

NESC© 2007 Edition Revision Process

Repository Database

Meetings Area

[Back to
Home Page](#)

[Query/Modify
Records](#)

[Reports](#)

[Prepare for
Meetings](#)

[Meetings
Area](#)

[NESC
Zone](#)

[NESC Revision Process
Home Page](#)

NESC SUBCOMMITTEE 7
UNDERGROUND LINES
26 Sep, 2005-26 Sep, 2005
IEEE, Piscataway, NJ

Name	Organization	09/26
------	--------------	-------

P.M Abaray (Alternate)	AAR	A
Alan J Amato (Principal)	SCTE	A
O C Amrhyn (Principal)	self	X
Christopher Austin (Principal)	NCTA	X
Charles C Bleakley (Principal)	SEEX	X
Trevor Bowmer (Alternate)	ATIS	X
Rex Bullinger (Alternate)	NCTA	A
Michael Dyer (Principal)	APPA	X
Rafael Fernandez (Principal)	EIA	A
Lauren E Gaunt (Principal)	EEI	X
Mickey B Gunter (Alternate)	SEEX	X
Dennis Henry (Principal)	ATIS	X
Trung Hiu (Principal)	RUS	X
David H Kendall (Principal)	NEMA	A
Steve Mace (Alternate)	NCTA	A
James D Mars (Principal)	Self	A
Andrew Metrick (Principal)	EEI	A
Dennis B Miller (Principal)	EEI	A
Michael C Pehosh (Principal)	NRECA	X
Percy E Pool (Alternate)	EIA	A
George S Pristach (Principal)	APTA	A
Ewell T Robeson (Principal)	IEEE	X
Robert D Saint (Alternate)	NRECA	X
Lawrence M Slavin (Principal)	ATIS	A
John C Spence (Principal)	EEI	X
Monte Szendre (Principal)	NECA	X
James R Tomaseski (Principal)	IBEW	A

Richard S Vencus (Principal)	IEEE	A
Ted S Woo (Principal)	SCTE	A
Guest		
William Ash		X
O.L. Davis	NECA	X

Chair: Charles Bleakley X - Present

Secretary: John Spence A - Absent

Revised Text

Part: 3 Section: 32 Note 1 under heading **CP2706**

Also Section:2 Definitions conduit SC1

Section:09 092 B3 SC2

CM4266 Ron Corzine Savannah Electric

Section:09 092 B3

CM4345 J Frederick Doering Self

Entire CP

CM4418 James T Collins Southeastern Electric Exchange

Section:2 Definitions conduit

CM4424 James T Collins Southeastern Electric Exchange

Section:09 092 B3

CM4465 James T Collins Southeastern Electric Exchange

Part:3 Section:32 Note 1 under heading

CM4970 Keith Reese Georgia Power Company

Section:09 092 B3

CM5027 Allen Clapp self

Section:2 Definitions conduit

Subcommittee Recommendation: Reject

Subcommittee Comment:

See comments from Preprint.

Vote on Subcommittee Recommendation:

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

Revised Text

Part: 3 Section: 32 Note 2 under heading **CP2705**

Also Part:3 Section:35 350 H **SC7**

CM4009 Lanny Smith Individual

Part:3 Section:35 350 H

CM4039 David Marne NSPE/HDR/Self

Part:3 Section:35 350 H

CM4466 James T Collins Southeastern Electric Exchange

Part:3 Section:35 350 H

CM5026 Allen Clapp self

Entire CP

Subcommittee Recommendation: Accept as modified in 2005

Subcommittee Comment:

Vote on Subcommittee Recommendation:

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

New Text

Part: 3 Section: 31 Rule: 311 C **CP2556**

Subcommittee Recommendation: Accept in Principle

Subcommittee Comment:

See CP2623

Vote on Subcommittee Recommendation:

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

New Text

Part: 3 Section: 31 Rule: 311 C **CP2623**

CM5016 Allen Clapp self

Part:3 Section:31 311 C

Subcommittee Recommendation: Accept

Subcommittee Comment:

Vote on Subcommittee Recommendation:

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

Revised Text

Part: 3 Section: 31 Rule: 312 **CP2763**

Subcommittee Recommendation: Accept

Subcommittee Comment:

Vote on Subcommittee Recommendation:

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

Deleted Text

Part: 3 Section: 31 Rule: 313 **CP2712**

Also Section:4 SC1

Part:1 Section:12 121 SC3

Part:2 Section:21 214 SC4

CM4352 J Frederick Doering self

Section:4

CM4420 James T Collins Southeastern Electric Exchange

Section:4

CM4705 Michael Hyland American Public Power Association

Part:1 Section:12 121

CM5022 Allen Clapp self

Entire CP

Subcommittee Recommendation: Reject

Subcommittee Comment:

Vote on Subcommittee Recommendation:

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

Revised TextPart: 3 Section: 31 Rule: 315 A3 **CP2641***Also Table of Contents SC8**Part:1 Section:12 124 Table 124-1 SC3**Part:2 Section:22 223 A3 SC4**Part:4 Section:44 441 A4 SC8**Part:4 Section:44 441 A4a SC8**Part:4 Section:44 441 A4b SC8**Part:4 Section:44 441 A4b2 SC8**Part:4 Section:44 441 A5b SC8**Part:4 Section:44 441 B3a SC8**Part:4 Section:44 441 Table 441-2 SC8**Part:4 Section:44 441 Table 441-3 SC8**Part:4 Section:44 441 Table441-4 SC8***CM4222 J Frederick Doering Self**

Table of Contents

CM4303 Jeffrey Boksiner

Part:2 Section:22 223 A3

CM4305 Jeffrey Boksiner

Part:3 Section:31 315 A3

CM4416 James T Collins Southeastern Electric Exchange

Entire CP

CM4766 Michael Hyland American Public Power Association

Entire CP

CM4767 Michael Hyland American Public Power Association

Entire CP

Subcommittee Recommendation: Reject**Subcommittee Comment:**

See comments from Preprint.

Vote on Subcommittee Recommendation:**Affirmative:** (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo**Negative:** (0)**Abstention:** (0)**Explanation of Vote:**

Revised TextPart: 3 Section: 32 Rule: 320 B2 **CP2764****Subcommittee Recommendation:** Accept**Subcommittee Comment:****Vote on Subcommittee Recommendation:****Affirmative:** (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo**Negative:** (0)

Abstention: (0)

Explanation of Vote:

New Text

Part: 3 Section: 32 Rule: 322 A **CP2811**

CM4779 Steve West Portland General Electric

Part:3 Section:32 322 A

Subcommittee Recommendation: Reject

Subcommittee Comment:

See comments from Preprint.

Vote on Subcommittee Recommendation:

Affirmative: (13) Austin, Bleakley, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Spence, Szendre, Tomaseski, Woo

Negative: (1) Dyer

Abstention: (1) Slavin

Explanation of Vote:

Dyer - The intent of this change proposal was to provide a means to assist with inspection identification and list the specific colors required for the various facilities based on the American Public Works Association in a similar fashion as Rule 350G addressed cable jackets.

The subcommittee comments rejecting this proposal are based on permanency, however Rule 350G requiring marking of a cable jacket does not address permanency. Generally fading occurs because of exposure to Ultra-Violet radiation, this is a time dependent storage issue not likely to occur when installed in a trench or during the time of the inspection process

Duct(s) not part of an underground conduit system shall comply with the requirements of rule 350H, which allows random lay or a specific clearance with various other facilities. When ducts are similar in appearance, inspection for compliance with these requirements is exceedingly difficult. Ducts colored to indicate the type of facilities to be contained will assist the inspection process.

IEEE standard 1235-2000 defines the properties required for identifiable jackets for power cables and ducts. This provides a basis for the Code to address this issue, either as a requirement or a recommendation, listing the appropriate colors for the various facilities, rather than the implied "does not prohibit".

Slavin - I believe this CP has merit, but am concerned about possible unintended consequences associated with being overly dependent upon such a system, including the possibility of colors fading, ...

New Text

Part: 3 Section: 34 Rule: 342 A **CP2631**

Subcommittee Recommendation: Accept as modified in 2003

Subcommittee Comment:**Vote on Subcommittee Recommendation:**

Affirmative: (14) Austin, Bleakley, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (1) Dyer

Abstention: (0)

Explanation of Vote:

Dyer - Believe "bare" is unnecessary and may cause confusion. The hazard is defined fully with the words "exposed to personnel contact."

Deleted Text

Part: 3 Section: 35 Rule: 350 F **CP2765**

Also Part:3 Section:38 384 C SC7

CM4297 Gregory Obenchain Edison Electric Institute

Part:3 Section:38 384 C

CM4333 Percy E. Pool EIA

Part:3 Section:35 350 F

CM4467 James T Collins Southeastern Electric Exchange

Part:3 Section:35 350 F

CM5035 Allen Clapp self

Part:3 Section:35 350 F

Subcommittee Recommendation: Accept as modified in 2005

Subcommittee Comment:**Vote on Subcommittee Recommendation:**

Affirmative: (11) Austin, Bleakley, Gaunt, Hiu, Miller, Pehosh, Robeson, Slavin, Spence, Tomaseski, Woo

Negative: (4) Pool, Henry, Szendre, Dyer

Abstention: (0)

Explanation of Vote:

Dyer - Believe an exposed pole ground directly within 6 ft. of another above ground metallic apparatus presents the same hazard as two above ground metallic apparatus separated by less than 6 ft. Therefore bonding should be provided.

Henry - Telcordia considers that a bond between a pedestal and a pole that is within 6-feet is a useful procedure to can help reduce the hazard exposure resulting from a potential difference between pole ground and an adjacent pedestal or case. The installation of such a bond should be considered where practical and where (a) the process of bonding the pieces does not reduce the effective grounding of the system, (b) the bonding wire is adequately buried or physically protected and (c) the effective ground is present at the pedestal.

It should be noted that Rule 350F and the new language for Rule 384C does not require a bond between pole ground and pedestal. However , the bond can be added for increased safety. Nothing in the Rule prohibits the bonding practice.

Pool - I agree with the relocation of text from Rule 350F to 384C but do not agree with the addition of additional text from comments. An exposed pole ground directly within 6 feet of another above ground metallic apparatus would present the same hazard as two above ground metallic apparatus separated by less than 6 feet. Therefore bonding should be provided. Common bonding between power and communication apparatus helps to reduce potential differences between metallic parts that could be touched simultaneously. Common bonding is necessary for personnel safety.

Szendre - Agree with movemnet of text from 350F to 384C but reject adding language per comment SEE SC7-3 as I feel this is a new change proposal that could be submitted for 2012 Code.

Revised Text

Part: 3 Section: 35 Rule: 350 G **CP2812**

CM4236 Robert Kluge Wisconsin Utilities Association

Part:3 Section:35 350 G

Subcommittee Recommendation: Reject

Subcommittee Comment:

See comments from Preprint.

Vote on Subcommittee Recommendation:

Affirmative: (13) Austin, Bleakley, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Spence, Szendre, Tomaseski, Woo

Negative: (1) Dyer

Abstention: (1) Slavin

Explanation of Vote:

Dyer - The intent of this change proposal was to address perceived deficiencies with the cable jacket marking presently required by Rule 350G. Those deficiencies being, viewing angle, size and permanency of surface ink marking. Multiple stripes provide an all angle view, are continuous and are a physical part of the extruded jacket. The listed specific colors required are based on the American Public Works Association.

Generally fading occurs because of exposure to Ultra-Violet radiation, this is a time dependent storage issue not likely to occur when installed in a trench or during the time of the inspection process

IEEE standard 1235-2000 defines the properties required for identifiable jackets for power cables and ducts. This provides a basis for the Code to address this issue, either as a requirement or a recommendation, listing the appropriate colors for the various facilities, rather than the implied "does not prohibit".

Slavin - See my comment for CP 2811.

Revised Text

Part: 3 Section: 35 Rule: 351 C1 **CP2557**

Subcommittee Recommendation: Accept in principle

Subcommittee Comment:

See CP2622

Vote on Subcommittee Recommendation:

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

New Text

Part: 3 Section: 35 Rule: 351 C1 **CP2622**

CM4468 James T Collins Southeastern Electric Exchange

Part:3 Section:35 351 C1

Subcommittee Recommendation: Accept as modified in 2003

Subcommittee Comment:**Vote on Subcommittee Recommendation:**

Affirmative: (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo

Negative: (0)

Abstention: (0)

Explanation of Vote:

Revised TextPart: 3 Section: 35 Rule: 351 C5 **CP2500****CM4003 Lawrence Slavin** Alliance for Telecommunications Industry Solutions

Part:3 Section:35 351 C5

Subcommittee Recommendation: Reject**Subcommittee Comment:**

See comments from Preprint.

Vote on Subcommittee Recommendation:**Affirmative:** (13) Austin, Bleakley, Dyer, Gaunt, Hiu, Miller, Pehosh, Pool, Robeson, Spence, Szendre, Tomaseski, Woo**Negative:** (2) Henry, Slavin**Abstention:** (0)**Explanation of Vote:**

Henry - As directional drilling has become a more common method of installing supply and communication lines the need for awareness and adherence of industry safety practices is critical to its success. There are many safety concerns that must be considered when employing directional drilling. By addressing these concerns and referring to best management practices within the NESC it will help raise awareness and hopefully reinforce the use of these safety practices.

Slavin - See comment 4003.

Revised TextPart: 3 Section: 35 Rule: 352 C, D **CP2501****CM4006 Lawrence Slavin** Alliance for Telecommunications Industry Solutions

Part:3 Section:35 352 C, D

Subcommittee Recommendation: Reject**Subcommittee Comment:**

See comments from Preprint.

Vote on Subcommittee Recommendation:**Affirmative:** (14) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Spence, Szendre, Tomaseski, Woo**Negative:** (1) Slavin**Abstention:** (0)**Explanation of Vote:**Slavin - See comment 4003.

New TextPart: 3 Section: 35 Rule: 352 E **CP2558***Also Part:3 Section:35 352 F SC7***Subcommittee Recommendation:** Accept in principle**Subcommittee Comment:****Vote on Subcommittee Recommendation:****Affirmative:** (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo**Negative:** (0)**Abstention:** (0)**Explanation of Vote:**

New TextPart: 3 Section: 35 Rule: 352 E, F **CP2624****Subcommittee Recommendation:** Accept**Subcommittee Comment:****Vote on Subcommittee Recommendation:****Affirmative:** (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo**Negative:** (0)**Abstention:** (0)**Explanation of Vote:**

Revised TextPart: 3 Section: 35 Rule: 354 A2 **CP2537****CM4742 Mickey Gunter** Georgia Power Company (Retired)*Part:3 Section:35 354 A2***Subcommittee Recommendation:** Accept as modified in 2005**Subcommittee Comment:****Vote on Subcommittee Recommendation:****Affirmative:** (15) Austin, Bleakley, Dyer, Gaunt, Henry, Hiu, Miller, Pehosh, Pool, Robeson, Slavin, Spence, Szendre, Tomaseski, Woo**Negative:** (0)**Abstention:** (0)**Explanation of Vote:**

Meeting Conclusion:**WG 7.6 Separation Distance of Conduit and Gas Lines**

Will look into the separation distance between conduit and gas lines. Also look at color coding and markings for conduit and direct burial cable. Look at the definition of duct, conduit, and duct bank.

Mickey Gunter - Chair

Michael Pehosh

Mike Dyer

Tim Robeson

Dennis Henry

Monte Szendre

John Spence

Trevor Bowmer

Jim Tomaseski