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MEMORANDUM

To: National Electrical Code Technical Correlating Committee

From: Kimberly Shea

Date: April 17, 2014

Subject: NFPA 70E Proposed Tentative Interim Amendment (TIA) No. 1128

The Technical Committee on Electrical Safety in the Workplace has been balloted on proposed TIA 1128 submitted by submitted by Jim Dollard, IBEW Local Union 98 and Marcia Eblen, Pacific Gas & Electric. A copy of the proposed TIA and the final results of the TC balloting are attached.

This proposed TIA is now being submitted to you for letter ballot. In addition to being balloted on the **correlating issues** of the proposed TIA, the Committee is also being balloted on whether or not this matter is of an **emergency nature**. Disagreeing votes are limited to subjects within the purview of the Correlating Committee. Opposition on a strictly technical basis is not sufficient grounds for substantiating a disagreement vote. If you do have correlation issues please identify and describe your concerns. Please see Section 5 (copy enclosed) regarding the processing of TIAs from the *NFPA Regulations Governing the Development of NFPA standards*.

Please complete and return the attached letter ballot either via email to kshea@nfpa.org or via fax to 617-984-7070. **Ballots are due on Thursday, April 24, 2010.**

This proposed TIA has been published for public comment in the April issue of *NFPA News* with a Public Comment Closing Date of May 16, 2010. Any public comments received will be circulated to the committee. The Standards Council will consider the issuance of this TIA at their August 11-14, 2014 meeting.

Note: Please remember that the return of ballots and attendance at committee meetings are required in accordance with the NFPA Regulations Governing the Development of NFPA standards.

Attachments

NFPA 70E-Proposed 2015 Edition

Standard for Electrical Safety in the Workplace®

TIA Log No. 1128

Reference: Table 130.7(C)(15)(A)(a)

Comment Closing Date: May 16, 2014

Submitters: Marcia Eblen, Pacific Gas & Electric and James T. Dollard Jr., IBEW Local Union 98

1. *Revise Table 130.7(C)(15)(A)(a) as follows:*

Revise the title of the second and third columns as follows:

- *Delete the asterisk and add “(3)” in the second column and*
- *Add “(1, 2)” in the third column*
-

Table 130.7(C)(15)(A)(a)— Arc-Flash Hazard Identification for Alternating Current (ac) and Direct Current (dc) Systems

Task	Equipment Condition [⌘] (3)	Arc Flash PPE Required (1, 2)
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[Remainder of Table unchanged]

(2) *Number the existing Notes, delete the asterisk, modify the first note and add a new second Note as follows:*

Note 1: Hazard identification is one component of risk assessment. Risk assessment involves a determination of the likelihood of occurrence of an incident, resulting from a hazard that could cause injury or damage to health. The assessment of the likelihood of occurrence contained in this table does not cover every possible condition or situation. Where this table indicates that arc flash PPE is not required, an arc flash is not likely to occur. It does not mean that an arc flash incident is not possible.

Note 2: Clothing shall meet the nonmelting requirements of 130.7(C)11 and 130.7(C)12 when this table indicates arc flash PPE is not required.

Note 3: [⌘] The phrase *properly installed*, as used in this table, means that the equipment is installed in accordance with applicable industry codes and standards and the manufacturer’s recommendations. The phrase *properly maintained*, as used in this table, means that the equipment has been maintained in accordance with the manufacturer’s recommendations and applicable industry codes and standards. The phrase *evidence of impending failure*, as used in this table, means that there is evidence of arcing, overheating, loose or bound equipment parts, visible damage, deterioration, or other damage.

Problem: This TIA seeks to address two identified problems:

1. The revised table does not state that the use of clothing containing meltable fibers is prohibited for tasks that are identified as “No” in the “Arc Flash PPE Required” column.

The tables in the 2012 edition of NFPA 70E identified some tasks as Hazard/Risk Category (HRC) 0. Those tasks were considered to have an extremely low probability of initiating an arc flash occurrence. The clothing requirements for HRC 0 prohibited the use of meltable fibers.

The revisions to the table in the 2015 edition resulted in the deletion of HRC 0. The tasks that were previously identified as HRC 0 became “No” in the “Arc Flash PPE Required” column. However, the table no longer states that the use of clothing containing meltable fibers is prohibited for those tasks.

This TIA does not seek, in any manner, to reinstate HRC 0. Rather, it seeks to clarify that the use of clothing containing meltable fibers is prohibited for tasks that are identified as “No” in the “Arc Flash PPE Required” column. This prohibition will be a requirement as the table notes are mandatory, not informational.

2. Concern was expressed in some negative ballot comments that the newly revised table and the “yes or no” column for arc flash rated PPE was indicating to the table user that an arc flash was not possible.

The substance of existing Note 1, particularly the last sentence, indicates this was not the intent. However, to address the concern expressed in some of the negative ballots, and to remove any ambiguity, a new sentence is added at the end of the paragraph. The sentence informs the user of the standard that while the tasks identified as “No” in the “Arc Flash PPE Required” column have an extremely low probability of initiating an arc flash occurrence, it does not mean that an arc flash occurrence is not possible.

Submitter’s Substantiation: When the Technical Committee deleted Hazard/Risk Category 0 from Table 130.7(C)(15)(A)(a) and Table 130.7(C)(15)(B) it was not the intent to suggest that the use of clothing constructed of meltable fabrics was now permitted by users of these tables. However, it is possible that with the deletion of HRC 0 some users of the document might be confused about clothing requirements when using the Table 130.7(C)(15)(A)(a) and erroneously conclude that the use of meltable fabric clothing is now permitted. This TIA is meant to correct this possible misinterpretation of Table 130.7(C)(15)(A)(a).

The additional sentence at the end of Note 1 provides the user of this standard with a clarification that while the listed tasks that do not require arc flash PPE have an extremely low probability of resulting in an arc flash, a remote possibility of an incident does exist.

Emergency Nature: This proposed TIA meets multiple requirements listed in 5.3 for the evaluation of emergency nature.

The technical committee deleted HRC 0 and did not address the prohibition clothing containing meltable fibers in the newly revised table.

There is a potential conflict between the newly revised table and the requirements of 130.7(C)(11) & 130.7(C)(12) without a specific reference in the table to prohibit meltable fabrics.

The proposed TIA prohibits meltable fabrics from being worn while tasks with an extremely low chance of an arc flash are performed. While an arc flash is not likely to occur when these tasks are performed, it does not mean that an arc flash incident is not possible. If meltable fabrics are worn and an arc flash does occur the burn injury will be seriously aggravated.

Section 5 Tentative Interim Amendments.

5.1 Preliminary Determination of Compliance.

A Tentative Interim Amendment (TIA) to any Document may be processed if the Council Secretary determines, after a preliminary review, and consultation with the appropriate Chair, that the Amendment appears to be of an emergency nature requiring prompt action and has the endorsement of at least two Members of the involved TC or TCC. If processed, the question of emergency nature shall be considered by the TC and TCC. The text of a proposed Tentative Interim Amendment may be processed as submitted or may be changed, but only with the approval of the submitter.

5.2 Evaluation of Emergency Nature. Determination of an emergency nature shall include but not be limited to one or more of the following factors:

- (a) The document contains an error or an omission that was overlooked during a regular revision process.
- (b) The document contains a conflict within the document or with another NFPA document.
- (c) The proposed TIA intends to correct a previously unknown existing hazard.
- (d) The proposed TIA intends to offer to the public a benefit that would lessen a recognized (known) hazard or ameliorate a continuing dangerous condition or situation.
- (e) The proposed TIA intends to accomplish a recognition of an advance in the art of safeguarding property or life where an alternative method is not in current use or is unavailable to the public.
- (f) The proposed TIA intends to correct a circumstance in which the revised document has resulted in an adverse impact on a product or method that was inadvertently overlooked in the total revision process, or was without adequate technical (safety) justification for the action.

5.3 Publication of Proposed Tentative Interim Amendment.

A proposed Tentative Interim Amendment that meets the provisions of 5.1 shall be published by the Association in appropriate media with a notice that the proposed Tentative Interim Amendment has been forwarded to the responsible TC and TCC for processing and that anyone interested may comment on the proposed Tentative Interim Amendment within the time period established and published.

5.4 Technical Committee and Technical Correlating Committee Action.

(a) The proposed Tentative Interim Amendment shall be submitted for ballot and comment of the TC in accordance with 3.3.4. The TC shall be separately balloted on both the technical merits of the amendment and whether the amendment involves an issue of an emergency nature. Such balloting shall be completed concurrently with the public review period. Any public comments inconsistent with the vote of any TC Member shall be circulated to the TC to allow votes to be changed. A recommendation for approval shall be established if three-fourths of the voting Members calculated in accordance with 3.3.4.5 have voted in favor of the Tentative Interim Amendment.

(b) The proposed Tentative Interim Amendment shall be submitted for ballot and comment of the TCC, if any, which shall make a recommendation to the Council with respect to the disposition of the Tentative Interim Amendment. The TCC shall be separately balloted on both the merits of the amendment (as it relates to the TCC authority and

responsibilities in accordance with 3.4.2 and 3.4.3) and whether the amendment involves an issue of an emergency nature. Any public comments inconsistent with the vote of any TC or TCC Member shall be circulated to the 28 TCC to allow votes to be changed. A recommendation for approval shall be established if three-fourths of the voting Members calculated in accordance with 3.3.4.5 have voted in favor of the Tentative Interim Amendment.

(c) All public comments, ballots, and comments on ballot on the proposed Tentative Interim Amendment shall be summarized in a staff report and forwarded to the Council for action in accordance with 5.5.

5.5 Action of the Council. The Council shall review the material submitted in accordance with 5.4(c), together with the record on any Appeals (see 1.6, 1.6.1), and shall take one of the following actions:

- (a) Issue the proposed Tentative Interim Amendment
- (b) Issue the proposed Tentative Interim Amendment as amended by the Council
- (c) Where acted on concurrently with the issuance of a new edition of the Document to which it relates, issue the Tentative Interim Amendment as part of the new edition;
- (d) Reject the proposed Tentative Interim Amendment
- (e) Return the proposed Tentative Interim Amendment to the TC with appropriate instruction
- (f) Direct a different action

5.6 Effective Date of Amendment. Tentative Interim Amendments shall become effective 20 days after Council issuance unless the President determines, within his or her discretion, that the effective date shall be delayed pending the consideration of a Petition to the Board of Directors (see 1.7). The President may also, within his or her discretion, refer the matter of a delay in the effective date of the TIA to the Executive Committee of the Board of Directors or to the Board of Directors.

5.7 Publication of Amendment. The Association shall publish in one of its publications sent or accessible to all Members notice of the issuance of each Tentative Interim Amendment and may, as appropriate, issue a news release to applicable and interested technical journals. The notice and any news release shall indicate the tentative character of the Tentative Interim Amendment. In any subsequent distribution of the Document to which the Tentative Interim Amendment applies, the text of the Tentative Interim Amendment shall be included in a manner judged most feasible to accomplish the desired objectives.

5.8 Applicability. Tentative Interim Amendments shall apply to the document existing at the time of issuance. Tentative Interim Amendments issued after the proposal closing date shall also apply, where the text of the existing document remains unchanged, to the next edition of the Document. Tentative Interim Amendments issued concurrently with the issuance of a new edition shall apply to both the existing and new edition.

5.9 Subsequent Processing. TC responsible for the Document or part of the Document affected shall process the subject matter of any Tentative Interim Amendment as a proposal for the next edition of the Document (see 3.3).

5.10 Exception. When the Council authorizes other procedures for the processing and/or issuance of Tentative Interim Amendments, the provisions of this Section shall not apply.

Subject: FW: TIA submission

From: mleengineering@comcast.net [mailto:mleengineering@comcast.net]
Sent: Saturday, December 14, 2013 5:42 PM
To: James T. Dollard Jr.
Cc: Fuller, Linda; Walker, Nancy
Subject: Re: TIA submission

Nancy,

This email will serve as my endorsement of the TIA also.

Thanks,
Marcia Eblen

From: "James T. Dollard Jr." <jimdollard98@aol.com>
To: nwalker@NFPA.org
Cc: lfuller@NFPA.org, mleengineering@comcast.net
Sent: Saturday, December 14, 2013 1:13:52 PM
Subject: TIA submission

Hello Nancy,

Please process the attached TIA for the 2015 edition of NFPA 70E.

The submitters of this TIA are Marcia Eblen and James T. Dollard Jr.

This email will serve as my endorsement of the TIA.

Thanks,
Jim

James T. Dollard Jr.
Safety Coordinator
IBEW Local 98
1701 Spring Garden Street
Philadelphia, PA 19130
office 215-563-5592
cell 215-802-3772



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MEMORANDUM

To: NFPA Technical Committee on Electrical Safety in the Workplace
From: Kimberly Shea, Administrator – Technical Projects
Date: April 17, 2014
Subject: NFPA 70E Proposed TIA No. 1128 **Final Ballot Results**

According to 5.4 of the NFPA Regulations Governing Committee Projects, the final results show that Proposed TIA 1128 **HAS NOT** achieved the 3/4 majority vote needed to pass ballot on both Question 1 (**Technical Merit**) and Question 2 (**Emergency Nature**).

25 Eligible to Vote
0 Not Returned

Technical Merit

16 Agree (w/comment Hickman)
8 Disagree (Dini, Drobnick, Gray, Mohla, Neitzel, Pace, Stallcup, Tobias)
1 Abstain (Wallis)

Emergency Nature:

15 Agree
8 Disagree (Dini, Drobnick, Gray, Mohla, Neitzel, Pace, Stallcup, Tobias)
2 Abstain (Hayes, Wallis)

There are two criteria necessary to pass ballot [(1) simple majority (2) affirmative ¾ vote]. Both questions must to pass ballot in order to recommend that the Standards Council issues this TIA.

(1) In all cases, an affirmative vote of at least a simple majority of the total membership eligible to vote is required.

$$[25 \text{ eligible} \div 2 = 12.5 = \mathbf{13}]$$

(2) The number of affirmative votes needed to satisfy the ¾ requirement is **18**.

Technical Merit: 25 eligible - 0 not returned - 1 abstentions = $24 \times 0.75 = \mathbf{18}$

Emergency Nature: 25 eligible - 0 not returned - 2 abstentions = $23 \times 0.75 = 17.25 = \mathbf{18}$

An appeal relating to a proposed Tentative Interim Amendment shall be filed no later than 5 days after the notice of the Technical Committee TIA ballot results are published in accordance with 1.6.2 (c) and 4.2.6. In the case that a Correlating Committee is also being balloted, appeals need to filed 5 days after the notice of the Correlating Committee TIA ballot results are published.

Final ballot comments are attached for your review. Ballots received from alternate members are not included, unless the ballot from the principal member was not received.

Attachment

Negative, Abstain, and Agree ballots with comments

**TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128**

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the **TECHNICAL MERITS** of the Proposed TIA

_____ **AGREE** **X** **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

The normal operation of properly installed and maintained electrical equipment should not expose the worker to an undue hazard. The product standard requirements for listed products such as circuit breakers, switches, etc., contain pass/fail criteria that evaluates the product's ability to perform safely under normal operation. The new arc-flash hazard identification table in NFPA 70E is a vast improvement over past editions in identifying where arc flash PPE is or is not required. Previous editions (e.g. 70E-2012) included a hazard/risk category 0, where nonmelting protective clothing was required for tasks such as circuit breaker or fused switch operation with covers on. However, Informational Note No. 2 to Sec. 130.7 further clarified that normal operation of enclosed electrical equipment, operating at 600 volts or less, that has been properly installed and maintained by qualified persons is not likely to expose the employee to an electrical hazard. Requiring all workers who are covered under the scope of 70E to wear nonmelting clothing, even when performing normal operation of properly installed equipment, appears to be unwarranted.

Question 2: I agree that the subject is of an **EMERGENCY NATURE**.

_____ **AGREE** **X** **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

The normal operation of properly installed and maintained electrical equipment should not expose the worker to an undue hazard, and UL is not aware of any such incidents.



Signature

David A. Dini
Name (Please Print)

April 8, 2014
Date

Please return the ballot on or before **April 8, 2014**

TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the **TECHNICAL MERITS** of the Proposed TIA

_____ **AGREE** X **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position. Section 130.7(c)(ii)
directly prohibits the wearing of meltable fabrics. This TIA does
not prohibit performing electrical work while wearing non-melting
short sleeve shirt and shorts.

Question 2: I agree that the subject is of an **EMERGENCY NATURE**.

_____ **AGREE** X **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.
All sections of Article 130 apply including the use
of the Tables.

D. A. Drake
Signature

Drake A. Drobnick CSP, CET
Name (Please Print)

3-25-14
Date

Please return the ballot on or before **April 8, 2014**

PLEASE RETURN TO:

Kimberly Shea
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7070

E-mail: kshea@nfpa.org

bobby Gray
pg 7

**TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128**

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the **TECHNICAL MERITS** of the Proposed TIA

_____ **AGREE** X **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

I respectfully disagree with the submitters on the technical merit of this TIA proposal. First, the addition of the sentence to the existing note is redundant and unnecessary. I believe the users of the standard are for the most part educated enough to understand that "not likely" is not the same as "impossible," without the technical committee explanation of the difference. Similar phrases are used elsewhere in the standard (e.g. definition of Arc Flash Hazard, 110.6(G), 130.7) with no indication these phrases are misunderstood by the users. In fact, it is my experience that most users now understand that the only way to achieve impossibility of exposure to an electrical hazard is through establishing an electrically safe working condition, not through the use of additional PPE.

Next, I appreciate the objective this proposal is attempting, but I think it will dilute the positive effects the improvements in the table will provide the industry. I realize the submitters do not intend to reintroduce HRC 0, but in fact, that is exactly what this TIA will do. Acceptance will return the table to a misguided philosophy that reduced protection is associated with reduced probability. In the 2012 edition, operation of a circuit breaker in a 240 volt single phase panel where the arc flash boundary is 19 inches according to the parameters, does not require the worker to wear arc-rated clothing. This is in direct conflict with 130.7(C)(1) and 130.1. This proposed wording seeks to do the same thing. Based on the substantiation, use of non-melting clothing should be required because an arc-flash incident is possible for this equipment and tasks. If that is our concern, we should require arc-rated clothing. OSHA has provided evidence that fatalities can occur at these levels due to clothing ignition from slag particles similar to arc welding accidents. So, if the goal is to prevent this event, non-melting clothing alone will not achieve the results. We should specify the proper protection for the identified hazard.

Further, the proposed wording seeks to address an unlikely but possible event. I have documented evidence that arc flash events occur without human intervention. The possibility is remote, but still possible. Yet, we accept that risk else we would dress our children in arc flash clothing each day because they walk by 480 volt lighting panels in our public school hallways, without any knowledge of how well installed or maintained the equipment. However, with this change, we will prohibit an adult from operating a single-pole circuit breaker in a compliant and maintained panelboard wearing polyester pants or nylon sneakers. The concern seems inappropriately skewed.

Unlikely events should be addressed through a task-based hazard analysis provided by the employer as they are elsewhere in the standard. We should not attempt to mandate to responsible employers and employees generic rules that should be selected based on the unique circumstance of an individual workplace. That could be done more effectively by prohibiting use of the table in lieu of a specific risk assessment for those tasks that are considered unlikely.

Bobby Gray
pg 2

Question 2: I agree that the subject is of an **EMERGENCY NATURE**.

_____ **AGREE** **X** **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

The substantiation does not provide evidence as to the emergency nature of this proposed TIA. If fact, it concedes the event it intends to address is unlikely. If the event is unlikely, the lack of urgency does not warrant change from the direction agreed to by the full debate of the technical committee and correlating committee.



Signature

Bobby J Gray
Name (Please Print)

March 28, 2014
Date

Please return the ballot on or before **April 8, 2014**

PLEASE RETURN TO:

Kimberly Shea
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7070

E-mail: kshea@nfpa.org

D. Mohla
pg 1

TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the **TECHNICAL MERITS** of the Proposed TIA

_____ **AGREE** **X** **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

The additional proposed notes are making an already bad situation worse by providing mixed messages. Notes do not address the problem created by the phrase in the table where NO is mentioned under the column "Arc Flash PPE required"- That phrase provides definite directions to the users that arc flash PPE is not required if all the stated conditions are met.

Note 1: Hazard identification is one component of risk assessment. Risk assessment involves a determination of the likelihood of occurrence of an incident, resulting from a hazard that could cause injury or damage to health. The assessment of the likelihood of occurrence contained in this table does not cover every possible condition or situation. Where this table indicates that arc flash PPE is not required, an arc flash is not likely to occur. However, this indication does not mean that an arc flash incident is not possible.

Since risk assessment involves a determination of likelihood of occurrence of an incident (as stated in the first part of the note). The language in the note further states arc flash is not likely to occur. It will convey to a user that no further protection is required. Adding the phrase "It does not mean that arc flash incident is not possible" will further confuse the users? How can both conditions be true? If an arc flash is not likely to occur what more is a user supposed to do if it is still possible?

The substantiation states "*The additional sentence at the end of Note 1 provides the user of this standard with a clarification that while the listed tasks that do not require arc flash PPE have an extremely low probability of resulting in an arc flash, a remote possibility of an incident does exist.*"

Why arc flash PPE is not required if an arc flash incident is possible? How is a user supposed to decide of the possibility of an arc flash incident probability between not likely to occur and is possible? How a user is supposed to differentiate between "extremely low probability" and "remote possibility" while evaluating risk?

Secondly, Note 2: states : Clothing shall meet the non-melting requirements of 130.7(C) 11 and 130.7(C) (12) when this table indicates arc flash PPE is not required.

Nonmelting does not mean non-flammable. This implies that in the event of a remote possibility non melting clothing will provide mitigation and protection.

See the Informational notes in the current 70E 130.7 (C) 11) below (underlining is by submitter of the ballot for emphasis and highlighting)

Informational Note No. 2: Non-arc-rated cotton, polyester cotton blends, nylon, nylon-cotton blends, silk, rayon, and wool fabrics are flammable. Fabrics, zipper tapes, and findings made of these materials can ignite and continue to burn on the body, resulting in serious burn injuries.

Informational Note No. 3: Rayon is a cellulose-based (wood pulp) synthetic fiber that is a flammable but nonmelting material.

It clearly establishes that non melting fabrics may not be non-flammable.

Being concerned about the melting of fabrics and not about ignition and flammability of fabrics does not make sense. The incident energy needed to melt is close to that required for ignition. Clothing ignition can result in a larger percentage of body burn than from melting alone.

D. Mohla
pg 2

How is a user supposed to decide whether clothing is non melting? If the wording is not on the label, then there no way for the user to assure the clothing is non melting.
Plus once "arc flash is not likely to occur, is clearly stated why should there be additional requirements?
This note will lead the users to believe that non melting clothing provides some arc flash protection. It does not.

Although well meaning, acceptance of TIA 1128 is in reality a step backward and will lead to more confusion in application of this standard. Adding the two notes recommended in TIA 1128 does not add any clarity to the text.

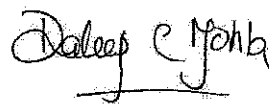
Question 2: I agree that the subject is of an EMERGENCY NATURE.

_____ **AGREE** X **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

The addition of notes will create a more dangerous situation and confusion in the user community due to contradictory messages in the table and Notes.



Signature

_____ Daleep Mohla _____
Name (Please Print)

_____ April 3, 2014 _____
Date

Please return the ballot on or before **April 8, 2014**

PLEASE RETURN TO:

Kimberly Shea
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7070

E-mail: kshea@nfpa.org

**TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128**

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the **TECHNICAL MERITS** of the Proposed TIA

_____ **AGREE** **X** **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

1) Adding the statement "It does not mean that an arc flash incident is not possible" is contradicting what the Table states that "Arc Flash PPE Required - NO". Is an arc flash possible or not. Adding this statement makes it confusing to the reader. 2) Adding a new Note 2 that states "Clothing shall meet the non-melting requirements of 130.7(C)11 and 130.7(C)12 when this table indicates arc flash PPE is not required" implies that non-melting clothing is okay to wear even if an arc flash were to occur. This, coupled with the new proposed statement in Note 1, will put people at risk of serious injury or death. Also, non-melting fabrics can still be flammable, so non-melting does not make it safer.

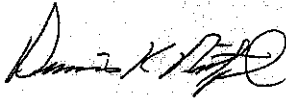
Question 2: I agree that the subject is of an **EMERGENCY NATURE**.

_____ **AGREE** **X** **DISAGREE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

This is not an emergency in that it would create a more dangerous situation for workers, as noted in my "disagree" statement above.



Signature

Dennis K. Neitzel
Name (Please Print)

April 3, 2014
Date

Please return the ballot on or before **April 8, 2014**

PLEASE RETURN TO:

Kimberly Shea
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7070

E-mail: kshea@nfpa.org

**TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128**

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the TECHNICAL MERITS of the Proposed TIA

_____ AGREE X DISAGREE* _____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

I do not agree that the proposed TIA corrects a possible misinterpretation of Table 130.7(C)(15)(A)(a) as stated by the authors. The requirement for non-melting fabrics is sufficiently communicated in the balance of the standard. If that requirement is not followed, when already being part of the existing text, adding a note will not change that. The issue is the fact that the table header at the top of the third column states "Arc Flash PPE Required" and is followed by "Yes" or "No". The table indicates in several cases that no arc flash PPE is required. This proposed TIA would then add note that says "It does not mean that an arc flash incident is not possible". There is a conflicting message here by saying in one place no PPE is required, which to the reader will mean no hazard exists, and then stating "It does not mean that an arc flash incident is not possible". I agree there is a problem with the table as currently written but this does not fix it. As stated in the body of the proposed TIA, the issue is likelihood or risk of an event. At lower risk situations, the employer may choose to allow the work to be done without PPE. This does not mean there is no risk, it means the risk is low enough that it is an acceptable risk to that employer. This standard cannot make that determination for all employee workplaces, all situations, all equipment, all employees, all conditions, etc. If we are talking about high and low risk, or likelihood, we need to say that. The table should state which activities involve high and low risk of an incident, and it then is up to the employer to decide if PPE is required for that task.

Question 2: I agree that the subject is of an EMERGENCY NATURE.

_____ AGREE X DISAGREE* _____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

I do not agree the subject of this TIA is of an emergency nature.

Signature

David Pace
Name (Please Print)

Date

4/8/14

*Change Received
4/14/14*

Shea, Kimberly

From: James Stallcup <grayboy02@aol.com>
Sent: Monday, April 14, 2014 1:28 PM
To: Shea, Kimberly
Subject: Re: NFPA 70E TIA 1128

Hi Kimberly,
James Jr and I agree with the comment made by Daleep Molha by his ballot.
Regards,
James, Sr .

Sent from my iPhone

On Apr 14, 2014, at 12:00 PM, "Shea, Kimberly" <kshea@NFPA.org> wrote:

James,

Please provide a reason (explanation) for voting disagree on both Questions 1 and 2.

Thank you,
Kim

From: James Stallcup [<mailto:grayboy02@aol.com>]
Sent: Monday, April 14, 2014 12:59 PM
To: Shea, Kimberly
Subject: Re: NFPA 70E TIA 1128

Hi Kimberly ,
James Jr and I after review of comments, we would like to change our vote and disagree with TIA 1128.
Thanks,
James Sr

Sent from my iPhone

On Apr 10, 2014, at 8:56 AM, "Shea, Kimberly" <kshea@NFPA.org> wrote:

NFPA Technical Committee on Employee Safety in the workplace:

Please find attached one Public Comment received on proposed TIA 1128. If you wish to change your vote based upon the members voting comments or Public Comment, you may do so by email. It is not necessary to re-submit your ballot form. If you do not wish to change your vote, no further action is required.

If further Public Comments are received prior to the Public Comment closing date of May 16, 2014, they will be forwarded to you for your consideration.

Kimberly Shea
Administrator, Technical Projects

**TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128**

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the TECHNICAL MERITS of the Proposed TIA

_____ AGREE

 X DISAGREE*

_____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

CONCUR WITH COMMENTS CIRCULATED BY MR. DINI
AND MR. NEITZEL.

Question 2: I agree that the subject is of an EMERGENCY NATURE.

_____ AGREE

 X DISAGREE*

_____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

AS ABOVE.

Signature


JOHN M. TOBIAS

Name (Please Print)

Date

4/16/14

Please return the ballot on or before ~~April 8, 2014~~

RECIRCULATION 4/16/14

PLEASE RETURN TO:

Kimberly Shea
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7070

E-mail: k Shea@nfpa.org

TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the TECHNICAL MERITS of the Proposed TIA.

AGREE **DISAGREE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

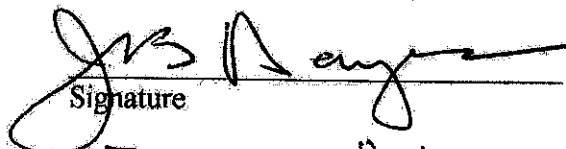
Question 2: I agree that the subject is of an EMERGENCY NATURE.

AGREE **DISAGREE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

Not Sure.



Signature

James Ayles
Name (Please Print)

4 / 2 / 14
Date

Please return the ballot on or before **April 8, 2014**

PLEASE RETURN TO:

Kimberly Shea

NFPA

1 Batterymarch Park

Quincy, MA 02169

FAX: (617) 984-7070

E-mail: kshea@nfpa.org

**TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128**

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the **TECHNICAL MERITS** of the Proposed TIA

_____ **AGREE** _____ **DISAGREE*** **X** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

OSHA policy requires abstaining on technical issues. I do support, however, the
Technical Committee's efforts to clarify the standard.

Question 2: I agree that the subject is of an **EMERGENCY NATURE**.

_____ **AGREE** _____ **DISAGREE*** **X** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

OSHA policy requires abstaining on technical issues.



Signature

David M. Wallis
Name (Please Print)

April 8, 2014
Date

Please return the ballot on or before **April 8, 2014**

PLEASE RETURN TO:

Kimberly Shea
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7070

E-mail: kshea@nfpa.org

**TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1128**

*Will be
Handled by SC
by editorial
Collection.*

Revise Table 130.7(C)(15)(A)(a) of the Proposed 2015 Edition of
NFPA 70E, *Standard for Electrical Safety in the Workplace*

Question 1: I agree with the **TECHNICAL MERITS** of the Proposed TIA

XX **AGREE** **DISAGREE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

Suggest editorial modification to Note 2 to add parenthesis around "11" and "12" as follows: Note 2: Clothing shall meet the nonmelting requirements of 130.7(C)(11) and 130.7(C)(12) when this table indicates arc flash PPE is not required.

Question 2: I agree that the subject is of an **EMERGENCY NATURE**.

XX **AGREE** **DISAGREE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.



Signature

Palmer Hickman

March 26, 2014

Date

Please return the ballot on or before **April 8, 2014**

PLEASE RETURN TO:

Kimberly Shea

NFPA

1 Batterymarch Park

Quincy, MA 02169

FAX: (617) 984-7070

E-mail: kshea@nfpa.org