

1 Batterymarch Park, Quincy, MA 02169-7471 USA
Phone: +1 (617) 770-3000 Fax: +1 (617) 770-0700 www.nfpa.org

MEMORANDUM

TO: NFPA Technical Committee on Sprinkler System Installation Criteria

FROM: Jeanne Moreau

DATE: July 13, 2010

SUBJ: NFPA 13 Proposed TIA No. 998 **FINAL TC BALLOT RESULTS**

According to 5.4 in the NFPA Regs, the final results show this TIA **HAS** achieved the $\frac{3}{4}$ majority vote needed on both Question 1 (**Technical Merit**) and Question 2 (**Emergency Nature**).

30 Eligible to Vote
1 Not Returned (T. Noble)

Technical Merit:

1 Abstentions (S. Tomlin)
22 Agree (L.Keeping, G. Lavrick, T. Miller)
6 Disagree (H. Bahadori, R. Caputo, L. Hilton, C. Ketner, M. Meehan, L. Underwood)

Emergency Nature:

1 Abstentions (S. Tomlin)
25 Agree
3 Disagree (E. Joyce II, J. Patel, L. Underwood)

There are two criteria necessary to pass ballot [(1) affirmative $\frac{3}{4}$ vote and (2) simple majority].

- (1) The number of affirmative votes needed for the report to be published is **21**.
(30 eligible to vote - 1 not returned - 1 abstentions = $28 \times 0.75 = 21$)
- (2) In all cases, an affirmative vote of at least a simple majority of the total membership eligible to vote is required. This is the calculation for simple majority:
[30 eligible \div 2 = 15 + 1 = **(16)**]

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.

Attachments: Ballots

TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 998

Adding 7.6.1 and renumber accordingly to the
2010 Edition of NFPA 13,
Standard for the Installation of Sprinkler Systems

Question 1: With respect to the **TECHNICAL MERITS** of the Proposed TIA, please record me as voting:

_____ **AFFIRMATIVE** **NEGATIVE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

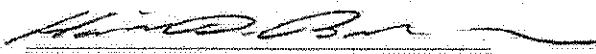
Further research and study is needed. I am also not sure why this is only
addressing the inside of dwelling units . I have the same concern for sprinklers
outside of the dwelling unit.

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

_____ **AGREEMENT** _____ **DISAGREEMENT*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.



Signature

Hamid Bahadori

Name (Please Print)

7-4-10

Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

PLEASE RETURN TO:

Jeanne Moreau

NFPA

1 Batterymarch Park

Quincy, MA 02169

FAX: (617) 984-7110

E-mail: jmoreaucorreia@nfpa.org

TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 998
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Question 1: With respect to the TECHNICAL MERITS of the Proposed TIA, please record me as voting:

_____ AFFIRMATIVE NEGATIVE* _____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

I AM VOTING NEGATIVE BECAUSE I FAVOR A MORATORIUM ON THE
USE OF ALL ANTIFREEZE SOLUTIONS PENDING FURTHER STUDY.
NFPA 13 REQUIREMENTS SHOULD BE CONGRUENT WITH 13D & 13R ON
THE USE OF AF SOLUTIONS.

Question 2: With respect to the judgment that the subject is of an EMERGENCY NATURE, please record me as voting:

AGREEMENT _____ DISAGREEMENT* _____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

I AGREE THIS MATTER REQUIRES IMMEDIATE ATTENTION AND
ACTION BY THE T.C. (I DON'T AGREE THIS THIS PROPOSAL IS THAT
ACTION)

Signature

ROBERT G. CAPUTO.

Name (Please Print)

JULY 1, 2010

Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

PLEASE RETURN TO:

Jeanne Moreau
NFPA
1 Batterymarch Park
Quincy, MA 02169

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E-mail: jmoreaucorreia@nfpa.org

117.

TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 998
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Question 1: With respect to the **TECHNICAL MERITS** of the Proposed TIA, please record me as voting:

 X **AFFIRMATIVE** **NEGATIVE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

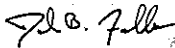
Until further testing can be conducted, a moratorium on the use of
combustible antifreeze solutions would be preferable, however
limiting to 50% or less is better than what is currently in the
standard.

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

 X **AGREEMENT** **DISAGREEMENT*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.


Digitally signed by fuller
DN: dc=com, dc=fmglobal, dc=corp,
ou=CorpUsers, ou=Office,
ou=Americas, ou=Rsch, cn=fuller,
email=David.Fuller@fmglobal.com
Date: 2010.07.06 15:36:02 -0400

Signature
David B. Fuller

Name (Please Print)
July 6, 2010

Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

PLEASE RETURN TO:

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NFPA
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PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 998
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Question 1: With respect to the **TECHNICAL MERITS** of the Proposed TIA, please record me as voting:

_____ AFFIRMATIVE K NEGATIVE* _____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.


THE ACCEPTABILITY OF 50% SOLUTIONS SHOULD BE
VERIFIED BY AOP'2 TESTING WITH VARIOUS FUEL
PACKAGES

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

 X AGREEMENT _____ DISAGREEMENT* _____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.


 Signature
LUKE HILL
 Name (Please Print)
JULY 12 / 2010
 Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

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 NFPA
 1 Batterymarch Park
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EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

 AGREEMENT X **DISAGREEMENT*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

Since we are going back into cycle in October I
can not see the need at the moment for action
if an immediate problem does not exist.

Elwin G. Joyce
Signature

Elwin G. Joyce
Name (Please Print)

28 June, 2010
Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

PLEASE RETURN TO:

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NFPA
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Question 1: With respect to the **TECHNICAL MERITS** of the Proposed TIA, please record me as voting:

AFFIRMATIVE **NEGATIVE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

SEE ATTACHED SHEET

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

AGREEMENT **DISAGREEMENT*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

SEE ATTACHED SHEET

L. Keeping
Signature
LARRY KEEPING
Name (Please Print)
6 JULY 2010
Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

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NFPA
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NFPA 13
Ballot for TC on Sprinkler System Installation Criteria
Proposed Tentative Interim Amendment Log No. 998

Regarding this issue, I vote Affirmative for TIA 998.

Comment on Affirmative Vote:

Based on my reading of the information package that came as part of the Ballot materials, it appears that 50% / 50% antifreeze solutions perform almost as well as water does, so I believe that this mixture will give us a viable mechanism to sprinkler dwelling units in freezing environments without undue risk.

However, just as air bags aren't the ideal solution for all possible automobile collision scenarios, the 50 % / 50% arrangement isn't all we could wish for, and I see this TIA as only a temporary measure to buy us some time, to allow us to delve further into the question, while still being able to protect lives and property to a reasonable degree.

I do not support the corresponding proposal to ban A/F from dwelling units, because there are scenarios where water based wet systems aren't practical due to the freezing concerns and dry systems aren't practical due to the 15 second water delivery time criteria, so the only available option would be to use an A/F type system.

Regarding this issue, I Agree that this issue is of an Emergency Nature.

Comment on Agreement:

The reported fire incidents and the recent UL testing certainly points to a dire potential hazard with A/F systems with higher concentrations, and we cannot in good conscience maintain the status quo.



Larry Keeping, P.Eng

Vipond Fire Protection

TECHNICAL COMMITTEE LETTER BALLOT
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Adding 7.6.1 and renumber accordingly to the
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Question 1: With respect to the **TECHNICAL MERITS** of the Proposed TIA, please record me as voting:

_____ **AFFIRMATIVE** **NEGATIVE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

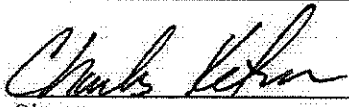
SEE TIA 1000

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

AGREEMENT _____ **DISAGREEMENT*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.



Signature

CHARLES KETNER

Name (Please Print)

7-2-10

Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

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_____ **AFFIRMATIVE** **NEGATIVE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

The two alleged Flash Fire incidents and the recent UL test results have created an atmosphere where any use of glycerin or P.G. will be challenged on both engineering and ethical levels.

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

AGREEMENT _____ **DISAGREEMENT*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

M. F. Meehan
Signature

Michael F. Meehan
Name (Please Print)

July 6, 2010
Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

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 See attached page

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

 X **AGREEMENT** **DISAGREEMENT*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

 Thomas H. Miller

Signature
 Thomas H. Miller, PE

Name (Please Print)

Date
 July 9, 2010

Please return the ballot on or before **Tuesday, July 6, 2010.**

PLEASE RETURN TO:

Jeanne Moreau

NFPA

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Quincy, MA 02169

FAX: (617) 984-7110

E-mail: jmoreaucorreia@nfpa.org

July 9, 2010

NFPA Standard No. 13
Proposed Tentative Interim Amendment Log No. 998

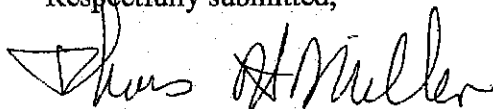
Comments on Affirmative Vote:

In addition to the proposed text in the body of the standard, the following Appendix Note should be added:

In recent fire testing and two fire reports involving some fuels, there have been conditions where antifreeze solutions containing less than 50% water have resulted in the development of unacceptable heat release rates prior to the arrival of water discharge. The conditions leading to such fires involved small discharge coefficient sprinklers, such as those used in residential occupancies, and discharge pressures which favored the development of small droplets. If possible, antifreeze solutions in systems using residential sprinklers should be avoided at this time.

The material provided the Committee does not contain sufficient engineering and scientific data to support additional action. In addition, the comments of Larry Keeping, P.Eng. are important in deciding the appropriate action for this TIA. The NFPA Research Foundation Report contains some fundamental errors and confusion that need to be addressed.

Respectfully submitted,



Thomas H. Miller, PE

TECHNICAL COMMITTEE LETTER BALLOT
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AFFIRMATIVE **NEGATIVE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

AGREEMENT **DISAGREEMENT*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

1. More testing should be conducted considering parameters such as room ventilation, ceiling height, industrial and business occupancies, etc.
2. Only two firetrucks do not make this situation of an 'Emergency Nature'.

J. Patel
 Signature
JANAK B. PATEL
 Name (Please Print)
6/29/2010
 Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

PLEASE RETURN TO:

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 NFPA
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 Quincy, MA 02169

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_____ **AFFIRMATIVE** _____ **NEGATIVE*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

Supporting documentation states 2 example cases.
First case is improper design. Second case is with 50% concentration.
This does not provide adequate documentation.

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

_____ **AGREEMENT** _____ **DISAGREEMENT*** **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

This issue should be dealt with through the regular
TIA process.



Signature

Steven Taulin

Name (Please Print)

July 6, 2010

Date

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PLEASE RETURN TO:

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NFPA

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_____ **AFFIRMATIVE** X **NEGATIVE*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a negative or abstaining position.

REVISION IS TOO RESTRICTIVE. ALL TESTING WAS DONE USING
RESIDENTIAL SPRINKLERS.

Question 2: With respect to the judgment that the subject is of an **EMERGENCY NATURE**, please record me as voting:

_____ **AGREEMENT** X **DISAGREEMENT*** _____ **ABSTAIN***

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation must accompany a disagreement or abstaining position.

TOO KNEE-JERK REACTION. MORE TESTING NEEDS TO BE
DONE

Lynn K. Underwood
 Signature
LYNN K. UNDERWOOD
 Name, (Please Print)
7/2/10
 Date

Please return the ballot on or before **Tuesday, July 6, 2010.**

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 NFPA
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