EXHIBIT
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OCT-21-1995 10:33 A I W 1 401 723 3580 P. 02/03 FURM FUR PROPERSON FUR 1777 INALIGNAL LELCCAL COLUMN 723 3580 P. 02/03

INSTRUCTIONS PLEASE READ CAREFULLY
Type or print in Black Ink. Use a separate copy for each proposal.
Limit each proposal to a SINGLE section. All proposals must be received by NFFA by 5 p.m., E.S.T., Friday November 8, 1996 to be considered for the 1999 National Electrical Code. Proposals received after 5:00 p.m., E.S.T., Friday, November 8, 1996 will be returned to the submitter.

Date Rec'd:
Office Use Only

| after 5:00 p.m., E.S.1., Friday, Novemb to the submitter. | ei 0, 1990 WIII 5e ie | | | OCT 21 1998 |
|--|---|---|--|--|
| Date: 10/18/96 Name: Paul Peti | t | | Tel. No. | 1-401-726-0700 EX.330 |
| Company American Insulated | Wire Corp. | | · | |
| Street Address: F.O. Box 880 | City: | Pawtucket | State: | RI Zip: 02862 |
| Please Indicate Organization Represented | (if any):1 | N/A | | , |
| 1. Section/Paragraph: Section 310 | O Table 310-13 | | | · · · · · · · · · · · · · · · · · · · |
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| 2. Proposal recommends (check one): | new text | revised text | deleted te | ext |
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| We have had numerous requests type USE exposed to sunlight, than the black PVC type UF cafor direct burial but limited feeder cables are also suitables 14 AWG. Therefore, 14 AWG as a new code size. This Proposal is original material. This Proposal is not original material. Note: Original material is considered to be thought or research and, to the best of the hereby grant the NFPA the nonexclusive, royalosal, and I understand that I acquire no rights. | s for 14 AWG ty The black th thles. Type US to 12 AWG as Ile for direct types USE and I, its source (if know the submitter's ow of his/her knowled in any publication of onal Fire Protection | ermosets type iE and type US the smallest burial and ar USE-2 cables vn) is as follow: n idea based on or ge, is not copied fr ling non-exclusive, of NFPA in which this Signati | he years e USE perfo E-2 cables Tables E-2 cables E-2 c | specially for rms better are suitable underground as small so be allowed his/her own experience, ource. hts in copyright, in this promis or another similar or analogue. |
| We have had numerous requests type USE exposed to sunlight. than the black FVC type UF cafor direct burial but limited feeder cables are also suitab as 14 AWG. Therefore, 14 AWG as a new code size. 5. This Proposal is original material This Proposal is not original material Note: Original material is considered to be thought or research and, to the best of the proposal and lunderstand that I acquire no rights your form is used. Mail to: Secretary Standards Council, Nati | s for 14 AWG ty The black th thles. Type US to 12 AWG as Ile for direct types USE and I, its source (if know the submitter's ow of his/her knowled in any publication of onal Fire Protection | ermosets type iE and type US the smallest burial and ar USE-2 cables vn) is as follow: n idea based on or ge, is not copied fr ling non-exclusive, of NFPA in which this Signati | he years e USE perfo E-2 cables Tables E-2 cables E-2 c | specially for rms better are suitable underground as small so be allowed his/her own experience, ource. hts in copyright, in this promis or another similar or analogue. |



10/23/96

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NFPA NEC

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FORM FOR PROPOSALS FOR 1999 NATIONAL ELECTRICAL CODE®

| INSTRUCTIONS PLHASE READ CAREFULLY Type or print in Black Ink. Use a separate copy for each proposal. Limit each proposal to a SINGLE section. All proposals must be received by NFPA by 5 p.m., E.S.T., Friday November 8, 1996 to be considered for the 1999 National Electrical Code. Proposals received after 5:00 p.m., E.S.T., Friday, November 8, 1996 will be returned to the submitter. |
|--|
| Date: 1/-1-96 Name: ART PETRUZATES Tel. No. (3/6) 942-8223 |
| Company IDEAL PRODUCTS INC. P.O. BOX 17227 |
| Street Address: 2520 S. SHERIDAN City WICHITA State KC Zpf 72/7 |
| Please Indicate Organization Represented (if any): |
| 1. Section/Paragraph: 370-16 (a) EXCEPTION NO-1 |
| 2. Proposal recommends (check one): A new text |
| 3. Proposal (include proposed new wording, or identification of wording to be deleted): Where PLASTER rings of the WARIABLE TYPE ARE USED, and adjusted to a greater depth than the minimum Setting, it shall be permissible for the Authority having Jurisdiction to Allow a volume calculation that is equal to the volume of a PLASTER ring of equal or equivalent depth. |
| 4. Statement of Problem and Substantiation for Proposal: Currently, the UL LISTED VOLUME OF PLASTER YINGS OF the Advistable type Is that of the Fing at its minimum setting, The does not Allow the electricien to take advantage of the increased volume Which occurs when the ring is extended to a greater depth, (At less to do increase in many cases) This proposel would allow the authority having junsdiction to allow the use of this extra volume by allowing the authority to compare the Advistable ring volume to a fixed. This Proposal is original material. Hing volume, it is simple to calculate the Alloward This Proposal is not original material, its source (if known) is as follow: Note: Original material is considered to be the submillier's own idea based on or as a result of his/her own experience, thought or research and, to the best of his/her knowledge, is not copied from another source. |
| I hereby grant the NFPA the nonexclusive, royalty-free rights, including non-exclusive, royalty-free rights in copyright, in this proposal, and I understand that I acquire no rights in any publication of NFPA in which this proposal in this or another similar or analogous form is used. Signature (Required) |
| Mail to:Secretary, Standards Council, National Fire Protection Association, 1 Batterymarch Park, P.O. Bo: 9101 Quincy, MA 02269 or FAX to 617-770-8500 |



FORM FOR PROPOSALS ON NFPA TECHNICAL COMMITTEE DOCUMENTS NOV 0 6 1995

DATE: 10/31/95

NAME: Thomas F. Pegg

PHONE: (412)645-8583

ADDRESS: 333 Forbes Avenue Pittsburgh, PA

REPRESENTING: HILB, ROGAL AND HAMILTON COMPANY OF PITTSBURGH, INC.

- la. Document Title: National Electric Code NFPA No. & Yr.: 70-1993
- Proposal Recommends: New Text
- Proposal:

Add to 210-8. Ground-Fault Circuit-Interupter Protection for Personnel В. Receptacles (1) Add language: That all outdoor outlets be protected by Ground-Fault Protection.

Statement of Problem and Substantiation for Proposal:

We believe the code is ambiguous in where GFI outlets are needed or should be provided.

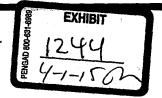
We have a client who is a major distributor of vending machines. They are frequently required to provide vending machines for outdoor use. It would seem logical to have these outdoor receptacles protected by GFI's.

This proposal is original material.

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Thomas

èqq,



FORM FOR PROPOSALS ON NFPA TECHNICAL COMMITTEE DOCUMENTS

If you need further information on the standards-making process, please contact the Standards Administration Department at 617-984-7249.

Mail to: Secretary, Standards Council National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02269-9101 Fax No. 617-770-3500

Note: All proposals must be received by 5:00 p.m. EST/EDST on the published proposal-closing date.

Name Joseph A. Tedesco Date 12-10-95 ____Tel. No. 617523 7/37 Company Please Indicate Organization Represented (if any) 1. a) NFPA Document Title b) Section/Paragraph FOR OFFICE USE ONLY 2. Proposal Recommends: (Check one) upw text Log #_ Prevised text DEC 26 1995 Date Rec'd_ ☐ deleted text

3. Proposal (include proposed new or revised wording, or identification of wording to be deleted):

Please delete the word: "Substantially" the 3rd paragraph will read as follows: Where the voltage exceeds 600 volts nominal, permanent and conspicious warning signs shall be provided reading as follows:

4. Statement of Problem and Substantiation for Proposal: (Note: State the problem that will be resolved by your recommendation; the proposal including confer of the p

tion; give the specific reason for your proposal including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.)

Sections 230-203, 370-72(e), 665-23, 7/0-43 and 7/0-45 do not use the word substantially and are specific.

5. This Proposal is original material. (Note: Original material is considered to be the submitter's own idea based on or as a result of his/her own experience, thought, or research and, to the best of his/her knowledge is not copied from another source.)

☐ This Proposal is not original material; its source (if known) is as follows:

Note 1: Type or print legibly in black ink.

Note 2: If supplementary material (photographs, diagrams, reports, etc.) is included, you may be required to submit sufficient copies for all members and alternates of the technical committee.

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Signature (Required)

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FORM FOR PROPOSALS ON NFPA TECHNICAL COMMITTEE DOCUMENTS

Mail to: Secretary, Standards Council

National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02269-9101

Fax No. 617-770-3500

Note: All proposals must be received by 5:00 p.m. E.S.T./E.D.S.T. on the published proposal closing date.

Date 12/14/95

Name Stan Kaufman

Tel. No. 770-798-2833

Address: AT&T, 2000 Northeast Expressway, Room 2G44, Norcross, GA 30071

Representing (Please indicate organization, company or self)

1. a) Document Title: National Electrical Code

NFPA No. & Year

b) Section/Paragraph:

725-61 (f)

2. Proposal recommends: (Check one) deleted text

FOR OFFICE USE ONLY

Date Rec'd: Proposal #:

3. Proposal (include proposed new or revised wording, or identification of wording to be deleted):

Delete the words "wire or" from section 725-61 (f) to read as follows:

DEC 2 5 1995

Type CL2 or CL3 cable shall be used.

4. Statement of Problem and Substantiation for Proposal:

Wire is not defined in this article.

5. This Proposal is not original material; its source (if known) is as follows:

725-61 (f)

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Signature (Required)

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P725-61P.DOC



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Mail to: Secretary, Standards Council
National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02269-9101
Fax No. 617-770-3500

Note: All proposals must be received by 5:00 p.m. EST/E.D.S.T. on the published proposal closing date.

Date 12/18/95

Name Stan Kaufman

Tel. No. 770-798-2833

Address: AT&T, 2000 Northeast Expressway, Room 2G44, Norcross, GA 30071

Representing (Please indicate organization, company or self)

1. a) Document Title: National Electrical Code

b) Section/Paragraph:

NFPA No. & Year 70, 1999

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Log#: _ みの

Date Rec'd: DEC 2 8 199

Proposal #: __

2. Proposal recommends: (Check one) new text

Proposal (include proposed new or revised wording, or identification of wording to be deleted):

Reword section 800-52 (a) as shown below,

800-52. Installation of Communications Wires, Cables, and Equipment.

Communications wires and cables from the protector to the equipment or, where no protector is required, communications wires and cables attached to the outside or inside of the building shall comply with (a) through (e) below.

- (a) Separation from Other Conductors.
- (1) In Raceways, Boxes, and Cables.
- a. Other Power-Limited Circuits. Communications cables shall be permitted in the same raceway or enclosure with cables of any of the following:
- I. Class 2 and Class 3 remote-control, signaling, and power-limited circuits in compliance with Article 725.
 - 2. Power-limited fire alarm systems in compliance with Article 760.
 - 3. Nonconductive and conductive optical fiber cables in compliance with Article 770.
- Community antenna television and radio distribution systems in compliance with Article 820.
- b. Class 2 and Class 3 Circuits. Class 1 circuits shall not be run in the same cable with communications circuits. Class 2 and Class 3 circuit conductors shall be permitted in the same cable with communications circuits, in which case the Class 2 and Class 3 circuits shall be classified as communications circuits and shall meet the requirements of this article. The cables shall be listed as communications eables or multipurpose cables.

P80032A,DOC

Exception: Cables constructed of individually listed Class 2, Class 3, and communications cables under a common jacket shall not be required to be classified as communications cable. The fire-resistance rating of the composite cable shall be determined by the performance of the composite cable.

c. Electric Light, or Power, Class 1 and Nonpower-limited Fire Alarm Circuits.

1. <u>In Raceways, Compartments and Boxes.</u> Communications conductors shall not be placed in any raceway, compartment, outlet box, junction box, or similar fitting with conductors of electric light, or power, Class 1, or nonpower-limited fire alarm circuits.

Exception No. 1: Where all of the conductors of electric light, or power, Class 1, and or nonpower-limited fire alarm circuits are separated from all of the conductors of communications circuits by a barrier.

Exception No. 2: Electric light, or ppower, Class 1, and or nonpower-limited fire alarm circuit conductors in outlet boxes, junction boxes, or similar fittings or compartments where such conductors are introduced solely for power supply to communications equipment, or for connection to remote control equipment. The electric light or power circuit conductors shall be routed within the enclosure to maintain a minimum of 0.25 in. (6.35 mm) separation from the communications circuit conductors.

2. In Shafts. Communications wires and cables run in the same shaft with conductors of electric light, or power, Class 1, or nonpower-limited fire alarm circuits shall be separated from electric light, or power-conductors, Class 1, and or nonpower-limited fire alarm circuit conductors by not less than 2 in. (50.8 mm).

Exception No.-1: Where either (1) all of the conductors of the-electric light_-or power, Class 1, and or nonpower-limited fire alarm circuits are in a raceway, or in metal-sheathed, metal-clad, nonmetallic-sheathed, or Type UF cables, or (2) all of the conductors of communications circuits are encased in raceway.

-Exception No. 2: Where the electric light or power, Class I or nonpower-limited fire alarm conductors are in a raceway, or in metal-sheathed, metal-clad, nonmetallic-sheathed, or Type UF-cables.

(2) Other Applications. Communications wires and cables shall be separated at least 2 in. (50.8 mm) from conductors of any electric light_or power-eireuits, Class 1, and or nonpower-limited fire alarm circuits.

Exception No. 1: Where <u>either (1) all of the conductors of the</u> electric light,—or power, Class 1, <u>and or nonpower-limited fire alarm circuits conductors are in a raceway or in metal-sheathed, metal-clad, nonmetallic-sheathed, Type AC, or Type UF cables, <u>or (2) all of the conductors of communications circuits are encased in raceway.</u></u>

Exception No. 2: Where the communications wires and cables are permanently separated from the conductors of electric light, power, Class 1, and nonpower-limited fire alarm circuits the other-circuit by a continuous and firmly fixed nonconductor, such as porcelain tubes or flexible tubing, in addition to the insulation on the wire.

222-2

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If all the above marked revisions are accepted, section 800-52 will read as follows:

ويتورك

800-52. Installation of Communications Wires, Cables, and Equipment.

Communications wires and cables from the protector to the equipment or, where no protector is required, communications wires and cables attached to the outside or inside of the building shall comply with (a) through (e) below.

- (a) Separation from Other Conductors.
- (1) In Raceways, Boxes, and Cables.
- a. Other Power-Limited Circuits. Communications cables shall be permitted in the same raceway or enclosure with cables of any of the following:
- Class 2 and Class 3 remote-control, signaling, and power-limited circuits in compliance with Article 725.
 - 2. Power-limited fire alarm systems in compliance with Article 760,
 - 3. Nonconductive and conductive optical fiber cables in compliance with Article 770.
- 4. Community antenna television and radio distribution systems in compliance with Article 820.
- b. Class 2 and Class 3 Circuits. Class 1 circuits shall not be run in the same cable with communications circuits. Class 2 and Class 3 circuit conductors shall be permitted in the same cable with communications circuits, in which case the Class 2 and Class 3 circuits shall be classified as communications circuits and shall meet the requirements of this article. The cables shall be listed as communications or multipurpose cables.

Exception: Cables constructed of individually listed Class 2, Class 3, and communications cables under a common jacket shall not be required to be classified as communications cable. The fire-resistance rating of the composite cable shall be determined by the performance of the composite cable.

- c. Electric Light, Power, Class 1 and Nonpower-limited Fire Alarm Circuits.
- 1. Raceways, Compartments and Boxes. Communications conductors shall not be placed in any raceway, compartment, outlet box, junction box, or similar fitting with conductors of electric light, power, Class 1, or nonpower-limited fire alarm circuits.

Exception No. 1: Where all of the conductors of electric light, power, Class 1, and nonpower-limited fire alarm circuits are separated from all of the conductors of communications circuits by a barrier.

Exception No. 2: Power circuit conductors in outlet boxes, junction boxes, or similar fittings or compartments where such conductors are introduced solely for power supply to communications equipment. The power circuit conductors shall be routed within the enclosure to maintain a minimum of 0.25 in. (6.35 mm) separation from the communications circuit conductors.

P80052A.DO

2. In Shafts. Communications wires and cables run in the same shaft with conductors of electric light, power, Class 1, or nonpower-limited fire alarm circuits shall be separated from electric light, power, Class 1, and nonpower-limited fire alarm circuit conductors by not less than 2 in. (50.8 mm).

Exception: Where either (1) all of the conductors of electric light, power, Class 1, and nonpower-limited fire alarm circuits are in a raceway, or in metal-sheathed, metal-clad, nonmetallic-sheathed, or Type UF cables, or (2) all of the conductors of communications circuits are encased in raceway.

(2) Other Applications. Communications wires and cables shall be separated at least 2 in. (50.8 mm) from conductors of any electric light, power, Class 1, and nonpower-limited fire alarm circuits.

Exception No. 1: Where either (1) all of the conductors of electric light, power, Class 1, and nonpower-limited fire alarm circuits are in a raceway or in metal-sheathed, metal-clad, nonmetallic-sheathed, Type AC, or Type UF cables, or (2) all of the conductors of communications circuits are encased in raceway.

Exception No. 2: Where the communications wires and cables are permanently separated from the conductors of electric light, power, Class I, and nonpower-limited fire alarm circuits by a continuous and firmly fixed nonconductor, such as porcelain tubes or flexible tubing, in addition to the insulation on the wire,

- (b) Spread of Fire or Products of Combustion. Installations in hollow spaces, vertical shafts, and ventilation or air-handling ducts shall be so made that the possible spread of fire or products of combustion will not be substantially increased. Openings around penetrations through fire resistance-rated walls, partitions, floors, or ceilings shall be firestopped using approved methods.
- (c) Equipment in Other Space Used for Environmental Air. Section 300-22(c) shall apply.
- (d) Cable Trays. Types MPP, MPR, MPG, and MP multipurpose cables and Types CMP, CMR, CMG, and CM communications cables shall be permitted to be installed in cable trays.
- (e) Support of Conductors. Raceways shall be used for their intended purpose. Communications cables or wires shall not be strapped, taped, or attached by any means to the exterior of any conduit or raceway as a means of support.

4. Statement of Problem and Substantiation for Proposal:

Including nonpower-limited fire alarm circuits throughout the section corrects an oversight. Deletion of reference to remote control equipment is appropriate since remote control equipment is outside the scope of the article 800. Exception No. 2 to 800-52 (a) (1) c, 1 is revised to permit only power conductors into an enclosure to provide power to a communications circuit since no other nonpower-limited circuit is appropriate. Revision of Exception No 1 to 800-52 (a) (2) permits the two inch separation rule to be waived if communications cables are enclosed in raceway, and thereby corrects an oversight. The remainder of the changes are editorial.

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5. This Proposal is original material.

222-5

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Signature (Required)

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Mail to: Secretary, Standards Council

National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02269-9101 Fax No. 617-770-3500

If you need further information on the standards-making process, please contact the

Note: All proposals must be received by 5:00 p.m. EST/EDST on the published proposal-closing date.

Standards Administration Department at 617-984-7249.

Name WILLIAM PRIESTLEY Tel. No. 603 764-5504 PRIESTLEY LIGHTNING Street Address 1280 CAPE MOON SHINE ROAD: PIERMONT 1. a) NFPA Document Title LIQUEFIED PETROLEUM GASENFPA No. & Year b) Section/Paragraph_ FOR OFFICE USE ONLY new text 2. Proposal Recommends: (Check one) Log #_ D revised text Date Rec'd ☐ deleted text

3. Proposal (include proposed new or revised wording, or identification of wording to be deleted):

ADD: THIS PROVISION SHALL NOT PROHIBIT LP GAS SYSTEM, AS REQUIRED BY NFPA 780 STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS.

4. Statement of Problem and Substantiation for Proposal: (Note: State the problem that will be resolved by your recommendation; give the specific reason for your proposal including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.) LIGHTNING ROD SYSTEMS HAVE BEEN FOUND TO HAVE

THE GAS LINE BONDING CONNECTION REMOVED BY THE GAS SYSTEM INSTALLER. THIS CONNECTION IS REQUIRED BY NFPA 780 SECTIONS 3-17 AND/OR 3-24.2 AND/OR 3-24.3.

NFPA 58 SECTION 3-7.1.3 STATES THAT "GROUNDING AND BONDING WOLD END SHALL NOT BE REQUIRED ON LP-GAS SYSTEMS" THIS PROPOSAL THE CONFUSION 5. This Proposal is original material. (Note: Original material is considered to be the submitter's own idea based on or its a result of his/her own experience, thought, or research and, to the best of his/her knowledge, is not copied from another source.)

☐ This Proposal is not original material; its source (if known) is as follows: ___

Note 1: Type or print legibly in black ink. .

Note 2: If supplementary material (photographs, diagrams, reports, etc.) is included, you may be required to submit sufficient copies for all members and alternates of the technical committee.

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| Form for Proposals on NFPA National Electrical Code |
| NFPA Document and Reference: NFPA 70 100 - Definitions OCT 23 1996 |
| SUBMITTER INFORMATION: |
| First Name: Wayne D. Last Name: Moore, P.E. |
| Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 |
| Address 1: 207 Kensington Trace PO Box; |
| Address 2: |
| City: Stockbridge State: GA Zip: 30281-6908 |
| Representing: Rockbestos/Surprenant Cable Corporation Country: USA |
| Please Indicate organization represented (If any) Date: 10/14/96 |
| FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING: |
| 1.a)Document Title: National Electrical Code NFPA No.: 70 Year: 1996 #1/30 |
| b) Article/Section: 100 - Definitions |
| |
| 2. Proposal recommends: (Check one): |
| 3. Proposal (include proposed new or revised wording, or identification of wording to be deleted): |
| |
| Add new definition: |
| Circuit Integrity (CI). A term used to indicate that a cable will maintain its electrical function for a |
| given period of time under specified fire conditions. |
| Bran barran or wind and a bharran and anninging |
| |
| 4. Statement of Problem and Substantiation for Proposal: |
| A definition is needed to describe a cable that has been designed to function longer during a fire than |
| standard "fire-resistant" cable and to accommodate technology presently being utilized throughout the |
| world. This definition is needed to compliment companion proposals to CMP 16. |
| |
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| 5. 🗵 This Proposal is original material. |
| ☐ This Proposal is not original material; its source (if known) is as follows: |
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| Proposal for Submittal to NFPA as of 10/15/96 |
| Proposal for Submittal to NFPA as of 10/15/96 |
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Form for Proposals on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 760-2 SUBMITTER INFORMATION: OCT 28 1996 First Name: Wayne D. Last Name: Moore, P.E. Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 Address 1: 207 Kensington Trace PO Box: Address 2: City: Stockbridge State: GA Zip: 30281-6908 Representing: Rockbestos/Surprenant Cable Corporation Country: USA Please indicate organization represented (if any) Date: 10/14/96 FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING: 1.a)Document Title: National Electrical Code NFPA No.: 70 Year: 1996 b) Article/Section: 760-2 new text revised text deleted text. 2. Proposal recommends: (Check one): 3. Proposal (include proposed new or revised wording, or identification of wording to be deleted): Add new definition: Fire Alarm Circuit Integrity (CI) Cable. Cable used in fire alarm systems to ensure continued operation of critical circuits during a specified time under fire conditions. 4. Statement of Problem and Substantiation for Proposal: This definition is used to allow new technology, that is presently being used worldwide, to be used in fire alarm systems. This cable can be used in fire alarm circuits to comply with the survivability requirements of the NFPA 72-1996, National Fire Alarm Code with the added benefit of the cable's ability to maintain its electrical function during fire conditions for a defined period of time. 5. A This Proposal is original material. This Proposal is not original material; its source (if known) is as follows:

IF THE IMAGE IS LESS CLEAR THAN THIS NOTICE IS DUE TO THE QUALITY OF THE DOCUMENT. Form for Proposals on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 760-3 (g) New OCT 28 1996 SUBMITTER INFORMATION: First Name: Wayne D. Last Name: Moore, P.E. Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 Address 1: 207 Kensington Trace PO Box: Address 2: City: Stockbridge State: GA Zip: 30281-6908 Representing: Rockbestos/Surprenant Cable Corporation Country: USA Please indicate organization represented (if any) Date: 10/14/96 FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING: #1132 1.a)Document Title: National Electrical Code Year: 1996 NFPA No.: 70 b) Article/Section: 760-3 (g) New 2. Proposal recommends: (Check one): new text revised text deleted text. 3. Proposal (Include proposed new or revised wording, or identification of wording to be deleted): 760-3 (g) Survivability. See the requirements in the NFPA 72-1996, National Fire Alarm Code, sub-sections 3-2.4, 3-4.4, 3-12.4 and 3-12.4.3. 4. Statement of Problem and Substantiation for Proposal: This section needs to be added to assist those individuals in complying with the survivability requirements of NFPA 72-1996. This Proposal is original material. This Proposal is not original material; its source (if known) is as follows:

| Form for Proposals on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 760-31(g) SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 | 96 |
|---|-------------|
| Form for Proposals on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 760-31(g) SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 | 96 |
| Form for Proposals on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 760-31(g) SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Last Name: Moore, P.E. Telephone#: 770-507-0046 | 96 |
| NFPA Document and Reference: NFPA 70 760-31(g) 0CT 2 8 19 SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Last Name: Moore, P.E. Telephone#: 770-507-0046 | 96 |
| NFPA Document and Reference: NFPA 70 760-31(g) 0CT 2 8 19 SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Last Name: Moore, P.E. Telephone#: 770-507-0046 | 96 |
| NFPA Document and Reference: NFPA 70 760-31(g) OCT 2 8 19 SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Last Name: Moore, P.E. Telephone#: 770-507-0046 | 96 |
| NFPA Document and Reference: NFPA 70 760-31(g) OCT 2 8 19 SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Last Name: Moore, P.E. Telephone#: 770-507-0046 | 96 |
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| SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Last Name: Moore, P.E. Telephone#: 770-507-0046 | |
| Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 | |
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| Address 1: 207 Kensington Trace PO Box; | |
| Address 2: | |
| City: Stockbridge State: GA Zip: 30281-6908 | |
| Representing: Rockbestos/Surprenant Cable Corporation Country: USA | |
| Please indicate organization represented (if any) Date: 10/14/96 | |
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| FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING: | |
| 1.a)Document Title: National Electrical Code NFPA No.: 70 Year: 1996 | 1133 |
| b) Article/Section: 760-31(g) | |
| 2. Proposal recommends: (Check one): | |
| 3. Proposal (include proposed new or revised wording, or identification of wording to be deleted): | |
| | • |
| "Cables that are listed for circuit integrity shall be permitted to be identified with the suffix CI." 4. Statement of Problem and Substantiation for Proposal: | |
| Where cables are used that provide circuit integrity to meet the requirements of NFPA 72-1996, National Fire Alarm Code, they should be marked appropriately. This change allows the marking to be used. | e |
| 5. 🛮 This Proposal is original material. | |
| This Proposal is not original material; its source (if known) is as follows: | |
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| SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Address 1: 207 Kensington Trace Address 2: City: Stockbridge Representing: Rockbestos/Surprenant Cable Corporation Please Indicate organization represented (if an OREACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWIN 1.a)Document Title: National Electrical Code NFP/ b) Article/Section: 760-31(g) New | 760-31(g) I Last Name: Telephone#: PO Box: State: Country: my) NG: A No.: 70 revised text on of wording | Moore, 770-507 GA USA Year: | P.E. 0046 Zip: 3028 Date: 10 | |
|--|---|-------------------------------|---|---------------------|
| NFPA Document and Reference: NFPA 70 SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Address 1: 207 Kensington Trace Address 2: City: Stockbridge Representing: Rockbestos/Surprenant Cable Corporation Please indicate organization represented (if an or presented in the composation of the proposal recommends: (Check one): 2. Proposal recommends: (Check one): 3. Proposal (include proposed new or revised wording, or identification of the composed new section 760-31 (g) [renumber the balance of the composition of the compos | 760-31(g) I Last Name: Telephone#: PO Box: State: Country: my) NG: A No.: 70 revised text on of wording | Moore, 770-507 GA USA Year: | P.E. 0046 Zip: 3028 Date: 10 | 31-6908 V14/96 |
| NFPA Document and Reference: NFPA 70 SUBMITTER INFORMATION: First Name: Wayne D. Company: MBS Fire Technology, Inc. Address 1: 207 Kensington Trace Address 2: City: Stockbridge Representing: Rockbestos/Surprenant Cable Corporation Please indicate organization represented (if an or presented in the composation of the proposal recommends: (Check one): 2. Proposal recommends: (Check one): 3. Proposal (include proposed new or revised wording, or identification of the composed new section 760-31 (g) [renumber the balance of the composition of the compos | 760-31(g) I Last Name: Telephone#: PO Box: State: Country: my) NG: A No.: 70 revised text on of wording | Moore, 770-507 GA USA Year: | P.E. 0046 Zip: 3028 Date: 10 | 31-6908 V14/96 |
| First Name: Wayne D. Company: MBS Fire Technology, Inc. Address 1: 207 Kensington Trace Address 2: City: Stockbridge Representing: Rockbestos/Surprenant Cable Corporation Please indicate organization represented (if an or each proposal, Please Complete Each of the Following La)Document Title: National Electrical Code b) Article/Section: 760-31(g) New 2 Proposal recommends: (Check one): 3 Proposal (include proposed new or revised wording, or identification in the proposed in the proposed that it is new section 760-31 (g) [renumber the balance of the image of the | Telephone#: PO Box: State: Country: ny) NG: A No.: 70 revised text on of wording | GA USA Year: | 7-0046 Zip: 3028 Date: 10 1996 eted text. | /14/96 |
| Company: MBS Fire Technology, Inc. Address 1: 207 Kensington Trace Address 2: City: Stockbridge Representing: Rockbestos/Surprenant Cable Corporation Please Indicate organization represented (if an OR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING 1.a)Document Title: National Electrical Code NFP/ b) Article/Section: 760-31(g) New 2. Proposal recommends: (Check one): Inew text In Proposal (Include proposed new or revised wording, or identification Insert a new section 760-31 (g) [renumber the balance of the | Telephone#: PO Box: State: Country: ny) NG: A No.: 70 revised text on of wording | GA USA Year: | 7-0046 Zip: 3028 Date: 10 1996 eted text. | /14/96 |
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| Representing: Rockbestos/Surprenant Cable Corporation Please Indicate organization represented (if an organization represented in a proposal recommends: (Check one): 2. Proposal recommends: (Check one): 3. Proposal (include proposed new or revised wording, or identification represented (if an organization represen | Country: NG: A No.: 70 revised text on of wording | USA Year: | Date: 10 | /14/96 |
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| 1.a)Document Title: National Electrical Code NFP/ b) Article/Section: 760-31(g) New 2. Proposal recommends: (Check one): new text new new text new tex | A No.: 70 revised text on of wording | dele | eted text. | #113] |
| b) Article/Section: 760-31(g) New 2 Proposal recommends: (Check one): new text new new text new new text new text new new text new text new new new new new new | revised text on of wording | dele | eted text. | #113] |
| b) Article/Section: 760-31(g) New 2. Proposal recommends: (Check one): new text new new text new text new new text new text new | revised text on of wording | dele | eted text. | #113] |
| 2. Proposal recommends: (Check one): new text 1 3. Proposal (include proposed new or revised wording, or identification. Insert a new section 760-31 (g) [renumber the balance of the | on of wording | | |] |
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| Insert a new section 760-31 (g) [renumber the balance of the | | to be dete | etea): | |
| Circuit Integrity (CI) Cable. Cables identified in sections 760 requirements for Circuit Integrity shall have the additional claexample, NPLFPCI, NPLFRCI and NPLFCI). (FPN) This cable can be used for fire alarm circuits to comp NFPA 72-1996, National Fire Alarm Code, that the cable may be compared to the cable of t | assification i | using the survivab | suffix "CI" sility requir | " (for ements of |
| fire conditions for a defined period of time. L Statement of Problem and Substantiation for Proposal: | | | | |
| Cables having circuit integrity are already recognized in NFP meeting survivability requirements. New technology has made practical. Because of this, cables having circuit integrity are p worldwide. | e the use of | circuit in | tegrity cab | les to be |
| 5. A This Proposal is original material. This Proposal is not original material; its source (if known) is | as follows: | | | |
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| ☐ This Proposel is not original material; its source (if known) is | as follows: | | | 10 to |

Form for Proposals on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 760-71 (g) New OCT 28 1996 SUBMITTER INFORMATION: First Name: Wayne D. Last Name: Moore, P.E. Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 Address 1: 207 Kensington Trace PO Box: Address 2: State: GA City: Stockbridge Zip: 30281-6908 Representing: Rockbestos/Surprenant Cable Corporation Country: USA Please indicate organization represented (if any) Date: 10/14/96 FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING: 1.a)Document Title: National Electrical Code NFPA No.: 70 Year: 1996 b) Article/Section: 760-71 (g) New 2. Proposal recommends: (Check one): new text revised text deleted text. 3. Proposal (include proposed new or revised wording, or identification of wording to be deleted): Insert a new section 760-71 (g) [renumber the balance the of section] (g) Fire Alarm Circuit Integrity (CI) Cable. Cables suitable for use in fire alarm systems to ensure continued operation of critical circuits during a specified time under fire conditions shall be listed as Circuit Integrity (CI) Cable. Cables identified in sections 760-71(d), (e), and (f) meeting the requirements for Circuit Integrity shall have the additional classification using the suffix "CP" (for example, FPLPCI, FPLRCI and FPLCI). (FPN) This cable can be used for fire alarm circuits to comply with the survivability requirements of NFPA 72-1996, National Fire Alarm Code that the cable must maintain its electrical function during fire conditions for a defined period of time. 4. Statement of Problem and Substantiation for Proposal: Cables having circuit integrity are already recognized in NFPA 72-1996, National Fire Alarm Code for meeting survivability requirements. New technology has made the use of circuit integrity cables to be practical, Because of this, cables having circuit integrity are presently being used in fire alarm systems worldwide. This Proposal is original material. ☐ This Proposal Is not original material; its source (if known) is as follows:

LEAR THAN THIS NOTICE IS DUE TO THE QUALITY

OF THE DOCUMENT. Form for Proposals on NFPA National Electrical Code OCT 28 1996 NFPA Document and Reference: NFPA 70 760-71(h) SUBMITTER INFORMATION: First Name: Wayne D. Last Name: Moore, P.E. Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 Address 1: 207 Kensington Trace PO Box: Address 2: City: Stockbridge Zip: 30281-6908 State: GA Representing: Rockbestos/Surprenant Cable Corporation Country: USA Please indicate organization represented (if any) Date: 10/14/96 FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING: 1.a)Document Title: National Electrical Code #1136 Year: 1996 NFPA No.: 70 b) Article/Section: 760-71(h) deleted text. new text revised text 2. Proposal recommends: (Check one): 3. Proposal (Include proposed new or revised wording, or identification of wording to be deleted): Renumber existing 760-71(h) to 760-71(i). Add the following words to the end of existing 760-71(h) [renumbered to 760-31(h)]: "Cables that are listed for circuit integrity shall be permitted to be identified with the suffix CI." 4. Statement of Problem and Substantiation for Proposal: Where cables are used that provide circuit integrity to meet the requirements of NFPA 72-1996, National Fire Alarm Code, they should be marked appropriately. This change allows the marking to be used. This Proposal is original material. This Proposal is not original material; its source (if known) is as follows:

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| Fo | rm for Proposals | on NFPA Natio | nal Electrical | Code | | OOT 9 S | ٠ |
| | NFPA Document and Re | ference: NFPA 7 | 0 Table 760-3 | 1(g) | | OCT 28 | 199 |
| SUBMITTER INFORM | ATION: | | | | | | |
| First Name: Wayı | ne D. | | Last Name: | Moore, | P.E. | | |
| Company: MBS | Fire Technology, Inc | <u> </u> | Telephone#: | 770-50 | 7-0046 | | |
| Address 1; 207 I | Kensington Trace | | PO Box: | | | | |
| Address 2: | | | | | | | |
| City: Stock | | | State: | | Zip: 302 | 281-6908 | |
| Representing: Rock | bestos/Surprenant Ca | ble Corporation | Country: | USA | | | |
| | Piease indicate organ | ization represented | (If any) | | Date: | 10/14/96 | |
| OR EACH PROPOSAL | , PLEASE COMPLETE E | ACH OF THE FOLL | OWING: | | | | |
| | ^{6:} National Electrica | | NFPA No.: 70 | 101 | 1996 | # | |
| | | ii Coue | NFPA No.: /U | Year | 1990 | # | 71. |
| - | n: Table 760-31(g) | | - | | 1 . 1 | <u>-</u> | • |
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OF THE DOCUMENT. Form for Proposals on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 Table 760-71(h) OCT 28 1996 SUBMITTER INFORMATION: First Name: Wayne D. Last Name: Moore, P.E. Company: MBS Fire Technology, Inc. Telephone#: 770-507-0046 Address 1: 207 Kensington Trace PO Box: Address 2: City: Stockbridge State: GA Zip: 30281-6908 Representing: Rockbestos/Surprenant Cable Corporation Country: USA Please indicate organization represented (if any) Date: 10/14/96 FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING: 1.a)Document Title: National Electrical Code NFPA No.: 70 Year: 1996 b) Article/Section: Table 760-71(h) X new text deleted text. revised text 2. Proposal recommends: (Check one): 3. Proposal (include proposed new or revised wording, or identification of wording to be deleted): Renumber Table 760-71(h) to Table 760-71(i). Renumber reference to "(h)" in third column to "(i)." Add to the end of the Table: Note: Cables identified in the above sections 760-71(d), (e), and (f) meeting the requirements for Circuit Integrity shall have the additional classification using the suffix "CI" (for example, FPLPCI, FPLRCI and FPLCI) 4. Statement of Problem and Substantiation for Proposal: Where cables are used that provide circuit integrity to meet the requirements of NFPA 72-1996, National Fire Alarm Code, they should be marked appropriately. This change allows the marking to be used. 5. A This Proposal is original material. ☐ This Proposal is not original material; its source (if known) is as follows:

Formal Transmittal of Proposals to NFPA as of 10/14/96

OCT 28 1996

Mail a copy of the transmittal form with your signature. The registration of your new Proposals cannot be completed until this is received. Include this report with your disk, Mail to: Secretary, Standards Council, National Fire Protection Association, 1 Batterymarch Park Quincy, MA 02269-9101

1138-2

| Last Name | First Name | NFPA N | lo. / year | Article/Section | |
|-------------|------------|--------|------------|-------------------|--------|
| Moore, P.E. | Wayne D. | 70 | 1996 | 100 - Definitions | #1130 |
| Moore, P.E. | Wayne D. | 70 | 1996 | 760-2 | #1131 |
| Moore, P.E. | Wayne D. | 70 | 1996 | 760-3 (g) New | #1132 |
| Moore, P.E. | Wayne D. | 70 | 1996 | 760-31(g) | #1133 |
| Moore, P.E. | Wayne D. | 70 | 1996 | 760-31(g) New | #1134 |
| Moore, P.E. | Wayne D. | 70 | 1996 | 760-71 (g) New | #1135 |
| Moore, P.E. | Wayne D. | 70 | 1996 | 760-71(h) | # 1136 |
| Moore, P.E. | Wayne D. | 70 | 1996 | Table 760-31(g) | #1137 |
| Moore, P.E. | Wayne D. | 70 | 1996 | Table 760-71(h) | #1138 |

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Signature (Required)

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| Form for Proposals on NFPA Na | tional Electrical Code |
|--|--|
| NFPA Document and Reference: NFPA 70 | tional Electrical Code Francisco Discretion 200-7 and Exceptions No. |
| SUBMITTER INFORMATION: | 1 XI. 0 XI. 9 XII. X |
| First Name: Rayindra | Last Name: Ganatra |
| | Telephone#: (770) 392-231/ |
| Address 1: Three Ravinia Dr. | PO Box: |
| Address 2: Suite 1600 | |
| City: Atlanta | State: <u>GA</u> Zip: 30092 |
| Representing:Self | Country: USA |
| Please indicate organization represented (if | any) Date: 11/7/96 |
| FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE | FOLLOWING: |
| 1.e)Document Title: | |
| | A No.: 70 Year: 1996 |
| b) Article/Section: Section 200-7 and | |
| 2. Proposal recommends: (Check one): ☐ new text ☒ 1 3. Proposal (include proposed new or revised wording, or | revised text deleted text. |
| | - |
| Rewrite Section 200-7 and the Exceptions No. 1, No. 2, Noused for deleted text and the new text is underlined): 200-7. Use of White or Natural Gray Color. | 5. 3, and No. 4 as snown below (Strikeout is |
| A continuous white or natural gray covering or three continuous | nuous white stripes on a conductor or a |
| termination marking of white or natural gray color shall be u | used only for the grounded conductor. |
| Exception No. 1: An insulated conductor with a white or n | atural gray finish covering or thee continuous |
| white stripes shall be permitted as an ungrounded conductor | |
| its use, by painting or other effective means at its termination visible and accessible. | i, and at each location where the conductor is |
| Exception No. 2: A cable containing an insulated conductor | |
| covering or three continuous white stripes shall be permitted | I for single-pole, 3-way, or 4-way switch |
| loops where the white or natural gray conductor with white used for the supply to the switch, but not as a return conduct | |
| these applications, re-identification of the white or natural gr | av conductor with white covering or three |
| continuous white stripes shall not be required. | |
| Exception No. 3: A flexible cord for connecting an appliance | ce, having one conductor identified by a |
| white or natural gray outer finish covering or three continuous permitted by Section 400-22, shall be permitted whether or n | us white stripes or by any other means |
| supplied by a circuit having a grounded conductor. | tot the outlet to which it is connected is |
| Exception No. 4: A white or natural gray conductor with w | hite covering or three continuous white |
| stripes of circuits of less than 50 volts shall be required to be | grounded only as required by Section |
| 250-5(a). | |
| 4. Statement of Problem and Substantiation for Proposal: | |
| Stripes, either extruded with insulation or painted over the in | sulation, are used effectively to identify |
| conductors. Typically a single stripe is used to identify the u | ingrounded conductors. Three yellow |
| stripes are used to identify the grounded conductors of Type | USE that are used by the utilities. The |
| proposal maintains the white color but, seeks to add an option By eliminating "natural gray" the proposal supports the effor | in for stripes. |
| issue. | ts made by the INEC Task Oroup on this |
| 5. M This Proposal is original material. | |
| ☐ This Proposal is not original material; its source (if | known) is as follows: |
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| Proposal for Submittal to NFPA as | of 12/4/95 |
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OF THE DOCUMENT.

Formal Transmittal of Proposals to NFPA as of 11/7/96

Mail a copy of the transmittal form with your signature. The registration of your new Proposals cannot be completed until this is received. Include this report with your disk. Mail to: Secretary, Standards Council, National Fire Protection Association, 1 Batterymarch Park Quincy, MA 02269-9101

| Last Name | First Name | NEPA N | lo. / year | Article/Section | 3982 |
|-----------------|------------|--------|------------|---|------|
| Ganatra Self | Ravindra | 70 | 1996 | Section 200-7 and Ex No. 2, No. 3, and No. | |

NOV 0 9 1996

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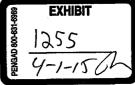
(770) 392-2311

Telephone Number

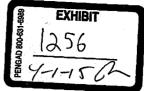
n' <u>lanaha</u> Signature (Required)

ADS002335

IF THE IMAGE IS LESS



| Form for Comments on NFPA National Electrical Code NFPA 70 100 SUBMITTER INFORMATION: First Name: Jim Company: Square D Company Address 1: 220 Lexington Green Circle Address 2: Suite 300 City: Lexington Representing: Please indicate organization represented (If any) Date: 9/15/97 FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. alpocument Title: National Electrical Code b) Article/Section: 100 2. Comment recommends: (Check one): | SUBMITTER INFORMATION: First Name: Jim | SUBMITTER INFORMATION: First Name: Jim | SUBMITTER INFORMATION: First Name: Jim | 1 | | Form for Com | umonfe on KIP | MA Madaasi H | landalani Mad | • | | |
|--|---|--|--|---|---|---|---|--|---|---|------------------------------|-------------|
| SUBMITTER INFORMATION: First Name: Jim Company' Square D Company Address 1: 220 Lexington Green Circle Address 2: Suite 300 City: Lexington Representing: Please Indicate organization represented (if any) Please Indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. a)Document Title: National Electrical Code NFPA Noz. 70 Year: 1996 b) Artical/Section: 100 Comment on proposal number: 1-134 2. Comment (include proposad new or revised wording, or identification of wording to be deleted): Continue to accept the proposal. 4. Statement of Problem and Substantiation for Comment: This change is critical to clearing up confusion regarding what constitutes service conductors. These conductors should extend from a service point and not from an "other source of power". Although not intended by CMP 1 in the 1996 cycle, the addition of the words "other source of power" to the 1996 Code has led to many interpretations of service conductors that in reality were feeders within the premises wiring system. The deletion of this text will clear up much of this confusion and make it clear as to what rules apply. 5. This Comment is original material. This Comment is not original material; its source (if known) is as follows: | SUBMITTER INFORMATION: First Name: Jim | SUBMITTER INFORMATION: Flirst Name: Jim | SUBMITTER INFORMATION: First Name: Jim Company: Square D Company Address 1: 220 Lexington Green Circle Address 2: Suite 300 City: Lexington Representing: Please indicate organization represented (if any) Please indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. a)Document Title: National Electrical Code NFPA Nos: 70 Year: 1996 b) Article/Section: 100 Comment or proposal number: 1-134 2. Comment renormends: (Check one): Inew text Tevised text detected: Continue to accept the proposal. 4. Statement of Problem and Substantiation for Comment: This change is critical to clearing up confusion regarding what constitutes service conductors. These conductors should extend from a service point and not from an "other source of power". Although not intended by CMP 1 in the 1996 cycle, the addition of the words "other source of power" to the 1996 Code has led to many interpretations of service conductors that in reality were feeders within the premises writing system. The deletion of this text will clear up much of this confusion and make it clear as to what rules apply. 5. This Comment is not original material. This Comment is not original material. This Comment is not original material. | 8 . 4 | | | | | | | | |
| Company: Square D Company Address 2: Suite 300 City: Lexington State: KY Zip: 40503 Country: USA Please indicate organization represented (if any) Poster: Yzip: 40503 Country: USA Poster: Yzip: 40503 Country: Yzip: 40503 Coun | Telephones: 606-245-7923 Address 2: Suite 300 City: Lexington Green Circle PO Box: Address 2: Suite 300 State: KY Zip: 40503 Country: Lexington State: KY Zip: 40503 Country: Lexington State: KY Zip: 40503 Country: Lexington Please indicate organization represented (if any) Date: 9/15/97 FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: | Telephonest: 606-245-7923 Address 2: Suite 300 PO Box: Address 2: Suite 300 State: KY Zip: 40503 Country: USA Date: 9/15/97 | Company: Square D Company Address 1: 220 Lexington Green Circle Address 2: Suite 300 City: Lexington Representing: Please indicate organization represented (if any) Please indicate organization represented (if any) Please indicate organization represented (if any) Post: 9/15/97 FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. s)Document Titis: National Electrical Code NFPA No.: 70 Year: 1996 b) Article/Section: 100 Comment on proposal number: 1-134 2. Comment (include proposad new or revised wording, or identification of wording to be deleted): Continue to accept the proposal. 4. Sistement of Problem and Substantiation for Comment: This change is critical to clearing up confusion regarding what constitutes service conductors. These conductors should extend from a service point and not from an "other source of power". Although not intended by CMP 1 in the 1996 cycle, the addition of the words "other source of power" to the 1996 Code has led to many interpretations of service conductors that in reality were feeders within the premises wiring system. The deletion of this text will clear up much of this confusion and make it clear as to what rules apply. 5. This Comment is original material, This Comment is not original material; its source (if known) is as follows: | | SUBMIT | | | | | | | |
| Company: Square D Company Address 1: 270 Lexington Green Circle Address 2: Suits 300 City: Lexington Representing: Please Indicate organization represented (if any) Please Indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. a)Document Title: National Electrical Code b) Article/Saction: 100 Comment on proposal number: 1-134 2. Comment (include proposed new or revised wording, or identification of wording to be deleted): Continue to accept the proposal. 4. Statement of Problem and Substantiation for Comment: This change is critical to clearing up confusion regarding what constitutes service conductors. These conductors should extend from a service point and not from an "other source of power". Although not intended by CMP I in the 1996 cycle, the addition of the words "other source of power" to the 1996 Code has led to many interpretations of service conductors that in reality were feeders within the premises wiring system. The deletion of this text will clear up much of this confusion and make it clear as to what rules apply. 5. This Comment is original material; its source (if known) is as follows: | Company: Square D Company Address 1: 220 Lexington Green Circle Address 2: Suits 300 City: Lexington Representing: Please Indicate organization represented (if any) Please Indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. a)Document Titte: National Electrical Code b) Article/Saction: 100 Comment on proposal number: 1-134 2. Comment (include proposad new or revised wording, or identification of wording to be deleted): Continue to accept the proposal. 4. Statement of Problem and Substantiation for Comment: This chainge is critical to clearing up confusion regarding what constitutes service conductors. These conductors should extend from a service point and not from an "other source of power" to the 1996 Code has led to many interpretations of service conductors that in reality were feeders within the premises wiring system. The deletion of this text will clear up much of this confusion and make it clear as to what rules apply. 5. This Comment is original material; its source (if known) is as follows: | Company: Square D Company Address 1: 220 Lexington Green Circle Address 2: Suite 300 City: Lexington Representing: Please indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. a)Document Title: National Electrical Code b) Article/Section: 100 Comment op proposal number: 1-134 2. Comment (include proposad new or revised wording, or identification of wording to be deleted): Continue to accept the proposal. 4. Statement of Problem and Substantiation for Comment: This change is critical to clearing up confusion regarding what constitutes service conductors. These conductors should extend from a service point and not from an "other source of power". Although not intended by CMP 1 in the 1996 cycle, the addition of the words "other source of power" to the 1996 Code has led to many interpretations of service conductors that in reality were feeders within the premises writing system. The deletion of this text will clear up much of this confusion and make it clear as to what rules apply. 5. This Comment is original material. This Comment is original material; its source (if known) is as follows: | Company: Square D Company Address 1: 220 Lexington Green Circle Address 2: Suite 300 Gity: Lexington Representing: Please indicate organization represented (if any) Please indicate organization represented (if any) Please indicate organization represented (if any) Por EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. a)Document Title: National Electrical Code NPA Not. 70 Year: 1996 b) Article/Saction: 100 Comment on proposal number: 1-134 2. Comment (include proposad new or revised wording, or identification of wording to be deleted): Continue to accept the proposal. 4. Statement of Problem and Substantiation for Comment: This change is critical to clearing up confusion regarding what constitutes service conductors. These conductors should extend from a service point and not from an "other source of power". Although not intended by CMP 1 in the 1996 cycle, the addition of the words "other source of power" to the 1996 Code has led to many interpretations of Service conductors that in reality were feeders within the premises wiring system. The deletion of this text will clear up much of this confusion and make it clear as to what rules apply. 5. This Comment is original material, Its source (if known) is as follows: | | First | Name: Jim | | | Last Name: | Paulev | | |
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| SUBMITTER INFORMATION: | | | | |
|---|---|---|---|------------------------------|
| First Name: Roger | | Last Name: Wi | | |
| Company: State Farm Insurance | | Telephone#: 309 | 766 5945 | |
| Address 1: 1 State Farm Plaza | | PO Box: | | |
| Address 2: | | State: 11 | Zip: 61710 | |
| City: Bloomington | | Country: US | | |
| Representing: Please indicate or | ganization represent | | Date: 10/2) | 197 |
| FOR EACH COMMENT, PLEASE COMPLETS 1. a)Document Title; National E b) Article/Section: 210-11 (New) | Electrical Code | OWING: NFPA No.: 70 Comment on proposal: | Year: 1996 number: 2-129 | OCT 24 |
| 2. Comment recommends: (Check one): | new text | revised text | deleted text. | 2449 |
| 3. Comment (include proposed new or rev We recommend the Arc-Fault Circu accepted. 4. Statement of Problem and Substantiatic Our research leads us to the conclus fires. The AFCI technology address. | uit-Interrupter Prote on for Comment: ion that arcing faul | ection proposal as at | nended by the pane | |
| We recommend the Arc-Fault Circu accepted. 4. Statement of Problem and Substantiatic Our research leads us to the conclus fires. The AFCI technology address: CPSC has had testing done by UL a will address many of the fires from New homes will become older hom to misuse, improper changes, or addressidential occupancies age, the nee | on for Comment: ion that arcing faul ses the problem. and UL has done su arcing faults in resi es eventually and a | ts are the cause of a beequent testing that idential occupancies. | nended by the pand high percentage of demonstrates that m to occur in older | electrical AFCIs homes due |
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Comment for Submittal to NFPA as of 10/23/97

IF THE IMAGE IS LESS CLEAR THAN THIS NOTICE IT IS DUE TO THE QUALITY

Form for Comments on NFPA National Electrical Code

NFPA Document and Reference; NFPA 70 210-7(d)(3)

| SUBMITTER INFORMATION; | |
|---|---|
| First Name: Roger | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | РО Вох; |
| Address 2; | india |
| City: Bloomington | State: II Zip: 61710 |
| Representing: | Country: USA |
| Please Indicate organization represe | anted (if any) Date: 10/21/97 |
| FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FO | |
| 1. a)Document Title: National Electrical Code | 007 0 1 200 |
| b) Article/Section: 210-7(d)(3) | |
| 2. Comment recommends: (Check one): | ext 🔀 revised text 🔲 deleted text. |
| 3. Comment (include proposed new or revised wording, or le | dentification of wording to be deleted): |
| (3) Where a grounding means does not exist in the re | eceptacle enclosure, a nongrounding-type |
| receptacle(s) shall be permitted to be replaced with a | anothr nongrounding-tpe receptacle(s) the installaton |
| shall comply with a,b, or c below: | W 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| a_NO Change | |
| b. A non grounding-type receptacle(s) shall be p | |
| | ptacles shall be marked "No Equipment Ground." An |
| equipment grounding conductor shall not be connect | |
| receptacle to any outlet supplied from the ground-far | |
| c. A nongrounding-type receptacle(s) shall be pe | |
| receptacle(s) where supplied through a ground-fault | |
| supplied through the ground-faul circuit-interrupter | |
| Equipment Ground." An equipment grudnign condu | ictor shall not be connected between the |
| grounding-type receptacles. | |
| 4. Statement of Problem and Substantiation for Comment: | |
| With an increase in electronic technology, and the re | |
| environment and a path to divert surge energy, replace | cement of a non-grounding type outlet with a |
| grounding type outlet not matter if it is a GFCI device | |
| more electronics in appliances and manufacturers pro | |
| (SPDs) the ground path is more and more important. | If the chasses of the equipment is also connected |
| ot the same ground as the SPD, then a shock potential receptacle provides a false sense of protection for the | |
| of electricity. The panel should revisit the reason the | |
| outlets, consider the needs of today ie power quality | |
| SPDs are not only used on computers, and television | |
| systems, garage door operators etc. all types of SPD | |
| impedance ground path for proper operation. | a (with one exception) reduite a Boon tow |
| impedance ground pain for proper operation. | e de la companya de |
| 5. 🔀 This Comment is original material. | known) is as follows: |
| [7] This Comment is not asiginal material: its pource /if | (known) to as follows: |

Form for Comments on NFPA National Electrical Code

| NFPA Document and Reference: NFPA 70 | 0 250 |
|---|--|
| SUBMITTER INFORMATION: | |
| First Name: Roger | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: | MR. |
| City: Bloomington | State: Il Zip: 61710 |
| Representing: | Country: USA |
| Please Indicate organization represente | ed (if any) Date: 10/21/97 |
| FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLL | OWING: |
| 1. a)Document Title: National Electrical Code | NFPA No.: 70 Year: 1996 0851 |
| b) Article/Section: 250 C | Comment on proposal number: 5-41 OGT 2 4 1 |
| 2. Comment recommends: (Check one): | ☑ revised text ☐ deleted text. |
| 3. Comment (include proposed new or revised wording, or ident | tification of wording to be deleted): |
| of the types specified in Section 250-60 or 250-62. Whe installed to meet the requirements of this section, they sapart. | ere multiple rod, pipe, or plate electrodes are shall not be less than <u>16 ft. (4.9m)</u> 6 ft. (1.83m) |
| means. Connections depending on solder shall not be us materials of the grounding electrode and the grounding or other buried electrodes shall also be listed for direct s connected to the grounding electrode by a single clamp multiple conductors. One of the methods indicated in (a. NO CHANGE b. NO CHANGE | electrode conductor and, where used on pipe, tod, soil burial. Not more than one conductor shall be or fitting unless the clamp or fitting is listed for (a), (b), or (c), or (d) below shall be used. |
| c. Sheet-Metal-Strap Type Ground Clamp. A listed shee metal base that seats on the electrode and having a strap | et-metal-strap type ground clamp having a rigid |
| metal base that seats on the electrode and having a strap- likely to stretch during or after installation. | For Such Historial and Officensions that It is not |
| d. c. Other Means. An equally substantial approved me 250-130(b) Equipment Grounding Conductor | eans. |
| (b) For Ungrounded System. The connection shall be m | nade by bonding the equipment grounding |
| conductor to the grounding electrodes conductor and to | the grounded service conductor. |
| Exception for (a) and (b): For replacement of non-groun | |
| receptacles and for branch-circuit extensions only in exi- | sting installations that do not have an equipment |
| grounding conductor in the branch circuit, the grounding permitted to be grounded to an accessible point on the gr | |
| 250-60, or to any accessible point on the grounding elec- | trode conductor |
| (FPN): See section 210-7(d) for the use of a ground fault | |
| I. Statement of Problem and Substantiation for Comment: 250-64 substantiation: Using the table 5, Table 8 and Ta adding and additional rod less than one rod length does n | able 9 in the IEEE green book, it appears that not appreciably reduce the resistance. And the |

resistance will not be halved unless the additional rods are at least several rod lengths apart. With this information, why not change the distance requirement from 6 feet to 16 feet. The cost of this additional rod, wire and clamp is less than the cost to measure the resistance of a single rod.

250-78 Connections to electrodes: Since there are band clamps that do stretch, why not just delete the allowance totally. If an inspector cannot determine which clamp will stretch and which will not, and there are homes being built that do not have the benefit of the inspection process so maybe the contractor or homeowner does not know which band clamp will or will not stretch, the homeowner suffers in the end and the purpose of the NEC requirements for proper bonding and grounding is negated.

250-130(b) Equipment grounding conductor: Should the equipment grounding conductor run parallel to the phase and neutral, and in the same enclosure or not? When considering the safety issues of the circuit and how that circuit is utilized, is a separate grounding conductor with an unknown distance, routing and impedance safe? Consider the use of surge protective devices. Will the grounding wire be suitable to divert the energy safely to ground or will an alternate path be taken, Since this is an unknown, and safety is the issue, I recommend that where a grounded type receptacle is replacing a non grounded receptacle and there is no grounding conductor in the box, that a new set of circuit wires be installed from the panel to the device wiring that includes the grounding conductor. The FPN note was also struck to eliminate the replacement of non grounded receptacles with grounding receptacles of any type. If a ground is needed by an appliance, whether for safety or proper operation, a non grounded device will not work adequately

5. 🔯 This Comment is original material.

☐ This Comment is not original material; its source (if known) is as follows:

| NFPA Document and Reference: NFPA | A 70 250 |
|--|---|
| SUBMITTER INFORMATION: | |
| First Name: Roger | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: | |
| City: Bloomington | State: II Zip: 61710 |
| Representing: | Country: USA |
| Please Indicate organization represe | inted (if any) Date: 10/22/97 |
| OR EACH COMMENT, PLEASE COMPLETE EACH OF THE FO | N. L. CHARLES |
| 1. a)Document Title: National Electrical Code | 7 1/L 1 |
| b) Article/Section: 250 | Comment on proposal number: 5-41A |
| | 007.9 / 100 |
| Comment recommends: (Check one): Let new te: Comment (Include proposed new or revised wording, or id | At M Ichisch text Lideleted text. |
| (FPN): The parelleling efficiency of rods longer than | n 8 ft (2.44m) is improved by spacing greater than 6 |
| (FPN): The parelleling efficiency of rods longer than ft. (1.83m) apart. 250-70. Grounding Conductor Connections to Elect connected to the grounding electrode by exothermic listed clamps, or other listed means. Connections deshall be listed for the materials of the grounding elect where used on pipe, rod, or other buried electrodes signal one conductor shall be connected to the groundiction or fitting is listed for multiple conductors. Obelow shall be used. a. NO CHANGE b. NO CHANGE | trodes. The grounding conductor shall be welding, listed lugs, listed pressure connectors, pending on solder shall not be used. Ground clamps trode and the grounding electrode conductor and, hall also be listed for direct soil burial. Not more ng electrode by a single clamp or fitting unless the of the methods indicated in (a), (b), or (c), or (d) |
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| apart. (FPN): The parelleling efficiency of rods longer than ft. (1.83m) apart. 250-70. Grounding Conductor Connections to Elect connected to the grounding electrode by exothermic listed clamps, or other listed means. Connections de shall be listed for the materials of the grounding elect where used on pipe, rod, or other buried electrodes si than one conductor shall be connected to the groundictamp or fitting is listed for multiple conductors,. O below shall be used. a. NO CHANGE b. NO CHANGE c. Sheet Metal-Strap Type Ground Clamp. A listed smetal base that seats on the electrode and having a shall be to stretch during or after installation. d. c. Other Means. An equally substantial approved 250-130(b) Equipment Grounding Conductor (b) For Ungrounded System. The connection shall be conductor to the grounding electrodes conductor and exception for (a) and (b): For replacement of non greeceptacles and for branch-circuit extensions only ingrounding conductor in the branch circuit, the ground permitted to be grounded to an accessible point on the 250-60, or to any accessible point on the grounding effection of a ground of the conductor of a ground of the prounding effection of the grounding e | trodes. The grounding conductor shall be welding, listed lugs, listed pressure connectors, pending on solder shall not be used. Ground clamps trode and the grounding electrode conductor and, hall also be listed for direct soil burial. Not more angelectrode by a single clamp or fitting unless the one of the methods indicated in (a), (b), or (c), or (d) sheet-metal-strap type ground clamp having a rigid rap of such material and dimensions that it is not means. I means. The grounded service conductor, ounding type existing installations that do not have an equipment ding or a grounding type receptacle outlet shall be a grounding electrode system as described in electrode conductor. |

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250-56 Substant
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250-70 Connec
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250-56 Substantiation: Using the table 5, Table 8 and Table 9 in the IEEE green book, it appears that adding and additional rod less than one rod length does not appreciably reduce the resistance. And the resistance will not be halfed unless the additional rods are at least several rod lengths apart. With this information, why not change the distance requirement from 6 feet to 16 feet. The cost of this additional rod, wire and clamp is less than the cost to measure the resistance of a single rod.

250-70 Connections to electrodes: Since there are band clamps that do stretch, why not just delete the allowance totally. If an inspector cannot determine which clamp will stretch and which will not, and there are homes being built that do not have the benefit of the inspection process so maybe the contractor or homeowner does not know which band clamp will or will not stretch, the homeowner suffers in the end and the purpose of the NEC requirements for proper bonding and grounding is negated.

250-130(b) Equipment grounding conductor: Should the equipment grounding conductor run parallel to the phase and neutral, and in the same enclosure or not? When considering the safety issues of the circuit and how that circuit is utilized, is a separate grounding conductor with an unknown distance, routing and impedance safe? Consider the use of surge protective devices. Will the grounding wire be suitable to divert the energy safely to ground or will an alternate path be taken, Since this is an unknown, and safety is the issue, I recommend that where a grounded type receptacle is replacing a non grounded receptacle and there is no grounding conductor in the box, that a new set of circuit wires be installed from the panel to the device wiring that includes the grounding conductor. The FPN note was also struck to eliminate the replacement of non grounded receptacles with grounding receptacles of any type. If a ground is needed by an appliance, whether for safety or proper operation, a non grounded device will not work adequately

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This Comment is original material.

☐ This Comment is not original material; its source (if known) is as follows:

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| SUBMITTER INFORM First Name: Roge | | • | | | |
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| Commerce Cl | r | Last Na | me: Wi | tt | |
| collibant. 2/8/6 | Farm Insurance | Telephor | ne#: 309 | 766 5945 | |
| Address 1: 1 Sta | te Farm Plaza | POB | lox: | | |
| Address 2: | | | | | |
| City: Bloo | mington | | ate: 1] | Zip: 61710 |). |
| Representing: | | Coun | try: US | | |
| | Please Indicate organizat | ion represented (if any) | | Date: 10/ | 22/97 |
| b) Article/Section 2. Comment recomme | inds: (Check one): | Comment on prince in the contract of the contract in the contr | ext [| deleted text. | |
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| ER INFORMATION: | | | |
| lame: Roger | Last Name: 1 | Witt | |
| pany: State Farm Insurance | Telephone#: | 309 766 5945 | j |
| sss 1: 1 State Farm Plaza | PO Box: | | |
| 555 2; | State: | n 31 | -1 |
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| ungrounded System. The connection shall be made tor to the groudning electrode conductor and to the | | | |
| the exception under sub paragraph b and the FPN ent of Problem and Substantiation for Comment: the equipment grounding conductor run parallel to the equipment grounding conductor run parallel to the error not? When considering the safety issues of the error problem of the error problem of the error with an unknown distance, run error error devices. Will the grounding wire be suitalternate path be taken, Since this is an unknown, anded type receptacle is replacing a non grounded reconductor. The FPN note was also struck to elimic conductor. The FPN note was also struck to elimic conductors of the proper operation, a non grounded device will not be proper operation, a non grounded device will not be considered. | e circuit and ho outing and imp itable to divert and safety is the eptacle and the panel to the d minate the repl ound is needed | we that circuit acdance safe? the energy said issue, I reconcere is no ground evice wiring the acement of notice by an appliant | is utilized, is a Consider the use fely to ground or mmend that where ading conductor in that includes the on grounded |
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CLEAR THAN THIS NOTICE IS DUE TO THE QUALITY OF THE DOCUMENT. Form for Comments on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 250-50a SUBMITTER INFORMATION: First Name: Roger Last Name: Witt Company: State Farm Insurance Telephone#: 309 766 5945 Address 1: 1 State Farm Plaza PO Box: Address 2: City: Bloomington State: 11 Zip: 61710 Representing: Country: USA Date: 10/22/ Please Indicate organization represented (If any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1. a)Document Title: National Electrical Code NFPA No.: 70 Year: 1996 b) Article/Section: 250-50a Comment on proposal number: 5-162 2. Comment recommends: (Check one): new text revised text deleted text. 3. Comment (include proposed new or revised wording, or identification of wording to be deleted): Same comments as for comment on proposal 5-161 OCT 2 4 1997 Statement of Problem and Substantiation for Comment: Should the equipment grounding conductor run parallel to the phase and neutral, and in the same enclosure or not? When considering the safety issues of the circuit and how that circuit is utilized, is a separate grounding conductor with an unknown distance, routing and impedance safe? Consider the use of surge protective devices. Will the grounding wire be suitable to divert the energy safely to ground or will an alternate path be taken. Since this is an unknown, and safety is the issue, I recommend that where a grounded type receptacle is replacing a non grounded receptacle and there is no grounding conductor in the box, that a new set of circuit wires be installed from the panel to the device wiring that includes the grounding conductor. The FPN note was also struck to eliminate the replacement of non grounded receptacles with grounding receptacles of any type. If a ground is needed by an appliance, whether for safety or proper operation, a non grounded device will not work adequately This Comment is original material. This Comment is not original material; its source (if known) is as follows:

OF THE DOCUMENT. Form for Comments on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 250-71 (b) SUBMITTER INFORMATION: First Name: Roger Last Name: Witt Company: State Farm Insurance Telephone#: 309 766 5945 Address 1: 1 State Farm Plaza PO Box: Address 2: City: Bloomington State: [] Zip: 61710 Representing: Country: USA Please indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: **National Electrical Code** Year: 1996 NFPA No.: 70 1. a)Document Title: b) Article/Section: 250-71 (b) Comment on proposal number: 5-189 2. Comment recommends: (Check one): new text x revised text deleted text. 3. Comment (include proposed new or revised wording, or identification of wording to be deleted): Revise as follows: (b) Bonding to Other Systems. An accessible means external to service equipment enclosures for connecting intersystem bonding and grounding conductors shall be provided at the service by at least one of the following means: (1) NO CHANGE (2) NO CHANGE (3) NO CHANGE (4) An enclosure containing a grounding bar with 6 positions for #14 - #6 copper conductors. The grounding bar shall be bonded to the grounding electrode with #6 copper conductor. The enclosure shall be mounted below the service entrance revenue metering equipment for the building. The enclosure shall be a cast box with a gasketed coverplate. The marking "INTERSYSTEM BONDING" shall be provided on the enclosure and coverplate. For the purpose of providing an accessible means for intersystem bonding, the disconnection means at a separate building or structure as permitted in Section 250-23(a), Exception No. 1 shall be considered the service equipment. 4. Statement of Problem and Substantiation for Comment: The present code language allows for an opportunity for proper intersystem bonding, however, we have observed that these opportunities are not obvious enough to be utilized. Observation of missing bonding bushings on both ends of metallic conduit and evidence of separate ground rods driven for communication services without bonding to the electrical system grounding electrode, have been made. It is the contention of this writer that if a well marked and accessible intersystem bonding point is established, proper intersystem grounding may be provided. Illustration attached. ■ This Comment is original material. This Comment is not original material; its source (if known) is as follows:

IF THE IMAGE IS LESS CLEAR THAN THIS NOTICE IT IS DUE TO THE QUALITY OF THE DOCUMENT. To ground bus in panel Intersystem bonding point Grounding lug suitable for #14 - #16 copper wire Conduit for grounding electrode conductor Split bolt #6 AWG bare copper grounding electrode wire Weather tight fitting Grounding bushing for metallic conduit only Split bolt To ground rods ADS000185

| SUBMITTER INFORMATION: | (x,y,y) = (x,y,y) + (x,y) + |
|---|---|
| First Name: Roger | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: | |
| City: Bloomington | State: II Zip: 61710 |
| Representing: | Country: USA |
| Please indicate organization repri | esented (if any) Date: 10/23/97 |
| OR EACH COMMENT, PLEASE COMPLETE EACH OF THE | FOLLOWING: |
| 1. a)Document Title: National Electrical Co | de NFPA No.: 70 Year: 1996 385/ |
| b) Article/Section: 250-81 (c) | Comment on proposal number: 5-241 |
| 2. Comment recommends: (Check one): | text revised text deleted text. OCT 2 4 19 |
| coated steel reinforcing bars or rods of not less the 20 ft. (6.1m) of bare copper conductor not smaller | |
| coated steel reinforcing bars or rods of not less the 20 ft. (6.1m) of bare copper conductor not smaller. Statement of Problem and Substantiation for Comment: After observing several installations of the UFER REBAR was used. The result was that 16 feet of I with 4 foot used for the vertical portion extending together seems to be the only way to ensure a cond in the field. The code allows the opportunity for useing met in all cases. The reason believed to be the rebar is provided to the builders. The other reappicture offered in the NEC handbook depicting the | e bare or zinc galvanized or other electrically conductive an 1/2" in. (12.7mm) diameter, or consisting or at least than No. 4. grounding method we found that one 20 foot long REBAR was encased in the concrete near the bottom through the foundation wall. Welding two rods ductive coupling of rebar and that may not be practiced using rebar properly, but it seems that the intent is not the cause of this misapplication is the standard length as on although not considered part of the NEC is the erebar turned up exiting the foundation wall and the |
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THE IMAGE IS LESS LEAR THAN THIS NOTICE IT IS DUE TO THE QUALITY OF THE DOCUMENT. Form for Comments on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 250-84 SUBMITTER INFORMATION: First Name: Roger Last Name: Witt Company: State Farm Insurance Telephone#: 309 766 5945 Address 1: 1 State Farm Plaza PO Box: Address 2: City: Bloomington State: II Zip: 61710 Representing: Country: TISA Date: 10/23/97 Please Indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: National Electrical Code 1. a)Document Title: NEPA No.: 70 Year: 1996 b) Article/Section: 250-84 Comment on proposal number: 5-252 new text revised text 2. Comment recommends: (Check one): deleted text. OCT 2 4 1997 3. Comment (include proposed new or revised wording, or identification of wording to be deleted): 250-84. Resistance of Made Electrodes. When the electrode consisting of a rod, pipe, or plate is used, the electrode shall consist of a minimum of two rods, pipes, or plates spaced 16 ft. (4.8 m) apart and bonded together with #6 bare copper wiring. The connection of the wiring to the electrode shall be made with nonreversible connectors A single electrode consisting of a plate that does not have a resistance to ground of 25 ohms or less shall be automented by one additional electrode of any of the types specified in Section 250-81 or 250-83. Where multiple rod, pipe or plate electrode is installed to augment the resistance of a plate electrode, they shall not be less than 6 ft. (1.83m) apart. (EPN): The paralleling efficiency of rods linger than 8ft. (2.44m) is improved by spacing greater than 6 ft. (1.83m) Statement of Problem and Substantiation for Comment: Technical substantiation is found in the IEEE green book for placement of grounding electrodes. The assumption that requiring the second electrode is meant to reduce the resistance of the electrode system. As I understand the IEEE reference, an electrode installed less than one rod length will not appreciably reduce the resistance. The reference to the nonreversible connectors is to prevent the loosening of the bonding point sometimes found with mechanical connectors that are not maintained. This Comment is original material. This Comment is not original material; its source (if known) is as follows:

| Form for Comments on NFPA National Electrical Code NFPA Document and Reference: NFPA 70 SUBMITTER INFORMATION: First Name: Roger Company: State Farm Insurance Address 1: I State Farm Plaza Address 2: City: Bloomington Representing: Please Indicate organization represented (if any) Please Indicate organization represented (if any) Date: 10/23/97 FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: 1, a)Document Title: National Electrical Code NPPA No.: 70 year: 1996 b) Article/Section: 290 (NEW) Comment on proposal number: 5-337 2. Comment recommends: (Check one): Deve text Provised text deleted text 3. Comment (include proposed new or revised wording, or Identification of wording to be deleted): This is in support of the proposed new article on Surge Protective Devices as listed in the ROP 5-337. 4. Statement of Problem and Substantiation for Comment. The Panel did not seem to object to the proposed article other than to query the difference between a surge arrestor is a device that A surge arrestor is a device that A surge protective device, and why a new article was proposed. 1. A surge arrestor is a device that A surge protective device is a device that A surge protective device is a fevice that in residential occupancies it has been encouraged that all power and communications services to the building enter the building in a relative close proximity, where intersystem bonding can be readily done. In buildings with other types of occupancies you may find antenna systems on the roof where it is impractical to bond to the service entrance grounding electrode, and as noted in article 280 the bonding is to be connected to the nearest building steel. Article 280 appears to relate to equipment most commonly found in non residential occupancies. 5. This Comment is not original material; its source (if known) is as follows: | | | | | | |
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| | A surge arready A surge pro The reason occupancies. The and communication intersystem boreantenna systems and as noted in appears to related. This Communication of the surge arready and as noted in appears to related. | estor is a device that tective device is a device for a new article was to the differences being tha ations services to the bui dding can be readily don s on the roof where it is article 280 the bonding e to equipment most con ment is original material. | e that differentiate betw t in residential ocu lding enter the bu e. In buildings wi impractical to bor is to be connected armonly found in r | een residential occupancies it has be ilding in a relative ith other types of od to the service en to the nearest buildon residential occupancies. | cupancies and other een encouraged that close proximity, v occupancies you ma ntrance grounding of ilding steel. Article | types of tall power where by find electrode, |
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| | A surge arready A surge pro The reason occupancies. The and communication intersystem boreantenna systems and as noted in appears to related. This Communication of the surge arready and as noted in appears to related. | estor is a device that tective device is a device for a new article was to the differences being tha ations services to the bui dding can be readily don s on the roof where it is article 280 the bonding e to equipment most con ment is original material. | e that differentiate betw t in residential ocu lding enter the bu e. In buildings wi impractical to bor is to be connected armonly found in r | een residential occupancies it has be ilding in a relative ith other types of od to the service en to the nearest buildon residential occupancies. | cupancies and other een encouraged that close proximity, v occupancies you ma ntrance grounding of ilding steel. Article | types of tall power where by find electrode, |

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| Company: State Farm Insurance Tel Address 1: 1 State Farm Plaza Address 2: City: Bloomington | ast Name: Witt Nephone#: 309 766 5945 PO Box: State: II Zip: 61710 Country: USA |
|---|---|
| First Name: Roger La Company: State Farm Insurance Tel Address 1: 1 State Farm Plaza Address 2: City: Bloomington Representing: Please Indicate organization represented (if any) | State: II |
| Company: State Farm Insurance Address 1: 1 State Farm Plaza Address 2: City: Bloomington Representing: Please indicate organization represented (if any) | State: II |
| Address 1: 1 State Farm Plaza Address 2: City: Bloomington Representing: Please indicate organization represented (if any) | PO Box: State: II Zip: 61710 Country: USA |
| Address 2: City: Bloomington Representing: Please Indicate organization represented (if any) | State: II Zip: 61710 Country: USA |
| City: Bloomington Representing: Please Indicate organization represented (if any) | Country: USA |
| Representing: Please Indicate organization represented (If any) | |
| | |
| OR FACH COMMENT OF FASE COMPLETE FACH OF THE FOLLOWING | Date: 10/23/97 |
| | PA No.: 70 Year: 1996 2860 ton proposal number: 18-46 vised text deleted text. OCT 2.4 |
| 3. Comment (include proposed new or revised wording, or identification | |
| The substantiation for this code change seems to be the ability to correspond to modular wall a furnishing changes. Flexible meta modular wiring connectors are an accepted practice and conform | tal conduit or MC assemblies with m to the code requirements today. And as pears to be a design problem and not one |
| commented elsewhere in the code change process, this issue applied of safety. I am concerned with flammability and toxicity of a piffused in a return air plenum ceiling. The issue of unsupported and non specified wire sizing is also troublesome. The issue of communications systems such as telephone, fire alarm systems, has not been addressed. Retention or the plug body, or type of It appears that all the safety issues will be left up to a listing agfor the system rather than addressing the concerns before the NI method. Realistically the experience found in Canada does not connection points, retention of plug and connector, cross talk, to addressed or have not been necessarily (time) tested prior to sub- | I cables, non specified attachment means, fossible cross talk or EMI with connector plaging systems and the like connector plag has not been addressed, gency after the code makes an allowance EC considers it an acceptable wiring relate in the US, since the issues of oxicity, flammability etc. have not been |
| of safety. I am concerned with flammability and toxicity of a p if used in a return air plenum ceiling. The issue of unsupported and non specified wire sizing is also troublesome. The issue of communications systems such as telephone, fire alarm systems, has not been addressed. Retention or the plug body, or type of It appears that all the safety issues will be left up to a listing agric the system rather than addressing the concerns before the NI method. Realistically the experience found in Canada does not connection points, retention of plug and connector, cross talk, to | I cables, non specified attachment means, fossible cross talk or EMI with the connector plug has not been addressed, gency after the code makes an allowance EC considers it an acceptable wiring relate in the US, since the issues of oxicity, flammability etc. have not been bmitting this proposal to the NEC. |
| of safety. I am concerned with flammability and toxicity of a p if used in a return air plenum ceiling. The issue of unsupported and non specified wire sizing is also troublesome. The issue of communications systems such as telephone, fire alarm systems, has not been addressed. Retention or the plug body, or type of It appears that all the safety issues will be left up to a listing ag for the system rather than addressing the concerns before the NI method. Realistically the experience found in Canada does not connection points, retention of plug and connector, cross talk, to addressed or have not been necessarily (time) tested prior to sub 5. This Comment is original material. | I cables, non specified attachment means, fossible cross talk or EMI with the connector plug has not been addressed, gency after the code makes an allowance EC considers it an acceptable wiring relate in the US, since the issues of oxicity, flammability etc. have not been bmitting this proposal to the NEC. |
| of safety. I am concerned with flammability and toxicity of a p if used in a return air plenum ceiling. The issue of unsupported and non specified wire sizing is also troublesome. The issue of communications systems such as telephone, fire alarm systems, has not been addressed. Retention or the plug body, or type of It appears that all the safety issues will be left up to a listing agfor the system rather than addressing the concerns before the NI method. Realistically the experience found in Canada does not connection points, retention of plug and connector, cross talk, to addressed or have not been necessarily (time) tested prior to sub 5. This Comment is original material. | I cables, non specified attachment means, fossible cross talk or EMI with the connector plug has not been addressed, gency after the code makes an allowance EC considers it an acceptable wiring relate in the US, since the issues of oxicity, flammability etc. have not been bmitting this proposal to the NEC. |

| RIIDMITTED INECOMATION: | NFPA 70 800-10 (c) |
|--|--|
| SUBMITTER INFORMATION: First Name: Roger | Last Name; Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: | FO BOX: |
| City: Bloomington | State: II Zip: 61710 |
| Representing: | Country: USA |
| Please Indicate organization r | represented (if any) Date: 10/22/97 |
| DR EACH COMMENT, PLEASE COMPLETE EACH OF | THE FOLLOWING. |
| 1. a)Document Title: National Electrical | |
| b) Article/Section: 800-10 (c) | Comment on proposal number: 16-164 |
| • | new text 🛛 revised text 🔲 deleted text. |
| . Comment (include proposed new or revised wordin | 00= - |
| Add new Section 800-10(c) to read as follows: | |
| (c) Point of Entry. The point of entry for comm | munications wiring and cables shall be within 5 feet of the |
| electrical service entry point. | |
| | grounding electrode has a direct relationship to the potential |
| difference between the communications circuit | |
| | If the communications and electrical service in this manner, |
| | in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications and electrical service in this marrier, in the communications are considered in the communications and electrical service in this marrier, in the communication is a communication of the communication and electrical service in the communication of t |
| a separate grounding electrode, installed in con | ilpitatice with 250-65 (c), shall be histarich for the |
| communications existence and the seconding als | antrodog for the electrical and communications and |
| | ectrodes for the electrical and communications systems |
| shall be connected with a bare or insulated #4 of | copper conductor. The conductor shall not be exposed to |
| shall be connected with a bare or insulated #4 omechanical injury, and when buried, shall be b | copper conductor. The conductor shall not be exposed to uried to a depth of 24 inches |
| shall be connected with a bare or insulated #4 or mechanical injury, and when buried, shall be b Statement of Problem and Substantiation for Comm | copper conductor. The conductor shall not be exposed to uried to a depth of 24 inches |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be b' Statement of Problem and Substantiation for Common Change in proposed text as recommended by of | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be be Statement of Problem and Substantiation for Commended by or commended by or requiring a specific point of entry, the requi | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. irement becomes enforceable. Single point grounding for |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be be statement of Problem and Substantiation for Commended by or Change in proposed text as recommended by or proposed text as recommended by or proposed text as recommended by or requiring a specific point of entry, the requiable communications services and power services. | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. irement becomes enforceable. Single point grounding for its is needed to provide equal potential between the systems. |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be be statement of Problem and Substantiation for Commended by old the proposed text as recommended by old by requiring a specific point of entry, the requiable communications services and power services. There is evidence that when communications so | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. irement becomes enforceable. Single point grounding for its is needed to provide equal potential between the systems. ervices are installed remote from the power system service, |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be be statement of Problem and Substantiation for Commended by old the proposed text as recommended by old by requiring a specific point of entry, the requiable communications services and power services. There is evidence that when communications seeparate ground rods are installed and not bond | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. irement becomes enforceable. Single point grounding for its is needed to provide equal potential between the systems. ervices are installed remote from the power system service, led to the electrical service grounding electrode. By |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be be statement of Problem and Substantiation for Commondage in proposed text as recommended by of By requiring a specific point of entry, the requiable communications services and power service. There is evidence that when communications seeparate ground rods are installed and not bond specifying a service entrance location adjacent | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. irement becomes enforceable. Single point grounding for its is needed to provide equal potential between the systems. ervices are installed remote from the power system service, |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be bustantiation for Commended in proposed text as recommended by of By requiring a specific point of entry, the requirall communications services and power services. There is evidence that when communications separate ground rods are installed and not bond specifying a service entrance location adjacent single point grounding is presented. | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. irement becomes enforceable. Single point grounding for its is needed to provide equal potential between the systems ervices are installed remote from the power system service, led to the electrical service grounding electrode. By |
| shall be connected with a bare or insulated #4 of mechanical injury, and when buried, shall be be statement of Problem and Substantiation for Commendage in proposed text as recommended by of By requiring a specific point of entry, the requiall communications services and power service. There is evidence that when communications seeparate ground rods are installed and not bond | copper conductor. The conductor shall not be exposed to suried to a depth of 24 inches ent: ne of the panel members and shown in the ROP. irement becomes enforceable. Single point grounding for is is needed to provide equal potential between the systems. ervices are installed remote from the power system service, led to the electrical service grounding electrode. By to the power system service entrance a better chance of |

Form for Comments on NFPA National Electrical Code NFPA Document and Reference; NFPA 70 800-11(c) SUBMITTER INFORMATION: First Name: Roger Last Name: Witt Company: State Farm Insurance Telephone#: 309 766 5945 Address 1: 1 State Farm Plaza PO Box: Address 2: State: [] City: Bloomington Representing: Country: USA Date: 10/2379 Please indicate organization represented (if any) FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLOWING: NEPA No.: 70 National Electrical Code 1. a)Document Title: b) Article/Section: 800-11(c) Comment on proposal number: 16-166 new text revised text deleted text. 2. Comment recommends: (Check one); OCT 24 1997 3. Comment (include proposed naw or revised wording, or identification of wording to be deleted): Add new Section 811-10(c) to read as follows: (c) Point of Entry. The point of entry for communications wiring and cables shall be within 5 feet of the electrical service entry point. (FPN): The distance to the electrical system, grounding electrode has a direct relationship to the potential difference between the communications circuits and the power circuits. Exception: Where it is not practicable to install the communications and electrical service in this manner, a separate grounding electrode, installed in compliance with 250-83 (c), shall be installed for the communications systems and the grounding electrodes for the electrical and communications systems shall be connected with a bare or insulated #4 copper conductor. The conductor shall not be exposed to mechanical injury, and when buried, shall be buried to a depth of 24 inches Statement of Problem and Substantiation for Comment: Change in proposed text as recommended by one of the panel members and shown in the ROP. By requiring a specific point of entry, the requirement becomes enforceable. Single point grounding for all communications services and power services is needed to provide equal potential between the systems. There is evidence that when communications services are installed remote from the power system service, separate ground rods are installed and not bonded to the electrical service grounding electrode. By specifying a service entrance location adjacent to the power system service entrance a better chance of single point grounding is presented. ☐ This Comment is original material. This Comment is not original material; its source (if known) is as follows: Suggested comment from CMP panel member Katz, after review of original Proposal

Form for Comments on NFPA National Electrical Code

| NFPA Document and Reference: NFPA | 70 800-40 (b) |
|---|---|
| SUBMITTER INFORMATION: | |
| First Name: Roger | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: City: Bloomington | State: II Zip: 61710 |
| Representing: | Country: USA |
| Please indicate organization represen | nted (if any). Date: 10/23/97 |
| FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FO 1. a)Document Title: National Electrical Code b) Article/Section: 800-40 (b) 2. Comment recommends: (Check one): new tex | NFPA No.: 70 Year: 1996 & 00 Comment on proposal number: 16-172 OCT 2 4 199 |
| 3. Comment (include proposed new or revised wording, or id | |
| excluding the interior water piping system (3) the position as covered in Section 250-71 (b), (4) the metallic position conclusive, or (6) the grounding electrode conductor enclosures, or (7) to the grounding electrode conduct structure disconnecting means that is grounded to an 4. Statement of Problem and Substantiation for Comment: | or the grounding electrode conductor metal for or the grounding electrode conductor metal for or the grounding electrode of a building or electrode as covered in Section 250-24; |
| Delete the option for bonding to the water piping syst non conductive parts leaving an ungrounded system. continuity or integrity nor does it require limitations of the intersystem grounding point per 250-71b as it is metallic power service raceway because this raceway grounding electrode conductor or electrode. ie the rad into the ground, there is no provision to have groundil leaving a question does that condition present a low it long term history of safe and reliable performance. Components and operate at lower voltage than in the particular verifiable location and at a location where the charametallic piping) If the connection point for intersyste entrance point of entry then it may force the point of electrical system and offer the best performance for elimpedance paths. | 250-80a makes no conditions about electrical on connection point or location of connection. Add referenced for such a bonding location. Delete the is not required to be properly bonded to the ceway is connected to the meter box and stubbed ing bushings installed on both ends of that conduit mpedance path to ground? The Panel mentioned a consider that todays appliances have more electronic past, the goal of this proposal is to require bonding at acteristics of the grounding will not change (case of the monding is required to be at the electrical service entry for the cable system to be adjacent to the |
| 5. ☑ This Comment is original material. ☐ This Comment is not original material; its source (if | known) is as follows: |
| | |
| Comment for Submittal to NF | FPA as of 10/23/97 |

Services and December 1

| First Name: Roger | |
|--|--|
| | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: | — |
| City: Bloomington Representing: | State: <u>II</u> Zip: 61710 |
| | Country: USA |
| Please Indicate organization represent | Date: 10/23/97 |
| DR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOL. 1. a)Document Title: National Electrical Code b) Article/Section: 810-21(f) 2. Comment recommends: (Check one): | NFPA No.: 70 Year: 1996 2864 Comment on proposal number: 16-206 |
| Revise as follows: (b) Electrode. The grounding conductor shall be connected in Section 250-81 and 250-71 (b), (2) the grounding covered in Section 250-80 (a), (2) the intersystem bone excluding the interior water piping system (3) the powers as covered in Section 250-71 (b), (4) the metallic power enclosure, or (6) the grounding electrode conductor or enclosures, or (7) to the grounding electrode conductor structure disconnecting means that is grounded to an electrode. | ding or structure grounding electrode system as unded interior metal water piping system as ding point as covered in Section 250-71(b) er service accessible means external to enclosures er service raceway, (5) the service equipment the grounding electrode conductor metal or or the grounding electrode of a building or |
| Statement of Problem and Substantiation for Comment: Delete the option for bonding to the water piping system non conductive parts leaving an ungrounded system. 2 | |

Form for Comments on NFPA National Electrical Code

| NFPA Document and Reference: NFPA 70 | 0.0 00 |
|--|--|
| SUBMITTER INFORMATION: | |
| First Name: Roger | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: | - |
| City: Bloomington | State: II Zip: 61710 |
| Representing: | Country: USA |
| Please Indicate organization represente | d (If any) Date: 10/23/97 |
| <u> </u> | NFPA No.: 70 Year: 1996 A 8 0 3 comment on proposal number: 16-208 |
| 2. Comment recommends: (Check one): | ☑ revised text ☐ deleted text. |
| entry point. (FPN): The distance to the electrical system, grounding difference between the communications circuits and the Exception: Where it is not practicable to install the con a separate grounding electrode, installed in compliance communications systems and the grounding electrodes shall be connected with a bare or insulated #4 copper comechanical injury, and when buried, shall be buried to a | power circuits. nmunications and electrical service in this manner, with 250-83 (c), shall be installed for the for the electrical and communications systems onductor. The conductor shall not be exposed to |
| 4. Statement of Problem and Substantiation for Comment: Change in proposed text as recommended by one of the By requiring a specific point of entry, the requirement b all communications services and power services is need. There is evidence that when communications services as separate ground rods are installed and not bonded to the specifying a service entrance location adjacent to the po single point grounding is presented. | ecomes enforceable. Single point grounding for ed to provide equal potential between the systems. re installed remote from the power system service, electrical service grounding electrode. By |
| 5. This Comment is original material. This Comment is not original material; its source (if known comments in the comment is not original material). This Comment is original material. | |
| CIVIT INCINIOR NAIZ IN Suggested wording of the origina | t proposar |
| | |

| | NFPA Document and | Reference: NFPA 7 | 70 820-11(c) | | |
|---|---|--|---|---|--|
| SUBMITTER IN | | | | | |
| First Name: | | | Last Name: V | | |
| - | State Farm Insurance | | Telephone#: 30 | 09 766 5945 | |
| | 1 State Farm Plaza | | PO Box: | | |
| Address 2: | Bloomington | | State: [[| Zip: 6171 | i Ör |
| Representing: | Diodunigion | | Country: U | | |
| | Please indicate org | ganization represent | - | Date: 10 |)/23/97 |
| 1. a)Documen b) Article/S | Section: 820-11(c) | lectrical Code | NFPA No.: 70 Comment on proposal | number: 16-220 | . 2860 - OCT 24 |
| 2. Comment rec | ommends: (Check one): | new text | revised text | deleted text. | |
| electrical service (FPN): The difference be Exception: Was esparate ground a separate ground shall be communication shall be communicated in Statement of P | entry. The point of entry vice entry point. distance to the electrical tween the communication of the practicable ounding electrode, instal ons systems and the group ected with a bare or insury, and when buried, to be and Substantiation or insury, and Substantiation | system, grounding one circuits and the le to install the coulded in compliance unding electrodes ulated #4 copper c shall be buried to | ng electrode has a direction of the power circuits. Immunications and ection with 250-83 (c), she for the electrical and conductor. The conductor a depth of 24 inches | rect relationship electrical service nall be installed for d communication ductor shall not b | to the potential in this manner, or the ns systems se exposed to |
| Change in pro By requiring a all communic There is evide separate group specifying a s | oposed text as recommer a specific point of entry, ations services and pow- ence that when communi- nd rods are installed and ervice entrance location rounding is presented. | nded by one of the the requirement of the requirement of the requirement of the requirement of the requirement of the the requirement of the requirement of the the requirement of the requirement of the the requirement of the requirement of the the requirement of the requirement of the requirement of the the requirement of the requirement of the requirement of the the requirement of the requirement of the requirement of the the requirement of the requirem | becomes enforceable ded to provide equal are installed remote e electrical service g | e. Single point g I potential betwee from the power s grounding electro | grounding for en the systems. system service, ide. By |
| M This Co | mment is original material. mment is not original mate | rial; its source (if kn | | | |
| Suggested co | mment from CMP pane | l member Katz, af | ter review of origin | ai Proposal | |
| | | | | | |

Form for Comments on NFPA National Electrical Code

| NFPA Document and Reference: NFPA 70 | 3 020*40(0) |
|--|---|
| SUBMITTER INFORMATION: | |
| First Name: Roger | Last Name: Witt |
| Company: State Farm Insurance | Telephone#: 309 766 5945 |
| Address 1: 1 State Farm Plaza | PO Box: |
| Address 2: | • |
| City: Bloomington | State: II Zip: 61710 |
| Representing: | Country: USA |
| Please Indicate organization represented | d (if any) Date: 10/23/97 |
| FOR EACH COMMENT, PLEASE COMPLETE EACH OF THE FOLLO 1. a)Document Title: National Electrical Code b) Article/Section: 820-40(b) C | OWING: NFPA No.: 70 Year: 1996 Omment on proposal number: 16-222 |
| 2. Comment recommends: (Check one): | revised text deleted text. |
| Comment (include proposed new or revised wording, or ident | |
| (b) Electrode. The grounding conductor shall be connected (1) To the nearest accessible location on (1) the build covered in Section 250-81 and 250-71 (b), (2) the ground covered in Section 250-80 (a), (2) the intersystem bonding excluding the interior water piping system (3) the power as covered in Section 250-71 (b), (4) the metallic power enclosure, or (6) the grounding electrode conductor or the enclosures, or (7) to the grounding electrode conductor of structure disconnecting means that is grounded to an electrode conductor of the grounding electrode electro | ing or structure grounding electrode system as ded interior metal water piping system as ing point as covered in Section 250-71(b) r service accessible means external to enclosures a service raceway, (5) the service equipment the grounding electrode conductor metal or the grounding electrode of a building or |
| 4. Statement of Problem and Substantiation for Comment: Delete the option for bonding to the water piping system non conductive parts leaving an ungrounded system. 25 continuity or integrity nor does it require limitations on the intersystem grounding point per 250-71b as it is referentiallic power service raceway because this raceway is grounding electrode conductor or electrode. ie the raceway into the ground, there is no provision to have grounding leaving a question does that condition present a low implicit long term history of safe and reliable performance. Components and operate at lower voltage than in the past a verifiable location and at a location where the character metallic piping) If the connection point for intersystem lentrance point of entry then it may force the point of entry the electrical system and offer the best performance for elimpedance paths. 5. | 0-80a makes no conditions about electrical connection point or location of connection. Add renced for such a bonding location. Delete the not required to be properly bonded to the vay is connected to the meter box and stubbed bushings installed on both ends of that conduit edance path to ground? The Panel mentioned a sider that todays appliances have more electronic t, the goal of this proposal is to require bonding at ristics of the grounding will not change (case of bonding is required to be at the electrical service ry for the communication system to be adjacent to equal potential between the two services and low |
| ☐ This Comment is not original material; its source (if kno | wn) is as follows: |
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Form for Comments on NFPA National Electrical Code

| | NF | PA Document and Referen | ce: NFPA 70 | 830 | | | | |
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| SU | BMITTER INFORMAT | ION: | | • | | | | |
| First Name: Roger Company: State Farm Insurance Address 1: 1 State Farm Plaza | | | | Last Name: Witt Telephone#: 309 766 5945 PO Box: | | | | |
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| | Address 2: | | | • | | | | |
| City: Bloomington | | | | State: | <u> 11</u> | Zip: 61710 | | |
| Re | presenting: | | | Country: | USA | | | |
| | 1 | Please Indicate organizatio | n represented | l (if any) | | Date: 10/2 | 23/97 | |
| FOR | EACH COMMENT. PL | EASE COMPLETE EACH O | ETHE FOLLO | WING. | | · · · · · · · · · · · · · · · · · · · | , | |
| | a)Document Title: | National Electric | | NFPA No.: | 70 _{Ye} | ar: 1996 | 00/0 |) |
| | b) Article/Section: | 830 | Co | mment on propo | | | 2868 | |
| 2. C | omment recommend | s: (Check one): | new text | revised text | dele | ted text. | : | |
| | | posed new or revised work | | | _= | لحسننسب | OCT 2 | A 100 |
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| NFPA Document and Reference: NFPA | 70 90-3 | | | | |
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| SUBMITTER INFORMATION: | | | | | |
| First Name: Roger | Last Name: Witt | | | | |
| Company: State Farm Insurance | Telephone#: 309 766 5945 | | | | |
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| Representing: | Country: USA | | | | |
| Please Indicate organization represer | nted (If any) Date: 10/21/97 | | | | |
| OR EACH COMMENT, PLEASE COMPLETE EACH OF THE FO | LLOWING: | | | | |
| 1. a)Document Title: National Electrical Code | LLOWING: NFPA No.: 70 Year: 1996 2869 | | | | |
| b) Article/Section: 90-3 | Comment on proposal number: 1-23 OCT 2.4 | | | | |
| 2. Comment recommends: (Check one): | | | | | |
| 3. Comment (include proposed new or revised wording, or ide | | | | | |
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| Revise as follows: 90-3. Code Arrangement. This C | | | | | |
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| special equipment, or other special conditions; Chapt | ter 8 applies to communications systems. | | | | |
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Formal Transmittal of Comments to NFPA as of 10/23/97

Mall a copy of the transmittal form with your signature. The registration of your new Comments cannot be completed until this is received, include this report with your disk. Mail to: Secretary, Standards Council, National Fire Protection Association, 1 Batterymarch Park Quincy, MA 02269-9101

| Last Name | First Name | NFPA I | lo. / year | Article/Section | lillede |
|-----------|------------|--------|-------------|--------------------------------------|---------------------|
| Witt | Roger | 70 | 1996 Con | nment on prop# | ful |
| Witt | Roger | 70 | 1996 Con | 210-11 (New) nment on prop# 2-129 | 2849 |
| Witt | Roger | 70 | 1996 Con | 210-7(d)(3) ment on prop# 2-42 | 2850 |
| Witt | Roger | 70 | 1996 Con | 250 nment on prop# 5-41 | 2851 |
| Witt | Roger | 70 | 1996 Com | 250 iment on prop# 5-41A | 2852 |
| Witt | Roger | 70 | 1996 Com | 250-50 (a) ment on prop# 5-150 | 2853 |
| Witt | Roger | 70 | 1996 Com | 250-50 (a) ment on prop# 5-161 | 2854 |
| Witt | Roger | 70 | 1996 Com | 250-50a ment on prop#_ 5-162 | 2855 |
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| Witt | Roger | 70 | 1996 Com | 250-71 (b) ment on prop# 5-189 | 285% |
| Witt | Roger | 70 | 1996 Com | 250-81 (c) ment on prop# 5-241 | 2857 |
| Witt | Roger | 70 | 1996 | | OT 2 4 1997 2858 |
| Witt | Roger | 70 | 1996 | 290 (NEW) ment on prop# 5-337 | 2859 |
| Witt | Roger | 70 | 1996 | 410-30 (d) ment on prop# 18-46 | 2860 |

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| Witt | Roger | 70 | 1996 Cor | 800-10 (c) mment on prop# 16-164 | 2861 | |
| Witt | Roger | 70 | 1996 Cor | 800-11(c) nment on prop# 16-166 | 2862 | |
| Witt | Roger | 70 | 1996 Cor | 800-40 (b) nment on prop# 16-172 | 2863 | |
| Witt | Roger | 70 | 1996 Cor | 810-21(f) mment on prop# 16-206 | 2864 | |
| Witt | Roger | 70 | 1996 Cor | 810-55 nment on prop# 16-208 | 2865 | |
| Witt | Roger | 70 | 1996 Con | 820-11(c) nment on prop# 16-220 | 2866 | |
| Witt | Roger | 70 | 1996 Con | 820-40(b) nment on prop# 16-222 | 2867 | |
| Witt | Roger | 70 | 1996 Con | 830 nment on prop# 16-236 | 2868 | |
| Witt | Roger | 70 | 1996 Con | 90-3 nment on prop# 1-23 | 2869 | |

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EXHIBIT 72

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REINERT PROF

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FORM FOR COMMENTS ON NFPA REPORT ON PROPOSALS 1999 Spring Association Technical MEETING

FINAL DATE FOR RECEIPT OF COMMENTS: 5:00 pm EDST, October 2, 1998 FOR OFFICE USE For further information on the standards-making process, please contact the Codes and Standards Administration 2: 617-856-7249 For technical magistance, please call NFPA at 617-770-3000 Dale Rec'd: Please indicate in which formst you wish to receive your ROP/ROC 💭 electronic 🔲 paper 🗖 download (Note: In choosing the download option you intend to view the ROP/ROC from our Website, no cupy will be bate 9-28-98 Name Donald C. Reinert Tel. No. 316-585-6935 Reinert Propage inc. Company __ Ks. Zip CityInman Street Address 444 8th Ave. 67546 Please Indicate Organization Represented (if eny) NFPA No. & Year 58 98 Edition 7. a) NFPA Document Title_ LP GAS HANDBOOK 95 EDITION b) Section/Paragraph 3-2:7.5 2. Comment on Proposal No. (from ROP): __ 3. Comment recommends: (check one) new text Z. revised text deleted text 4. Comment (include proposed new or ravised wording, or identification of wording to be deleted): (Note: Proposed text should be in legislative format: i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (deloted wording).

See attached: copy 5. Statement of Problem and Substantiation for Comment: (Note: State the problem that will be resolved by your recommendation; give the specific reason for your comment including oppies of losis, research papers, the experience, etc. if more than 200 words, it may be abstracted for publication.)

NFPA 3B 98 EGITION, SECTION 3 22. does not address the height of the vent, as it does in the LP GAS HANDROOK 95 Edition on page 204. Figure 3.14 8. 🕊 This Comment is original meterial. (Note: Original material is considered to be the submitter's own idea based on or as a result of his/her own experience, thought, or research ad, to the best of his/her knowledge, is not copied from another source,) This Comment is not original material, its source (if known) is as follows: I hereby grant the NPPA the nonexclusive, revelop-free rights, including nonexclusive, revelop-free rights in copyright, in this comment, and I understand that I acquire no rights array publication of NIPM which this comment in this or another similar or analogous form is Signature (Required) PLEASE USE SEPARATE FORM FOR EACH COMMENT . NFPA Fax: (677) 770-3500

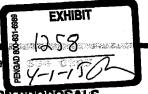
Midit to: Secretary, Standards Council, National Fire Protection Association, 1 Batterymarch Park; P.O. Sox 9101, Quincy, MA 02269

3-2.7.5 The point of discharge from the required pressure relief device on regulating equipment installed outside of buildings in fixed piping systems shall be located at least 24" aboveground and not less than 3ft (1m) horizontally away from any building opening below the level of such discharge, and not beneath any building unless this space is well ventilated to the outside and is not enclosed for more than 50 percent of its perimeter. The point of discharge shall also be located not less than 5 ft (1.5m) in any direction away from any source of ignition, openings into direct-vent (sealed combustion system) appliances, or mechanical ventilation air intakes.

EXHIBIT 73

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Polk Co Fire Departmen



p. 1

FORM FOR COMMENTS ON NFPA REPORT ON PHOPOSALS 2000 NOVEMBER ASSOCIATION TECHNICAL MEETING

FINAL DATE FOR RECEIPT OF COMMENTS: 5:00 pm EST, MARCH 31, 2000 FOR OFFICE USE ONLY For further information on the standards-making process, please contact the Codes and Standards Administration at 517-984-7249 Date Rec'd: For technical assistance, please call NFPA at 617-770-3000 Please Indicate in which format you wish to receive your ROP/ROC __electronic __paper __download (Note: In shoosing the download option you intend to view the ROP/ROC from our Website; no sopy will be sent to you.), -14-06 Name ひそりマッ ひ・トルシャン オナ、Tel. No. 363 534-0383 Date 3-14-00 "Name Wesley W. HAYES Jr. Company POIX County CHY Bartow Street Address Blod. 250/Suite 1 State FJ. Zlp 35 83 (Please Indicate Organization Represented (Many) Florida Fire Chiefs Association NFPA NO. & YEST 38 - 1998 1.:a) NFPA Document Title b) Section/Paragraph Sec. /PAVAGRADA 3-2.5.1 2. Comment on Proposal No. (from ROP): 53-107 revised text deleted text 3. Comment recommends: (check one) x new text Comment (include proposed new or revised wording, or identification of wording to be deleted): (Note: Proposed text should be in legislative format i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (deleted wording). Cylinders nermitted ent of Problem and Substantiation for Comment: (Note: State the problem that will be resolved by your recommendation; give the specific reason for your comment including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.) This Comment is original material. (Note: Original material is considered to be the submitters own idea based on or as a result of his/her own experience, thought, or research ad, to the best of his/her knowledge, is not copied from another source.) This Comment is not original material, its source (if known) is as follows: I hereby grant the NFPA the nonexclusive, royalty-free rights, including nonexclusive, royalty-free rights in copyright, in this comment, and I understand that I acquire no rights in any publication of NFPA in which this comment in this or another similar or analogous form Signature (Required) PLEASE USE SEPARATE FORM FOR EACH COMMENT - NFPA Fax: (617) 770-3500

Mall to: Secretary, Standards Council, National Fire Protection Association, 1 Batterymarch Park, P.D. Box 9101, Quincy, MA 02269

Mary 15 00 11:28a Polk to Fire D. Adachment. 58-107 hog \$170

Installation of propane tanks on roofs, brings on a multifaceted problem for the fire service, starting with the fire ground tactics. Approaching a propage tank is an extremely complex problem, acerbated by the situation being on a roof top. The proper compliment of manpower, equipment and water capacity are not the only concerns facing this sort of issue. Rescue, interior attack, and time are of extreme importance. Locating permanent tanks on roofs will have a direct adverse effect on all the issues mentioned. The proper strategy of firefighters will be immensely changed.

The speed required to set up elevated platforms and ladders for an attack on a roof top installation promotes recklessness. Valuable time is wasted, while the fire service is setting up equipment. The fire service is dedicated to responding to all types of dangers. However, placing firefighters on a Toof, with no escape route is against everything learned in Hazardous Materials Training.

Propane is heavier than air. The approach of the fire service will obviously be lower than what the tank is. Firefighters will be required to go through the hazard to get to the problem. Once again, this is against everything learned in Hazardous Materials Training. There is no viable approach to a leaking tank on a roof.

In researching the NFPA guidelines, I could not find one flocument that spoke to propane leaks or fires located on roofs. I take this to mean that no information is together that the fire service can use to attack a tank located on a roof. Tactics have been written, researched, and papers written on above ground tanks, underground tanks and even tanker trucks. Nothing addresses the issue of an attack on roof top installations. Having no measure to go by, gives the fire service nothing to turn to for information. The lack of information alone millifies the use of LP storage tanks on roof tops,

A propane tank on fire on a roof top, is a situation that no fire department wishes to contend with Firefighters have the commitment of rescue in buildings. That commitment will be shortened due to the grave danger of the firemen and equipment. An interior attack would be accessed on minute by minute situation. Having a BLEVE over the heads of emergency responders would be a nightmare.

The incident of having to rescue firefighters on a roof that have been hurt during a BLEVE would be to the point of being totally immanageable to handle. The involvement would introduce risks beyond what any firefighter should face.

3-14-2000 Westy W. Hayn

EXHIBIT 74 (FILED UNDER SEAL)

EXHIBIT 75 (FILED UNDER SEAL)

EXHIBIT 76 (FILED UNDER SEAL)

EXHIBIT 77



Approved 28 April 1999

INTELLECTUAL PROPERTY POLICY OF ASTM

I. <u>INTRODUCTION.</u>

- A. Section 1 of the ASTM Charter states in part: "The corporation is formed for the development of standards on characteristics and performance of materials, products, systems and services; and the promotion of related knowledge."
- B. By-law 4.4 states: "The Board shall delegate to such committees and other groups those powers necessary for the fulfillment of their assigned function."
- C. By-law 7.1 states: "The Board of Directors is empowered to promulgate procedures for the development and adoption of voluntary consensus standards ...".
- D. The Standing Committee on Publications advises the Board of Directors on the formulation of publications policy. The Committee is responsible for the publications program of the Society except the acceptance for publication of ASTM's standards. "The Committee administers the Society's publications program ..."
- E. The Committee on Technical Committee Operations ("COTCO") is responsible for the Regulations Governing ASTM's Technical Committees 18.1, which state: "Documents [including standards and provisional standards], technical papers, reports, minutes, letters to the editor, and related materials should be released for publication only through ASTM's Headquarters."

F. The Committee on Standards is responsible for the manual, "Form and Style for ASTM Standards." Regulation 10.7 of the Regulations Governing ASTM Technical Committees requires the current edition of Form and Style for ASTM Standards shall be followed in the writing of standards. Section F of that manual covers policies and procedures governing reference to patents, trademarks, similar marks, and reference to standards of other organizations in ASTM Documents.

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internet/website files and publications, multimedia, CD-ROM's, videotapes, audiotapes, and training programs.

C. <u>Trademark.</u> A trademark is either a word, phrase, symbol or design, or combination of words, phrases, symbols or designs, which identifies and distinguishes the source of goods or services from one party from those of others. A service mark is the same as a trademark except it identifies and distinguishes the source of a service rather than a product. Trademark rights may be used to prevent others from using a confusingly similar mark but not to prevent others from making the same goods or from selling them under a non-confusing mark.

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The purpose of this policy is to specify and protect the interests of ASTM in its intellectual property rights, and to describe the means by which ASTM has addressed protection of its rights and recognition of the intellectual property rights of others. ASTM's intellectual property rights, and the revenue generated by utilization of those rights, enables ASTM to carry out its mission.

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Technical Training materials, and Logos (collectively referred to here as "ASTM Intellectual Property"). (Many of these, as well as other examples of ASTM Intellectual Property, are listed in the ASTM Publications Catalog and related brochures. Logos are specifically covered by the ASTM Logo Policy as adopted by the ASTM Board on 15 October 1998.)

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- H. Electronic Networks.
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- 3. ASTM will take reasonable precautions to preserve the property rights of an author of a manuscript not accepted for publication by ASTM.
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EXHIBIT 78

EXHIBIT

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Originally Approved 28 April 1999

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- A. Section 1 of the ASTM Charter states in part: "The corporation is formed for the development of standards on characteristics and performance of materials, products, systems and services; and the promotion of related knowledge."
- B. ASTM By-law 4.4 states: "The Board shall delegate to such committees and other groups those powers necessary for the fulfillment of their assigned function."
- C. By-law 7.1 states: "The Board of Directors is empowered to promulgate procedures for the development and adoption of voluntary consensus standards ..."
- **D.** The Standing Committee on Publications ("COP") advises the Board on the formulation of publications policy. COP is responsible for the publications program of the Society except the acceptance for publication of ASTM's standards. "The Committee administers the Society's publications program ..."
- E. The Committee on Technical Committee Operations ("COTCO") is responsible for the Regulations Governing ASTM's Technical Committees ("Regulations"), of which 17.1, states: "Documents [including standards and provisional standards], technical papers, reports, minutes, letters to the editor, and related materials should be released for publication only through ASTM's Headquarters." Regulation 15 governs the use or reference to a patent in an ASTM standard.
- F. The Committee on Standards ("COS") is responsible for the manual, Form and Style for ASTM Standards ("Form and Style"). Regulation 10.7 requires the current edition of Form and Style shall be followed in the writing of standards. Section F of that manual sets forth policies and procedures governing reference to patents, trademarks, similar marks, and reference to standards of other organizations in ASTM documents.

II. TYPES OF INTELLECTUAL PROPERTY.

Intellectual property includes patents, trademarks, and copyrights and trade secrets, as defined in various federal and state statutes.

- A. Patent. A patent is a property right granted by the government to individuals who invent new and useful inventions. Patents may be granted on any new and useful process, machine, manufactured article, composition of matter, or any new and useful improvements thereof. During a patent's limited term, its owner has the right to exclude others from making, using, selling, offering for sale or importing the patented invention into the United States.
- **B.** Copyright. A copyright is a property right granted to the creators (i.e. authors) of original works which are fixed in a tangible medium of expression and which are independently created and possess some minimal degree of creativity. The exclusive rights provided by a copyright include protection against unauthorized printing, publishing, copying, selling, distributing, and/or performing of the copyrighted work. Copyrighted materials include not only traditional written works but also such things as computer

software, electronic files and publications, internet/website files and publications, multimedia, CD-ROM's, videotapes, audiotapes, and training programs.

C. Trademark. A trademark is either a word, phrase, symbol or design, or combination of words, phrases, symbols or designs, which identifies and distinguishes the source of goods or services from one party from those of others. A service mark is the same as a trademark except it identifies and distinguishes the source of a service rather than a product. Trademark rights may be used to prevent others from using a confusingly similar mark but not to prevent others from making the same goods or from selling them under a non-confusing mark.

III. PURPOSE OF THIS POLICY.

The purpose of this Policy is to specify and protect the interests of ASTM in its intellectual property rights, and to describe the means by which ASTM has addressed protection of its rights and recognition of the intellectual property rights of others. ASTM's intellectual property rights and revenue generated by utilization of those rights enables ASTM to carry out its mission. All ASTM staff, members and others as given in IV.B, below, are expected to comply with this Policy.

IV. SCOPE.

- A. This Policy applies to any ASTM standard, draft standard or related document defined in *Regulation* 2 (and any adjuncts to such standard or document), as well as to all other ASTM publications and related intellectual property, in all forms (including CD-ROM, software, multimedia, ASTM Internet Web Site, videotapes, audiotapes, and written), such as Special Technical Publications, Manuals, Technical Journals, Proficiency Test Program materials, Professional and Technical Training materials, as well as use of trademarks, service marks and Logos (collectively referred to here as "ASTM Intellectual Property"). (Many of these, as well as other examples of ASTM Intellectual Property, are listed in the ASTM Publications Catalog and related brochures. Logos are specifically covered by the *ASTM Logo Policy* as adopted by the ASTM Board on October 15, 1998.)
- B. This Policy applies to all employees, members, officers, directors, participants, authorized resellers/distributors and others involved with the development, adoption, publication, use and/or distribution of ASTM Intellectual Property. For purposes of this Policy, "committee" or "technical committee" includes sub-committees and task groups.
- C. Participants, members and authorized resellers/distributors acknowledge and agree that the adoption, enactment, reference, or incorporation of any of the ASTM Intellectual Property by any government or agency has not and will not effect, transfer, modify or alter the copyrights of the ASTM Intellectual Property in any way.

V. POLICY.

- A. All of ASTM's Intellectual Property rights must be protected, regulated and maintained, no matter how wide the information is distributed in print, electronically, or otherwise. Such protection is essential to ASTM's ability to fulfill its mission.
 - B. ASTM's owns and maintains the rights to its Intellectual Property.
- C. ASTM reserves the right to copyright any of its print, electronic products, databases, audio/visual products and any other subject matter covered by the Copyright Act. This is intended to protect ASTM and its members from unauthorized copying and distribution of ASTM Intellectual Property.

- **D.** By participating in any ASTM technical committee and/or participating in the creation, development and/or adoption of ASTM's Intellectual Property, participants and committee members acknowledge that the copyright to such Intellectual Property resides in ASTM. Such participants and committee members agree if requested by ASTM, to execute any and all documents deemed necessary or appropriate by ASTM to transfer and effectuate ownership of all such rights, including but not limited to copyrights, they may possibly have in ASTM Intellectual Property. The rights granted to ASTM by this assignment or transfer shall belong to ASTM in perpetuity.
- E. All participants, members and staff agree to abide by and follow the requirements of the ASTM Charter, By-laws, Logo Policy, Regulations Governing ASTM Technical Committees, and Form and Style for ASTM Standards, as well as this Policy, as each may be amended from time to time, when creating, developing or utilizing ASTM Intellectual Property.
- F. It is ASTM policy that the copyrights and other intellectual property rights of third parties be respected and not infringed by ASTM or any of its committees, or any employee, member or other person acting on behalf of ASTM.
- G. It is ASTM policy that, if at all possible, proprietary and/or patented equipment, apparatus, material or information not be included in a standard. If such inclusion is necessary, By-law 15 must be complied with.
- H. ASTM registers its trademarks and service marks in the United States and in countries around the world. As a condition for membership, members agree that the marks are the property of ASTM at all times. Use of the marks is subject to, among other things, ASTM's Logo Policy.

I. Electronic Networks.

- 1. The Copyright Act provides copyright protection for certain works fixed in any tangible medium expression, now or later developed, from which they can be perceived, reproduced or otherwise communicated, either directly or with the aid of technology.
- 2. As more and more sophisticated technology becomes available, it may become increasingly difficult to determine and enforce ownership of ASTM Intellectual Property rights. Therefore, inputting, uploading, downloading, reproducing, or transmitting ASTM Intellectual Property without ASTM's prior written permission is prohibited.

VI. PROCEDURE.

A. Intellectual Property - Standards.

- 1. Standards and related documents developed by or for ASTM committees are copyrighted by ASTM as set forth in the U.S. Copyright Act. When an individual or entity joins, volunteers for or accepts appointment to the Society or a committee, the individual or entity, as a condition of membership and participation, expressly acknowledges and agrees that copyrights and all rights to all materials produced by or for ASTM committees are owned by ASTM and that ASTM will register the copyright in its own name.
- 2. If, in developing a standard, other document or adjuncts to such standards or documents, a committee proposes to incorporate material from the copyrighted publication of another organization, the committee should request ASTM staff to obtain written permission from the publisher copyright holder to reprint the material. Reference to a patented item should be avoided if at all possible, but in all cases the ASTM Patent Policy (By-law 15) and F3 of Form and Style for ASTM Standards must be complied with. Regulations Governing ASTM Technical Committees, Form and Style for ASTM Standards (including but not limited to F3, F4 and F5), and ASTM staff should be consulted for guidance if patented items or trade/service marks are to be referenced in a standard or document.
 - 3. ASTM standards may currently include copyrighted material reproduced under

agreement with the copyright holder. Similarly, ASTM may permit others to reprint its material based on appropriate license agreements. F3 of *Form and Style* must be followed when referencing standards of other organizations.

- 4. The provision stated in A.3 (above) applies to all forms of media, including, for example, both hard copy and electronic formats.
- 5. Guidance to committees and members on protection of ASTM's Intellectual Property rights and avoidance of infringement of the rights of others is provided by the ASTM staff.
- 6. Only [an officer] of ASTM can grant permission for the use, copying or distribution of ASTM Intellectual Property by others. Any requests for such permission must be forwarded to ASTM staff for consideration and further action.

B. Intellectual Property Other Than Standards

- 1. ASTM recognizes different ways to assign intellectual property rights:
- a) When individual authors submit manuscripts for technical papers for publication by ASTM in an ASTM Special Technical Publication or ASTM Journal, the author must sign an agreement (Author Agreement) whereby ownership of the material is assigned to ASTM. However, if the technical paper was prepared in the course of the author's employment by the U.S., Canadian, or British Governments, ASTM acknowledges that copyright does not exist.
- b) When ASTM contracts, subsidizes, or agrees with writers, authors, editors, or others to prepare or otherwise help create ASTM Intellectual Property other than technical papers as given in 1a above, a "Work for Hire" Agreement must be signed in which copyright is acknowledged to reside in ASTM or will be assigned to ASTM. Copyright shall be granted and/or assigned exclusively to ASTM, including any and all rights protected by the Copyright laws of the United States and all other countries as set forth in the respective agreement.
- 2. When ASTM creates and distributes its Intellectual Property, ASTM may do so in whatever manner it decides. This will not, however, preclude the use of the Intellectual Property by authors and editors as set forth in the applicable agreements described in 1a and 1b above.
- 3. ASTM will take reasonable precautions to preserve the property rights of an author of a manuscript submitted but not accepted for publication by ASTM.
- C. Licensing. ASTM may, at its sole discretion, assign, license or permit the use by others of its Intellectual Property. ASTM requires any individual or entity who desires to copy, reproduce, market, create a derivative work utilizing or distribute any of ASTM's Intellectual Property (e.g. Standards, Draft Standards, Adjuncts, Technical Papers, Research Reports, Manuals, Software, Training Course Materials, Logos) to execute an appropriate ASTM License Agreement. Such agreements will normally require, among other things, that licensees not modify the ASTM Intellectual Property and to make appropriate copyright acknowledgments and royalty payments. ASTM has no obligation to execute such agreements.

| As amended by | y the ASTM Board of Directors | , 2003. |
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EXHIBIT 79

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Originally Approved 28 April 1999

INTELLECTUAL PROPERTY POLICY OF ASTM INTERNATIONAL ("POLICY")

I. INTRODUCTION. Ownership and use of ASTM International's Intellectual Property (e.g. Standards, Draft Standards, Adjuncts, Certification Programs and related materials, Technical Papers, Research Reports, Manuals, Software, Training Course Materials and Logos collectively referred to as "ASTM IP") are vital to the ability of ASTM International to fulfill its mission. ASTM International owns and maintains the rights to its Intellectual Property; it is the responsibility of ASTM International's Board of Directors ("Board"), staff, members, and others who participate in the creation of ASTM IP (collectively "Participants"), as well as authorized resellers/distributors of ASTM IP, to protect these valuable assets and ensure that they are used in accordance with this Policy.

A. Section 1 of the ASTM International Charter states in part: "The corporation is formed for the development of standards on characteristics and performance of materials, products, systems and services; and the promotion of related knowledge." Section 9 of the Charter also states, in part: "...the Corporation shall not engage in any activity which is not educational, technical, scientific or charitable..."

- B. ASTM International By-law 4.4 states: "The Board shall delegate to such committees and other groups those powers necessary for the fulfillment of their assigned function."
- C. ASTM International By-law 7.1 states: "The Board of Directors is empowered to promulgate procedures for the development and adoption of voluntary consensus standards ..."
- **D.** The Standing Committee on Publications ("COP") advises the Board on the formulation of publications policy. COP is responsible for all publications programs of the Society except the acceptance for publication of ASTM International's standards.
- E. The Committee on Technical Committee Operations ("COTCO") is responsible for the Regulations Governing ASTM's Technical Committees ("Regulations"), of which Regulation 17.1 states: "Documents [including standards and provisional standards], technical papers, reports, minutes, letters to the editor, and related materials should be released for publication only through ASTM's headquarters."
- F. Regulation 10.7 requires that the current edition of the manual, Form and Style for ASTM Standards ("Form & Style") will be followed in the writing of standards (the Committee on Standards ("COS") is responsible for Form & Style). Section F of Form & Style sets forth policies and procedures governing, among other matters, reference to patents, trademarks, similar marks, and reference to standards of other organizations, in ASTM International documents. Regulation 15 governs the use or reference to a patent in an ASTM International standard.

II. TYPES OF INTELLECTUAL PROPERTY.

Intellectual property includes patents, trademarks and copyrights, as defined in various federal and state statutes.

A. Patent. A patent is a property right granted by the government to inventors of new and useful inventions. Patents may be granted on any new and useful process, machine, manufactured article, composition of matter, or any new and useful improvements thereof. During a patent's limited term, its owner has the right to exclude others from making, using, selling, offering for sale or importing the patented invention into the United States.

- B. Copyright. A copyright is a property right granted to the creators (i.e. authors) of original works that are fixed in a tangible medium of expression and that are independently created and possess some minimal degree of creativity. The exclusive rights provided by a copyright include protection against unauthorized printing, publishing, copying, selling, distributing, and/or performing of the copyrighted work. Copyrighted materials include not only traditional written works but also such things as computer software, electronic files and publications, internet/website files and publications, multimedia, CD-ROMs, DVDs, videotapes, audiotapes, and training programs.
- C. Trademark. A trademark is a word, phrase, symbol or design, or combination of words, phrases, symbols or designs, which identifies and distinguishes the source of goods or services from one party from those of others. A service mark is the same as a trademark except it identifies and distinguishes the source of a service rather than a product. Trademark rights may be used to prevent others from using a confusingly similar mark but not to prevent others from making the same goods or from selling them under a non-confusing mark.

III. PURPOSE OF THIS POLICY.

The purpose of this Policy is to specify and protect the interests of ASTM International in its Intellectual Property rights, and to describe the means by which ASTM International has addressed protection of these rights and recognition of the intellectual property rights of others. ASTM International's Intellectual Property rights and revenue generated by utilization of those rights enable ASTM International to carry out its mission. All ASTM International staff, members, and others as stated in IV.B, below, are expected to comply with this Policy.

IV. SCOPE.

A. This Policy applies to any ASTM International standard, draft standard or related document (hereinafter referred to as "ASTM Documents")defined in Regulation 2 of the Regulations Governing ASTM Technical Committees, and any adjuncts to such ASTM Documents, as well as to all other ASTM International publications and related property, in all forms (including CD-ROM, software, multimedia, ASTM Internet Web Site, videotapes, audiotapes) and written materials such as Certification Programs and materials, Special Technical Publications, Manuals, Technical Journals, Proficiency Test Program materials, Professional and Technical Training materials, as well as use of trademarks, service marks, certification marks and Logos (collectively part of ASTM IP). (Many of these, as well as other examples of ASTM IP, are listed in the ASTM International Publications Catalog and related brochures. Logos are specifically covered by the ASTM International Logo Policy as adopted and amended by the Board.)

B. This Policy applies to all ASTM International employees, members, officers, directors, Participants, resellers/distributors and others involved with the development, adoption, publication, use and/or distribution of ASTM IP. For purposes of this Policy, "committee" or "technical committee" includes subcommittees and task groups.

C. Participants, members, and authorized resellers/distributors acknowledge and agree that the adoption, enactment, reference, or incorporation of any of the ASTM IP by any government or agency has not and will not effect, transfer, modify or alter the copyrights of the ASTM IP in any way.

V. POLICY.

A. All of ASTM International's Intellectual Property rights must be protected, regulated and maintained, no matter how wide the information is distributed in print, electronically, or otherwise. Such protection is essential to ASTM International's ability to fulfill its mission and maintain its Intellectual Property. The Board of Directors has approved the <u>Principles for the Use</u> of ASTM Intellectual Property by Other Standards Organizations.

B. ASTM International owns and maintains the rights to its Intellectual Property.

- C. ASTM International reserves the right to copyright any of its print, electronic products, databases, audio/visual products and any other subject matter covered by Copyright (pursuant to the US Copyright Act and International Copyright law). This is intended to protect ASTM International and its members from unauthorized copying and distribution of ASTM IP.
- **D.** By participating in any ASTM International technical committee and/or participating in the creation, development and/or adoption of ASTM IP, Participants and committee members acknowledge that the copyright to such Intellectual Property resides in ASTM International. Each member agrees, by such participation and enjoyment of his/her annual membership benefits, to have transferred any and all ownership interest, including copyright, they possess or may posses in the ASTM IP to ASTM. If requested by ASTM International, such Participants and committee members agree to execute any and all documents deemed necessary or appropriate by ASTM International to transfer and effectuate ownership of all such rights, including but not limited to copyrights, they may possibly have in ASTM IP. The rights granted to ASTM International by this assignment or transfer shall belong to ASTM International in perpetuity.
- E. All Participants, members and staff agree to abide by and follow the requirements of the ASTM International Charter, ASTM International By-laws, Regulations Governing ASTM Technical Committees, and Form and Style for ASTM Standards, ASTM International Logo Policy, as well as this Policy, as each may be amended from time to time, when creating, developing or utilizing ASTM IP.
- **F.** It is ASTM International's policy, reflected in **Form & Style F5**, that the copyrights and other intellectual property rights of third parties be respected and not infringed by ASTM International or any of its committees, or any employee, member or other person acting on behalf of ASTM International.
- G.It is ASTM International policy that, if at all possible, proprietary and/or patented equipment, apparatus, material or information not be included in a standard. If such inclusion is necessary, ASTM International's Patent Policy (Regulation 15) must be complied with.
- H. ASTM International registers its trademarks and service marks in the United States and in countries around the world. As a condition of membership, members agree that the marks are the property of ASTM International at all times. Use of the marks is subject to, among other things, ASTM International's Logo Policy.

I. Electronic Networks.

- 1. The US Copyright Act (as well as International Copyright law) provides copyright protection for certain works fixed in any tangible medium expression, now or later developed, from which they can be perceived, reproduced or otherwise communicated, either directly or with the aid of technology.
- 2. As more and more sophisticated technology becomes available, it may become increasingly difficult to determine and enforce ownership of ASTM International's Intellectual Property rights; therefore, inputting, uploading, downloading, reproducing, or transmitting ASTM IP without ASTM International's prior permission (or in conformity with ASTM International's applicable License Agreements) is prohibited.

VI. PROCEDURE.

A. Intellectual Property -- Standards.

- 1. Standards and related documents developed by or for ASTM International committees are copyrighted by ASTM International, as set forth in the U.S. Copyright Act. When an individual or entity joins, volunteers for or accepts appointment to the ASTM International or an ASTM International committee, the individual or entity, as a condition of membership and participation, expressly acknowledges and agrees that copyrights and all rights to all materials produced by or for ASTM International committees are owned by ASTM International and that ASTM International will register the copyright and hold all intellectual property rights in its own name.
- 2. Copyrights and Patents in ASTM Standards. If, in developing an ASTM Document or adjuncts to such ASTM Documents, a committee proposes to incorporate material from the copyrighted publication of another organization, the committee should request ASTM International staff to obtain written permission from the copyright holder to reprint the material. Reference to a patented item should be avoided, if at all possible, but in all cases section F5 of Form & Style must be complied with. Regulation 15 of the Regulations Governing ASTM Technical Committees, and Form and Style for ASTM Standards (including but not limited to sections F3 and F4), as well as ASTM International staff, should be consulted for guidance if patented items or trade/service marks are to be referenced in an ASTM Document.
- 3. ASTM International standards may currently include copyrighted material reproduced under agreement with the copyright holder. Similarly, ASTM International may permit others to reprint its material based on appropriate license agreements. Section F5 of Form and Style must be followed when referencing standards of other organizations.
- 4. The provision stated in A.3 (above) applies to all forms of media, including, for example, both hard copy and electronic formats.
- 5. Guidance to committees and members on protection of ASTM IP and avoidance of infringement of the rights of others is provided by the ASTM International staff.
- 6. Permission to Use ASTM IP. Only the President of ASTM International or the Vice President of Publications of ASTM International (in commercial transactions) can grant permission for the use, copying or distribution of ASTM IP by others. Any requests for such permission must be forwarded to ASTM International staff for consideration and further action.

B. Intellectual Property Other Than Standards

- 1. ASTM International recognizes different ways to assign intellectual property rights:
- a) When individual authors submit manuscripts of technical papers for publication by ASTM International, the author must sign an agreement (Author Agreement) whereby ownership of the material is assigned to ASTM International; however, if the technical paper was prepared in the course of the author's employment by the U.S., Canadian, or British Governments, ASTM acknowledges that copyright does not exist.
- b) When ASTM International contracts, subsidizes, or agrees with writers, authors, editors, or others to prepare or otherwise help create ASTM IP other than technical papers as given in 1a above, a "Work for Hire" Agreement must be signed in which copyright is acknowledged to reside in ASTM International or will be assigned to ASTM International. Copyright shall be granted and/or assigned exclusively to ASTM International, including any and all rights protected by the copyright laws of the United States and all other countries as set forth in the respective agreement.
- 2. When ASTM International creates and distributes ASTM IP, ASTM International may do so in whatever manner it decides. This will not, however, preclude the use of the Intellectual Property by authors and editors as set forth in the applicable agreements described in 1a and 1b above.

3. ASTM International will take reasonable precautions to preserve the property rights of an author of a manuscript submitted, but not accepted, for publication by ASTM International. C. Licensing. ASTM International may, at its sole discretion, assign, license or permit the use by others of ASTM IP. ASTM International requires any individual or entity who desires to copy, reproduce, market, create a derivative work utilizing or distribute any of ASTM International's Intellectual Property (e.g. Standards, Draft Standards, Certification Programs and materials, Adjuncts, Technical Papers, Research Reports, Manuals, Software, Training Course Materials, Certification Marks and Logos) to execute an appropriate ASTM License Agreement. Such agreements will normally require, among other things, that licensees not modify the ASTM IP and that they make appropriate copyright acknowledgments and royalty payments. ASTM International has no obligation to execute such agreements.

As amended by the ASTM International Board of Directors, October 28, 2003 and April 13, 2010

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EXHIBIT 80 (FILED UNDER SEAL)