	(Alternate)	City Utilities of Springfield	APPA
Trevor Bowmer	(Principal)	Ericsson	ATIS
Dennis Henry	(Alternate)	Ericsson	ATIS
Charles W. Grose	(Principal)	Consultant	Consultant
Tommy Russell	(Principal)	American Electric Power	EI
Michael Granata	(Principal)	AEP	EI
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Charles Shaw	(Principal)	Alabama Power Company	SEEX
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AAR—Association of American Railroads
 ACMA—American Composites Manufacturing Association
 AEIC—Association of Edison Illuminating Companies
 AISI—American Iron and Steel Institute
 APPA—American Public Power Association
 APTA—American Public Transit Association
 ATIS—Alliance for Telephone Industry Solutions
 AWWA—American Wood Preservers Association
 BPA—Bonneville Power Admin., US Dept. of Energy
 EEI—Edison Electric Institute
 EIA—Electronic Industries Association
 IBEW—International Brotherhood of Electrical Workers
 IEC—Independent Electrical Contractors
 IEEE—Institute of Electrical and Electronics Engineers, Inc.
 IMSA—International Municipal Signal Association
 NARUC—National Association of Regulatory Utility Commissioners

NCEMC—North Carolina Electric Cooperatives
 NCTA—National Cable Television Association
 NECA—National Electrical Contractors Association
 NEMA—National Electrical Manufacturers Association
 NRECA—National Rural Electric Cooperative Association
 NSC—National Safety Council
 NSPE—National Society of Professional Engineers
 NUCA—National Utilities Contractor Association
 NWPPA—Northwest Public Power Association
 OSHA—Occupational Safety and Health Administration
 REMC—Rutherford Electric Membership Corporation
 RUS—Rural Utilities Services, US Dept. of Agriculture
 SCTE—Society of Telecommunication Engineers
 SEEX—Southeastern Electric Exchange
 TVA—Tennessee Valley Authority
 TWC—Treated Wood Council
 WAPA—Western Area Power Administration, US Dept. of Energy

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NESC Rules

Group 1. General

Section 1. Introduction to the National Electrical Safety Code

Revised Text

CP4231

Part: 1 Section: 1 Rule: 010

Submitter

Jim Collins

Proposed Change

Revise Rule 010 as follows:

- A. The purpose of the NESC is the practical safeguarding of persons, ~~utility facilities, and affected property~~ during the installation, operation, and maintenance of electric supply and communication facilities, under specified conditions.

NOTE 1: NESC rules are founded upon the fundamental principles used for safety of utility facilities, and the NESC is globally accepted as good engineering practice.

NOTE 2: NESC rules are intended to provide a standard of safe practices that can be adopted by public utilities, private utilities, state or local utility commissions or public service commissions, or other boards or bodies having control over safe practices employed in the design, installation, operation, and maintenance of electric supply, communication, street and area lighting, signal, or railroad utility facilities.

- B. NESC rules contain the basic provisions, under specified conditions, that are considered necessary for the safeguarding of:
1. The public,
 2. Utility workers (employees and contractors);
 - 3- ~~Utility facilities,~~
 - 4- ~~Electric supply and communication equipment connected to utility facilities, and~~
 - 5- ~~Other facilities or premises adjacent to or containing utility facilities.~~
- C- ~~NESC rules are intended to provide a standard of safe practices that can be adopted by public utilities, private utilities, state or local utility commissions or public service commissions, or other boards or bodies having control over safe practices employed in the design, installation, operation, and maintenance of electric supply, communication, street and area lighting, signal, or railroad utility facilities.~~

~~D- C.~~ This Code is not intended as a design specification or as an instruction manual.

Supporting Comment

The wording in this rule, as revised in 2012, expands the stated purpose of the NESC to include safeguarding of inanimate property as well as persons. The change greatly expands the application of the rules. By including “safeguarding of ... utility facilities, and affected property” with persons, the revised rule effectively equates safety of things to safety of persons. This is a significant departure from the historical application of the Code.

In supporting this revision in the 2012 revision cycle, the subcommittee’s supporting statement suggested that the requirement for safeguarding things already existed. We disagree. Where rules have historically included