

PREPRINT PROPOSALS FOR THE 2028 EDITION OF THE

NATIONAL ELECTRICAL SAFETY CODE® (NESC®)

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Preprint Proposals for the 2028 Edition of the National Electrical Safety Code® (NESC®)

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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 2028 Edition of the National Electrical Safety Code® (NESC®).

This Preprint provides the full text of each proposal to revise the 2023 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 each of the various subcommittees has approved for the inclusion in the revised Code.

The deadline for receipt of comments on the proposed revisions contained herein is 24 March 2026. Only comments that are submitted electronically through the website will be accepted. Comments for each separate topic are to be uploaded separately. Instructions, FAQs, and additional information can be found on the NESC website at:

https://standards.ieee.org/products-programs/nesc/program/process/

In cases where a single CP or a group of related CPs affects rules within the scope of two or more subcommittees, the recommendations of all affected subcommittees are included. Where there are recommendations of two or more subcommittees, a recommendation by NESC 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 2026. The subcommittees' final recommendations will be prepared for a February 2027 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 2027, with publication of the NESC 2028 Edition on 1 August 2027.

If you have any questions, please contact NESC-support@ieee.org at the IEEE Standards Association.

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 click on the CP number and be automatically taken to the proposed change. This applies to "See CP" and "See action on CP" comments.

2) Previous View and Next View are toolbar buttons in the current versions of Adobe® Acrobat® software. Using them enables navigation between the Subcommittee Comments and the proposed change. If these buttons do not appear in the toolbar, follow the instructions for adding them in the software being used.

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Call for Comment on Specific NESC Change Proposals

The publication of the 2028 NESC Preprint is an important opportunity for all stakeholders to provide comments on the Change Proposals (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 comments.

For the following CPs, the NESC Subcommittees have specifically requested public comment from affected interests.

Part 2: Safety Rules for the Installation and Maintenance of Overhead Electric Supply and Communication Lines

CP6007
CP6008
CP6026
CP6117
CP6292
CP6317
CP6327
CP6581

Part 3: Safety Rules for the Installation and Maintenance of Underground Electric Supply and Communication Lines

CP6253

Part 5: Safety Rules for the Installation and Maintenance of Electric Generating Stations and Equipment

The new Part 5 was developed to focus on developing and enhancing procedures to safeguard persons during the installation, operation, or maintenance of an electric generating station and their associated equipment. These responsibilities used to be part of Subcommittee 3, which deals with electrical substations. Part 5 is placing particular emphasis on renewable energy, grid storage batteries, and distributed energy resources. The submitted change proposals produce updates to the Code in these areas.

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Procedure for revising the NESC

1. Preparation of proposals for amendment

   NOTE: The procedures for the collection of change proposals are subject to change for the 2028 NESC revision cycle. See https://standards.ieee.org/products-programs/nesc/program/process/ 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 Change proposals shall be submitted to the Secretary of the National Electrical Safety Code Committee via the NESC's electronic revision process found at https://standards.ieee.org/products-programs/nesc/program/process/.

   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 strikethroughs, 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 change proposal will not be accepted if these 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.

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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.

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

a. The subcommittee may recommend acceptance 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 4.2(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.

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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 Main Committee for approval by a 30-day letter ballot

b. The ANSI Board of Standards Review for concurrent 45-day public review

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.

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NESC Main Committee Membership

George Ahros, *Chair*
Mark Nelson, *Vice Chair*
Nelson G. Bingel III, *Past Chair*

Representing Org.	*Classification*	*Status*	*Name*	*Company*
AAR	OU	Principal	Robert Verhelle	HNTB Corporation
AEIC	EPR	Principal	Swapan Dey	Eversource Energy
APPA	EPU	Principal	Gregory Obenchain	American Public Power Association
APPA	EPU	Alternate	Michael Hyland	American Public Power Association
APTA	OU	Principal	Nathan Leventon	American Public Transit Association
APTA	OU	Alternate	Bryan Sooter	American Public Transit Association
ATIS	CPR	Principal	Trevor Bowmer	Bunya Telecom Consulting LLC
ATIS	CPR	Alternate	Lawrence M. Slavin	Outside Plant Consulting Services, Inc
BPA	EPU	Principal	Mark Nelson	Bonneville Power Administration
BPA	EPU	Alternate	Brett Bowers	Bonneville Power Administration
Chair	—	Principal	George Arhos	IBEW
EEI	EPR	Principal	G. Paul Anundson	—
EEI	EPR	Alternate	Aaron Darby	American Electric Power
Federated Rural Elec	I	Principal	Chad Knutson	Federated Rural Electric Insurance Exchange
Federated Rural Elec	I	Alternate	Jason Springs	Federated Rural Electric Insurance Exchange
IBEW	ECL	Principal	Mark Baker	IBEW
IBEW	ECL	Alternate	Mark MacNichol	IBEW
IEC	CEC	Alternate	Jason Todd	Independent Electrical Contractors, Inc.
IMSA	OU	Principal	Jeffrey G. Knight	IMSA Educational Foundation
NECA	CEC	Principal	Mike Cannady	NECA
NECA	CEC	Alternate	Michael Johnston	NECA
NECA	CEC	Alternate	Mike Starner	NECA
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NEMA	M	Alternate	Bill Brown	NEMA
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Power Line Systems	PS	Principal	Otto Lynch	Power Line Systems
Past Chair	—	Principal	Nelson Bingel	Nelson Research, LLC
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SEIA	EPR	Principal	Greg Ball	Tesla
TVA	EPU	Principal	Steve Cantrell	TVA Transmission
VMDAEC	PS	Alternate	Charles Ward Jr.	Central Virginia Electric Cooperative

Key to Classifications:

CEC-Consulting, Engineering, and Construction
CPR-Communications Private Sector
CPU-Communications Public Sector
ECL-Electric and Communication Labor
EPR-Electric Private Sector
EPU-Electric Public Sector
GOV-Government
I-Insurance
IEO-Independent Electric Operators
IM-Individual Members
M-Manufacturers
OU-Other Utilities
PS-Professional Societies

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Subcommittee 1
Purpose, Scope, Application, Definitions, and References
Section/Part: Sections 1, 2, 3; Appendix E

Samuel Stonerock, *Chair*
Mickey B. Gunter, *Secretary*

Representing Org.	*Status*	*Name*	*Company*
Interpretations SC	Principal	Keith Reese	Georgia Power Company
SC2	Principal	Ron Wellman	American Electric Power
SC2	Alternate	Michael Renman	XCel Energy
SC3	Principal	William Munn	Southern Company
SC3	Alternate	Christopher A. Carson	Southern Company
SC4	Principal	Mickey B. Gunter	Engineering consultant
SC4	Alternate	Eric O'Brien	Crown Castle
SC5	Principal	Mark Jurgemeyer	Intermountain Rural Electric Association
SC5	Alternate	Aaron Darby	American Electric Power
SC7	Principal	Lauren E. Gaunt	Consultant
SC7	Alternate	Ashley Eanes	Duke Energy
SC8	Principal	Samuel Stonerock	Southern California Edison Company
SC8	Alternate	Brent McKinney	TFB Engineering
SC9	Principal	James Houston	Southern Company
SC9	Alternate	William Munn	Southern Company
Main	Principal	George Arhos	IBEW
Main	Alternate	Mark Nelson	Bonneville Power Administration

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Subcommittee 2
Grounding Methods
Section/Part: Section 9

Ron Wellman, *Chair*
Michael Renman, Secretary

Representing Org.	*Status*	*Name*	*Company*	*Classification*
APPA	Principal	Scott Woodward	Grand River Dam Authority	EPU
ATIS	Principal	Trevor Bowmer	Bunya Telecom Consulting LLC	CPR
ATIS	Alternate	Ernie Gallo	Telcordia Technologies, Inc.	CPR
EEI	Principal	Michael Renman	XCel Energy	EPR
EEI	Principal	Ron Wellman	American Electric Power	EPR
EEI	Principal	Steven Burlison	Duke Energy	EPR
EEI	Alternate	Prudhvi Bhattiprolu	AEP	EPR
EEI	Alternate	William Shannon	AEP	EPR
EEI	Alternate	Xuan Wu	EEI	EPR
IBEW	Principal	Mark Baker	IBEW	ECL
IBEW	Alternate	Mark MacNichol	IBEW	ECL
NECA	Principal	Mike Starner	NECA	CEC
NECA	Principal	Nathan Boutwell	NECA	CEC
NEMA	Principal	Lee Herron	Burndy LLC	GEN/M
NEMA	Alternate	Dale Boling	NEMA	GEN/M
NRECA	Principal	Andrew Schwalm	Victor Insulators, Inc.	EPU
NRECA	Principal	David Farmer	NRECA	EPU
NRECA	Alternate	Ravindra Singh	NRECA	EPU
Palmer Engineering	Principal	John Palmer	University of Utah ECE	CEC
RUS	Principal	Trung Hiu	Rural Development-Electric Program	GOV
RUS	Alternate	Donald Junta	USDA	GOV
SCTE	Principal	Timothy Cooke	Amphenol Broadband Solutions	GEN/M
SEE	Principal	Keith Reese	Georgia Power Company	EPR
SEE	Alternate	John Bruce	Dominion Energy Virginia	EPR
—	Principal	Lauren E. Gaunt	Consultant	CEC

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EPR-Electric Private Sector
EPU-Electric Public Sector
GEN/M-General/Manufacturers
GOV-Government

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Subcommittee 3
Electric Supply Stations
Section/Part: Part 1, Sections 10–19

William Munn, *Chair*
Christopher A. Carson, *Secretary*

Representing Org.	*Status*	*Name*	*Company*	*Classification*
AAR	Principal	William Pollak	NJ Transit	GEN/OU
AEIC	Principal	William Munn	Southern Company	EPR
AEIC	Alternate	Stacy Leger	AEIC	EPR
APPA	Principal	Joel Valley	APPA	EPU
EEI	Principal	Matt Sigg	AEP/EEI	EPR
EEI	Alternate	Henry Lam	EEI	EPR
EEI	Alternate	Javier Munoz	EEI	EPR
EEI	Alternate	Prudhvi Bhattiprolu	AEP	EPR
EEI	Alternate	Youssef El-Barrad	EEI	EPR
El Paso Electric Co.	Principal	David Guzman	El Paso Electric Company	EPR
IBEW	Principal	Mark MacNichol	IBEW	ECL
IBEW	Alternate	Mark Baker	IBEW	ECL
Minnesota Power	Principal	Andrew Kunze	Minnesota Power	EPR
NAIK Consulting	Principal	Jim Simko	NAIK Consulting	CEC
NARUC/NCUC	Principal	Dustin Metz	North Carolina Utility Commission	GOV
NEMA	Alternate	Bill Brown	NEMA	GEN/M
NRECA	Principal	Cody O'Neil	Holy Cross Energy	EPU
NRECA	Alternate	Andrew Schwalm	Victor Insulators, Inc.	EPU
NRECA	Alternate	David Farmer	NRECA	EPU
NRECA	Alternate	Ravindra Singh	NRECA	EPU
Orbital Engineering	Principal	Robert Frantz	Orbital Engineering	CEC
Palmer Engineering	Principal	John Palmer	University of Utah ECE	CEC
SEE	Principal	Christopher A. Carson	Southern Company	EPR
SEE	Alternate	Tracy Judson	Gulf Power Company	EPR
SEIA	Principal	Greg Ball	Tesla	GEN
USDA/RUS	Principal	Mehrdad Eskandary	Rural Utilities Service	GOV
Westwood	Principal	Drew Szabo	Westwood PS	CEC

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EPU-Electric Public Sector
GEN-General Interest
GEN/M-General/Manufacturers
GEN/OU-General/Other Utilities
GOV-Government

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Subcommittee 4
Overhead Lines—Clearances
Section/Part: Part 2, Sections 20–23

Mickey B. Gunter, *Chair*
Eric O'Brien, *Secretary*

Representing Org.	*Status*	*Name*	*Company*	*Classification*
AAR	Principal	Joanna Pardini	Amtrak	GEN/OU
AEIC	Principal	Keith Reese	Georgia Power Company	EPR
APPA	Principal	Brian Chandler	City of Troy	EPU
APPA	Principal	Gregory Obenchain	APPA	EPU
APPA	Principal	Michael Dyer	Salt River Project	EPU
APPA	Principal	Robert Guiler	APPA	EPU
ASCE	Principal	Anita Atkinson	Patterson & Dewar Engineers	CEC
ATIS	Principal	Lawrence M. Slavin	Outside Plant Consulting Services, Inc	CPR
ATIS	Principal	Trevor Bowmer	Bunya Telecom Consulting LLC	CPR
ATIS	Alternate	Ernie Gallo	Telcordia Technologies, Inc.	CPR
BPA	Principal	Jeremy Nguyen	BPA	EPU
BPA	Alternate	Brett Bowers	BPA	EPU
Self Consulting	Principal	Pravin Sankhwar	Consulting	CEC
EEI	Principal	Alan Kuipers	Consumer Energy	EPR
EEI	Principal	Barrett Thomas	American Electric Power	EPR
EEI	Principal	Frank Tucker	American Electric Power	EPR
EEI	Principal	Jeffrey Steiner	National Grid	EPR
EEI	Principal	Mickey B. Gunter	Engineering consultant	EPR
EEI	Alternate	Jesse Lyon	EEI	EPR
EEI	Alternate	William Carnahan	EEI	EPR
IBEW	Principal	Mark Baker	IBEW	ECL
IBEW	Alternate	Mark MacNichol	IBEW	ECL
IEC	Principal	Marc Candels	Candels Consulting	CEC
IEEE	Principal	Robert Kluge	—	CEC
Nelson Research	Principal	Nelson Bingel	Nelson Research, LLC	CEC
NRECA	Principal	Terry Rosenthal	Laclede Electric Cooperative	EPU
NRECA	Alternate	Andrew Schwalm	Victor Insulators, Inc.	EPU
NRECA	Alternate	David Farmer	NRECA	EPU
NSPE	Principal	Troy Little	Brooks, Jackson, Little & May, Inc	CEC
Orbital Engineering	Principal	Robert Frantz	Orbital Engineering	CEC
Palmer Engineering	Principal	John Palmer	University of Utah ECE	CEC
PLC Engineering Services	Principal	Jesse Kohler	Power Line Systems, Inc.	CEC
Proctor Consulting	Principal	Douglas Proctor	Proctor Engineering Services	CEC
Rocky Mountain Power	Principal	Jason Jenks	—	EPU
RUS	Principal	Donald Junta	USDA	GOV
RUS	Alternate	Norris Nicholson	USDA/RUS	GOV
SEE	Principal	David Barnard	BGE	EPR
SEE	Principal	Matthew Uhrig	Southeastern Electric Exchange	EPR
SEE	Principal	Branch Davis	Entergy Corporation	EPR
SEE	Principal	Joseph J. White	BGE	EPR
WIA	Principal	Eric O'Brien	Crown Castle	CPR
WIA	Alternate	Alexander Fiorani	Crown Castle	CPR

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GOV-Government

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Subcommittee 5
Overhead Lines—Strength and Loading
Section/Part: Part 2, Sections 24–27, Appendix C

Mark Jurgemeyer, *Chair*
Aaron Darby, *Secretary*

Representing Org.	*Status*	*Name*	*Company*	*Classification*
ACMA	Principal	John Busel	ACMA	GEN/M
ACMA	Alternate	Dustin Troutman	Creative Pultrusions Inc	GEN/M
ACMA	Alternate	Scott Holmes	RS Technologies Inc.	GEN/M
AISI	Principal	Helen Chen	American Iron and Steel Institute	GEN/M
AISI	Alternate	Jeff Suda	AISI	GEN/M
AISI	Alternate	William Reisdorff	Valmont Utility	GEN/M
Ampirical	Principal	Eric Milazzo	Ampirical	CEC
Ampirical	Alternate	Derrik Slayman	Ampirical	CEC
APPA	Principal	Billy Olson	APPA	EPU
APPA	Principal	Joseph Rempe	Tacoma Power	EPU
APPA	Principal	Warren Brooks	City Utilities of Springfield, Missouri	EPU
ATIS	Principal	Lawrence M. Slavin	Outside Plant Consulting Services, Inc	CPR
ATIS	Principal	Trevor Bowmer	Bunya Telecom Consulting LLC	CPR
ATIS	Alternate	Ernie Gallo	Telcordia Technologies, Inc.	CPR
BPA	Principal	Leon Kempner Jr.	Bonneville Power Administration	EPU
BPA	Alternate	Mark Nelson	Bonneville Power Administration	EPU
Burns & McDonnell	Principal	Josh Sebolt	Burns & McDonnell	CEC
Burns & McDonnell	Alternate	Gemma Haake	Burns and McDonnell	CEC
Consumers Energy	Principal	James Dubay	Consumers Energy	EPR
Consumers Energy	Principal	Rusty Soderberg	Consumers Energy	EPR
CORE Electric Cooper	Principal	Mark Jurgemeyer	Intermountain Rural Electric Association	EPU
EEI	Principal	Aaron Darby	American Electric Power	EPR
EEI	Principal	C. Jerry Wong	Florida Power & Light	EPR
EEI	Principal	G. Paul Anundson	—	EPR
EEI	Principal	Jeffrey Erdle	Duke Energy	EPR
EEI	Principal	Jessica Farrell	National Grid	EPR
EEI	Principal	Matthew Shellenberger	American Electric Power	EPR
EEI	Principal	Prasad Yenumula	Duke Energy	EPR
EEI	Alternate	Bryan Hanft	American Electric Power	EPR
EEI	Alternate	Corey Bender	Duke Energy	EPR
EEI	Alternate	Josh Wright	American Electric Power	EPR
General	Principal	Michael Garrels	Xcel Energy	GEN
IBEW	Principal	Mark Baker	IBEW	ECL
IBEW	Alternate	Mark MacNichol	IBEW	ECL
IEEE	Alternate	Robert Kluge	—	CEC
NARUC	Principal	Art Graham	Florida Public Service Commission	GOV
NAWPC	Principal	Martin Rollins	H.M. Rollins Company, Inc	GEN/M
NCEMC	Principal	Will Pittman	Carteret-Craven Electric Cooperative	EPU
Nelson Research	Principal	Nelson Bingel	Nelson Research, LLC	CEC

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Subcommittee 5
Overhead Lines—Strength and Loading

(continued)

Representing Org.	*Status*	*Name*	*Company*	*Classification*
NRECA	Principal	Rene Smith	Sumter EMC	EPU
NRECA	Alternate	David Farmer	NRECA	EPU
NRECA	Alternate	Kevin Mara	GDS Associates, Inc	EPU
NSPE	Principal	Grant Glaus	IkeGPS	EPU
Orbital Engineering	Principal	Robert Frantz	Orbital Engineering	CEC
Osmose Utilities Svc	Principal	Mark Messenger	Osmose Utilities Services	CEC
Power Line Systems	Principal	Otto Lynch	Power Line Systems	CEC
Power Line Systems	Alternate	Brandon Grillon	Power Line Systems, Inc.	CEC
REMC	Principal	Thomas Haire	Rutherford EMC	EPU
RUS	Alternate	Norris Nicholson	USDA/RUS	GOV
SCTE	Principal	Timothy Cooke	Amphenol Broadband Solutions	GEN/M
SEE	Principal	David Chaudoir	Cleco	EPR
SEE	Alternate	Joshua Phillips	Southern Co	EPR
SEE	Alternate	Nick Sewell	Southern Co	EPR
SEE	Principal	John Trentham	Southern Company Services	EPR
SEE	Principal	Melanie McDowell	Florida Power & Light	EPR
TRC Companies	Principal	Brenda Sears	TRC Companies	CEC
TVA	Principal	Steve Cantrell	TVA Transmission	EPU
TVA	Alternate	Nicholas Ethridge	TVA	EPU
TWC	Principal	Jim Fixsen	Bell Lumber and Pole	GEN/M
USDA/RUS	Principal	Chendi Zhang	USDA/RUS	GOV
Victor Insulators	Principal	Andrew Schwalm	Victor Insulators, Inc.	GEN/M
WAPA	Principal	Cody Neyens	Western Area Power Administration	EPU
Wheeler T&D	Principal	Robert Wheeler	Wheeler T&D	EPU

Key to Classifications:

CEC-Consulting, Engineering, and Construction
CPR-Communications Private Sector
ECL-Electric and Communication Labor
EPR-Electric Private Sector
EPU-Electric Public Sector
GEN-General Interest
GEN/M-General/Manufacturers
GOV-Government

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Subcommittee 7
Underground Lines
Section/Part: Part 3, Sections 30–39

Lauren E. Gaunt, *Chair*
Ashley Eanes, *Secretary*

Representing Org.	*Status*	*Name*	*Company*	*Classification*
APPA	Principal	James Wallace	APPA	EPU
APPA	Principal	Michael Dyer	Salt River Project	EPU
APTA	Alternate	Bryan Sooter	APTA	GEN/OU
APTA	Principal	Nathan Leventon	American Public Transit Association	GEN/OU
ATIS	Principal	Lawrence M. Slavin	Outside Plant Consulting Services, Inc	CPR
ATIS	Principal	Trevor Bowmer	Bunya Telecom Consulting LLC	CPR
EEI	Alternate	Alexander Dornhelm	Con Edison	EPR
EEI	Alternate	Jeffrey Kriner	Arizona Public Service	EPR
EEI	Alternate	Michael Renman	XCel Energy	EPR
EEI	Principal	Ashley Eanes	Duke Energy	EPR
EEI	Principal	Jonathan Gonynor	National Grid	EPR
EEI	Principal	William McCorcle	American Electric Power	EPR
IBEW	Alternate	Mark MacNichol	IBEW	ECL
IBEW	Principal	Mark Baker	IBEW	ECL
Marne & Associates	Principal	David J. Marne	Marne And Associates, Inc	CEC
NAIK Consulting	Principal	Jim Simko	NAIK Consulting	CEC
NRECA	Alternate	Andrew Schwalm	Victor Insulators, Inc.	EPU
NRECA	Alternate	David Farmer	NRECA	EPU
NRECA	Principal	Kevin Ogles	Middle Tennessee Electric Membership Corporation	EPU
RUS	Alternate	Donald Junta	USDA	GOV
RUS	Principal	Trung Hiu	Rural Development-Electric Program	GOV
SCTE	Principal	Timothy Cooke	Amphenol Broadband Solutions	GEN/M
SEE	Alternate	Sanford Fong	SEE	EPR
SEE	Principal	Kevin Hall	PPL	EPR
SEEX	Alternate	Keith Reese	Georgia Power Company	EPR
SEEX	Principal	Mickey B. Gunter	Engineering consultant	EPR
—	Principal	Lauren E. Gaunt	Avangrid	CEC

Key to Classifications:

CEC-Consulting, Engineering, and Construction
CPR-Communications Private Sector
ECL-Electric and Communication Labor
EPR-Electric Private Sector
EPU-Electric Public Sector
GEN/M-General/Manufacturers
GEN/OU-General/Other Utilities
GOV-Government

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Subcommittee 8
Work Rules
Section/Part: Part 4, Sections 40–44, Appendix D

Samuel Stonerock, *Chair*
Brent McKinney, *Secretary*

Representing Org.	*Status*	*Name*	*Company*	*Classification*
AEIC	Principal	Delron Garrett	Southern Co	EPR
APPA	Principal	John Corum	APPA	EPU
APPA	Principal	Jonathan Beasley	MEAG Power/Electric Cities of GA	EPU
APPA	Alternate	Michael Willetts	APPA	EPU
ATIS	Principal	Trevor Bowmer	Bunya Telecom Consulting LLC	CPR
ATIS	Alternate	Ernie Gallo	Telcordia Technologies, Inc.	CPR
Brooks, Jackson & Little	Alternate	F. M. Brooks	Brooks Jackson & Little, Inc.	CEC
Chuckanut Consulting	Principal	Brian Erga	ESCI Inc.	CEC
Meza4 Consulting	Principal	Michael Granata	Meza4 Consulting	CEC
EEI	Principal	Samuel Stonerock	Southern California Edison Company	EPR
EEI	Principal	Stephen Barnard	Dominion Virginia Power	EPR
EEI	Principal	William Beutler	EEI	EPR
EEI	Alternate	Dennis Hoffman	American Electric Power	EPR
EEI	Alternate	Mark Green	PECO Energy	EPR
Emeritus	Info Only	David Wallis	—	EM
ESCI	Principal	Thomas Verdecchio	PSE&G	CEC
IBEW	Principal	Mark MacNichol	IBEW	ECL
IBEW	Alternate	Mark Baker	IBEW	ECL
NECA	Principal	Lucas Moore	NECA	CEC
NECA	Principal	Nathan Boutwell	NECA	CEC
NECA	Alternate	Rob Roettgers	Dashiell	CEC
NRECA	Principal	JD Cox	NRECA	EPU
NRECA	Alternate	Andrew Schwalm	Victor Insulators, Inc.	EPU
NRECA	Alternate	David Farmer	NRECA	EPU
NRECA	Alternate	Dwight Miller	NRECA	EPU
NRECA	Alternate	Ravindra Singh	NRECA	EPU
NSPE	Principal	Albert Smoak	Total Arc Flash Safety, LLC	GEN
NSPE	Principal	Ronald May	Brooks, Jackson, and Little, Inc.	GEN
NSPE	Alternate	Troy Little	Brooks, Jackson, Little & May, Inc	CEC
Pfizer Global Engine	Principal	William Rodriguez	Pfizer Global Engineering	GEN/M
RUS	Principal	Norris Nicholson	USDA/RUS	GOV
SEE	Alternate	Ryan O'Barr	SEE	EPR
SEE	Principal	Eddie Smith	Southern Electric Exchange	EPR
SEE	Principal	Todd Revell	Dominion Energy	EPR
TFB Engineering	Principal	Brent McKinney	TFB Engineering	CEC
WAPA	Principal	Nicole Hicks	WAPA	EPU

Key to Classifications:

CEC-Consulting, Engineering, and Construction	EM-Emeritus
CPR-Communications Private Sector	GEN-General Interest
ECL-Electric and Communication Labor	GEN/M-General/Manufacturers
EPR-Electric Private Sector	GOV-Government
EPU-Electric Public Sector	O-Observers

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Subcommittee 9
Electric Generating Stations
Section/Part: Part 5

James Houston, *Chair*
William Munn, *Secretary*

Representing Org.	*Status*	*Name*	*Company*	*Classification*
AEIC	Principal	William Munn	Southern Company	EPR
Ameren	Principal	Christine Grunbaum	Ameren	EPR
APPA	Principal	Joel Valley	APPA	EPU
Duke Energy	Principal	Mayun Patel	Duke Energy	EPU
EEI	Principal	Matt Sigg	AEP/EEI	EPR
EEI	Principal	Roger Salas	EEI	EPR
EEI	Alternate	Christian Lopez	EEI	EPR
EEI	Alternate	Prudhvi Bhattiprolu	AEP	EPU
EEI	Alternate	Youssef El-Barrad	EEI	EPR
HDR	Principal	Alan Baldivieso	HDR	CEC
IBEW	Principal	Mark MacNichol	IBEW	ECL
IBEW	Alternate	Mark Baker	IBEW	ECL
NAIK Consulting	Principal	Jim Simko	NAIK Consulting	CEC
NARUC	Principal	Dustin Metz	North Carolina Utility Commission	GOV
NECA	Principal	Mike Cannady	NECA	CEC
NEI	Principal	Josh Hopkins	NEI	CEC
NRECA	Principal	Andrew Schwalm	Victor Insulators, Inc.	EPU
NRECA	Principal	David Farmer	NRECA	EPU
NRECA	Alternate	Ravindra Singh	NRECA	EPU
RWE Renewables	Principal	Zobayer Khizir	RWE Renewables	EPR
Southern Co	Principal	James Houston	Southern Company	EPR

Key to Classifications:

CEC-Consulting, Engineering, and Construction
ECL-Electric and Communication Labor
EPR-Electric Private Sector
EPU-Electric Public Sector
GOV-Government

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Key to Organizations Represented:

AAR	Association of American Railroads
ACMA	American Composites Manufacturers Association
AEIC	Association of Edison Illuminating Companies
AISI	American Iron and Steel Institute
APPA	American Public Power Association
APTA	American Public Transit Association
ASCE	American Society of Civil Engineers
ATIS	Alliance for Telecommunications Industry Solutions
BPA	Bonneville Power Admin., U.S. Department of Energy
EEI	Edison Electric Institute
ESCI	Electrical Safety Consulting Incorporated
IBEW	International Brotherhood of Electrical Workers
IEC	Independent Electrical Contractors
IEEE	The Institute of Electrical and Electronics Engineers, Inc.
IMSA	International Municipal Signal Association
NARUC	National Association of Regulatory Utility Commissioners
NAWPC	North American Wood Pole Council
NCEMC	North Carolina Electric Membership Corporation
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
REMC	Rutherford EMC
RUS	Rural Utilities Services, U.S. Department of Agriculture
SCTE	Society of Cable Telecommunications Engineers
SEE	Southeastern Electric Exchange
SEIA	Solar Energy Industries Association
TVA	Tennessee Valley Authority
TWC	Treated Wood Council
VMDAEC	Virginia, Maryland & Delaware Association of Electric Cooperatives
WAPA	Western Area Power Administration, U.S. Department of Energy
WIA	Wireless Infrastructure Association

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NESC Rules

Front matter and Section 1. Introduction

Added Text

CP06455

Front Matter
Committee Membership

Submitter

Michael Garrels

Proposed Change

NESC Subcommittee 5—Overhead Lines—Strength and Loading
Sections 24, 25, 26, and 27

Supporting Comment

This is an oversight. Subcommittee 5 traditionally has been responsible for Section 26, and no other subcommittee is otherwise assigned.

SC5 Recommendation

Accept

Vote on SC5 Recommendation

Affirmative: (28) G. Paul Anundson, Mark Baker (Alternate for Andrew Taft), Trevor Bowmer, John Busel, David Chaudoir, Aaron Darby, James Dubay, Jeffrey Erdle, Jessica Farrell, Ernie Gallo (Alternate for Lawrence M. Slavin), Michael Garrels, Grant Glaus, Thomas Haire, Melanie McDowell, Mark Messenger, Eric Milazzo, Cody Neyens, Billy Olson, Will Pittman, Martin Rollins, Andrew Schwalm, Brenda Sears, Josh Sebolt, Matthew Shellenberger, Rene Smith, John Trentham, C. Jerry Wong, Chendi Zhang; Absent/No Return: (13) Nelson Bingel, Warren Brooks, Helen Chen, Timothy Cooke, Jim Fixsen, Robert Frantz, Art Graham, Mark Jurgemeyer, Leon Kempner Jr., Otto Lynch, Joseph Rempe, Rusty Soderberg, Robert Wheeler

---

Added Text

CP06456

Section 1. Introduction to the National Electrical Safety Code

Submitter

Michael Garrels

Proposed Change

Part 0.
General Requirements

Section 01.

…

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Section 03.

…

Section 09.

…

Supporting Comment

Adding an introductory heading would make the document more consistent. All sections would have a parent part, and then all sections can be two-digit numbers.

SC1 Recommendation

Reject

SC1 Comment

The Subcommittee agrees that this CP does not improve the code.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

---

Added Text

CP06457

Section 1. Introduction to the National Electrical Safety Code

Submitter

Michael Garrels

Proposed Change

~~The National Electrical Safety Code (NESC®) is American National Standard C2. It is a consensus standard that has been prepared by the National Electrical Safety Code Committee under procedures approved by the American National Standards Institute (ANSI). The membership of the NESC Committee is composed of national and international organizations and is certified by ANSI as having an appropriate balance of the interests of members of the public, utility workers, regulatory agencies, and the various types of private and public utilities.~~

~~The NESC is used in whole or in part by statute, regulation, or consent as the standard (or basis of the standard) of safe practice for public and private utilities in the United States, as well various jurisdictions and industries in other countries.~~

Supporting Comment

This is a hanging paragraph which we should avoid as difficult to reference. It's already covered in the frontmatter, and in the NOTE to 010.A, so I would recommend removing it completely.

SC1 Recommendation

Reject

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SC1 Comment
This paragraph is part of the code and is useful to the reader unlike the abstract (front matter) which is not part of the code.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

---

Added Text

CP06019
Section 1. Introduction to the National Electrical Safety Code Rule
010. Purpose

Submitter
John A Palmer

Proposed Change

010. Purpose

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

NOTE: NESC rules are globally recognized and intended to provide a practical 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.

NOTE 2: NESC rules also represent a practical standard of safe practices that may provide substantial guidance and constraints for privately owned medium and high voltage systems that may not be strictly included within the scope of this Code as defined by Rule 011.

Supporting Comment
Many large-scale industrial power systems exist which may not be specifically required to comply with the NESC as defined in the Scope under Rule 011. While some guidance with regard to medium and high voltage systems is given in the NEC, the guidance is not as well developed and complete as the NESC. Thus, adding a note to inform operators of such systems that their systems might benefit from understanding and application of the NESC is likely to increase safety to the general public exposed to such systems.

SC1 Recommendation
Reject

SC1 Comment
Identification of private and public utilities is already included in the note. Medium and high voltage systems are not defined. The addition of this note is not necessary.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06280

Section 1. Introduction to the National Electrical Safety Code Rule
010. Purpose

Submitter

Scott Smith

Proposed Change

010. Purpose

A. The purpose of the NESC is the practical safeguarding of persons during the installation, operation, and maintenance of electric supply and communication facilities, under specified conditions. Any purpose statements in other Sections and Parts of the NESC are meant to supplement Rule 010A.

NOTE: NESC rules are globally recognized and intended to provide a practical 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.

Supporting Comment

The other Sections and Parts of the NESC also have Purpose rules. Adding the last sentence to Rule 010 specifies any other Purpose statement is used to supplement Rule 010, not replace it.

SC1 Recommendation

Accept as Modified

010. Purpose

A. The purpose of the NESC is the practical safeguarding of persons during the installation, operation, and maintenance of electric supply and communication facilities, under specified conditions. Purpose statements in other Sections and Parts of the NESC supplement Rule 010A.

NOTE: NESC rules are globally recognized and intended to provide a practical 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.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

---

Added Text

CP06465

Section 1. Introduction to the National Electrical Safety Code
Rule 010. Purpose

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Submitter
Michael Garrels

Proposed Change

010. Purpose

A. The purpose of the NESC is the practical safeguarding of persons during the installation, operation, and maintenance of electric supply and communication facilities, under specified conditions. It also includes work rules for the operation of electric supply and communications lines and equipment.

NOTE: NESC rules are globally recognized and intended to provide a practical 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.

Supporting Comment
Every other part and the abstract say that the NESC is about work rules. Add the text from the abstract to plug this hole.

SC1 Recommendation
Reject

SC1 Comment
This proposed addition does not improve the rule and the operations and maintenance of facilities cover the matters being addressed.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

---

Added Text

CP06397
Section 1. Introduction to the National Electrical Safety Code
Rule 010. Purpose

Submitter
Leon Kempner, Jr., Mark D. Nelson, Keith Reese, Mike D. Miller and Cody Neyens

Proposed Change

010. Purpose

C. This Code is not intended as a design specification or as an instruction manual, nor is it intended to provide design criteria for abnormal events such as, but not limited to, actions of others or weather events in excess of those specified herein.

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NOTE: Structural loading for design criteria, and for weather events in excess of those specified in the NESC, are provided in the ASCE Standard "Minimum Design Loads for Structures Supporting Overhead Power Lines".

Supporting Comment

Rule 010C in the 2023 NESC states this Code is not intended as a design specification. It also states it is not intended to provide design criteria for abnormal events, one of which is weather events that exceed those in the NESC. The American Society of Civil Engineers (ASCE) has a committee developing a standard to provide design loading criteria for transmission, distribution, and substation deadend supporting structures including weather events exceeding those in the NESC. The standard's expected approval date is late 2024 to early 2025. Adding this Note to Rule 010C will provide users of the NESC information on design loading criteria.

If accepted, the ASCE loading standard will need to be added to Appendix E – Bibliography.

SC1 Recommendation

Reject

SC1 Comment

As an informational note, this only references one design and/or loading standard and there are others in the industry. The intent is not to reference additional design and/or loading information.

Vote on SC1 Recommendation

Affirmative: (6) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Ron Wellman; Abstention: (2) Mark Nelson (Alternate for George Arhos), Keith Reese; Absent/No Return: (1) Samuel Stonerock

---

Added Text

CP06553

Section 1. Introduction to the National Electrical Safety Code
Rule 010. Purpose

Submitter

Mayur T. Patel

Proposed Change

010. Purpose

C. This Code is not intended as a design specification or as an instruction manual, nor is it intended to provide design criteria for abnormal events such as, but not limited to, actions of others or weather events in excess of those specified herein. Structural and environmental loading discussion in this code provides minimum requirement for the new structures and components.

NOTE: For structural design requirements associated with electrical facilities, see ASCE-113 [B19] and IEEE Std 605™-2008 [B42]."

Supporting Comment

Discussions associated with the existing installation are intended for maintaining public and personal safety. Structural adequacy requirements for existing structures exposed to public (such as Transmission Line or distribution structures) or have similar use (such as catch-off structures within electrical facility or A-frames for overhead transmission lines within fenced-owner controlled area. It would benefit the user to understand

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that intent of NESC applicability for substation structures (other than used in similar to Transmission line configuration) where structural loading and serviceability requirements are based on substation ASCE, IEEE and other standards. Structural and Environmental loading application and combinations are minimum requirements as specified in this code.

SC1 Recommendation
Reject

SC1 Comment
The Subcommittee agrees this information is already covered in the code.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

---

Revised Text

CP06466
Section 1. Introduction to the National Electrical Safety Code
Rule 011. Scope

Submitter
Michael Garrels

Proposed Change

011. Scope

A. NESC rules cover the following facilities (See Figure 011-1).

~~Covered~~

~~See Figure 011-1.~~

~~The NESC covers:~~

1. Supply and communication facilities (including metering) and associated work practices employed by a public or private electric supply, communications, railway, trolley, street and area lighting, traffic signal (or other signal), irrigation district or other community owned utility, or a similar utility in the exercise of its function as a utility.

…

Supporting Comment
There are 3 sentence fragments attempting to be a heading. Combine them into a heading.

SC1 Recommendation
Accept as Modified

011. Scope

A. The NESC covers the following (See Figure 011-1):

~~Covered~~

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~~See Figure 011-1.~~

~~The NESC covers:~~

1. Supply and communication facilities (including metering) and associated work practices employed by a public or private electric supply, communications, railway, trolley, street and area lighting, traffic signal (or other signal), irrigation district or other community owned utility, or a similar utility in the exercise of its function as a utility.

…

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

---

Revised Text

CP06179

Section 1. Introduction to the National Electrical Safety Code
Rule 011. Scope

Submitter

Trevor Bowmer

Proposed Change

011. Scope

A. Covered

See Figure 011-1.

The NESC covers:

1. Supply and communication facilities (including metering) and associated work practices employed by a public or private electric supply, communications, railway, trolley, street and area lighting, traffic signal (or other signal), irrigation district or other community owned utility, or a similar utility in the exercise of its function as a utility.
2. The generation, transmission, and distribution of electricity, lumens, communication signals, and communication data through public and private utility systems that are installed and maintained under the exclusive control of utilities or their authorized representatives.
3. Utility facilities and functions of utilities that either (a) generate energy by conversion from some other form of energy such as, but not limited to, fossil fuel, chemical, electrochemical, nuclear, solar, mechanical, wind or hydraulic, or (b) produce and transmit ~~hydraulic or~~ communication signals, or (c) accept energy or communication signals from another entity, or ~~(b)~~ provide that energy or communication signals through a delivery point to another entity.
4. Street and area lights that provide a supply of lumens where these facilities are supplied from the line side of the service point by underground or overhead conductors maintained and/or installed under the exclusive control of utilities (including their authorized contractors or other qualified persons).
5. Utility facilities and functions on the line side of the service point supplied by underground or overhead conductors maintained and/or installed under exclusive control of utilities located on public or private

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property in accordance with legally established easements or rights-of-way, contracts, other agreements (written or by conditions of service), or as authorized by a regulating or controlling body.
NOTE: Agreements to locate utility facilities on property may be required where easements are either (a) not obtainable (such as locating utility facilities on existing rights-of-way of railroads or other entities, military bases, federal lands, Native American reservations, lands controlled by a port authority, or other governmental agency), or (b) not necessary (such as locating facilities necessary for requested service to a site).

6. Wiring within a supply station or in an underground facility that is (a) installed in accordance with Part 1 or Part 3 of this Code and maintained under the exclusive control of utilities and (b) necessary for the operation of the supply station or underground facility.
7. Utility facilities installed, maintained, and controlled by utilities on surface or underground mine sites, including overhead or underground distribution systems providing service up to buildings or outdoor equipment locations on the line side of the service point.
8. Similar systems to those listed above that are under the exclusive control of qualified persons and authorized by a regulating or controlling body, including those associated with an industrial complex or utility interactive system.

Supporting Comment
Editorial revision to 011A3 for clarity. This revision separates the facilities into three logical groups – a) energy generation facilities, b) communications production and transmission facilities, and c) intermediate supply and communications facilities that receive and pass on power or communication signals.

SC1 Recommendation
Accept in Principle

SC1 Comment
See action taken on CP6281.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06281
Section 1. Introduction to the National Electrical Safety Code
Rule 011. Scope

Submitter
Scott Smith

Proposed Change

011. Scope

A. Covered

…

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3. Utility facilities and functions of utilities that: ~~that either (a) generate energy by conversion from some other form of energy such as, but not limited to, fossil fuel, chemical, electrochemical, nuclear, solar, mechanical, wind or hydraulic or communication signals, or accept energy or communication signals from another entity, or (b) provide that energy or communication signals through a delivery point to another entity.~~

   a. generate energy by conversion from some other form of energy such as, but not limited to, fossil fuel, chemical, electrochemical, nuclear, solar, mechanical, wind, or hydraulic; or

   b. generate communication signals; or

   c. accept energy or communication signals from another entity; or

   d. provide that energy or communication signals through a delivery point to another entity.

Supporting Comment

The shopping list of ways power is generated confuses the reading of part (a). It's utilities that generate energy or communication signals that are covered by the Code. This change helps break up the different requirements while keeping the power generation laundry list, if desired.

SC1 Recommendation

Accept as Modified

011. Scope

A. Covered

…

3. Utility facilities and functions of utilities that: ~~that either (a) generate energy by conversion from some other form of energy such as, but not limited to, fossil fuel, chemical, electrochemical, nuclear, solar, mechanical, wind or hydraulic or communication signals, or accept energy or communication signals from another entity, or (b) provide that energy or communication signals through a delivery point to another entity.~~

   a. generate energy by conversion from some other form of energy such as, but not limited to, fossil fuel, chemical, electrochemical, nuclear, solar, mechanical, wind, or hydraulic; or

   b. distribute communication signals; or

   c. accept energy or communication signals from another entity; or

   d. provide energy or communication signals through a delivery point to another entity.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06467

Section 1. Introduction to the National Electrical Safety Code
Rule 011. Scope

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Submitter

Michael Garrels

Proposed Change

011. Scope

B. NESC rules do not cover the following facilities (See Figure 011-1).

~~Not covered~~

~~See Figure 011-1.~~

~~NESC rules do not cover:~~

1. Utilization equipment or premises wiring located beyond utility service points to buildings or outdoor installations, or
2. Underground mine wiring or installations in ships, railway rolling equipment, aircraft, or automotive equipment, or
3. Luminaires not installed or maintained under exclusive control by utilities, or
4. Industrial complex or utility interactive systems that are not controlled exclusively under utilities or qualified persons or are located on the premises wiring side of the service point.

NOTE: The National Electrical Code® (NEC®) (NFPA 70®) covers utilization wiring requirements beyond the service point and luminaires that are not controlled exclusively by utilities.[3]

[3] Information on references can be found in Section 3 .

Supporting Comment

There are 3 sentence fragments attempting to be a heading. Combine them into a heading.

SC1 Recommendation

Accept as Modified

011. Scope

B. The NESC does not cover the following (See Figure 011-1):

~~Not covered~~

~~See Figure 011-1.~~

~~NESC rules do not cover:~~

1. Utilization equipment or premises wiring located beyond utility service points to buildings or outdoor installations, or
2. Underground mine wiring or installations in ships, railway rolling equipment, aircraft, or automotive equipment, or
3. Luminaires not installed or maintained under exclusive control by utilities, or
4. Industrial complex or utility interactive systems that are not controlled exclusively under utilities or qualified persons or are located on the premises wiring side of the service point.

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NOTE: The National Electrical Code® (NEC®) (NFPA 70®) covers utilization wiring requirements beyond the service point and luminaires that are not controlled exclusively by utilities.[4]

[4] Information on references can be found in Section 3.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06590

Section 1. Introduction to the National Electrical Safety Code
Rule 011. Scope

Submitter

NESC Subcommittee 1

Proposed Change

011. Scope

B. Not covered

See Figure 011-1.

NESC rules do not cover:

1. Utilization equipment or premises wiring located beyond utility service points to buildings or outdoor installations, or
2. Underground mine wiring or installations in ships, railway rolling equipment, aircraft, or automotive equipment, or
3. Luminaires not installed or maintained under exclusive control of ~~by~~ utilities, or
4. Industrial complex or utility interactive systems that are not controlled exclusively under utilities or qualified persons or are located on the premises wiring side of the service point.

NOTE: The National Electrical Code® (NEC®) (NFPA 70®) covers utilization wiring requirements beyond the service point and luminaires that are not controlled exclusively by utilities.[1]

[1] Information on references can be found in Section 3.

Supporting Comment

See action taken on CP6460

SC1 Recommendation

Accept

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Vote on SC1 Recommendation

Affirmative: (9) Lauren E. Gaunt, Mickey B Gunter, James Houston, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06180

Section 1. Introduction to the National Electrical Safety Code
Rule 011. Scope

Submitter

Trevor Bowmer

Proposed Change

011. Scope

B. Not covered

See Figure 011-1.

NESC rules do not cover:

1. Utilization equipment or premises wiring located beyond utility service points to buildings or outdoor installations, or
2. Underground mine wiring or installations in ships, railway rolling equipment, aircraft, or automotive equipment, or
3. Luminaires not installed or maintained under exclusive control by utilities, or
4. Industrial complex or utility interactive systems that are not controlled exclusively by ~~under~~ utilities or qualified persons or are located on the premises wiring side of the service point.

   NOTE: The National Electrical Code® (NEC®) (NFPA 70®) covers utilization wiring requirements beyond the service point and luminaires that are not controlled exclusively by utilities.[2]

[2] Information on references can be found in Section 3.

Supporting Comment

Editorial revision to 011B4 - change “under” to “by”.

SC1 Recommendation

Accept

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06547

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Section 1. Introduction to the National Electrical Safety Code
Rule 012. General rules

Submitter

Michael A. Anthony, P.E.

Proposed Change

012. General rules

C. For all particulars not specified, but within the scope of these rules, as stated in Rule 011A, design, construction, operation, and maintenance should be done in accordance with accepted good practice for the given local conditions known at the time by those responsible for the communication or supply lines and equipment.

NOTE: Refer to ASHRAE Standard 90.1-2022--Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings for information related to energy regulations applicable to the wiring of illumination and photovoltaic installations.

Supporting Comment

We place this proposal in this location of the Code as a start point to alert the relevant workgroup of action in the ASHRAE International business model. Others may see its usefulness but choose to place it elsewhere; or modify it as appropriate.

This is another proposal in a series of Standards Michigan proposals to nudge NESC committees to set minimum standards for the reliability of communication and internet services that can be adapted to state and local electrotechnology conditions. Loss of power and internet occurs more frequently and presents greater hazard to every dimension of the US economy. In 2022 ASHRAE expanded one of its flagship titles frequently incorporated by reference into energy and safety laws: Standard 90.1-2022—Energy Standard for Buildings Except Low-Rise Residential Buildings Paraphrasing the expanded scope:

…“enabling regulation of energy use associated with the building but not the building itself, such as exterior or parking lot lighting not connected to the building electric service. This also allows for equipment, such as photovoltaic (PV) equipment, located on site but not within the building. For the convenience of the committee links to Read-Only Versions are linked below:

https://www.ashrae.org/technical-resources/standards-and-guidelines/read-only-versions-of-ashraestandards

https://ashrae.iwrapper.com/ASHRAE_PREVIEW_ONLY_STANDARDS/STD_90.1_2022_SI

Our primary interest lies in the (often nutty) overlap of university-owned exterior lighting and traffic control and security surveillance systems with utility and municipal electrotechnology systems traditionally covered in this Code.

SC1 Recommendation

Reject

SC1 Comment

This CP does not promote safety and is inappropriate to reference additional industry standards information.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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SC9 Recommendation
Reject

SC9 Comment
Defer to SC1.

Vote on SC9 Recommendation
Affirmative: (9) Mike Cannady, David Farmer, Christine Grunbaum, Josh Hopkins, Mark Macnichol, Dustin Metz, William Munn, Mayun Patel, Matt Sigg; Absent/No Return: (6) James Houston, Zobayer Khizir, Roger Salas, Andrew Schwalm, Jim Simko, James Valley

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Added Text

CP06484
Section 1. Introduction to the National Electrical Safety Code
Rule 013. Application

Submitter
Jonathan Beasley

Proposed Change

013. Application

A. New installations and extensions

3. For added safety of the general public and employees, when feasible "vertical line construction" should be considered on distribution multiphase-phase overhead line construction i.e. two-phase, three-phase, double-circuit.

Supporting Comment
Public safety> On horizontal overhead line construction, it is probable and even likely that when an outside phase break & falls, that it may not strike another phase and/or neutral causing an operation of the protective device upstream; subsequently, the energized conductor hanging off the structure with insufficient clearance.

Employee safety> There have been very few to zero employee electrical contacts while rubber-gloving energized conductors on vertical overhead line construction poles versus horizontal construction poles. On a vertical pole all line potentials are at different levels versus horizontal pole being at the same level.

SC1 Recommendation
Reject

SC1 Comment
This rule is applicable to other types of construction than overhead distribution. Also, there is no evidence or statistics presented indicating that there is a difference in safety between vertical and horizontal overhead construction.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06020

Section 1. Introduction to the National Electrical Safety Code
Rule 013. Application

Submitter

John A Palmer

Proposed Change

013. Application

B. Existing installations

…

2. Existing installations ~~installations, including maintenance replacements~~ that currently comply with prior editions of the Code need not be modified to comply with the rules in this edition. When maintenance replacements are necessary, the repairs must comply with an edition of the Code that is less than 50 years old.

   When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.

   When a supporting structure is replaced due to maintenance, the resulting supporting structure shall be not less than the required strength and an appropriate height of the supporting structure being replaced.

   EXCEPTION: When a structure is replaced, the current requirements of Rule 238C shall be met, if applicable.

   NOTE: Maintenance replacements include, but are not limited to, deterioration, actions of others, or weather related events.

3. Where conductors or equipment are added, altered, or replaced on an existing structure, the structure or the facilities on the structure need not be modified or replaced if the resulting installation will be in compliance with either:

   a. The rules that were in effect at the time of the original installation, if less than 50 years prior to the work being performed, or

   b. The rules in effect in a subsequent edition to which the installation has been previously brought into compliance, if less than 50 years prior to the work being performed. ~~compliance.~~

      If the resulting installation will not be in compliance with either Rule 013B3a or 013B3b and the structure has to be modified or replaced, the new installation shall meet the rules in this edition. When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.

      …

Supporting Comment

The NESC has been in existence for well over a century, and the “grandfather clause” has been in place for almost a half century. During that time, there has been considerable new knowledge regarding safety as applied to electric power systems. The infrastructure that was built during that time has served long and well. Unfortunately, infrastructure does not last forever. It is understandable that there is hesitancy to implement wholesale replacement of all elements of the power system that are aged or not compliant with the modern code. Yet, for so many years, the grandfather clause has served as a shield to avoid system modernization.

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The recommendation here is that it just is not enough to ensure that codes from 60-70 years ago are met when work is performed, but the system needs to be brought eventually into compliance with modern standards. Several reasons for a "sunset" on the grandfather clause are readily apparent:

- As the percentage of the system that complies with older standards is reduced, the tendency of the general public, including contractors working on and around buildings for example, is to assume that all systems are consistent with modern standards, such as horizontal and vertical clearances. The complacency in such a assumptions can be fatal.
- Line inspections performed consistent with Rule 214 require the inspector to verify compliance with the rulesof the Code. Unfortunately, the old provisions such as horizontal and vertical clearances vary somewhat and are not typically within the training of the line inspectors. Consequently, the line inspectors have a tendency to assume that anything that is out of the ordinary, if not visibly broken, is simply "grandfathered in." Limiting the duration of the grandfather clause is a practical means to assure more consistent inspections and more complete assurance of compliance.
- Occasionally, other issues of compliance with long-outdated codes may come up such as whether a newly constructed structure that encroaches on current clearances but meets old outdated codes. The proposed wording gives the utility support for enforcing the current requirements without the ambiguity of how the older codes might apply.

The 50-year window is intended as a balance between the expediency of embracing the modern safety rules and the expense of wholesale replacement that motivated the grandfather clause in the first place. 50 years equals or exceeds the life expectancy of the majority of power system infrastructure.

SC1 Recommendation
Reject

SC1 Comment
There is no data or information presented in support of this CP. As proposed, this revision would allow facilities to be rebuilt to an older version of the code than as previously constructed.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06468
Section 1. Introduction to the National Electrical Safety Code Rule
013. Application

Submitter
Michael Garrels

Proposed Change

013. Application

B. Existing installations

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1. Where an existing installation meets or is altered to meet the rules in this edition, such installation is not required to comply with any previous edition. When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.

2. Existing installations, including maintenance replacements that currently comply with prior editions of the Code need not be modified to comply with the rules in this edition.

   ~~When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.~~

   When a supporting structure is replaced due to maintenance, the resulting supporting structure shall be not less than the required strength and an appropriate height of the supporting structure being replaced.

   EXCEPTION: When a structure is replaced, the current requirements of Rule 238C shall be met, if applicable.

   NOTE: Maintenance replacements include, but are not limited to, deterioration, actions of others, or weather related events.

3. Where conductors or equipment are added, altered, or replaced on an existing structure, the structure or the facilities on the structure need not be modified or replaced if the resulting installation will be in compliance with either:

   a. The rules that were in effect at the time of the original installation, or

   b. The rules in effect in a subsequent edition to which the installation has been previously brought into compliance.

      If the resulting installation will not be in compliance with either Rule 013B3a or 013B3b and the structure has to be modified or replaced, the new installation shall meet the rules in this edition. ~~When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.~~

      …

Supporting Comment

There's a lot going on in Rule 013B. We should consolidate some redundant text to make it easier to read.

SC1 Recommendation

Reject

SC1 Comment

Although it may appear as redundant text, it is not. It is not appropriate to add the proposed language to rule 013B1. However, it is appropriate to retain it in B2 and B3.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06554

Section 1. Introduction to the National Electrical Safety Code
Rule 013. Application

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Submitter

Mayur T. Patel

Proposed Change

013. Application

B. Existing installations

1. Where an existing installation meets or is altered to meet the rules in this edition, such installation is not required to comply with any previous edition.
2. Existing installations, including maintenance replacements that currently comply with prior editions of the Code need not be modified to comply with the rules in this edition.

   When an existing installation is brought into compliance with a subsequent edition with respect to personal and equipment safety, ~~edition,~~ earlier editions no longer apply.

   When a supporting structure is replaced due to maintenance, the resulting supporting structure shall be not less than the required strength and an appropriate height of the supporting structure being replaced. Structural integrity review and evaluation with consideration of functional and serviceability criteria recommended.

   EXCEPTION: When a structure is replaced, the current requirements of Rule 238C shall be met, if applicable.

   NOTE: Maintenance replacements include, but are not limited to, deterioration, actions of others, or weather related events.
3. Where conductors or equipment are added, altered, or replaced on an existing structure, the structure or the facilities on the structure need not be modified or replaced if the resulting installation will be in compliance with either:

   a. The rules that were in effect at the time of the original installation, or

   b. The rules in effect in a subsequent edition to which the installation has been previously brought into compliance.

      If the resulting installation will not be in compliance with either Rule 013B3a or 013B3b and the structure has to be modified or replaced, the new installation shall meet the rules in this edition.

      When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.

      …

Supporting Comment

013.B.3 Existing installation compliance discussion should be clarified. Intent is to ensure electrical safety clearance and structural stability (should be evaluated to ensure stability under utility adopted codes and standards.) NESC 2023, Rule 012, C acknowledges and recommends use of good engineering practices. There is a space to interpret that compliance enforces to ensure structural capacity for the existing installation meeting adopted codes and standards which may not be practically or physically possible for the existing substation facilities. There are other evaluation methods to accept the structural stability and should be either referenced or left up to utility to decide. Reference to ASCE 113 would be more appropriate for the existing retrofits and evaluation of the impacts on the existing structure to remain in service.

013.B.4 The first part of this section discusses that if non-compliance creates any changes to structural or stability, then it would need to be further investigated, which is in line with above proposed edit. The

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reference for non-compliance refers to Section 214A4 and 214A5, which are more for lines and equipment rather structural components.

SC1 Recommendation
Reject

SC1 Comment
This proposed revision does not improve safety or clarity.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06564
Section 1. Introduction to the National Electrical Safety Code
Rule 013. Application

Submitter
Michael A. Anthony, P.E.

Proposed Change

013. Application

B. Existing installations

4. For structures that currently do not comply with Rule 013B3, if adding a new item, or replacing or rearranging existing items would not in itself, either (1) create a structural, clearance, or grounding non-conformance, or (2) worsen an existing non-conformance, then the addition, replacement, or alteration may be performed prior to correcting existing non-compliance items. For existing noncompliance items, see Rules 214A4 and A5.

   EXCEPTION: For safety reasons, the administrative authority may require compliance with the rules in this edition. Refer to the International Building Code and the the National Electrical Code (NFPA 70).

Supporting Comment
Nearly every aspect of the built environment in the United States is informed by these two codes; though there is a third now. In a separate proposal we proposed recognition of ASHRAE 90.1 -- whose expanded scope now includes exterior energy systems outside spaces in-between buildings. Additionally: We would like to inform NESC committees that we have submitted proposals to both ICC and NEC committees to permit performancebased electrical design. Specifically: A. To NEC committees (where we have served since 1999) we have proposed performance-based electrical feeder design to reduce cost and, in most cases, increase electrical and fire safety.

B. We have proposed to the IBC committees that performance-based electrical feeder design should be permitted in Chapter 28 since -- pending consideration of our 2026 NEC proposals -- performance-based design for building interior power chains is not permitted in the NEC as it is in the Canadian Electrical Code. That proposal, respectfully received, is now making its way to experts at the ICC. Both ICC and NFPA revise their titles in 3 year cycles; a recommendation I have made to NESC committees in past cycles. It is our conviction that the pace of electrotechnology evolution -- power, communication, data center expansion (for

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artificial intelligence), electric vehicle, and flawless internet access -- requires that the NESC change in a faster and larger way; starting with 3-year cycle -- filling the gaps that were successfully filled with the NARUC NEC/NESC Cross-Code Correlation back in 2018. The passage selected for this proposal deals with existing installations and the particular problems of "grandfathering". We welcome a better location for it applicable to entirely new installations. More background on this and other proposals will appear in the link below: https://standardsmichigan.com/draft-proposals-for-the-2028-national-electrical-safety-code/

SC1 Recommendation
Reject

SC1 Comment
This proposed revision does not improve safety or clarity.

Vote on SC1 Recommendation
Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

SC9 Recommendation
Reject

SC9 Comment
Defer to SC1.

Vote on SC9 Recommendation
Affirmative: (9) Mike Cannady, David Farmer, Christine Grunbaum, Josh Hopkins, Mark Macnichol, Dustin Metz, William Munn, Mayun Patel, Matt Sigg; Absent/No Return: (6) James Houston, Zobayer Khizir, Roger Salas, Andrew Schwalm, Jim Simko, James Valley

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Revised Text

CP06282
Section 1. Introduction to the National Electrical Safety Code
Rule 013. Application

Submitter
Scott Smith

Proposed Change

013. Application

B. Existing installations

…

2. Existing installations, including maintenance replacements that currently comply with prior editions of the Code need not be modified to comply with the rules in this edition.

   When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.

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When a supporting structure is replaced or modified due to the actions of others, weather-related events, or conditions or defects that would reasonably be expected to endanger persons or property, the resulting installation should be not less than the required strength and appropriate height of the supporting structure being replaced or meet the requirements of the current edition. ~~maintenance, the resulting supporting structure shall be not less than the required strength and an appropriate height of the supporting structure being replaced.~~

When a supporting structure is replaced or modified to correct conditions or defects that may be scheduled for correction according to Rule 214A5b, the resulting installation should meet the requirements of the current edition.

EXCEPTION: When a supporting structure is replaced, the current requirements of Rule 238C shall be met, if applicable.

~~NOTE: Maintenance replacements include, but are not limited to, deterioration, actions of others, or weather related events.~~

…

Supporting Comment

1. Delete the reference to "maintenance replacements" in the second paragraph because the term"maintenance" is not defined and can be interpreted to mean different types of work. Delete the existing NOTE, which lists some conditions or events that could be considered a "maintenance replacement". The proposed language should cover all those specific conditions or events that could be considered a "maintenance replacement", unscheduled or scheduled. Supporting structures that may have to be replaced due to conductors or equipment being added, altered, or replaced on existing supporting structures are covered under Rule 013B3 and are not considered "maintenance replacements".
2. In addition, the word "should" was used in the second paragraph because during emergency events, the same size or larger supporting structures may not always be available.
3. If a supporting structure can be scheduled for replacement where there is sufficient time to analyze and evaluate the size required of the new supporting structure, the replaced or modified supporting structure should meet the current edition. The Code should always be upgraded to the current edition when given the time (scheduled) and opportunity to do so.

SC1 Recommendation

Accept as Modified

013. Application

B. Existing installations

…

2. Existing installations, including maintenance replacements that currently comply with prior editions of the Code need not be modified to comply with the rules in this edition.

   When an existing installation is brought into compliance with a subsequent edition, earlier editions no longer apply.

   When a supporting structure is replaced due ~~to~~ maintenance, the resulting supporting structure shall be not less than the required strength and an appropriate height of the supporting structure being replaced.

   EXCEPTION: When a supporting structure is replaced, the current requirements of Rule 238C shall be met, if applicable.

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NOTE: Maintenance replacements include, but are not limited to, deterioration, actions of others, or weather-related events.

…

Vote on SC1 Recommendation

Affirmative: (7) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Abstention: (1) William Munn; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06283

Section 1. Introduction to the National Electrical Safety Code
Rule 014. Waiver for emergency and temporary installations

Submitter

Scott Smith

Proposed Change

014. Waiver for emergency and temporary installations

A. General

An authorized and qualified ~~The~~ person responsible for an installation may modify or waive rules in the case of emergency or temporary installations as specified in Rules 014B and 014C, respectively. ~~installations.~~

Supporting Comment

Part A currently gives free reign to modify or wave the rules by the person responsible. The addition that refers you to the following rules (014B and 014C) provides the conditions for such modification or waiver. This will make clear that the person responsible for modifying the rules for emergency or temporary installations will be both authorized and qualified.

SC1 Recommendation

Accept in Principle

SC1 Comment

See action taken on CP6330.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06330

Section 1. Introduction to the National Electrical Safety Code
Rule 014. Waiver for emergency and temporary installations

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Submitter

Mark S. Gray

Proposed Change

014. Waiver for emergency and temporary installations

A. General

The person responsible for an installation may modify or waive rules in the case of emergency or temporary installations.

B. Emergency installations

1. Emergency Overhead Installations

a. ~~1.~~ The clearances required in Section 23 may be decreased for emergency installations. See Rule 230A.

~~2. The burial depth requirements in Part 3 may be waived for the duration of the emergency. See Rule 311C.~~

b. ~~3.~~ The strength of material and construction for emergency installations shall ~~be not less than that required~~ meet or exceed the requirements for Grade N construction. See Rule 263.

2. Emergency Underground Installations

The burial depth requirements in Part 3 may be waived for the duration of the emergency. See Rule 311C.

3. ~~4.~~ Emergency installations shall be removed, replaced, or relocated, ~~as desired,~~ as soon as practical.

C. Temporary installations

When an installation is for temporary service, or where facilities are temporarily relocated or reconfigured to facilitate other work, the resulting installation shall meet the requirements for non-temporary installation.

EXCEPTION 1: For temporary ~~Additionally, for~~ overhead installations, the strength of material and construction shall meet or exceed ~~be not less than that required for~~ Grade N construction. See Rule 263 and Table 261-1 footnote 4.

EXCEPTION 2: For temporary underground installations where ~~EXCEPTION: Where~~ conditions, such as but not limited to frozen ground, do not permit cable to meet the burial depth requirements of Rule 352D2, cable ~~for temporary underground installations~~ may be laid on grade provided the requirements of Rule 311C and Rule 014B3 ~~014B4~~ are met.

Supporting Comment

Rule 014A is not intended to create an open-ended option to waive other rules in the case of an emergency or temporary installation. The proposed modification to this rule clarifies that other rules may only be waived for these installations as allowed by other parts of Rule 014. The proposed modifications to Rule 014B are intended to clearly separate what is what is required for all emergency installations, and what is required for overhead or underground installations. The proposed modifications to Rule 014C are intended to resolve confusion created by the 2023 revision to this rule. Interpretation Request 598 pointed out that while adding a clear exception to this rule for temporary underground installations, a small wording change addressing temporary overhead installations created some confusion. The words “except that” were changed to “Additionally” before what was intended to be an exception to the general requirement that allowed temporary overhead installations to meet only Grade N strength requirements. This minor wording change

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created some confusion about whether this was now an additional requirement as opposed to an exception. These modifications to Rule 014 resolve this confusion.

SC1 Recommendation

Accept as Modified

014. Waiver for emergency and temporary installations

A. General

The person responsible for an installation may modify or waive rules in the case of emergency or temporary installations as specified in Rules 014B and 014C, respectively.

B. Emergency installations

1. Emergency Overhead Installations

a. The clearances required in Section 23 may be decreased for emergency installations. See Rule 230A.

b. The strength of material and construction for emergency installations shall meet or exceed the requirements for Grade N construction. See Rule 263.

~~1. The clearances required in Section 23 may be decreased for emergency installations. See Rule 230A.~~

~~2. The burial depth requirements in Part 3 may be waived for the duration of the emergency. See Rule 311C.~~

~~3. The strength of material and construction for emergency installations shall be not less than that required for Grade N construction. See Rule 263.~~

~~4. Emergency installations shall be removed, replaced, or relocated, as desired, as soon as practical.~~

2. Emergency Underground Installations

The burial depth requirements in Part 3 may be waived for the duration of the emergency. See Rule 311C.

3. Emergency installations shall be brought into compliance with the requirements for permanent installations when practical.

C. Temporary installations

1. Temporary overhead installations

When an installation is for overhead temporary service, or where facilities are temporarily relocated or reconfigured to facilitate other work, the following apply:

a. The resulting installation shall meet the clearance requirements for permanent installations.

b. The strength of material and construction shall be based on local conditions and meet or exceed Grade N construction. See Rules 012C and 263.

2. Temporary underground installations

When an installation is for underground temporary service, or where facilities are temporarily relocated or reconfigured to facilitate other work, the resulting installation shall meet the requirements for non-temporary installation. ~~Additionally, for overhead installations, the strength of material and construction shall be not less than that required for Grade N construction. See Rule 263.~~

EXCEPTION: Where conditions, such as but not limited to frozen ground, do not permit cable to meet the burial depth requirements of Rule 352D2, cable ~~for temporary underground installations~~ may be laid on grade provided the requirements of Rule 311C and Rule 014B3 are met. ~~014B4 are met.~~

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Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06284

Section 1. Introduction to the National Electrical Safety Code
Rule 014. Waiver for emergency and temporary installations

Submitter

Scott Smith

Proposed Change

014. Waiver for emergency and temporary installations

B. Emergency installations

1. Emergency Overhead Installations

a. The clearances required in Section 23 may be decreased for emergency installations. See Rule 230A.

b. The strength of material and construction for emergency installations shall meet or exceed the requirements for Grade N construction. See Rule 263.

2. Emergency Underground Installations

~~1. The clearances required in Section 23 may be decreased for emergency installations. See Rule 230A.~~

~~2. The burial depth requirements in Part 3 may be waived for the duration of the emergency. See Rule 311C.~~

~~3. The strength of material and construction for emergency installations shall be not less than that required for Grade N construction. See Rule 263.~~

~~4. Emergency installations shall be removed, replaced, or relocated, as desired, as soon as practical.~~

The burial depth requirements in Part 3 may be waived for the duration of the emergency. See Rule 311C. 3. Emergency installations shall be removed, or brought into compliance with the requirements for permanent installations as soon as practical.

Supporting Comment

This proposal is to split emergency installations into two parts, overhead and underground. This will make clear that the strength of construction only applies to emergency overhead and not to emergency underground. This change will also make clear that the emergency installation must be removed or brought up to the requirements for permanent installations once the emergency no longer exists. Also, the term “as desired” may suggest that the options listed are not necessarily required.

SC1 Recommendation

Accept in Principle

SC1 Comment

See action taken on CP6330.

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Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06015

Section 1. Introduction to the National Electrical Safety Code
Rule 014. Waiver for emergency and temporary installations

Submitter

Lawrence M. Slavin

Proposed Change

014. Waiver for emergency and temporary installations

C. Temporary installations

When an installation is for temporary service, or where facilities are temporarily relocated or reconfigured to facilitate other work, the resulting installation shall meet the requirements for non-temporary installation, except that ~~installation. Additionally, for overhead installations,~~ the strength of material and construction shall be not less than that required for Grade N construction. See Rule 263.

EXCEPTION: Where conditions, such as but not limited to frozen ground, do not permit cable to meet the burial depth requirements of Rule 352D2, cable for temporary underground installations may be laid on grade provided the requirements of Rule 311C and Rule 014B4 are met.

Supporting Comment

IR 598 pointed out a direct contradiction between present Rule 014B and Footnote 4 of Table 261-1. This change proposal is one of several alternatives to resolve this contradiction.

SC1 Recommendation

Accept in Principle

SC1 Comment

See action taken on CP6330.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06021

Section 1. Introduction to the National Electrical Safety Code
Rule 014. Waiver for emergency and temporary installations

Submitter

John A Palmer

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Proposed Change

014. Waiver for emergency and temporary installations

C. Temporary installations

When an installation is for temporary service, or where facilities are temporarily relocated or reconfigured to facilitate other work, the resulting installation shall meet the requirements for non-temporary installation. Additionally, for overhead installations, the strength of material and construction shall be not less than that required for Grade N construction. See Rule 263.

Temporary installations shall be removed, replaced, or relocated, as desired, as soon as practical after the completion of the work that necessitated the temporary installation.

EXCEPTION: Where conditions, such as but not limited to frozen ground, do not permit cable to meet the burial depth requirements of Rule 352D2, cable for temporary underground installations may be laid on grade provided the requirements of Rule 311C and Rule 014B4 are met.

Supporting Comment

The purpose of this proposed addition is to affirm the importance of not allowing a temporary installation to become a permanent installation by default or by neglect. It is intended to affirm the importance of completing a project timely after temporary reconfigurations are no longer necessary.

SC1 Recommendation

Reject

SC1 Comment

See action taken on CP6330. Some temporary installations can appropriately remain permanent.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Revised Text

CP06285

Section 1. Introduction to the National Electrical Safety Code
Rule 014. Waiver for emergency and temporary installations

Submitter

Scott Smith

Proposed Change

014. Waiver for emergency and temporary installations

C. Temporary installations

1. Temporary overhead installations

When an installation is for overhead temporary service, or where facilities are temporarily relocated or reconfigured to facilitate other work, the following shall apply:

a. The resulting installation shall meet the clearance requirements for permanent installations according to Section 23 rules.

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b. The strength of material and construction should be based on accepted good practice for the given local conditions and shall meet or exceed Grade N construction. See Rules 012C and 263.

2. Temporary underground installations

When an installation is for underground temporary service, or where facilities are temporarily relocated or reconfigured to facilitate other work, the resulting Installation shall meet the resulting installation shall meet the requirements for non-temporary installation. ~~Additionally, for overhead installations, the strength of material and construction shall be not less than that required for Grade N construction. See Rule 263.~~

EXCEPTION: Where conditions, such as but not limited to frozen ground, do not permit cable to meet the burial depth requirements of Rule 352D2, cable for temporary underground installations may be laid on grade provided the requirements of Rule 311C and Rule 014B4 are met.

Supporting Comment

Deleting the word "except" from Rule 014C in the 2017 Code and replacing it with the word "additionally" in the 2023 Code created some confusion in the application of and intent of the strength requirements for this rule as evidenced by IR 598. This change will split temporary installations into two separate rules, clearance, and strength requirements and should limit confusion, especially the Grades of construction requirement for overhead.

SC1 Recommendation

Accept in Principle

SC1 Comment

See action taken on CP6330.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06022

Section 1. Introduction to the National Electrical Safety Code
Rule 015. Intent

Submitter

John A Palmer

Proposed Change

015. Intent

B. The word should indicates provisions that are normally and generally practical for the specified conditions. However, where the word "should" is used, it is recognized that, in certain instances, additional local conditions not specified herein may make these provisions impractical. When this occurs, the difference in conditions shall be appropriately recognized and Rule 012 shall be met.

NOTE: "Normally and generally practical" as described in Rule 015B is not intended to suggest that compliance is completely optional. Instead, it is intended to communicate that deviation from "should" provisions is a rare exception which should be implemented only after careful review by qualified personnel. It is recommended that a record of such review be preserved for future reference.

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Supporting Comment

Many instances can be cited of utilities failing to implement “should” provisions of the Code simply because of a matter of convenience or resources immediately at hand. Interpretation of the term “should” in such a way negates the importance of the code and even challenges the value of any such provisions being included in the Code. The proposed note is intended to affirm the validity of the provisions of the Code and remind utilities that just because the term “should” is used, it is not intended to imply that the application of such provisions is completely at the discretion of whatever personnel happen to be on site. Rather, it encourages utilities to be conscientious about evaluating exceptions to the Rules.

SC1 Recommendation

Reject

SC1 Comment

The word should recognizes that the rule may not be practical in all cases. Where should is used facilities are to be designed, installed, and maintained in a manner consistent with the prevailing conditions and in accordance with Rule 012.

Vote on SC1 Recommendation

Affirmative: (8) Lauren E. Gaunt, Mickey B Gunter, Mark Jurgemeyer, Brent McKinney, William Munn, Mark Nelson (Alternate for George Arhos), Keith Reese, Ron Wellman; Absent/No Return: (1) Samuel Stonerock

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Added Text

CP06469

Section 1. Introduction to the National Electrical Safety Code
Rule 016. Effective date

Submitter

Michael Garrels

Proposed Change

016. Effective date

This edition may be used at any time on or after the publication date. Additionally, this edition shall become effective no later than the first day of the month after 180 days have elapsed following its publication date for application to new installations and extensions where both design and approval were started after the expiration of that period, unless otherwise stipulated by the administrative authority.

EXAMPLE: ~~Example:~~ If the NESC is published on August 1, 2022, then it will become effective on February 1, 2023.

NOTE: A period of not less than 180 days is allowed for utilities and regulatory authorities to acquire copies of the new edition and to change regulations, internal standards, and procedures as may be required. There is neither an intention to require or imply that this edition be implemented before 180 days from the publication date, nor an intention to prohibit earlier implementation.

Supporting Comment

According to Rule 015F EXAMPLE and NOTE should have the same precedence.

SC1 Recommendation

Accept

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