### 18-8-1
Act on the issuance of NFPA 13, *Standard for the Installation of Sprinkler Systems*, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, as acted on at the NFPA Technical Meeting, with six amendments and one appeal.

#### 18-8-1-a
Amendment No. 13-1 (CAM 13-1): Accept Public Comment No. 54. CAM 13-1 passed on the floor of the NFPA Technical Meeting. **PASSED** TC Ballot – 33 voting members/17 agree/8 disagree/0 abstained/8 ballots not returned and **PASSED** CC Ballot – 20 voting members/10 agree/1 disagree/0 abstained/9 ballots not returned. See Attachment 18-8-1-a [SA18-8-1-a](#).

#### 18-8-1-b
Amendment No. 13-2 (CAM 13-2): Accept Public Comment No. 53. CAM 13-2 passed on the floor of the NFPA Technical Meeting. **PASSED** TC Ballot – 33 voting members/18 agree/7 disagree/0 abstained/8 ballots not returned and **PASSED** CC Ballot – 20 voting members/10 agree/1 disagree/0 abstained/9 ballots not returned. Final CC Ballot due July 25, 2018. See Attachment 18-8-1-b [SA18-8-1-b](#).

#### 18-8-1-c
Amendment No. 13-3 (CAM 13-3): Accept Public Comment No. 55. CAM 13-3 passed on the floor of the NFPA Technical Meeting. **PASSED** TC Ballot – 33 voting members/17 agree/8 disagree/0 abstained/8 ballots not returned and **PASSED** CC Ballot – 20 voting members/10 agree/1 disagree/0 abstained/9 ballots not returned. See Attachment 18-8-1-c [SA18-8-1-c](#).

#### 18-8-1-d
Amendment No. 13-4 (CAM 13-5): Reject Second Revision No. 386 and any related portions of First Revision No. 751. CAM 13-5 passed on the floor of the NFPA Technical Meeting. Pursuant to Section 4.6 and Table 1 of the *Regulations Governing the Development of NFPA Standards (Regs.)*, balloting is not required for this CAM. See Attachment 18-8-1-d [SA18-8-1-d](#).

#### 18-8-1-e
Amendment No. 13-5 (CAM 13-6): Reject Second Correlating Revision No. 9. CAM 13-6 passed on the floor of the NFPA Technical Meeting. **FAILED** TC Ballot – 33 voting members/14 agree/12 disagree/0 abstained/7 ballots not returned and **PASSED** CC Ballot – 20 voting members/11 agree/0 disagree/0 abstained/9 ballots not returned. See Attachment 18-8-1-e [SA18-8-1-e](#).

#### 18-8-1-e-1
**APPEAL**
Appeal of L. Taylor, Schindler Elevator Corporation, requesting the NFPA Standards Council overturn the Technical Committee action and Reject Second Correlating Revision No. 9 (CAM 13-6). This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-1-e-1 [SA18-8-1-e-1](#).

#### 18-8-1-e-2
**APPEAL**
Appeal of B. Schultheis, Hesperia, CA, requesting the NFPA Standards Council overturn the Technical Committee action and Reject Second Correlating Revision No. 9 (CAM 13-6). This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-1-e-2 [SA18-8-1-e-2](#).

#### 18-8-1-e-3
**APPEAL**
Appeal of T. Parrish, Telgian Holdings, Inc., requesting the NFPA Standards Council overturn the Technical Committee action and Reject Second Correlating Revision No. 9 (CAM 13-6). This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-1-e-3 [SA18-8-1-e-3](#).
| 18-8-1-e-4 | APPEAL | Appeal of S. Lewis, RFI Enterprises, requesting the NFPA Standards Council overturn the Technical Committee action and Reject Second Correlating Revision No. 9 (CAM 13-6). This Motion passed on the floor of the NFPA Technical Meeting. SA18-8-1-e-4 ADDITION |
| 18-8-1-e-5 | APPEAL | Appeal of D. McColl, Worldwide Codes Development, requesting the NFPA Standards Council overturn the Technical Committee action and Reject Second Correlating Revision No. 9 (CAM 13-6). This Motion passed on the floor of the NFPA Technical Meeting. SA18-8-1-e-5 ADDITION |
| 18-8-1-e-6 | APPEAL | Appeal of J. Darmanian, San Francisco, CA, requesting the NFPA Standards Council overturn the Technical Committee action and Reject Second Correlating Revision No. 9 (CAM 13-6). This Motion passed on the floor of the NFPA Technical Meeting. SA18-8-1-e-6 ADDITION |
| 18-8-1-e-7 | APPEAL | Appeal of S. Weiss-Ishai, San Francisco Fire Department, requesting the NFPA Standards Council overturn the Technical Committee action and Reject Second Correlating Revision No. 9 (CAM 13-6). This Motion passed on the floor of the NFPA Technical Meeting. SA18-8-1-e-7 ADDITION |
| 18-8-1-e-1 thru 7 | APPEAL | Comments received by K. Linder, Correlating Committee Chair, Automatic Sprinkler Systems, and R. Grill, Technical Committee Chair, Sprinkler System Installation Criteria, on CAM 13-6 appeals. SA 18-8-1-e-1 thru 7 ADDITION |
| 18-8-1-f | ADAIMENT | Amendment No. 13-6 (CAM 13-8): Reject Second Revision No. 429 and any related portions of First Revision No. 658. CAM 13-8 passed on the floor of the NFPA Technical Meeting. Pursuant to Section 4.6 and Table 1 of the Regulations Governing the Development of NFPA Standards (Regs.), balloting is not required for this CAM. See Attachment 18-8-1-f |
| 18-8-2 | ACT | Act on the issuance of NFPA 13D, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, as acted on at the NFPA Technical Meeting, with one amendment and no appeals. |
| 18-8-2-a | APPEAL | Amendment No. 13D-1 (CAM 13D-1): Reject Second Revision No. 7. CAM 13D-1 passed on the floor of the NFPA Technical Meeting. Pursuant to Section 4.6 and Table 1 of the Regulations Governing the Development of NFPA Standards (Regs.), balloting is not required for this CAM. See Attachment 18-8-2-a |
| 18-8-3 | ACT | Act on the issuance of NFPA 72, National Fire Alarm and Signaling Code, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with five amendments no appeals. |
| 18-8-3-a | APPEAL | Amendment No. 72-1 (CAM 72-1): Accept Public Comment Nos. 386 and 387. CAM 72-1 passed on the floor of the NFPA Technical Meeting. FAILED TC Ballot – 23 voting members/6 agree/16 disagree/0 abstained/1 ballot not returned and PASSED CC Ballot – 19 voting members/16 agree/0 disagree/0 abstained/3 ballots not returned). See Attachment 18-8-3-a |
| 18-8-3-a-1 | APPEAL | Appeal of J. Kapis, Coffman Engineers, Inc., requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment Nos. 386 and 387 (CAM 72-1). This Motion passed on the floor of the NFPA Technical Meeting. SA18-8-3-a-1 ADDITION |
| 18-8-3-a-2 | APPEAL | Appeal of S. Weiss-Ishai, San Francisco Fire Department, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment Nos. 386 and 387 (CAM 72-1). This Motion passed on the floor of the NFPA Technical Meeting. SA18-8-3-a-2 ADDITION |

CPWR Research and Training Report: *Deaths and Injuries Involving Elevators and Escalators*, is available for review at the following link: [https://www.cpwr.com/sites/default/files/publications/elevator_escalator_BLSapproved_2.pdf](https://www.cpwr.com/sites/default/files/publications/elevator_escalator_BLSapproved_2.pdf)
<table>
<thead>
<tr>
<th>Amendment No. 72-2 (CAM 72-2): Accept Public Comment No. 388. CAM 72-2 passed on the floor of the NFPA Technical Meeting. <strong>FAILED</strong> TC Ballot – 23 voting members/7 agree/14 disagree/0 abstained/2 ballots not returned and <strong>PASSED</strong> CC Ballot – 19 voting members/15 agree/0 disagree/0 abstained/4 ballots not returned. See Attachment 18-8-3-b</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appeal of J. Kapis, Coffman Engineers, Inc., requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 388 (CAM 72-2). This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-b-1 (See SA18-8-3-a-1)</td>
</tr>
<tr>
<td>ADDITION</td>
</tr>
<tr>
<td>Appeal of S. Weiss-Ishai, San Francisco Fire Department, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 388 (CAM 72-2). This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-b-2 (See SA18-8-3-a-2)</td>
</tr>
<tr>
<td>ADDITION</td>
</tr>
<tr>
<td>Appeal of J. Darmanin, San Francisco, CA, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 388 (CAM 72-2). This Motion passed on the floor of the NFPA Technical Meeting. <strong>SA18-8-3-b-3</strong> ADDITION</td>
</tr>
</tbody>
</table>

Amendment No. 72-3 (CAM 72-4): Accept Public Comment Nos. 155 and 156. CAM 72-4 passed on the floor of the NFPA Technical Meeting. **FAILED** TC Ballot – 23 voting members/8 agree/13 disagree/0 abstained/2 ballots not returned and **PASSED** CC Ballot – 19 voting members/15 agree/0 disagree/0 abstained/4 ballots not returned). See Attachment 18-8-3-c |

| Appeal of J. Kapis, Coffman Engineers, Inc., requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment Nos. 155 and 156. This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-c-1 (See SA18-8-3-a-1) |
| ADDITION |
| Appeal of Sagiv Weiss-Ishai, San Francisco Fire Department, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment Nos. 155 and 156. This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-c-2 (See SA18-8-3-a-2) |
| ADDITION |

Comments received from TC Chair regarding CAMs 72-1, 72-2 and 72-4 Appeals **SA18-8-3-a-1/b-1/c-1** ADDITION

Amendment No. 72-4 (CAM 72-5): Accept Public Comment No. 458. CAM 72-5 passed on the floor of the NFPA Technical Meeting. **FAILED** TC Ballot – 27 voting members/13 agree/10 disagree/0 abstained/4 ballots not returned and **PASSED** CC Ballot – 19 voting members/15 agree/0 disagree/0 abstained/4 ballot not returned). See Attachment 18-8-3-d |

<p>| Appeal of J. Kapis, Coffman Engineers, Inc., requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 458. This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-d-1 (See SA18-8-3-a-1) |
| ADDITION |
| Appeal of J. Darmanin, San Francisco, CA, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 458. This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-d-2 (See SA18-8-3-b-3) |
| ADDITION |
| Appeal of S. Weiss-Ishai, San Francisco Fire Department, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 458. This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-d-3 (See SA18-8-3-a-2) |
| ADDITION |</p>
<table>
<thead>
<tr>
<th>18-8-3-d-4</th>
<th>APPEAL</th>
<th>Appeal of S. Lewis, RFI Enterprises, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 458. This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-3-d-4. (See SA18-8-1-e-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-8-3-e</td>
<td>ADDITION</td>
<td>Amendment No. 72-5 (CAM 72-6): Accept Public Comment No. 6. CAM 72-6 passed on the floor of the NFPA Technical Meeting. FAILED TC Ballot – 23 voting members/9 agree/11 disagree/1 abstained/2 ballots not returned and PASSED CC Ballot – 19 voting members/14 agree/1 disagree/0 abstained/4 ballot not returned. See Attachment 18-8-3-e.</td>
</tr>
<tr>
<td>18-8-3-e-1</td>
<td>APPEAL</td>
<td>Appeal of R. Simpson, Vector Security, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 6. This Motion passed on the floor of the NFPA Technical Meeting.</td>
</tr>
<tr>
<td>18-8-3-e-1-a</td>
<td>ADDITION</td>
<td>Comments received by W. Olsen, Technical Committee Chair, Supervising Station Fire Alarm and Signaling Systems, on CAM 72-6 appeal.</td>
</tr>
<tr>
<td>18-8-4</td>
<td>ADDITION</td>
<td>Act on the issuance of NFPA 101A, Guide on Alternative Approaches to Life Safety, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with no amendments and no appeals. No Attachment</td>
</tr>
<tr>
<td>18-8-5</td>
<td>ADDITION</td>
<td>Act on the issuance of NFPA 110, Standard for Emergency and Standby Power Systems, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with two amendments and two appeals.</td>
</tr>
<tr>
<td>18-8-5-a</td>
<td>ADDITION</td>
<td>Amendment No. 110-1 (CAM 110-1): Accept Public Comment No. 3. CAM 110-1 passed on the floor of the NFPA Technical Meeting. FAILED TC Ballot – 29 voting members/4 agree/22 disagree/0 abstained/3 ballots not returned and PASSING CC Ballot – 12 voting members/10 agree/2 disagree/0 abstained/0 not returned. See Attachment 18-8-5-a.</td>
</tr>
<tr>
<td>18-8-5-a-1</td>
<td>APPEAL</td>
<td>Appeal of W. Vernon, Mazzetti, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 3 (CAMs 110-1). See Attachment 18-8-5-a-1.</td>
</tr>
<tr>
<td>18-8-5-b</td>
<td>ADDITION</td>
<td>Amendment No. 110-2 (CAM 110-2): Accept Public Comment No. 4. CAM 110-2 passed on the floor of the NFPA Technical Meeting. FAILED TC Ballot – 29 voting members/4 agree/22 disagree/0 abstained/3 ballots not returned and PASSING CC Ballot – 12 voting members/9 agree/3 disagree/0 abstained/0 not returned. See Attachment 18-8-5-b.</td>
</tr>
<tr>
<td>18-8-5-b-1</td>
<td>APPEAL</td>
<td>Appeal of W. Vernon, Mazzetti, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 4 (CAMs 110-2). See Attachment 18-8-5-b-1.</td>
</tr>
<tr>
<td>18-8-5-a-1-a/b-1-a</td>
<td>ADDITION</td>
<td>Comments received by, M. Johnston, Correlating Committee Chair, National Electrical Code, and D. Chisholm, Technical Committee Chair, Emergency Power Supplies, on CAM 110-1 and 110-2 Appeals.</td>
</tr>
<tr>
<td>18-8-6</td>
<td>ADDITION</td>
<td>Act on the issuance of NFPA 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with no amendments and no appeals. No Attachment</td>
</tr>
<tr>
<td>18-8-7</td>
<td>ADDITION</td>
<td>Act on the issuance of NFPA 289, Standard Method of Fire Test for Individual Fuel Packages, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with one amendment and no appeals.</td>
</tr>
<tr>
<td>18-8-7-a</td>
<td>ADDITION</td>
<td>Amendment No. 289-1 (CAM 289-2): Reject an Identifiable Part of Second Revision No. 2 and any related portions of First Revision No. 19. CAM 289-2 passed on the floor of the NFPA Technical Meeting. Pursuant to Section 4.6 and Table 1 of the Regulations Governing the...</td>
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</table>

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<table>
<thead>
<tr>
<th><strong>Development of NFPA Standards (Regs.),</strong> balloting is not required for this CAM. See Attachment 18-8-7-a</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Act on the issuance of NFPA 400, Hazardous Materials Code,</strong> with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with no amendment and no appeals. No Attachment</td>
</tr>
<tr>
<td><strong>Act on the withdrawal of NFPA 720, Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment.</strong> NFPA 720 requirements have been incorporated into NFPA 72, National Fire Alarm and Signaling Code. See Attachment 18-8-9 (See related SC 18-8-52-b)</td>
</tr>
<tr>
<td><strong>Act on the issuance of NFPA 1001, Standard for Fire Fighter Professional Qualifications,</strong> with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with two amendments with two appeals.</td>
</tr>
<tr>
<td><strong>Amendment No. 1001-1 (CAM 1001-1):</strong> Accept Public Comment No. 66. CAM 1001-1 passed on the floor of the NFPA Technical Meeting. <strong>FAILED</strong> TC Ballot – 30 voting members/16 agree/10 disagree/0 abstained/4 ballots not returned and <strong>PASSED</strong> CC Ballot – 20 voting members/15 agree/2 disagree/0 abstained/3 not returned). CC ballot circulation July 25, 2018. See Attachment 18-8-10-a <strong>SA18-8-10-a</strong></td>
</tr>
<tr>
<td><strong>APPEAL</strong> Appeal of N. Trench, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 66 (CAM 1001-1). This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-10-a-1</td>
</tr>
<tr>
<td><strong>Comments received by W. Peterson, CC Chair, Professional Qualifications and J. Cunningham, TC Chair, Fire Fighter Professional Qualifications, on CAM 1001-1 appeal.</strong> <strong>SA18-8-10-a-1-a and b-1-a ADDITION</strong></td>
</tr>
<tr>
<td><strong>Seven Comments received on CAM 1001-1 Appeal</strong> <strong>SA18-8-10-a-1-b and b-1-b ADDITION</strong></td>
</tr>
<tr>
<td><strong>Amendment No. 1001-2 (CAM 1001-3):</strong> Accept Public Comment No. 17. CAM 1001-3 passed on the floor of the NFPA Technical Meeting. <strong>FAILED</strong> TC Ballot – 30 voting members/15 agree/11 disagree/0 abstained/4 ballots not returned and <strong>PASSED</strong> CC Ballot – 20 voting members/15 agree/2 disagree/0 abstained/3 not returned). CC ballot circulation July 25, 2018. See Attachment 18-8-10-b <strong>SA18-8-10-b</strong></td>
</tr>
<tr>
<td><strong>APPEAL</strong> Appeal of J. Crawford, 20/20, requesting the NFPA Standards Council overturn the Technical Committee action and Accept Public Comment No. 17 (CAM 1001-3). This Motion passed on the floor of the NFPA Technical Meeting. See Attachment 18-8-10-b-1</td>
</tr>
<tr>
<td><strong>Comments received by W. Peterson, CC Chair, Professional Qualifications and J. Cunningham, Technical Committee Chair, Fire Fighter Professional Qualifications, on CAM 1001-3 appeal.</strong> See <strong>SA18-8-10-a-1-a and b-1-a ADDITION</strong></td>
</tr>
<tr>
<td><strong>Eight Comments received on CAM 1001-3 Appeal</strong> <strong>SA18-8-10-a-1-b and b-1-b ADDITION</strong></td>
</tr>
<tr>
<td><strong>Amendment No. 1730-1 (CAM 1730-2):</strong> Accept Public Comment No. 1. CAM 1730-2 passed on the floor of the NFPA Technical Meeting. <strong>FAILED</strong> TC Ballot – 30 voting members/12 agree/10 disagree/0 abstained/8 ballots not returned. See Attachment 18-8-11-a</td>
</tr>
</tbody>
</table>
18-8-12  Act on the issuance of NFPA 1981, *Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services*, with an issuance date of August 14, 2018 and an effective date of September 3, 2018, with no amendment and no appeals. No Attachment

18-8-13  Act on the issuance of proposed Tentative Interim Amendment (TIA) to add a new section 42.12 to the 2018 edition of NFPA 1, *Fire Code* (TIA No. 1362)

18-8-13-a  Text of proposed TIA No. 1362. See Attachment 18-8-13-a

18-8-13-b  Ballot results of TIA No. 1362. **PASSED** TC Ballot on both technical merit and emergency nature – 29 voting members/24 agree on technical merit/1 disagree/1 abstained/22 agree on emergency nature/3 disagree/1 abstained/3 ballots not returned. See Attachment 18-8-13-b

18-8-13-c  One comment was received. See Attachment 18-8-13-c

18-8-14  Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 edition of NFPA 10, *Standard for Portable Fire Extinguishers* (TIA No. 1378).

18-8-14-a  Text of proposed TIA No. 1378. See Attachment 18-8-14-a

18-8-14-b  Ballot results of TIA No. 1378. **FAILED** TC Ballot on both technical merit and emergency nature – 28 voting members/3 agree on technical merit/21 disagree/0 abstained/3 agree on emergency nature/21 disagree/0 abstained/4 ballots not returned. See Attachment 18-8-14-b

18-8-14-c  Three comments were received.

18-8-14-d  Appeal of J. McSheffrey, en-Gauge, Inc. requesting the NFPA Standards Council overturn the Technical Committees action and issue TIA 1378. **SA18-8-14-d** ADDITION

18-8-14-d-1  One comment received on TIA 1378, NFPA 10. **SA18-8-14-d-1** ADDITION

18-8-15  Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 17.3.1.17 and delete Table 17.3.1.17 of the 2016 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems* (TIA No. 1367).

18-8-15-a  Text of proposed TIA No. 1367. See Attachment 18-8-15-a

18-8-15-b  Ballot results of TIA No. 1367. **FAILED** TC Ballot: Passed on technical merit but Failed emergency nature – 34 voting members/30 agree on technical merit/2 disagree/1 abstained/23 agree on emergency nature/10 disagree/0 abstained/1 ballot not returned. **FAILED** CC Ballot: Passed on correlation but Failed emergency nature – 20 voting members/13 agree on correlation/2 disagree/0 abstained/7 agree on emergency nature/8 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-15-b

18-8-15-c  No comments were received.

18-8-16  Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise various sections of Chapter 25 of the proposed 2019 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems* (TIA No. 1384).

18-8-16-a  Text of proposed TIA No. 1384. See Attachment 18-8-16-a

18-8-16-b  Final ballot results of TIA No. 1384. **PASSED** TC Ballot on both technical merit and emergency nature – 34 voting members/29 agree on technical merit/0 disagree/0 abstained/29 agree on emergency nature/0 disagree/0 abstained/5 ballots not returned. **PASSED** CC Ballot on both correlation and emergency nature – 20 voting members/14 agree on correlation/0 disagree/0 abstained/14 agree on emergency nature/0 disagree/0 abstained/6 ballots not returned. See Attachment 18-8-16-b **SA18-8-16-b**

18-8-16-c  No comments were received.
<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Text of Proposed TIA</th>
<th>Ballot Results of TIA</th>
<th>Final Ballot Results of TIA</th>
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<tbody>
<tr>
<td>18-8-17</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 7.10.1 and 7.8.1 of the 2016 and proposed 2019 editions respectively of NFPA 13, <em>Standard for the Installation of Sprinkler Systems</em> (TIA No. 1385)</td>
<td>See Attachment 18-8-17-a</td>
<td>FAILED TC</td>
<td>See Attachment 18-8-17-b</td>
</tr>
<tr>
<td>18-8-17</td>
<td>Text of proposed TIA No. 1385. See Attachment 18-8-17-a</td>
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<tr>
<td>18-8-17</td>
<td>Ballot results of TIA No. 1385. FAILED TC Ballot on both technical merit and emergency nature – 33 voting members/10 agree on technical merit/16 disagree/0 abstained/10 agree on emergency nature/16 disagree/0 abstained/7 ballots not returned. FAILED CC Ballot on both correlation and emergency nature – 20 voting members/8 agree on correlation/7 disagree/0 abstained/0 agree on emergency nature/15 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-17-b</td>
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<tr>
<td>18-8-17</td>
<td>Two comments were received. See Attachment 18-8-17-c</td>
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<tr>
<td>18-8-18</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 15.2.1, 16.1.2.1, 16.4.4, 16.5.1 and 16.5.10 of the 2018 edition of NFPA 22, <em>Standard for Water Tanks for Private Fire Protection</em> (TIA No. 1358)</td>
<td>See Attachment 18-8-18-a</td>
<td>PASSED TC</td>
<td>See Attachment 18-8-18-b</td>
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<tr>
<td>18-8-18</td>
<td>Text of proposed TIA No. 1358. See Attachment 18-8-18-a</td>
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<tr>
<td>18-8-18</td>
<td>Ballot results of TIA No. 1358. PASSED TC Ballot on both technical merit and emergency nature – 29 voting members/24 agree on technical merit/0 disagree/0 abstained/24 agree on emergency nature/0 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-18-b</td>
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<tr>
<td>18-8-18</td>
<td>One comment was received. See Attachment 18-8-18-c</td>
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<tr>
<td>18-8-19</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise various sections of the 2011 and 2014 editions of NFPA 25, <em>Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems</em> (TIA No. 1364)</td>
<td>See Attachment 18-8-19-a</td>
<td>PASSED TC</td>
<td>See Attachment 18-8-19-b</td>
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<tr>
<td>18-8-19</td>
<td>Text of proposed TIA No. 1364. See Attachment 18-8-19-a</td>
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<td>18-8-19</td>
<td>Ballot results of TIA No. 1364. PASSED TC Ballot on both technical merit and emergency nature –34 voting members/26 agree on technical merit/3 disagree/0 abstained/25 agree on emergency nature/4 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-19-b</td>
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<tr>
<td>18-8-19</td>
<td>No comments were received.</td>
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<td>18-8-20</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise Chapter 6 and Chapter 7 the proposed 2019 edition of NFPA 30B, <em>Code for the Manufacture and Storage of Aerosol Products</em> (TIA No. 1359)</td>
<td>See Attachment 18-8-20-a</td>
<td>PASSED TC</td>
<td>See Attachment 18-8-20-b</td>
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<tr>
<td>18-8-20</td>
<td>Text of proposed TIA No. 1359. See Attachment 18-8-20-a</td>
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<td>18-8-20</td>
<td>Ballot results of TIA No. 1359. PASSED TC Ballot on both technical merit and emergency nature – 28 voting members/24 agree on technical merit/2 disagree/0 abstained/2 ballots not returned/24 agree on emergency nature/1 disagree/1 abstained/2 ballots not returned. See Attachment 18-8-20-b</td>
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<td>18-8-20</td>
<td>Six comments was received. See Attachment 18-8-20-c</td>
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<td>18-8-21</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to delete section 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 edition of NFPA 68, <em>Standard on Explosion Protection by Deflagration Venting</em> (TIA No. 1370)</td>
<td>See Attachment 18-8-21-a</td>
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<td>See Attachment 18-8-21-b</td>
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<tr>
<td>18-8-21</td>
<td>Text of proposed TIA No. 1370. See Attachment 18-8-21-a</td>
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<tr>
<td>18-8-21</td>
<td>Final ballot results of TIA No. 1370. PASSED TC Ballot on both technical merit and emergency nature – 29 voting members/18 agree on technical merit/1 disagree/0 abstained/17 agree on emergency nature/2 disagree/0 abstained/10 ballots not returned. See Attachment 18-8-21-b</td>
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<td>18-8-21</td>
<td>Six comments was received. See Attachment 18-8-21-c</td>
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<td>18-8-22</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 695.14(F) of the 2017 edition of NFPA 70, <em>National Electrical Code</em> (TIA No. 1357)</td>
<td>See Attachment 18-8-22-a</td>
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<td>18-8-22-a</td>
<td>Text of proposed TIA No. 1357. See Attachment 18-8-22-a</td>
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<tr>
<td>18-8-22-b</td>
<td>Ballot results of TIA No. 1357. <strong>PASSED</strong> Panel Ballot on both technical merit and emergency nature – 22 voting members/18 agree on technical merit/1 disagree/0 abstained/19 agree on emergency nature/0 disagree/0 abstained/3 ballots not returned. <strong>PASSED</strong> CC Ballot on both correlation and emergency nature – 12 voting members/11 agree on correlation/0 disagree/0 abstained/11 agree on emergency nature/0 disagree/0 abstained/1 ballot not returned. See Attachment 18-8-22-b</td>
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<td>18-8-22-c</td>
<td>Two comments were received. See Attachment 18-8-22-c</td>
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<td>18-8-23</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 29.8.3.4(5) of the 2016 edition of <strong>NFPA 72, National Fire Alarm and Signaling Code</strong> (TIA No. 1345)</td>
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<td>18-8-23-a</td>
<td>Text of proposed TIA No. 1345. See Attachment 18-8-23-a</td>
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<td>18-8-23-b</td>
<td>Ballot results of TIA No. 1345. <strong>FAILED TC</strong> Ballot on both technical merit and emergency nature – 19 voting members/13 agree on technical merit/5 disagree/0 abstained/14 agree on emergency nature/4 disagree/0 abstained/1 ballot not returned. <strong>FAILED CC</strong> Ballot on both correlation and emergency nature – 19 voting members/13 agree on correlation/3 disagree/0 abstained/11 agree on emergency nature/5 disagree/0 abstained/3 ballots not returned. See Attachment 18-8-23-b</td>
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<td>18-8-23-b-1</td>
<td>Comment of R. Schifiliti, R.P. Schifiliti Associates, Inc., regarding TIA No. 1345. See Attachment 18-8-23-b-1</td>
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<td>Two comments were received. See Attachment 18-8-23-c</td>
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<td>18-8-24</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to delete section 29.7.3 in its entirety of the 2016 edition of <strong>NFPA 72, National Fire Alarm and Signaling Code</strong> (TIA No. 1346)</td>
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<td>18-8-24-b</td>
<td>Ballot results of TIA No. 1346. <strong>PASSED TC</strong> Ballot on both technical merit and emergency nature – 19 voting members/17 agree on technical merit/1 disagree/0 abstained/17 agree on emergency nature/1 disagree/0 abstained/1 ballot not returned. <strong>FAILED CC</strong> Ballot on both correlation and emergency nature – 19 voting members/12 agree on correlation/3 disagree/1 abstained/9 agree on emergency nature/6 disagree/1 abstained/3 ballots not returned. See Attachment 18-8-24-b</td>
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<td>18-8-24-b-1</td>
<td>Comment of R. Schifiliti, R.P. Schifiliti Associates, Inc., regarding TIA No. 1346. See Attachment 18-8-24-b-1</td>
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<td>18-8-24-c</td>
<td>Two comments were received. See Attachment 18-8-24-c</td>
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<td>18-8-24-d</td>
<td><strong>APPEAL</strong> Appeal of Wendy Gifford, Consultant, requesting the NFPA Standards Council overturn the Correlating Committees action and issue TIA 1346. See Attachment 18-8-24-d</td>
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<td>18-8-25</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section A.24.3.10 of the proposed 2019 edition of <strong>NFPA 72, National Fire Alarm and Signaling Code</strong> (TIA No. 1377)</td>
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<td>18-8-25-b</td>
<td>Final ballot results of TIA No. 1377. <strong>PASSED TC</strong> Ballot on both technical merit and emergency nature – 27 voting members/21 agree on technical merit/1 disagree/0 abstained/20 agree on emergency nature/1 disagree/1 abstained/5 ballots not returned. <strong>PASSED CC</strong> Ballot on both correlation and emergency nature – 19 voting members/19 agree on correlation/0 disagree/0 abstained/19 agree on emergency nature/0 disagree/0 abstained/0 ballots not returned. See Attachment 18-8-25-b</td>
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<td>Two comments were received. See Attachment 18-8-25-c</td>
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<td>18-8-26</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 4.3.7.2 of the 2018 edition of NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems (TIA No. 1360)</td>
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<td>18-8-26-b</td>
<td>Ballot results of TIA No. 1360. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 24 voting members/10 agree on technical merit/10 disagree/8 agree on emergency nature/12 disagree/1 abstained/3 ballots not returned. See Attachment 18-8-26-b</td>
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<td>18-8-27</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 7.2.1.6.2 of the 2018 edition of NFPA 101, Life Safety Code® (TIA No. 1298)</td>
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<td>Text of proposed TIA No. 1298. See Attachment 18-8-27-a</td>
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<td>18-8-27-b</td>
<td>Preliminary ballot results of TIA No. 1298. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 30 voting members/17 agree on technical merit/7 disagree/1 abstained/16 agree on emergency nature/9 disagree/0 abstained/5 ballots not returned. <strong>FAILING</strong> CC Ballot on both correlation and emergency nature – 10 voting members/5 agree on correlation/2 disagree/0 abstained/3 agree on emergency nature/4 disagree/0 abstained/3 ballots not returned. Comment circulation due August 10 2018. See Attachment 18-8-27-b SA18-8-27-b</td>
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<td>No comments were received.</td>
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<td>18-8-28</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 14.2.2.2.4, A.14.2.2.2.4, A.14.2.2.2.4.1 (new), A.14.2.2.2.4.2 (new), and A.14.2.2.2.4.4 (new) of the 2018 edition of NFPA 101, Life Safety Code® (TIA No. 1311)</td>
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<td>18-8-28-a</td>
<td>Text of proposed TIA No. 1311. See Attachment 18-8-28-a</td>
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<td>18-8-28-b</td>
<td>Preliminary ballot results of TIA No. 1311. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 22 voting members/8 agree on technical merit/10 disagree/0 abstained/8 agree on emergency nature/10 disagree/0 abstained/4 ballots not returned. <strong>FAILING</strong> CC Ballot on both correlation and emergency nature – 10 voting members/5 agree on correlation/3 disagree/0 abstained/2 agree on emergency nature/6 disagree/0 abstained/2 ballots not returned. See Attachment 18-8-28-b SA18-8-28-b</td>
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<td>No comments were received.</td>
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<td>18-8-29</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 15.2.2.2.4, A.15.2.2.2.4, A.15.2.2.2.4 (new), and A.15.2.2.2.4.4 (new) of the 2018 edition of NFPA 101, Life Safety Code® (TIA No. 1312)</td>
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<td>18-8-29-a</td>
<td>Text of proposed TIA No. 1312. See Attachment 18-8-29-a</td>
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<td>18-8-29-b</td>
<td>Preliminary ballot results of TIA No. 1312. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 22 voting members/8 agree on technical merit/10 disagree/0 abstained/8 agree on emergency nature/10 disagree/0 abstained/4 ballots not returned. <strong>FAILING</strong> CC Ballot on both correlation and emergency nature – 10 voting members/5 agree on correlation/3 disagree/0 abstained/2 agree on emergency nature/6 disagree/0 abstained/2 ballots not returned. See Attachment 18-8-29-b SA18-8-29-b</td>
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<td>No comments were received.</td>
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<td>18-8-30</td>
<td>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 16.2.2.2.6, A.16.2.2.2.6, and A.16.2.2.2.6.4 (new), of the 2018 edition of NFPA 101, Life Safety Code® (TIA No. 1313)</td>
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<td>18-8-30-a</td>
<td>Text of proposed TIA No. 1313. See Attachment 18-8-30-a</td>
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<td>18-8-30-b</td>
<td>Preliminary ballot results of TIA No. 1313. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 22 voting members/8 agree on technical merit/10 disagree/0 abstained/7 agree on emergency nature/11 disagree/0 abstained/4 ballots not returned. <strong>FAILING</strong> CC</td>
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Ballot on both correlation and emergency nature – 10 voting members/5 agree on correlation/3 disagree/0 abstained/2 agree on emergency nature/6 disagree/0 abstained/2 ballots not returned. See Attachment 18-8-30-b SA18-8-30-b

18-8-31 Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 17.2.2.2.6, A.17.2.2.2.6, and A.17.2.2.2.6.4 (new), of the 2018 edition of NFPA 101, Life Safety Code® (TIA No. 1314)

18-8-31-a Text of proposed TIA No. 1314. See Attachment 18-8-31-a

18-8-31-b Preliminary ballot results of TIA No. 1314. FAILED TC Ballot on both technical merit and emergency nature – 22 voting members/8 agree on technical merit/10 disagree/0 abstained/7 agree on emergency nature/11 disagree/0 abstained/4 ballots not returned. FAILING CC Ballot on both correlation and emergency nature – 10 voting members/5 agree on correlation/3 disagree/0 abstained/2 agree on emergency nature/6 disagree/0 abstained/2 ballots not returned. See Attachment 18-8-31-b SA18-8-31-b

18-8-31-c No comments were received.

18-8-32 Act on the issuance of proposed Tentative Interim Amendment (TIA) to add definition 3.3.13 Calcium Ammonium Nitrate (new), revise section 11.1.1.2, and add section A.3.3.13 (new) to the 2016 and the proposed 2019 editions of NFPA 400, Hazardous Materials Code (TIA No. 1361)

18-8-32-a Text of proposed TIA No. 1361. See Attachment 18-8-32-a

18-8-32-b Ballot results of TIA No. 1361. FAILED TC Ballot on both technical merit and emergency nature – 31 voting members/14 agree on technical merit/9 disagree/3 abstained/12 agree on emergency nature/12 disagree/2 abstained/5 ballots not returned. See Attachment 18-8-32-b

18-8-32-c Two comments were received. See Attachment 18-8-32-c

18-8-33 Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 2.3.4, 5.3.2, revise various sections of Chapter 7, revise sections of Chapter 8 and add section 8.33 to the 2018 edition of NFPA 1994, Hazardous Materials Protective Clothing and Equipment (TIA No. 1371)

18-8-33-a Text of proposed TIA No. 1371. See Attachment 18-8-33-a

18-8-33-b Ballot results of TIA No. 1371. PASSED TC Ballot on both technical merit and emergency nature – 30 voting members/20 agree on technical merit/1 disagree/1 abstained/21 agree on emergency nature/1 disagree/0 abstained/8 ballots not returned. PASSED CC Ballot on both correlation and emergency nature – 30 voting members/25 agree on correlation/0 disagree/0 abstained/25 agree on emergency nature/0 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-33-b

18-8-33-c No comments were received

18-8-34 Act on the issuance of proposed Tentative Interim Amendment (TIA) to add sections 7.1.2.6.1 (new), 7.1.2.8.4.1 (new), 7.3.2.5.1 (new), and 7.3.2.8.3.1 (new) to the 2018 edition of NFPA 1994, Hazardous Materials Protective Clothing and Equipment (TIA No. 1372)

18-8-34-a Text of proposed TIA No. 1372. See Attachment 18-8-34-a

18-8-34-b Ballot results of TIA No. 1372. PASSED TC Ballot on both technical merit and emergency nature – 30 voting members/22 agree on technical merit/1 disagree/1 abstained/22 agree on emergency nature/1 disagree/1 abstained/6 ballots not returned. PASSED CC Ballot on both correlation and emergency nature – 30 voting members/24 agree on correlation/0 disagree/0 abstained/24 agree on emergency nature/0 disagree/0 abstained/6 ballots not returned. See Attachment 18-8-34-b

18-8-34-c No comments were received

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| 18-8-35 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 8.25.4.3 of the 2018 edition of NFPA 1994, *Hazardous Materials Protective Clothing and Equipment* (TIA No. 1373) |
| 18-8-35-a | Text of proposed TIA No. 1373. See Attachment 18-8-35-a |
| 18-8-35-b | Ballot results of TIA No. 1373. **PASSED** TC Ballot on both technical merit and emergency nature – 30 voting members/23 agree on technical merit/0 disagree/0 abstained/7 ballots not returned. **PASSED** CC Ballot on both correlation and emergency nature – 30 voting members/20 agree on correlation/0 disagree/0 abstained/10 ballots not returned. See Attachment 18-8-35-b [SA18-8-35-b] |
| 18-8-35-c | No comments were received |
| 18-8-36 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 8.25.5.3 of the 2018 edition of NFPA 1994, *Hazardous Materials Protective Clothing and Equipment* (TIA No. 1374) |
| 18-8-36-a | Text of proposed TIA No. 1374. See Attachment 18-8-36-a |
| 18-8-36-b | Ballot results of TIA No. 1374. **PASSED** TC Ballot on both technical merit and emergency nature – 30 voting members/23 agree on technical merit/0 disagree/0 abstained/7 ballots not returned. **PASSED** CC Ballot on both correlation and emergency nature – 30 voting members/21 agree on correlation/0 disagree/0 abstained/9 ballots not returned. See Attachment 18-8-36-b |
| 18-8-36-c | No comments were received |
| 18-8-37 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to delete all of section 7.1.1.3 and associated subparagraphs and renumber paragraphs 7.1.1.4 through 7.1.1.8 of the 2018 edition of NFPA 1994, *Hazardous Materials Protective Clothing and Equipment* (TIA No. 1382) |
| 18-8-37-a | Text of proposed TIA No. 1382. See Attachment 18-8-37-a |
| 18-8-37-b | Ballot results of TIA No. 1382. **PASSED** TC Ballot on both technical merit and emergency nature – 30 voting members/23 agree on technical merit/0 disagree/0 abstained/7 ballots not returned. **PASSED** CC Ballot on both correlation and emergency nature – 30 voting members/23 agree on correlation/0 disagree/0 abstained/7 ballots not returned. See Attachment 18-8-37-b |
| 18-8-37-c | No comments were received |
| 18-8-38 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to add a new section 7.1.2.7.1 of the 2018 edition of NFPA 1999, *Standard on Protective Clothing and Ensembles for Emergency Medical Operations* (TIA No. 1375) |
| 18-8-38-a | Text of proposed TIA No. 1375. See Attachment 18-8-38-a |
| 18-8-38-b | Ballot results of TIA No. 1375. **PASSED** TC Ballot on both technical merit and emergency nature – 17 voting members/14 agree on technical merit/0 disagree/0 abstained/3 ballots not returned. **PASSED** CC Ballot on both correlation and emergency nature – 30 voting members/21 agree on correlation/0 disagree/0 abstained/9 ballots not returned. See Attachment 18-8-38-b |
| 18-8-38-c | No comments were received |
| 18-8-39 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise title of subsection 8.1.3, revise title of Table 8.1.3.4, revise paragraphs 8.1.3.6 and 8.1.3.6.1, delete |
subsection 8.1.5 and revise section 8.3.3.2. of the 2018 edition of NFPA 1999, *Standard on Protective Clothing and Ensembles for Emergency Medical Operations* (TIA No. 1376)

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<tr>
<td>18-8-39-b</td>
<td>Ballot results of TIA No. 1376. <strong>PASSED</strong> TC Ballot on both technical merit and emergency nature – 17 voting members/14 agree on technical merit/2 disagree/0 abstained/16 agree on emergency nature/0 disagree/0 abstained/1 ballot not returned. <strong>PASSED</strong> CC Ballot on both correlation and emergency nature – 30 voting members/23 agree on correlation/1 disagree/1 abstained/24 agree on emergency nature/0 disagree/1 abstained/5 ballots not returned. See Attachment 18-8-39-b</td>
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<th>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 11.2.1.6.2 of the 2018 edition of NFPA 5000, <em>Building Construction and Safety Code</em> (TIA No. 1379)</th>
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<td>Preliminary ballot results of TIA No. 1379. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 30 voting members/17 agree on technical merit/7 disagree/1 abstained/16 agree on emergency nature/9 disagree/0 abstained/5 ballots not returned. <strong>Failing</strong> CC Ballot on both correlation and emergency nature – 17 voting members/6 agree on correlation/6 disagree/0 abstained/1 agree on emergency nature/11 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-40-b SA18-8-40-b</td>
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<td>18-8-40-c</td>
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<tr>
<th>18-8-41</th>
<th>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 17.2.2.2.4, A.17.2.2.2.4 and A.17.2.2.2.4.4 (new) of the 2018 edition of NFPA 5000, <em>Building Construction and Safety Code</em> (TIA No. 1380)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-8-41-a</td>
<td>Text of proposed TIA No. 1380. See Attachment 18-8-41-a</td>
</tr>
<tr>
<td>18-8-41-b</td>
<td>Preliminary ballot results of TIA No. 1380. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 22 voting members/8 agree on technical merit/10 disagree/0 abstained/8 agree on emergency nature/10 disagree/0 abstained/4 ballots not returned. <strong>Failing</strong> CC Ballot on both correlation and emergency nature – 17 voting members/6 agree on correlation/6 disagree/0 abstained/1 agree on emergency nature/11 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-41-b SA18-8-41-b</td>
</tr>
<tr>
<td>18-8-41-c</td>
<td>No comments were received</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>18-8-42</th>
<th>Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise sections 18.2.2.2.8, A.18.2.2.2.8 (new), and A.18.2.2.2.8.4 (new) of the 2018 edition of NFPA 5000, <em>Building Construction and Safety Code</em> (TIA No. 1381)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-8-42-a</td>
<td>Text of proposed TIA No. 1381. See Attachment 18-8-42-a</td>
</tr>
<tr>
<td>18-8-42-b</td>
<td>Preliminary ballot results of TIA No. 1381. <strong>FAILED</strong> TC Ballot on both technical merit and emergency nature – 22 voting members/7 agree on technical merit/10 disagree/0 abstained/7 agree on emergency nature/10 disagree/0 abstained/5 ballots not returned. <strong>Failing</strong> CC Ballot on both correlation and emergency nature – 17 voting members/6 agree on correlation/6 disagree/0 abstained/1 agree on emergency nature/11 disagree/0 abstained/5 ballots not returned. See Attachment 18-8-42-b SA18-8-42-b</td>
</tr>
<tr>
<td>18-8-42-c</td>
<td>No comments were received</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>18-8-43</th>
<th>The following 2018 Annual Revision Cycle Standards passed letter ballot of the Council as Consent Standards with the following issuance dates and effective dates: NFPA 51B <em>Standard for Fire Prevention During Welding, Cutting, and Other Hot Work</em></th>
</tr>
</thead>
</table>

August 7, 2018  Supplemental Agenda Standards Council Meeting August 13-15, 2018  Page 12 of 1900
At the August 2014 Council Meeting, the Technical Committee on Aircraft Rescue and Fire Fighting submitted a revised scope for Council approval. The Council rejected the proposed scope and directed that NFPA Staff revise the proposal to specify the duties of the Committee. The NFPA Staff is submitting the following revised scope for the Council’s consideration:

**Current Scope:** This Committee shall have primary responsibility for documents on aircraft rescue and fire-fighting (ARFF) documents used by organizations providing ARFF services for operational procedures; training; foam testing and application; specialized equipment; and planning for aircraft emergencies; services and equipment, for procedures for handling aircraft fire emergencies, and for specialized vehicles used to perform these functions at airports, with particular emphasis on saving lives and reducing injuries coincident with aircraft fires following impact or aircraft ground fires. This Committee also shall have responsibility for documents on aircraft hand fire extinguishers and accident prevention and the saving of lives in future aircraft accidents involving fire.

**Proposed Scope:** This Committee shall have primary responsibility for documents on aircraft rescue and fire-fighting (ARFF) documents used by organizations providing ARFF services for operational procedures; training; foam testing and application; specialized equipment; and planning for aircraft emergencies; services and equipment, for procedures for handling aircraft fire emergencies, and for specialized vehicles used to perform these functions at airports, with particular emphasis on saving lives and reducing injuries coincident with aircraft fires following impact or aircraft ground fires. This Committee also shall have responsibility for documents on aircraft hand fire extinguishers and accident prevention and the saving of lives in future aircraft accidents involving fire. See Attachment 18-8-44

Consider the request of the Technical Committee on Aerosol Extinguishing Technology to revise the Committee scope as follows:
**Current Scope:** This committee shall have primary responsibility for documents on design, installation, operation, testing, maintenance, and use of fire extinguishing systems that utilize aerosol extinguishing agents. It shall not address documents on safeguarding against the fire and explosion hazards associated with the manufacturing, handling, and storage of combustible or flammable aerosol products covered by other committees.

**Proposed Scope:** This committee shall have primary responsibility for documents on design, installation, operation, testing, maintenance, and use of fire extinguishing systems, handheld fire extinguishing units, and portable fire extinguishing units that utilize aerosol extinguishing agents. It shall not address documents on safeguarding against the fire and explosion hazards associated with the manufacturing, handling, and storage of combustible or flammable aerosol products covered by other committees.

See Attachment 18-8-45

| 18-8-46 | At the April 2016 Standards Council Meeting, the Council reviewed a request from the Technical Committee on Hanging and Bracing of Water-Based Fire Protection Systems to develop a new project for hanging and bracing requirements for a myriad of water-based systems, not merely sprinkler systems. After a review of all the material provided, the Council took no action and requested NFPA Staff to come back to the Council with additional information on how this new project would affect the scopes of current documents and to get input from the Committees that would be effected. After conducting a survey of all affected Committees, the NFPA is presenting to the Council their findings for the Council’s review along with a proposed committee scope. **Proposed Committee Title:** Technical Committee on Hanging and Bracing for Fire Protection Suppression Systems **Proposed Committee Scope:** This committee shall have responsibility for developing criteria for the use and installation of components and devices used for the support of fire protection systems and for developing criteria for the protection of fire protection systems against seismic events. This document shall not address the installation of Fire Alarm Systems. See Attachment 18-8-46 SA18-8-46 |

| 18-8-47 | Consider the request of the Technical Committee on Fire Department Rescue Tools to enter new document NFPA 1937, *Standard for the Selection, Care, and Maintenance of Rescue Tools*, into the Fall 2020 revision cycle. The Council approved the establishment of this proposed document at the April 2014 Council Meeting. See Attachment 18-8-47 |

| 18-8-48 | At the April 2018 Council Meeting, the Council voted to approve the request of William Fiske, Chair of the Technical Committee on Electrical Equipment in Chemical Atmospheres to appoint a task group to correlate the definitions, requirements, and scopes of NFPA 70 (Article 506), NFPA 652, NFPA 484, and NFPA 499 to provide clear guidance of responsibility for determining when combustible dusts are a hazard to ensure the standards are complementary to one another. The Task Group has met and is reporting back to the Council with the results of the Task Group Meeting. See Attachment 18-8-48 |
18-8-49  Consider the request of Jason Scott of NASA to develop a standard to establish guidance on the construction and operation of facilities used to house, maintain, and deploy rockets (solid and liquid), spaceplanes, and other similar vehicles. The scope should also include standards for static stands used for testing and development of such vehicles. This project is still soliciting comments. Comments will be shown in the Supplemental Agenda. See Attachment 18-8-49

18-8-50  Consider requests from NFPA Committees to change revision cycles for the following documents:

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>2018 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>3 to 3 ½ rev cycle</td>
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<td>87</td>
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<td>F2020</td>
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<td>3 to 3 ½ rev cycle</td>
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<tr>
<td>260</td>
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<td>F2022</td>
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<td>5 to 4 ½ rev cycle</td>
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<tr>
<td>285</td>
<td>2012 F2023</td>
<td>F2021</td>
<td>Permanent 3 yr rev cycle</td>
<td>5 to 3 rev cycle</td>
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<td>289*</td>
<td>2019 A2023</td>
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<tr>
<td>318</td>
<td>2018 A2020</td>
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<td>3 to 3 ½ rev cycle</td>
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<td>409</td>
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<tr>
<td>415</td>
<td>2016 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>5 to 5 ½ rev cycle</td>
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<tr>
<td>423</td>
<td>2016 A2020</td>
<td>F2020</td>
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<td>5 to 5 ½ rev cycle</td>
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<tr>
<td>450</td>
<td>2018 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>4 to 4 ½ rev cycle</td>
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<tr>
<td>520</td>
<td>2016 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>5 to 5 ½ rev cycle</td>
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<tr>
<td>555</td>
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<td>F2020</td>
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<td>4 to 4 ½ rev cycle</td>
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<tr>
<td>1124</td>
<td>2017 A2020</td>
<td>A2021</td>
<td>1 time move</td>
<td>4 to 5 rev cycle</td>
<td></td>
</tr>
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</table>

* Proposed Issuance at August 2018 Meeting

See Attachment 18-8-50  See SA 18-8-50

18-8-51  At the April 2018 Council Meeting, the Council voted to approve the request of Bassem Khalil, Abu Dhabi Civil Defense, to develop a standard to establish protocols and practices for the use of remote inspections of existing buildings, buildings under construction, and building systems for code compliance. Four comments were received.

At that meeting, the Council directed a call for members interested in serving on the new Committee to establish protocols and practices for the use of remote inspections of existing buildings, buildings under construction, and building systems for code compliance and NFPA Staff to report back to the Council with a committee roster and a scope for the committee.

The Technical Committee on Remote Inspections members were surveyed for their opinion on whether remote inspections should be included in the existing committee’s scope and whether additional committee expertise may be required. NFPA Staff have developed a proposed scope if the Council determines to combine these two projects.

**Proposed Title: Technical Committee on Inspections**

**Proposed Scope:** This Committee shall have primary responsibility for documents establishing the requirements for professional qualifications, professional competence, training, procedures, and equipment used for remote inspections of construction sites; system installations; commissioning and acceptance tests; building life cycle occupancy inspections; and other required inspections; as well as electrical plans examinations. Additionally, this Committee shall have primary responsibility for the application, performance, requirements, protocols and use of remote methodologies, systems and components (including digital video, digital images, digital audio, among others) whether live or submitted as an uploaded file for subsequent review) to:
1. Conduct remote inspections of buildings, structures, and premises, including underground spaces and aerial areas;
2. Protect property during construction and at times when management is not present; and
3. Carry out the procedures for orderly conduct of various operations at the property.

Requirements for collection, custody and maintenance of the data available from remote inspections shall also be the responsibility of this Technical Committee.

See Attachment 18-8-51

<table>
<thead>
<tr>
<th>18-8-52</th>
<th>Report of the Committee Membership Task Group (J. Golinveaux, Chair).</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-8-52-a</td>
<td>Act on pending applications for Committee Members. No Attachment</td>
</tr>
<tr>
<td>18-8-52-b</td>
<td>Disband the Technical Committee on Signaling System – Carbon Monoxide Detection. With the incorporation of NFPA 720 requirements into NFPA 72, the responsibilities of the Technical Committee on Carbon Monoxide Detection are being assumed by existing Signaling System committees. No Attachment</td>
</tr>
<tr>
<td>18-8-52-c</td>
<td>Disband current members of the Technical Committee on Fire Investigation and review the proposed roster for the reorganized Technical Committee on Fire Investigation. No Attachment</td>
</tr>
<tr>
<td>18-8-52-c-1</td>
<td>Four additional comments regarding the reorganization of the Technical Committee on Fire Investigations. No Attachment</td>
</tr>
<tr>
<td>18-8-52-d</td>
<td>Proposed Roster for the Technical Committee on Fire Investigation Units. No Attachment</td>
</tr>
</tbody>
</table>

| 18-8-53 | Report of the Policy and Procedures Task Group (D. O’Connor, Chair). No Attachment |

| 18-8-54 | Hear a report from the Recording Secretary on the April 2018 Minutes, which were approved with editorial corrections. No Attachment |

<table>
<thead>
<tr>
<th>18-8-55</th>
<th>The Council will review the dates and locations of upcoming Council meetings, as follows:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>December 6-7, 2018 (Revised)</td>
</tr>
<tr>
<td></td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>No Attachment</td>
</tr>
</tbody>
</table>
MEMORANDUM

(AMENDMENT)

TO: Technical Committee on Fire Prevention Organization and Deployment

FROM: Yiu Lee, Project Administrator

DATE: July 10, 2018

SUBJECT: Final Results Amendment 1730-2 Ballot on the Proposed 2019 Edition of NFPA 1730

In accordance with the Regulations Governing the Development of NFPA Standards, the final results show the Amendment HAS NOT achieved the 2/3 majority vote needed to recommend approval of the Association Action by the Technical Committee. As a result, the recommendation to the Standards Council is to revert to the previous edition text. Since no previous edition text exists, the text is simply deleted.

30 Members Eligible to Vote
8 Ballots Not Returned (Bodnar, Hormann, Jessop, Johnson, Larsen, Lynam, Verbeek, Yahnke)

The attached report shows the number of affirmative, negative, and abstaining votes as well as the explanation of the vote.

The transcripts from the Annual 2018 NFPA Tech Session are now available at: www.nfpa.org/techsession.

The Regs at 1.6.2.(b) state: An appeal relating to an Association Technical Meeting Amendment that has been submitted shall be filed no later than 5 days after the notice of the amendment final ballot results are published in accordance with 4.2.6.

Appeal Closing Date for this Amendment is July 15, 2018.

Amendment 1730-2: Accept Public Comment No. 1. Note: A DISAGREE vote would recommend previous edition text. Where no previous edition exists the text is simply deleted.

Eligible to Vote: 30  
Not Returned : 8  
Michael Larsen,Morgana  
Yahnke,Randall  
Hormann,Aaron  
Johnson,Jim  
Jessop,Michael  
Bodnar,John  
Verbeek,David D. Lynam

<table>
<thead>
<tr>
<th>Vote Selection</th>
<th>Votes</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGREE</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Stephanie McKee</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Anthony D. Valdez</td>
<td></td>
<td>I agree the proposed modifications create some conflict, which creates confusion. The committee was attempting to move to a risk reduction inspection program built around CRAs rather than prescriptive. However, the verbiage provide does not fully accomplish that goal, therefore, I agree with reverting back to the original language.</td>
</tr>
<tr>
<td>Larry T. Willhite</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Marcina J. Sunderhaus</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Michael W. Evans</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Kwame Cooper</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Hugh H. Gibson, IV</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>James G. Munger</td>
<td></td>
<td>agree</td>
</tr>
<tr>
<td>Randy P. Minaker</td>
<td></td>
<td>AGREE</td>
</tr>
<tr>
<td>Colleen Pennington</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Gene J. Pietzak</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Harold Thompson</td>
<td></td>
<td>Agree with the changes.</td>
</tr>
</tbody>
</table>

DISAGREE 10
Ronald R. Farr
I can not agree with the Amendment as the TC added the language pertaining to a Community Risk Assessment as it was felt this was a critical part of the process. A CRA will assist the agency in identifying what their actual needs are and how to best deploy their resources.

Lisa M. Cockerill
Inspection frequencies must be based on the results of the risk assessment. Having a pre-determined frequency is not the goal of this sentence. The risk assessment will determine if more frequent inspections are needed then the minimum in the table 6.7.2. If the risk assessment has not been completed yet then use table 6.7.2 for frequency as a minimum standard.

Martin M. King
The recommended text if the motion fails is the text that should be included into the 2019 version. Inspection frequency can be argued as without merit because no science behind how the frequency was determined (same argument brought forth in Minnesota regarding residential fire sprinkler thresholds. 6.7.1 establishes a practice for the fire marshal to determine inspection frequencies according to the risk the community will take - generally through funding, staffing and enforcement.

Guy J. Santelli
My thought is that you should be able to make a decision on the schedule if you do a CRA. If you don't then fall back on what you state requires you to do in regards to frequency of fire inspections.

A. Lynn Schofield
The ultimate responsibility for determining all risk reduction activities falls to the AHJ. The local AHJ is better able to complete the community risk assessment based on their specific risks, determine what resources they are reasonably able to devote to pursuing inspections to mitigate those risks, and adapt to changing circumstances. Inspection schedules fall within the purview of the local AHJ, any proposed schedule should be included as supplementary material or a recommendation.

Arthur Shaw
Leave as committee wrote it.

Brian S. Meurer
The Authority Having Jurisdiction should have the ability to set inspection frequency to reflect the risk present in that specific community.
Brett T. Lacey  How would you know how relevant your need for inspection is without the assessment...

E. Keith Chambers  Changing the language in this section gives no credence to the actual risk assessment. If a risk assessment is conducted and determined that the schedule in the table is not appropriate based on that risk assessment, we are still obligated to the table schedule since the definitive word in that section is "shall". The point....the section is telling the AHJ what to do, rather than relying on the risk assessment conducted.

David Jacobowitz  disagree

ABSTAIN  0
MEMORANDUM

(AMENDMENT)

TO: Technical Committee on Fire Prevention Organization and Deployment

FROM: Yiu Lee, Project Administrator

DATE: June 29, 2018


The receipt due date of June 28, 2018 has passed. In accordance with the Regulations Governing the Development of NFPA Standards, enclosed are the preliminary ballot results for your review. These results include explanation of negative votes, abstentions and comments received.

30 Members Eligible to Vote
9 Ballots Not Returned (Bodnar, Gibson, IV., Hormann, Jessop, Johnson, Larsen, Lynam, Verbeek, Yahnke)

During the circulation period, you may change your vote, the change must be completed prior to July 6, 2018, 11:59 PM ET. Members who did not return a ballot may do so now through the following link: NFPA Ballot Link.

IMPORTANT NOTE: A comment must be included. If you vote Agree, simply add “Agree” to the comment field. A Disagree or Abstain vote requires a comment.

REMAINDER: You must hit SUBMIT to SAVE your work. The system session will time you out after 60 minutes; any work not submitted at that time will not be saved! You may return to finish or change your ballot at any time up to the closing date. Ballot comments exceeding 4,000 characters must be submitted in a Word document via email, to Yiu Lee at ylee@nfpa.org.

The transcripts from the Annual 2018 NFPA Tech Session are available at www.nfpa.org/techsession.

The return of ballots is required by the Regulations Governing the Development of NFPA Standards.

Amendment 1730-2: Accept Public Comment No. 1. Note: A DISAGREE vote would recommend previous edition text. Where no previous edition exists the text is simply deleted.

Eligible to Vote: 30
Not Returned: 9
Hugh H. Gibson, IV,Michael Larsen,Morgana Yahnke,David D. Lynam,Jim Jessop,Michael Bodnar,John Verbeek,Aaron Johnson,Randall Hormann

<table>
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<td></td>
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<tr>
<td>Sunderhaus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James G. Munger</td>
<td></td>
<td>agree</td>
</tr>
<tr>
<td>Randy P. Minaker</td>
<td></td>
<td>AGREE</td>
</tr>
<tr>
<td>Gene J. Pietzak</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>David Jacobowitz</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Stephanie McKee</td>
<td></td>
<td>Agree</td>
</tr>
<tr>
<td>Colleen Pennington</td>
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<tr>
<td>Anthony D. Valdez</td>
<td></td>
<td>I agree the proposed modifications create some conflict, which creates confusion. The committee was attempting to move to a risk reduction inspection program built around CRAs rather than prescriptive. However, the verbiage provide does not fully accomplish that goal, therefore, I agree with reverting back to the original language.</td>
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</tbody>
</table>

| DISAGREE | 9 |
|          |   |
| Larry T. Willhite | Agree |
| Michael W. Evans  | Agree |
| Harold Thompson   | Agree with the changes. |
Ronald R. Farr

I can not agree with the Amendment as the TC added the language pertaining to a Community Risk Assessment as it was felt this was a critical part of the process. A CRA will assist the agency in identifying what their actual needs are and how to best deploy their resources.

A. Lynn Schofield

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Brett T. Lacey

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Lisa M. Cockerill

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Guy J. Santelli

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Arthur Shaw

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Brian S. Meurer

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E. Keith Chambers

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The recommended text if the motion fails is the text that should be included into the 2019 version. Inspection frequency can be argued as without merit because no science behind how the frequency was determined (same argument brought forth in Minnesota regarding residential fire sprinkler thresholds. 6.7.1 establishes a practice for the fire marshal to determine inspection frequencies according to the risk the community will take - generally through funding, staffing and enforcement.

ABSTAIN 0
MEMORANDUM

(AMENDMENT)

TO: Technical Committee on Fire Prevention Organization and Deployment

FROM: Yiu Lee, Project Administrator

DATE: June 18, 2018


At the NFPA Technical Meeting (Tech Session) held June 14, 2018, NFPA 1730 was amended by the acceptance of the following:

Amendment 1730-2: (Accept Public Comment No. 1)

Following the actions of the membership at the NFPA Tech Session, the attached Amendment Ballot Text is being submitted for ballot of the Technical Committee pursuant to Section 4.6 and Table 1 of the Regulations Governing the Development of NFPA Standards.

Ballots can be accessed through the following link: NFPA Ballot Link. Please complete the ballot on or before June 28, 2018 by 11:59 pm ET.

IMPORTANT NOTE: A comment must be included. If you vote Agree, simply add “Agree” to the comment field. A Disagree or Abstain vote requires a comment.

REMINDER: You must hit SUBMIT to SAVE your work. The system session will time you out after 60 minutes; any work not submitted at that time will not be saved! You may return to finish or change your ballot at any time up to the closing date. Ballot comments exceeding 4,000 characters must be submitted in a Word document via email, to Yiu Lee at ylee@nfpa.org.

The transcripts from the Annual 2018 NFPA Tech Session are available at: www.nfpa.org/techsession.

The return of ballots is required by the Regulations Governing the Development of NFPA Standards.
AMENDMENT BALLOT TEXT

Technical Committee on Fire Prevention Organization and Deployment
NFPA 1730, Standard on Organization and Deployment of Fire Prevention
Inspection and Code Enforcement, Plan Review, Investigation, and Public
Education Operations
Amendment No. 1730-2: Accept Public Comment No. 1
June 2018

IF YOU AGREE TO SUPPORT AMENDMENT 1730-2 as recommended by the
membership by vote at Tech Session, the recommended text reads as follows (changes
shown legislatively to the Second Draft):

6.7 Minimum Inspection Frequency.
6.7.1* The AHJ shall perform a community risk assessment to establish minimum inspection
frequencies.
6.7.2* In the absence of a community risk assessment, existing occupancy fire prevention
inspection and code enforcement inspection frequencies shall be not less than those specified in
Table 6.7.12.

IF YOU DISAGREE WITH THE RECOMMENDATION FOR AMENDMENT 1730-2 by
the membership by vote at Tech Session, the recommended text would revert to the
previous edition text. Since no previous edition text exists, the text is simply deleted.
We will now move onto the next motion. Let's now pursue discussion on Certified Amending Motion 1730-2. Microphone Number Three.

TONY APFELBECK: Tony Apfelbeck. I am the Fire Marshal and Building Official with the City of Altamonte Springs, Florida, regarding Motion 1730-2, I make a motion to Accept Public Comment Number One.

FEMALE SPEAKER: Second.

MALE SPEAKER: Second.

DANIEL O'CONNOR: Okay. There is a motion on the floor to Accept Public Comment Number One. We do have a second. Please proceed with the discussion on the motion, Sir.

TONY APFELBECK: Ladies and gentlemen, as you observed by my testimony earlier today, supporting an inclusion of community risk reduction in NFPA 1001, I strongly support the concept of community risk reduction and assessment. However, sometimes our desires for advancement outpaces our current knowledge. This motion addresses one of those circumstances where this has occurred. In the last cycle for NFPA 1730, the TC inserted new language to allow community risk assessment to substitute for the prescriptive existing occupancy inspection frequencies in NFPA 1730. In concept, I agree, this is an excellent idea. However, the evidence shows that we're not ready for this leap yet. While it is easy for the 1730 document to appoint a user, QSCRA, in order to create an existing occupancy inspection frequency, the document fails to provide any direction on methodology, or how to conduct such a review; nor does it provide examples of such an assessment in the Annex text.

Both of these approaches were requested by this writer in public inputs, and rejected by the Technical Committee. I also submitted a public input to NFPA 1300 on this same issue, Standard on Community Risk Assessment, and Community Risk Reduction Plan Development. The Standard is intended to specify how users shall, quote, "Develop the process to conduct community risk assessment and reduction programs." End quote. The TC's response to including this type of methodology in 1300 was, 'NFPA 1300 does not cover inspections of existing occupancies.'

So what we're left with here is we have an option for a user to use a CRA, in NFPA 1300, but no methodology or guidance in the NFPA Standard on CRAs to begin to implement this goal, or ensure integrity of an approach to developing such a, a conclusion.

It's important to note that both the 1300 document and the 1730 document are the same Technical Committee. As a result of this lack of detail to the user, we now have an approach before us that would result in 10 different AHJs receiving the exact same

Audio Transcription of Technical Committee Session - Part 2
June 14, 2018
data, and developing 10 completely different existing occupancy inspection frequencies in a CRA. That's not science or evidence based decision making. It is pseudoscience. Once a methodology is developed to accurately create an existing occupancy inspection schedule as part of a CRA, and we adopt it within the Standard, I will be the first to stand here and support this language as being appropriate. Until then, we need to step back, let the science be developed to guide us in making good decisions in this area.

In conclusion, I ask that you support this motion, and give the Technical Committee the opportunity to go ahead and do the research on this issue, through maybe a Code Fund project with the Fire Protection Research Foundation, or other opportunities, and put language in the Standard, and examples in the Annex. Thank you very much.

RONALD FARR: 1730 Committee rejected the public comment, based upon the purpose of the community risk assessment to support the fire prevention efforts spelled out in 1300, to conduct that risk assessment and risk reduction plans. They have outlined in 1300, to conduct that risk assessment and risk reduction plans. They have their efforts, rather than a generic, broad statement that may not address an existing risk at all.

The community that develops the 1730 Standard is the same Technical Committee that is currently developing the 1300 Standard on the community risk assessment and risk reduction plans. They have spelled out the process in 1300, to conduct that risk assessment to support the fire prevention efforts outlined in 1300.

The decision to deny the original public comment was done with the understanding that it would clear process to conduct the risk assessment, providing the objective data to support a specific inspection schedule based on the actual risk. It's forthcoming in the 1300 Standard. Please support the Committee's action to provide the guidance for the...
DANIEL O'CONNOR: Microphone Number Four, please.

VINCENT QUINTERNO: Vincent Quinterno, voting against the motion. As a Community Risk Reduction Officer, like most people in this room, or that are AHJs - we wear multiple hats. To say - give us a schedule and say, 'You're going to do this here,' when that may not be a priority, when I may be doing juvenile fire setting, is the priority at that time. So give me a schedule, and I may not be able to adhere to it. So I'm, I'm opposed to the motion.

DANIEL O'CONNOR: Microphone Number Three.

TONY APFELBECK: Tony Apfelbeck, Fire Marshal, for the motion. Just in rebuttal to some of the previous testimony, the, the fact that a local community may have other priorities - let's create a methodology that includes that. I have no objection to that whatsoever. But let's go ahead and look at that, and create an objective methodology that gives guidance to us as AHJs so we can then go sell this to the people, and our policy makers that are going to go ahead and say, "Well, how did you develop this?" 'Well, you know, I just went ahead and, and pretty much made it up.' 'Well, is there a standard methodology, within the standard of care within the - in the NFPA process?' If we have one, yes. Then we can go ahead and point to that, and it gives the credibility for this process, because if we move forward, credibility and the integrity of this process is important, and we have the tools to create this.

John Hall with the Fire Protection Research Foundation created the first inspection schedule recommendations that are in - in 1730. There's no reason we can't go ahead and move towards a performance based aspect of that, to incorporate local needs in that, and move forward. Thank you.

DANIEL O'CONNOR: For the motion, Sir, right?
TONY APFELBECK: Yes, for the motion.

DANIEL O'CONNOR: Thank you. I am going to move to Microphone Number Five in the back of the room.

KEN DUNCAN (phonetic): How you doin' today?

Ken Duncan, Performance Design Technologies. The National Fire Protection Association --

DANIEL O'CONNOR: For or against the motion?

KEN DUNCAN: -- against the motion -- several years ago, through the Research Foundation, actually issued a guideline on incorporated risk methodologies into NFPA Standards. I don't know that enough people have actually looked at that, but it sets up a framework that allows us to do more risk informed decisions. And while we may not have a single methodology, or a preferred methodology, the option of staying with the prescriptive is perfectly acceptable to those who don't want to do the risk assessment, but it provides the option to advance risk based decision making. So I, I am against the motion.

DANIEL O'CONNOR: Okay. Microphone Number Four, please.

MALE SPEAKER: Call the Question.

MALE SPEAKER: Question (unintelligible).

DANIEL O'CONNOR: Well - okay. There's a motion from the floor to Call the Question, and I thought I had - saw somebody at the mike, but maybe they sat down. So I don't see anybody at the microphones right now. So do we have a second to Call the Question?

MALE SPEAKER: Second.

DANIEL O'CONNOR: Okay. We have a second. In order to vote on this motion, again, you need to please scroll down to the bottom of your tablet, to vote. So I'll give you a second to do that, find that. If you wish to vote in support of the motion to Call the Question touch Yes. If you wish to vote against the motion, touch No. Please record your vote.

FEMALE SPEAKER: (unintelligible).

DANIEL O'CONNOR: Voting will close in five seconds. The vote is closed. Okay. The, the question of calling the, the - the motion to Call the Question passes 419 to 17.

We will move to vote on the motion on 13 - on 1730-2. Before we vote, though, let me restate that motion. The motion on the floor is to Accept Public Comment Number One. To touch - to vote, touch the Vote button. If you wish to vote in support of the motion, and recommend the text on Screen One, touch Yes. If you wish to vote against the motion, and recommend the text on Screen Two, touch No. Please record your vote. The voting will close in five seconds. The voting is closed. Thank you. And the vote, results of the vote are - 276 in support of the motion, and recommend the text on Screen One; 154 against the motion, and, and recommend the text on Screen Two. The motion has passed.

Is there any further discussion on NFPA 1730? Seeing none, we will move on to the next document. Thank you, Mr. Farr.
NFPA 1-2018 Edition

Fire Code

TIA Log No.: 1362
Reference: 42.12 (new)

Comment Closing Date: June 14, 2018
Submitter: Peter Willse, Portland Fire Marshal Office

www.nfpa.org/1

1. Add a new section 42.12 and associated Annex material to read as follows:

42.12 On-Demand Mobile Fueling.
42.12.1* Scope. Section 42.12 shall apply to the retail practice of fueling motor vehicles of the general public while the owner's vehicle is parked and might be unattended. [30A:14.1]

A.42.12.1 This section addresses mobile refueling activities governed by NFPA 30A. Other local, state, and federal requirements might be applicable. [30A:A.14.1]

42.12.1.1 Section 42.12 shall not apply to the following:
   (1) Refueling from tank vehicles at commercial, industrial, governmental, or manufacturing establishments in accordance with Section 42.7.6
   (2) Fueling from portable containers in cases of an emergency or for personal use
       [30A:14.1.1]

42.12.2 The dispensing of Class I and Class II liquids from a mobile fueling vehicle or metal safety cans into the fuel tank of a motor vehicle shall be permitted only if all of the requirements of 14.2 through 14.4 of NFPA 30A have been met. [30A:14.1.2]

42.12.2 Approvals and Mobile Fueling Locations.
42.12.2.1 Mobile fueling operations shall not be conducted unless approved by the authority having jurisdiction and the owner of the property on which the fueling will occur. Mobile fueling operations shall occur only at approved locations. [30A:14.2.1]

42.12.2.2 The authority having jurisdiction shall be permitted to require a safety and emergency response plan for locations where mobile fueling is authorized. Where required, the safety and emergency response plan shall be available on each mobile fueling vehicle. [30A:14.2.2]

A.42.12.2.2 The safety and emergency response plan is intended to be completed, maintained, and updated by the mobile fueling operator to help ensure that fueling operations are conducted in a safe manner that is acceptable to the authority having jurisdiction. Such a plan might include some or all of the following elements:

1. Written safety and emergency response plan that establishes policies and procedures for fire safety, spill prevention and control, personnel training, and compliance with other applicable requirements of this code.

2. Where required by the authority having jurisdiction, a site plan for each location at which mobile fueling occurs. The site plan should be in sufficient detail to indicate all buildings, structures, lot lines, property lines, and appurtenances on site and their use or function; all uses adjacent to the lot lines of the site; fueling locations, the locations of all storm drain openings, and adjacent waterways or wetlands; information regarding slope, natural drainage, curbing, impounding, and how a spill will be retained upon the site property; and the scale of the site plan.

3. If the authority having jurisdiction does not require site plans of approved fueling locations, the safety and emergency response plan should include guidelines for locations within the jurisdiction where mobile fueling can and cannot be provided, such as on residential streets, on school grounds, and so on.

[30A:A.14.2.2]
42.12.2.3* Mobile fueling vehicle operators shall possess evidence of training on proper fueling procedures and the safety and emergency response plan. [30A:14.2.3]

A.42.12.2.3 In addition to any other training, education, and certifications that might be required by federal regulations and HAZCOM, the operator should also be trained on the requirements of this code. [30A:A.14.2.3]

42.12.2.3.1 The vehicle operator training shall be approved by the authority having jurisdiction. [30A:14.2.3.1]

42.12.2.4 Mobile fueling shall not take place within 7.6 m (25 ft) of buildings, property lines, or combustible storage. The authority having jurisdiction is authorized to decrease separation distances for mobile fueling from metal safety cans. [30A:14.2.4]

42.12.2.5 An approved storm drain cover or equivalent method that will prevent any fuel from reaching the drain shall be used when mobile fueling occurs within 7.6 m (25 ft) of a storm drain. [30A:14.2.5]

42.12.2.6 Mobile fueling and delivery vehicle parking shall be prohibited in buildings, in covered parking structures, on public streets, and on public ways. [30A:14.2.6]

42.12.3 Mobile Fueling Vehicles and Equipment.

42.12.3.1* Mobile fueling vehicles shall comply with all applicable local, state, and federal requirements and shall be one of the following:

1. A tank vehicle complying with NFPA 385 with chassis-mounted tanks that do not exceed an aggregate capacity of 4542 L (1200 gal).

2. A vehicle with chassis-mounted tanks, each of which does not exceed 415 L (110 gal), that does not exceed an aggregate capacity of 4542 L (1200 gal).

3. A vehicle that carries a maximum of 227 L (60 gal) of motor fuel in listed metal safety cans not to exceed 20 L (5.3 gal) in capacity. [30A:14.3.1]

A.42.12.2.3.1 In addition to the requirements in 42.12.3.1, mobile fueling vehicles should comply with all applicable local, state, and federal requirements, including DOT requirements for vehicles used to transport gasoline and diesel fuel. [30A:A.14.3.1]

42.12.3.2 Dispensing hose assemblies shall be listed and the hose shall not exceed 15 m (50 ft) in length. [30A:14.3.2]

42.12.3.3 A listed breakaway device shall be provided at the nozzle. [30A:14.3.3]

42.12.3.4 Dispensing nozzles shall be a listed, automatic closing-type with a latch-open device. [30A:14.3.4]

42.12.3.5 A listed fuel shutoff switch and a listed shutoff valve assembly shall be provided on the delivery vehicle. [30A:14.3.5]

42.12.3.6 The pump shall be listed to UL 79, Power Operated Pumps for Petroleum Dispensing Products. [30A:14.3.6]

42.12.3.7 The meter shall be listed to UL 25, Meters for Flammable and Combustible Liquids and LP-Gas. [30A:14.3.7]

42.12.3.8 Mobile fueling vehicles shall be provided with a fire extinguisher installed, inspected, and maintained as required by NFPA 10, with a minimum rating of 4A-80 B:C. [30A:14.3.8]

42.12.3.9 Mobile fueling vehicles shall be provided with a minimum 18.9 L (5 gal) spill kit designed to promptly and safely mitigate and dispose of leakage or spills. [30A:14.3.9]

42.12.3.10 NO SMOKING signs shall be prominently displayed on the mobile fueling vehicle. [30A:14.3.10]

42.12.4 Operations.

42.12.4.1 Nighttime deliveries shall only be made in areas deemed adequately lighted by the authority having jurisdiction. [30A:14.4.1]
421242 The mobile fueling vehicle flasher lights shall be in operation while dispensing operations are in progress. [30A:14.4.2]
421243 Safety cones or barriers shall be employed to protect the vehicle fueling area. [30A:14.4.3]
421244 Expansion space shall be left in each motor vehicle fuel tank to prevent overflow in the event of temperature increase. [30A:14.4.4]
421245* A means for bonding the mobile fueling vehicle to the motor vehicle shall be provided. Such bonding means shall be employed during fueling operations. [30A:14.4.5]

A.421245 The listed hose and nozzle assembly provides for bonding. However, where there is a plastic insert that prohibits an electrical/metalllic connection with the customer vehicle while filling, then a separate means of bonding is required. [30A:A.14.4.5]

421246 Sources of ignition shall be controlled in accordance with 42.7.2.6.1. [30A:14.4.6]
421247 Mobile fueling vehicles shall be constantly attended during fueling operations. [30A:14.4.7]
421248 Mobile fueling vehicles shall not obstruct emergency vehicle access roads. [30A:14.4.8]
421249 Mobile fueling vehicles shall be positioned in a manner to preclude traffic from driving over the dispensing hose. [30A:14.4.9]

4212410 Operations Using Metal Safety Cans.
42124101 All metal safety cans shall be listed. [30A:14.4.10.1]
42124102 Metal safety cans shall be secured to the mobile fueling vehicle except when in use. [30A:14.4.10.2]
42124103 The authority having jurisdiction shall be permitted to require additional measures in the handling of approved metal safety cans for refueling. [30A:14.4.10.3]

Substantiation: These new sections were adopted by the Technical Committee on Automotive and Marine Service Stations for the 2018 edition of the Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 30A. The Fire Code committee had their First Draft meeting before the Automotive and Marine Service Stations committee held their First Draft meeting, and therefore the Fire Code committee was unaware these requirements were being added to the NFPA 30A. During our Second Draft meeting, since these sections were not ones we had extracted from NFPA 30A into NFPA 1, we did not review the entire NFPA 30A to see if there were any sections we needed to update.

Emergency Nature: The proposed TIA intends to correct a previously unknown existing hazard. 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.

Now many states and jurisdictions are being asked to having this type of refueling in their jurisdictions, Connecticut being one of them. Since NFPA 30A is adopted by reference, it would be hard for the Connecticut’s Office of the State Fire Marshal to enforce it. With this in the Fire Code, they will be able to enforcer the requirements.
MEMORANDUM

TO: Technical Committee on Fire Code

FROM: Kelly Carey, Project Administrator

DATE: June 26, 2018

SUBJECT: NFPA 1 Proposed TIA No. 1362 FINAL TC BALLOT RESULTS

The public comment circulation has passed, therefore, according to 5.6(a) in the NFPA Regs, the final results show this HAS achieved the ⅔ majority vote needed on both Ballot Item No. 1 (Technical Merit) and Ballot Item No. 2 (Emergency Nature).

29 Eligible to Vote
3 Not Returned (Christopherson, Fukuda, Navarra)

<table>
<thead>
<tr>
<th>Technical Merit:</th>
<th>Emergency Nature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Abstention (Tidwell)</td>
<td>1 Abstention (Tidwell)</td>
</tr>
<tr>
<td>24 Agree (w/comment, Tyree)</td>
<td>22 Agree (w/comment, Tyree)</td>
</tr>
<tr>
<td>1 Disagree (Baldassarra)</td>
<td>3 Disagree (Davidson, Francis, Hanselka)</td>
</tr>
</tbody>
</table>

There are two criteria necessary to pass ballot [(1) simple majority (2) affirmative ⅔ vote]. Both questions must pass ballot in order to recommend that the Standards Council issue this TIA.

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

\[ 29 \text{ eligible} \div 2 = 14.5 = (15) \]

(2) The number of affirmative votes needed to satisfy the ⅔ requirement is 19.

(29 eligible to vote - 3 not returned - 1 abstention = 25 \times 0.75 = 18.75)

Ballot comments are attached for your review.

The Regs at 1.6.2.(c) state: An appeal relating to a proposed Tentative Interim Amendment that has been submitted for processing pursuant to Section 5.2 shall be filed no later than 5 days after the notice of the TIA final ballot results are published in accordance with 4.2.6.

Appeal Closing Date for this TIA is July 1, 2018.
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

__________ AGREE __________ X____ DISAGREE* __________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

The use of the term “when approved by the authority having jurisdiction” in Section 42.12.1.2 should be deleted. This is a long-standing concern for those writing code language. It does a disservice to the AHJ because it does not identify the parameters necessary for the AHJ to make such a decision. It also does a disservice to the public because those in the design community and property owners do not know what needs to be done in order to meet the requirements of the AHJ. This leads to non-standard, ambiguous code requirements which vary from locale to locale. The code is to identify minimum requirements needed for a reasonable level of safety. If they are met, there is no need for an AHJ variable; if the code requirements are not sufficient, then they should be bolstered.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____ A. The standard contains an error or an omission that was overlooked during the regular revision process.

_____ B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

__ X__ 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 NFPA Standard 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.

__________ ABSTAIN

__________ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.
EXPLANATION OF VOTE - Please type or print your comments:
* An explanation must accompany a “disagree” or “abstain” vote.

Signature 4/18/18

Date

Carl F. Baldassarra
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: kcarey@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

_____XX_____ AGREE   ___________ DISAGREE*   ___________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

Ballot Item No. 2:
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__________ ABSTAIN

_____XX_____ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

_The issue cannot be described as a previously unknown hazard when in fact the NFPA 30A technical committee was working on adding the requirements to that standard. The TIA would not offer an immediate public benefit. Since the TIA did not exist when a jurisdiction adopted their edition of NFPA 1 currently applied they would have to go through a public adoption process to add the language. Application of the new language in
NFPA 30A on this topic can be applied by either updating their NFPA 30A to NFPA 30A or by adopting the requirements from NFPA 30A directly now.

__________________________________________________________

Signature

Robert J Davidswn
Name (Please Print)

Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org

4/16/2018
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

______ X ______ AGREE           _______ DISAGREE*   _______ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____ A. The standard contains an error or an omission that was overlooked during the regular revision process.

_____ B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

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_____ F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

_________ ABSTAIN

______ X ______ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

The proponent notes that the NFPA 1 committee, during its Second Draft meeting did not review NFPA 30 for these sections for inclusion in the 2018 document. Failure to look into sections not traditionally extracted by NFPA 1 does not constitute an emergency. It is, instead, short-sighted on our part. Our failing is not an emergency.
Signature

Sam W Francis
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: kcarey@nfpa.org
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EXPLANATION OF VOTE - Please type or print your comments:

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_________ ABSTAIN

_____X____ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

_____ This change is an evolutionary improvement to the National Fire Code. This does not constitute an Emergency.
Reinhard Hanselka
Signature
June 18, 2018
Date

Reinhard Hanselka
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: kcarey@nfpa.org
Ballot Item No. 1:
I agree with the **TECHNICAL MERITS** of the Proposed TIA to add a new section 42.12 and associated Annex material.

__________ AGREE __________ DISAGREE* ______ x _____ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
I represent the Fire Equipment Manufacturers’ Association on the committee; I have a client interest in the subject matter of the TIA, therefore am unable to cast a vote. [3.3 (e) Guide for the Conduct of Participants in the NFPA Standards Development Process]

Ballot Item No. 2:
I AGREE that the subject is of an **EMERGENCY NATURE** for one or more of the following reasons (Check all that apply):

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_____ x _____ ABSTAIN

__________ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

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Signature

Jim Tidwell
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110
E-mail: kcarey@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

_____ X _____ AGREE  ________ DISAGREE*  ________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

AGREE; WITH THIS EXCEPTION: A permit should be required for fueling operations

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____  A. The standard contains an error or an omission that was overlooked during the regular revision process.

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_____ ABSTAIN

______ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

AGREE; WITH THIS EXCEPTION: A permit should be required for fueling operations.
Kenneth E. Tyree Jr.
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: kcarey@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

X AGREE  _______ DISAGREE*  _______ ABSTAIN*

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Please return the ballot on or before April 18, 2018.

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Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

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Signature

Anthony C. Apfelbeck
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
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NFPA
1 Batterymarch Park
Quincy, MA 02169
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E-mail: kcarey@nfpa.org
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I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

[ ] AGREE [ ] DISAGREE* [ ] ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

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EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Supplemental Agenda Standards Council Meeting August 13-15, 2018

Signature

Date

Name (Please Print)

Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7111

E-mail: kcarey@nfpa.org
Ballot Item No. 1:
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X ______ AGREE  _______ DISAGREE*  ________ ABSTAIN*

**EXPLANATION OF VOTE** - Please type or print your comments:

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__________ ABSTAIN

__________ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is **NOT** of emergency nature.

**EXPLANATION OF VOTE** - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Scott Bryant
Signature

04-06-2018
Date

Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
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EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Dan Buuck
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: kcarey@nfpa.org
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____X______ AGREE            __________ DISAGREE*          __________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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______ ABSTAIN

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EXPLANATION OF VOTE - Please type or print your comments:

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---

August 7, 2018 Supplemental Agenda Standards Council Meeting August 13-15, 2018
_ss/ Shane M. Clary______________________
Signature

_ Shane M. Clary_______________________
Name (Please Print)

Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
Ballot Item No. 1:
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X AGREE   DISAGREE*   ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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ABSTAIN

DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

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F. Tom Fangmann
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
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_____XX_____ AGREE  _______________ DISAGREE*  ______________ ABSTAIN*

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EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Sarina L. Hart

Signature

Date

April 13, 2018

Sarina L. Hart
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

_____ x _____ AGREE  ___________ DISAGREE*  ___________ ABSTAIN*

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EXPLANATION OF VOTE - Please type or print your comments:

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__Jeffrey M Hugo________________________
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
Ballot Item No. 1:
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___X______ AGREE        _________ DISAGREE*        _________ ABSTAIN*

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EXPLANATION OF VOTE - Please type or print your comments:
* An explanation must accompany a “disagree” or “abstain” vote.

__________________________________________________________________________________
Richard S Kraus____________________
Signature on file
4/4/18____________________
Date

RICHARD S KRAUS

Name (Please Print)
Please return the ballot on or before **April 18, 2018**.

**PLEASE RETURN TO:**
Kelly Carey, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

**FAX:** (617) 984-7110

**E-mail:** kcarey@nfpa.org
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___X___ AGREE

_________ DISAGREE*

_________ ABSTAIN*

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EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Signature 4/26/18

__Scott T. Laramee__________________________
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110 E-mail: kcarey@nfpa.org
TECHNICAL COMMITTEE ON FIRE CODE
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1362
on the 2018 Edition of NFPA 1

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and
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_____ x_____ AGREE  ___________ DISAGREE*  ___________ ABSTAIN*

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_______ DISAGREE  The TIA does not meet any of the regulations above warranting a TIA, therefore
the  TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
August 7, 2018
Supplemental Agenda Standards Council Meeting August 13-15, 2018

Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
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E-mail: kcarey@nfpa.org
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X AGREE

DISAGREE*

ABSTAIN*

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ABSTAIN

DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kecarey@nfpa.org

April 18, 2018
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

[ ] AGREE  [ ] DISAGREE*  [ ] ABSTAIN*

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[ ] ABSTAIN

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EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Signature

Wade A. Palazini

Name (Please Print)

Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

___XX___ AGREE
__________ DISAGREE*
__________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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Ballot Item No. 2:
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___X___ A. The standard contains an error or an omission that was overlooked during the regular revision process.

________ B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

___X___ C. The proposed TIA intends to correct a previously unknown existing hazard.

___X___ 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 NFPA Standard 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.

________ ABSTAIN

__________ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Signature

James S. Peterkin

Date

4-17-18

Name (Please Print)

Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

AGREE  DISAGREE*  ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

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Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
TECHNICAL COMMITTEE ON FIRE CODE 
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1362
on the 2018 Edition of NFPA 1

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

______ AGREE _________ DISAGREE* _________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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______ ABSTAIN

______ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: kcarey@nfpa.org
TECHNICAL COMMITTEE ON FIRE CODE
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1362
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I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

X AGREE            DISAGREE*            ABSTAIN*

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EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Signature

Steven M. Taulbee
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110

E-mail: kcarey@nfpa.org

Date
4/25/18
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to add a new section 42.12 and associated Annex material.

X Agree  Disagree*  Abstain*

EXPLANATION OF VOTE - Please type or print your comments:
*An explanation shall accompany a “disagree” or “abstain” vote.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

X A. The standard contains an error or an omission that was overlooked during the regular revision process.

X B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

X C. The proposed TIA intends to correct a previously unknown existing hazard.

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ABSTAIN

DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:
* An explanation must accompany a “disagree” or “abstain” vote.
_Peter Willse_  
Name (Please Print)  
Please return the ballot on or before **April 18, 2018**.

**PLEASE RETURN TO:**  
Kelly Carey, *Project Administrator*  
NFPA  
1 Batterymarch Park  
Quincy, MA 02169  
**FAX:** (617) 984-7110  
**E-mail:** kcarey@nfpa.org
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(Check all that apply):


EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
____Jennifer Zaworski ________________________________
Name (Please Print)
Please return the ballot on or before April 18, 2018.

PLEASE RETURN TO:
Kelly Carey, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169          FAX: (617) 984-7110          E-mail: kcarey@nfpa.org
Sent Via Electronic Mail to rforan@nfpa.org and U.S.Postal Service

TO: Rosanne Foran, Project Coordinator, NFPA Standards Administration
FROM: Raymond A. Walker, Jr., President IFMA
DATE: May 3, 2018
RE: Public Comment – NFPA 1 – Proposed TIA Log. No. 1362

On behalf of the IFMA, during a recent meeting a motion was made, seconded and accepted to support the NFPA 1 TIA on mobile fueling with a permit required.

Please feel free to contact me directly at if you have any questions or concerns. Thank you.

Raymond A. Walker
Pres Int'l Fire Marshals Assoc
5/3/18
June 14, 2018

Dawn Michele Bellis,
Secretary, NFPA Standards Council
1 Batterymarch Park
Quincy, Massachusetts 02169-7471

Dear Secretary Bellis,

Re: NFPA 1-2018 Edition
    Fire Code
    TIA Log No.: 1362

California Air Resources Board (CARB) staff supports changes to National Fire Protection Association Code 1 (NFPA 1) that would require portable generator exhaust termination to be farther from buildings, which would help prevent possible exhaust intrusion into buildings. The minimum distance of five feet from any openings or air intakes in section 11.7.2.2 of NFPA 1 is inadequate to prevent injury, illness, or death from carbon monoxide (CO) poisoning caused by exhaust intrusion into a building. CARB supports increasing the minimum distance to greater than five feet to help provide health and wellness benefits to those using portable generators.

Portable generator engines produce large emissions of CO, with current California standards set at 549 grams per kilowatt-hour. A new 10-kilowatt portable generator engine could emit up to 5,490 grams of CO per hour without violating the California emission standard. In contrast, the average new car in 1969 emitted 839 grams per hour at idle\textsuperscript{1}. In 1989, the average new car emitted only 13.2 grams per hour\textsuperscript{1}, significantly less than what even a 1-kilowatt portable generator engine could produce. Many new cars today emit CO at even lower levels. Deaths from CO poisoning have decreased with decreasing automobile CO emissions, with 13 percent fewer deaths attributed to CO poisoning in 2014 than in 1999\textsuperscript{2}. Death and injuries caused by portable generators continue to occur at unacceptable rates, often due to inadequate distance of the exhaust discharge from an inhabited structure. The Consumer Product Safety Commission estimates there are over 2,800 medically-attended injuries due to CO exposure from generators in the U.S. each year\textsuperscript{3}. Additionally, during the period 2005-2016, there have been 38 incidents, with 52 fatalities, due to CO exposure from generators running outdoors\textsuperscript{4}.

The higher CO emissions from portable and stationary generators often lead to high CO concentrations in the vicinity of these generators and, therefore, have a negative impact on health and safety. Exposure to moderate levels of CO can cause headache,
dizziness, vomiting, nausea, and aggravation of angina and other cardiovascular diseases. Exposure to high levels of CO can lead to unconsciousness or death. While moving all generator exhaust farther from buildings will not replace more stringent standards on CO emissions, it will reduce potential harm to people in the immediate vicinity of the generators. California’s current CO emission standards for portable generators provide protection for ambient air quality, and this proposed rule change directly addresses the remaining issue of CO levels in the area most directly affected by emissions. Increasing the minimum distance for exhaust to greater than five feet from any openings or air intakes would provide greater protection to occupants in buildings near where portable generators are in use.

We look forward to these changes reducing injury, illness, and death caused by CO from generator usage.

Sincerely,

Catherine Dunwoody, Chief
Monitoring and Laboratory Division

1. Revise 3.3.10 to read as follows:
   
   **3.3.10* Electronic Monitoring.** Either a local alarm device to indicate when an extinguisher is removed from its designated location or a method of electronic communication (data transmission) between an in-place fire extinguisher and an electronic monitoring device/system. A method of electronic communication (data transmission) between an in-place fire extinguisher and an electronic monitoring device/system.

2. Revise 6.1.3.3.1 and 6.1.3.3.2 to read as follows:
   
   **6.1.3.3.1 Fire extinguishers shall be installed in locations where they are visible except as permitted by 6.1.3.3.2 not be obstructed or obscured from view.**
   
   **6.1.3.3.2* In large rooms and in certain locations where visual obstructions cannot be avoided, signs or other means shall be provided to indicate the extinguisher location.**

3. Revise 6.1.5 to read as follows:
   
   **67.1.5 Electronic Monitoring and Alarm Systems.** Where an electronic monitoring and alarm system is installed, 6.1.5.1 and 6.1.5.2 shall apply.

   **6.1.5.1 The connection to the electronic monitoring device shall be continuously supervised for integrity.**

   **6.1.5.2 The power source for the electronic monitoring device shall be supervised for continuity of power.**

   **7.1.5.1 When used in conjunction with fire alarm systems, fire extinguisher electronic monitoring devices shall be inspected and maintained in accordance with NFPA 72, National Fire Alarm and Signaling Code, and 7.6.1.**

   **7.1.5.2 When used in conjunction with non-fire-alarm systems, fire extinguisher electronic monitoring devices shall be inspected and maintained as required in 7.1.5.2.1 through 7.1.5.2.3 and the manufacturer's listed installation and maintenance manual(s).**

   **7.1.5.2.1 The connection to the electronic monitoring device shall be continuously supervised for integrity.**

   **7.1.5.2.2 The power source for the electronic monitoring device shall be supervised for continuity of power.**

   **7.1.5.2.3 The monitoring device shall be tested and maintained annually in accordance with 7.6.1.**

4. Revise 7.2.2 to read as follows:
   
   **7.2.2 Inspection Procedures.** Periodic inspection or electronic monitoring of fire extinguishers shall include a check of at least the following items:

   (1) Location in designated place

   (2) Visibility of the extinguisher or means of indicating the extinguisher location. No obstruction to access or visibility

   (3) Access to the extinguisher. Pressure gauge reading or indicator in the operable range or position
(4) Pressure gauge reading or indicator in the operable range or position Fullness determined by weighing or hefting for the self-expelling-type extinguishers, cartridge-operated extinguishers, and pump tanks

(5) Fullness determined by weighing or hefting Condition of tires, wheels, carriage, hose, and nozzle for wheeled extinguishers

(6) Condition of tires, wheels, carriage, hose, and nozzle for wheeled extinguishers Indicator for nonrechargeable extinguishers using push-to-test pressure indicators

(7) Indicator for nonrechargeable extinguishers using push to test pressure indicators

7.2.2.1 The owner or the owner's agent shall determine the method of extinguisher inspection such as manual inspection, electronic monitoring, or any combination of the two.

7.2.2.2 Any method(s) of inspection other than manual inspection shall require the approval of the authority having jurisdiction.

7.2.2.31 In addition to 7.2.2, fire extinguishers shall be visually inspected in accordance with 7.2.2.42 if they are located where any of the following conditions exists:

(1) …
(2) …
(3) …
(4) …

7.2.2.42 Where required by 7.2.2.31, the following inspection procedures shall be in addition to those addressed in 7.2.2:

(1) …
(2) …
(3) …

7.2.2.53 Inspection Procedure for Containers of Class D Extinguishing Agent. Periodic inspection of containers of Class D extinguishing agent used to protect Class D hazards or electronic monitoring of fire extinguishers shall include verification a check of at least the following items:

(1) Located in designated place
(2) Visibility of the container or means of indicating the container location No obstruction to access or visibility
(3) Access to the container Pressure gauge reading or indicator in the operable range or position
(4) Lid is sealed Fullness determined by weighing or hefting for the self-expelling-type extinguishers, cartridge-operated extinguishers, and pump tanks
(5) Fullness by hefting or weighing Condition of tires, wheels, carriage, hose, and nozzle for wheeled extinguishers
(6) No obvious physical damage to container Indicator for nonrechargeable extinguishers using push-to-test pressure indicators

5. Delete 7.2.4.2.2 and renumber subsequent paragraph as follows:

7.2.4.2.2 Records for electronic monitoring shall be kept to demonstrate that at least the last 12 monthly inspections have been performed.

7.2.4.2.32 …

6. Revise Annex A.3.3.10 to read as follows:

A.3.3.10 Electronic Monitoring. One form of electronic monitoring is a local alarm device to indicate when an extinguisher is removed from its designated location. Electronic monitoring can also be accomplished utilizing low-voltage wiring or a wireless communication method. Some devices can convey information regarding about an in-place fire extinguisher that includes status, removal, pressure level, weight, and presence, condition, and whether there is
an obstruction to the extinguisher. of objects in the vicinity of an extinguisher. Electronic monitoring can be considered for one or more satisfy many of the monthly inspection requirements currently within the standard, monitor the extinguisher at more frequent intervals if desired or when more frequent inspections are required, and create an electronically maintained record of the fire extinguisher.

**Substantiation:** The changes made to NFPA 10 regarding the technology to electronically monitor fire extinguishers have reduced fire life standards by drastically limiting the technology’s recognized use. The changes are also in direct conflict the Section 1.2.2 of the NFPA 10 Standard for Portable Fire Extinguishers.

3.3.10 The change in the wording is intended for the Standard to recognize a non-listed, non-supervised anti-theft device that can monitor for location and removal and does not meet the previous requirements for monitored extinguisher technology as called out in NFPA-10 2007/2010 and correlated with NFPA 72.

We know of no other instance in ALL of the NFPA codes where a Standard is reduced to recognize a non-listed, non-supervised device that’s purpose is to alert the occupants.

Accepting a lesser threshold of monitoring reduces life safety and sets a tremendously bad precedent for the code. All monitoring devices should be held to the same high standard whether the signal is local or communicated back to a panel.

6.1.3.3.1 The NFPA-10 Standard read “Fire extinguishers shall not be obstructed or obscured from view.” This has now been totally eliminated from the Standard and replaced with the term “Fire extinguishers shall be installed in locations where they are visible.”

Aside from completely lessening the threshold of safety, the change means that NFPA-10 no longer uses the same terminology that is referenced within NFPA, the National Electrical Code, OSHA and other code bodies.

- **NFPA 72, 2016 17.14.8.2 Manual fire alarm boxes shall be installed so that they are conspicuous, unobstructed, and accessible.**
- **1910.303(h)(4)(i)(A) On switchboard and control panels exceeding 1.83 m (6.0 ft) in width, there shall be one entrance at each end of such boards unless the location of the switchboards and control panels permits a continuous and unobstructed way of exit travel**

Our technology was designed, and has been recognized within these codes to detect and alert when a fire extinguisher’s access is obstructed. The technology was designed based on the established NFPA Code. The elimination of the term obstruction from NFPA-10 is yet another intentional tweak to diminish the effectiveness of recognized technology and makes the Standard’s accessibility requirements different from the rest of the Code.

Additionally this change directly contradicts Section 1.2.2 that states “Nothing in this standard shall be considered as a restriction on new technologies or alternative arrangements, provided that the level of protection as herein described is not lowered and is acceptable to the authority having jurisdiction.”

6.1.3.3.2 Accessibility cannot be properly addressed with signage. See explanation in 6.1.3.3.1
6.1.5 In 2013 Chapter 6, Section 6.1.5 (5.1, 5.2) was added, and as a result Chapter 7 Section 7.1.5, 7.1.5.1, 7.1.5.2 (5.2.1 – 5.2.3) was removed. This change needs to be undone.

The addition of the 6.1.5 related text lessens the requirements for monitored technology to be accountable. And the changes implemented undo the correlation of NFPA-10 to NFPA-72.

The 7.1.5 related text in the 2010 edition ensures accountability, integrity, supervision, correlation and the use of the technology with non-fire alarm systems (which includes localized signaling devices). This wording needs to be reinstated.

7.2.2 The changes to the monthly inspection requirements are perhaps the most blatant moves put forth to undermine the recognized technology. The 2007 NFPA-10 Committee worked hard to reorganize the monthly inspection criteria. It was identified that many of the monthly inspection checks asked of the occupancy owner, was also part of the annual inspection done by an outside certified FED.

An example of an unnecessary change reintroduced to the NFPA-10 Standard is the re-adoption of the outdated practice of having to physically “heft” a fire extinguisher monthly.

“Hefting” was a practice that was once required to determine if the fire extinguisher was full, and to ensure the chemical powder would not cake inside the extinguisher. However extinguishing agents were modified years ago and are now made with silicone like additives. This change in material is highlighted in Section 3.3.4.1 which states, “Dry Chemical. A powder composed of very small particles, usually sodium bicarbonate, potassium bicarbonate, or ammonium phosphate based with added particulate material supplemented by special treatment to provide resistance to packing, resistance to moisture absorption (caking), and the proper flow capabilities.” Furthermore, the first sentence from the Amerex web page describing dry chemical fire extinguishers; “REGULAR extinguishers contain a siliconized sodium bicarbonate based dry chemical with free flowing and non-caking additives” [http://amerex-fire.com/products/regular-dry-chemical-stored-pressure-sodium-bicarbonate-extinguishers/](http://amerex-fire.com/products/regular-dry-chemical-stored-pressure-sodium-bicarbonate-extinguishers/).

The 2007 Committee recognized that a gauged fire extinguisher uses the same extinguishing agents as gauged fixed systems and wheeled units yet it’s impossible to “heft” either, and therefore there isn’t a requirement to do so. The same should apply to the smaller extinguishers. Additionally, the 2007 Committee determined that “hefting” was not a scientific method of inspection. The technical committee felt inspection criteria must have definable measurable that are consistent and repeatable, no matter who does the inspection. It was deemed that a human arm cannot be “properly calibrated”, and thus “hefting” is left up to interpretation rather than definable criteria.

As a result, “hefting” and other items once required of the building owners’ monthly inspection became part of the annual maintenance check by a licensed technician. This is obviously practical common sense. In fact, the 2013 NFPA-10 Technical Subcommittee recommended not changing the monthly inspection criteria, yet somehow the outdated practice, which cannot be addressed cost effectively by technology, was reinserted and now is part of the monthly check.

The other major change to the monthly inspection criteria was the removal to inspect for obstruction to the extinguisher. This is addressed in comment 6.1.3.3.1 7.2.2.1 The addition of allowing the owner or the owner’s agent (fire extinguisher distributor?) to determine the means of inspection is both an unnecessary addition, and can be interpreted as a way to make
implementing monitored technology more difficult. This and 7.2.2.2 were added following the 2012 code change in New Hampshire and is meant to directly undermine the authority of a governing body.

7.2.2.2 This is perhaps the most egregious of all the changes in the 2013 / 2018 editions of NFPA-10. This clause can be directly tied to the efforts of the fire extinguisher industry to undermine the authority of the New Hampshire State Fire Marshal following the 2012 code recognition of the technology as a mandated solution. This clause is directly questioning the authority of a governing body to determine code requirements.

It is no coincidence that the wave of changes that occurred in ’13 & ’18 follow on the 2012 code enhancement in New Hampshire. The numerous changes that have been adopted in NFPA-10 regarding monitored extinguishers, have been directly used in the state of New Hampshire to attack the code, and those enforcing it.

Monitored technology for extinguishers is recognized, correlated and proven. To require a local AHJ to now sign off on the technology each and every time a user wants to install, creates a tremendous barrier to use the technology, and gives local officials the means to ignore the actions of governing bodies.

7.2.2.5 The wording in this mirrors the inspection criteria for 2018. If the committee has created a new step for Class D Extinguishers, the language for inspecting it should mirror the 2010 requirements.

7.2.4.2.2 The addition of 7.2.4.2.2 is in direct conflict with 7.2.4.2.3, which was the only language in ’07 & ’10 regarding electronic record keeping and correlated with NFPA-72. This addition all but undoes the equivalency of the physical monthly inspection that technology offers and directly contradicts Section 1.2.2 that states “Nothing in this standard shall be considered as a restriction on new technologies or alternative arrangements, provided that the level of protection as herein described is not lowered and is acceptable to the authority having jurisdiction.”

A.3.3.10 This addendum undoes the wording in 2007 and 2010 with the intent to undermine the recognized technology while creating an unfair opportunity for a non-listed, non-supervised theft deterrent.

For the record en-Gauge welcomes the technology being introduced to the code as long as it’s held to the same level of accountability as all other life safety technologies. Even stand-alone smoke detectors must be listed and signal for power loss.

**Emergency Nature:** The NFPA Standard contains a conflict within the NFPA Standards or within another NFPA Standard. 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. 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. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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 of the action.
End users who have been successfully using monitored extinguisher technology for years are now being told that they are no longer compliant and are looking for immediate guidance.
MEMORANDUM

TO: Technical Committee on Portable Fire Extinguishers

FROM: Yiu Lee, Project Administrator

DATE: June 28, 2018

SUBJECT: NFPA 10 Proposed TIA No. 1378 PRELIMINARY TC BALLOT RESULTS

According to 5.6(a) in the NFPA Regs, the preliminary results show this TIA HAS NOT achieved the ¾ majority vote needed on both Ballot Item No. 1 (Technical Merit) and Ballot Item No. 2 (Emergency Nature).

28 Eligible to Vote
4 Not Returned (Kirkwood, Lessar, M. Smith, Sun)

<table>
<thead>
<tr>
<th>Technical Merit:</th>
<th>Emergency Nature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Abstentions</td>
<td>0 Abstentions</td>
</tr>
<tr>
<td>3 Agree</td>
<td>3 Agree</td>
</tr>
<tr>
<td>21 Disagree (Addleman, Austin, Brady, Bramwell, Brohmer, Carpenter, Conroy, Farruggia, Horst, Johnson, Jones, Jr., Makowka, Nash, Nerat, Peake, Phelan, Qualls, Rocheleau, Shugarman, Swanson, Tidwell)</td>
<td>21 Disagree (Addleman, Austin, Brady, Bramwell, Brohmer, Carpenter, Conroy, Farruggia, Horst, Johnson, Jones, Jr., Makowka, Nash, Nerat, Peake, Phelan, Qualls, Rocheleau, Shugarman, Swanson, Tidwell)</td>
</tr>
</tbody>
</table>

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

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

\[28 \text{ eligible } \div 2 = 14 + 1 = 15\]

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

\[(28 \text{ eligible to vote} - 4 \text{ not returned} - 0 \text{ abstentions} = 24 \times 0.75 = 18)\]

Ballot comments are attached for your review.
This proposed TIA has been published for public comment in the June 2018 issue of NFPA News with a Public Comment Closing Date of July 19, 2018. Any public comments received will be circulated to the committee.
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

_________ AGREE  ______ X_____ DISAGREE*  ________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

The proposed TIA requests more than one change to the standard. It requests changes that have evolved over several editions of the standard. Such requested changes should be proposed as changes to the standard during the normal revision process.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____ A. The standard contains an error or an omission that was overlooked during the regular revision process.

_____ B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

_____ 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 NFPA Standard 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.

__________ ABSTAIN

____ X_____ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

The proposed TIA requests changes to the standard that have been in the standard for several cycles (years). The proposed TIA does not explain why, all of a sudden, the TIA is needed to correct an emergent situation for language that has been in the standard for as long as it has.

__________________________
Signature

__________________________
June 7, 2018

__________________________
Date
PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169  FAX: (617) 984-7110  E-mail: vlee@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

AGREE

X DISAGREE*

ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

The submitter seems to primarily be concerned with the use of non-listed electronic monitoring equipment, but none of his recommended changes would invoke or alter any requirements relating to listing of electronic monitoring equipment. While some of the proposed changes presented may warrant additional discussion during the next revision cycle for this standard (example – the use of the term “obstructed” vs “visible”, none of the recommended changes substantially improve or clarify the requirements or application of this standard from how it is currently written. I do not see how any of the current standard language would in any way limit the authority of an AHJ, nor do I believe that the current language makes it any harder or easier to sell electronic monitoring equipment, nor should it.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

A. The standard contains an error or an omission that was overlooked during the regular revision process.

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C. The proposed TIA intends to correct a previously unknown existing hazard.

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F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard has resulted in an adverse impact on a product or method that was inadvertent overlooked in the total revision process or was without adequate technical (safety) justification for the action.

ABSTAIN

X DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

The submitter did not provide adequate specifics to articulate their argument relating to the emergency nature of this TIA effectively. I do not see how any of these items apply to the proposed change.

_____________________________
Signature

_____________________________
Date

Bradley J. Austin
Name (Please Print)

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169
FAX: (617) 984-7110 E-mail: vlee@nfpa.org

June 7, 2018
Page 5 of 32
TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1378
Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

[ ] AGREE  [X] DISAGREE*  [ ] ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

[ ] Did not agree with his technical merits

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

[ ] A. The standard contains an error or an omission that was overlooked during the regular revision process.

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[ ] 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 NFPA Standard 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.

[ ] ABSTAIN  [X] DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

[ ] SEE NO ADVERSE IMPACT ON NFPA 10

[ ] Andrew J. Brady  [ ] 6/13/18

Signature Date

[ ] Andrew T. Brady

Name (Please Print) Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169  FAX: (617) 984-7110  E-mail: vlee@nfpa.org

August 7, 2018  Supplemental Agenda Standards Council Meeting August 13-15, 2018  Page 521 of 1900
TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOGBOOK
Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

AGREE                     X                  DISAGREE*                     ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
This should be looked at during the next code revision cycle for public input, not now.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

   A. The standard contains an error or an omission that was overlooked during the regular revision process.
   B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.
   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 NFPA Standard 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.

ABSTAIN

X    DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
None of the above qualify to be an emergency.

Date 6/4/2018

Darrin Bramwell
Name (Please Print)

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169   FAX: (617) 984-7110   E-mail: pearroll@nfpa.org
TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1378

Revise Sections 3.3.10, 6.1.3.1, 6.1.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.1, 6.1.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

_______ AGREE _______ DISAGREE* _______ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a "disagree" or "abstain" vote.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_______ A. The standard contains an error or an omission that was overlooked during the regular revision process.

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_______ 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 accommodate 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 NFPA Standard 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.

_______ ABSTAIN _______ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a "disagree" or "abstain" vote.

___________________________       ________________
Signature                      Date

June 5th, 2018

Name (Please Print)

Dennis D. Brohmer

Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169    FAX: (617) 984-7110    E-mail: ylee@nfpa.org

August 7, 2018        Supplemental Agenda Standards Council Meeting August 13-15, 2018        Page 523 of 1900
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

_________ AGREE _______ X _______ DISAGREE* _________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
The TIA is proposing revisions to multiple sections of the standard which have been revised over the past several revisions of the document through the normal revision process with consideration by the TC. Based on these changes should be submitted in the next revision of the standard and be subject to public review and consideration by the TC. The changes proposed also do not appear to solve the issues of the submitter which are centered on the use of non-listed electronic monitoring equipment.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

______ A. The standard contains an error or an omission that was overlooked during the regular revision process.

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______ F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

_________ ABSTAIN

______ X____ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
I do not believe the changes proposed in the TIA meet any of the requirements of emergency nature noted above. The revisions appear to be going back to text in previous editions which gone through the normal revision process.

_________________________ _21 June 2018___________
Signature Date

Jonathan Carpenter_____

Name (Please Print)
Please return the ballot on or before June 27, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169 FAX: (617) 984-7110 E-mail: ylee@nfpa.org
August 7, 2018 Supplemental Agenda Standards Council Meeting August 13-15, 2018 Page 524 of 1900
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

AGREE  X  DISAGREE*  ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:
*An explanation shall accompany a “disagree” or “abstain” vote.

The proposed TIA has many flaws and the substantiation provides arguments that are confusing, are not convincing, and often don’t support the recommended changes. One example is where the substantiation provides several paragraphs regarding the submitters’ opposition to “hefting”, but the recommended text includes “hefting”.

Many of the proposed changes are unnecessary editorial changes. Current text is very clear and provides enforceable minimum requirements. Proposed editorial changes are not in compliance with NFPA Manual of Style. Editorial changes are not justified in substantiation.

The TC spent much time locating text in appropriate chapters. Recommendation is to move text to locations that make no sense and substantiation provides no justification for those moves. Also, text is duplicated with the renumbering. Minimum requirements should appear in one location only.

Although many of the proposed changes to text are not justified, here are reasons for not accepting those changes:
- The current 3.3.10 definition reflects how the term is used in the standard (see 7.2.1.4).
- 6.1.3.3.1 and 6.1.3.3.2 are in the installation chapter and both paragraphs now provide installation requirements. Installing an extinguisher so that it is visible is an appropriate installation requirement. Stating that it “not be obstructed or obscured from view” says the same thing, but is not stated as an installation requirement. The words “except as modified by 6.1.3.3.2” recognizes that there is an allowance in 6.1.3.3.2 that is not stated in 6.1.3.3.1. Adding the word “signs” recognizes the most common type of means to indicate extinguisher location and is an aid to users of the standard. The terms “large” and “certain” were deleted as they are unenforceable. The current text requires that any location where there are visual obstructions a sign or other means must be installed as an aid to locate the extinguisher.
- Paragraphs 6.1.5.1 and 6.1.5.2 are in the installation chapter, which is very appropriate. Moving them to chapter 7 is not appropriate as they do not contain any inspection or maintenance requirements. Chapter 6 is the installation chapter and chapter 7 addresses inspection, maintenance and recharging. The text is currently located in the correct chapter and should not be moved to chapter 7.
- Section 7.2.2 was updated to provide separate line items for “visibility” and “access”. Visibility (or extinguisher sign) is important to identify the location of the extinguisher. All extinguishers need to be readily accessible during a fire emergency. Extinguisher inspections and electronic monitoring should ensure both that the extinguisher is visible and accessible. The proposed text provides no substantive change to the existing text.
- Electronic monitoring can be substituted for manual inspections for certain checks of extinguishers. Persons that own or lease extinguishers should have the option of deciding on which types of inspections or monitoring they want. Some owners/lessees of extinguishers only want electronic monitoring as a theft deterrent (e.g. universities). If an extinguisher is monitored for theft only, 7.2.1.4 allows electronic monitoring for location only, but also says that these extinguishers need to be manually inspected in accordance with 7.2.1.4. Since there may be products that can be used for electronic monitoring that are not suitable for the purpose of electronically monitoring of extinguishers, paragraph 7.2.2.2 requires the approval of the AHJ.

- 7.2.4.2.2 and 7.2.4.1.4 require electronic records be kept to demonstrate that at least the last 12 monthly inspections have been performed. The requirements are the same for manual inspections and electronic monitoring (7.2.4.2.2 is for electronic monitoring and 7.2.4.1.4 is for manual inspections).

- A.3.3.10 provides further information on the definition and how it should be applied to the standard.

**Ballot Item No. 2:**

1 AGREE that the subject is of an **EMERGENCY NATURE*** for one or more of the following reasons (Check all that apply):

- A. The standard contains an error or an omission that was overlooked during the regular revision process.
- B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.
- 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 NFPA Standard 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.

ABSTAIN

X DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

**EXPLANATION OF VOTE** - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

After reviewing the possible reasons for emergency nature, none of them match the proposed TIA. There is no emergency nature for this proposed TIA. Processing proposed changes during the normal revision process is more appropriate for this material. The three-step process (public input, public comments, and NITMAM/certified motions) will allow adequate opportunity for the TC to determine the most appropriate changes to NFPA 10.
Mark Conroy
Name (Please Print)
Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169 FAX: (617) 984-7110 E-mail: vlee@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

AGREE   X  DISAGREE*   ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
See attached

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

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ABSTAIN

X  DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
See attached

Signature: Tom Fercuglia
Date: 6/14/18

Name (Please Print)

Tom Fercuglia

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169
FAX: (617) 984-7110  E-mail: ecarroll@nfpa.org

August 7, 2018
Supplemental Agenda Standards Council Meeting August 13-15, 2018
Page 528 of 1900
Explanation of Disagreement of the Merit-Worthiness and Emergency Nature of TIA Log 1378

(Submitted by Tom Farruggia 6/4/18)

Merit-Worthiness:

3.3.10 The TIA submitter suggests that non-listed devices would now be welcomed by the technical committee. That is not the case as this section is written.

6.1.3.3.1 This section, as written, puts the emphasis squarely where it belongs... on the visibility of the fire extinguisher and it does so in a positive and succinct manner.

6.1.3.3.2 This section currently specified the use of “signs and other means” – which would include electronic monitoring. “Other means” also keeps the door open for new methods, inventions, technologies.

6.1.5 The current section 7.6.2 adequately specifies compliance with NFPA 72.

7.2.2 “Hefting” a fire extinguisher during inspection is not outdated. Rather, it provides very important information as to the full or empty status of the fire extinguishing during an inspection. It was never intended, nor expected, that an end user who hefted a fire extinguisher could precisely determine the amount of discrepancy from the prescribed full weight. “Hefting” is meant to expose an obvious problem with the weight of a fire extinguisher and it serves as one of many important steps to take during a proper inspection.

7.2.2.2 This standard recognizes that the AHJ is the final authority on acceptance of products and enforcement in their respective jurisdictions – regardless of what NFPA 10 prescribes. Therefore the New Hampshire Fire Marshal and any other state’s fire marshal can change their respective codes to meet their specific requirements.

Emergency Nature:

I do not believe that the issues presented by the submitter of the TIA pose an urgent need to make immediate changes.
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

_______ AGREE  _______ DISAGREE*  _______ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

The submitter seems to want to just revert back to previous language. I do not see where current language limits any particular monitoring equipment. Should be addressed in next revision.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_______ A. The standard contains an error or an omission that was overlooked during the regular revision process.

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_______ ABSTAIN

_______ X____ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

Had opportunity to present during Public input in the process. Can submit during the next revision, see no emergency nature.

____ Carl Horst _____________ 6-26-2018 ______________

Signature Date

Name (Please Print)

Please return the ballot on or before June 27, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169  FAX: (617) 984-7110  E-mail: vlee@nfpa.org
TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO 13/78
Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

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_______ AGREE  ________ DISAGREE*  ________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

The TIA as it is presented does not provide significant evidence for its arguments that should be addressed by TIA vs during the normal revision process.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_______ A. The standard contains an error or an omission that was overlooked during the regular revision process.
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_______ F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

_______ ABSTAIN  ________ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

The TIA does not provide evidence of a situation that requires changes of an Emergency nature.

Signature  
Date  6/11/2018

Name (Please Print)  ARDOS  
PLEASE RETURN TO:  
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169  FAX: (617) 984-7110  E-mail: ylee@nfpa.org

August 7, 2018  Supplemental Agenda Standards Council Meeting August 13-15, 2018  Page 531 of 1900
TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 13/09
Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

_________ AGREE 
_________ X ______ DISAGREE* 
_________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:
*An explanation shall accompany a “disagree” or “abstain” vote.

The proposal merely reverts to language from the NFPA 10 2010 edition without addressing the technical aspects of the reversion.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):


_________ ABSTAIN

_________ X ______ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:
* An explanation must accompany a “disagree” or “abstain” vote.

There are no reasons given by the submitter that justify the emergency nature of this proposal.

Signature __________________________ Date 09/5/18

Name (Please Print) Guy Jones

Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA 1 Batterymarch Park Quincy, MA 02169

E-mail: ylee@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

_______ AGREE    ____ X ______ DISAGREE*    ________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
_Please see attachment

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____ A. The standard contains an error or an omission that was overlooked during the regular revision process.

_____ B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

_____ 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 NFPA Standard 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.

_______ ABSTAIN

____ X ______ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
_Please see attachment

_________ June 4, 2018 ____________
Signature          Date

Norbert W Makowka
Name (Please Print)

Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169   FAX: (617) 984-7110   E-mail: ecarroll@nfpa.org
Ballot Item No. 1

Explanation of Vote:

Section 3.3.10
The current Edition of the Standard does not recognize the use of a non-listed device; it states that there could be other devices that can be used to monitor the extinguisher.

Section 6.1.3.3.1 and 6.1.3.3.1
Many extinguishers are located in areas where the extinguisher is not easily visible because of the location of permanent building components, machinery, parked vehicles, etc. They are not obscured from view but there location is not readily visible, therefore the use of signage or color coding of columns is a method to identify the location of these extinguishers.

Section 6.1.5
NFPA 72 Chapter 17 states the same requirement that is contained in the current edition of NFPA 10, if electronic monitoring is provided for fire extinguishers, any trouble signal should be connected to the building fire alarm system. NFPA 72 does require monitoring of fire extinguishers nor does it require a building fire alarm system for occupancies that have monitored fire extinguishers.

Section 7.2.2
Hefting of fire extinguisher was standard practice during inspections of fire extinguishers to determine that the extinguisher was full and had nothing to do with fluffing the dry chemical, stirring the water, mixing of agents, shaking up the carbon dioxide. The 2010 Edition of NFPA still recognized the importance of "weighing or hefting for self-expelling-type fire extinguishers, cartridge-operated extinguishers, and pump tanks. If verification of the fullness of was considered important enough to be a required inspection procedure for these types of extinguishers it should also be required for all types of extinguishers.

There was no "blatant move" of the part of the committee to undermine any technology or manufacturer; I personally am insulted that this implication was made against the integrity of members of the NFPA 10 Technical Committee.

Section 7.2.2.2
All of NFPA standards defer to the rights of the AHJ to recognize or modify the standard or codes when they are adopted by the jurisdiction. The New Hampshire State Fire Marshal still has the right to modify the requirement of NFPA 10 for the state.

Ballot Item No. 2

Most of the items raised by the submittor of the TIA were included in the 2013 Edition of NFPA 10 and revised in the 2018 Edition. The submitter never submitted a Public Comment, NITMAN, or TIA regarding the 2013 Edition nor did he submit a Public Input, Public Comment or NITMAM regarding the 2018 Edition. I fail to see how these changes can be an emergency nature when no one submitted a Public Input or Comment throughout the NFPA revision process.

As a representative of the largest trade association for fire extinguisher service companies (National Association of Fire Equipment Distributors) I have never heard a complaint or comment regarding these changes that were included in the 2013 Edition or the 2018 Edition. Since the main elements addressed in the TIA have been in the standard for 5 years and two revision cycles without any inputs or comments I do think they can be considered an emergency nature.

February 6, 2009
TECHNICAL COMMITTEE LETTER BALLOT

PROPOSED TENTATIVE INTERIM AMENDMENT L05-

Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

AGREE ________ X ________ DISAGREE* ________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
The proposed changes creates inconsistencies within the standard. Proposed changes to 6.1.3.3.1 and 6.1.3.3.2 are not consistent with the other sections of 6.1.3.3. The proposed movement of 6.1.5 to Chapter 7 confuses installation requirements as inspection and maintenance requirements.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

A. The standard contains an error or an omission that was overlooked during the regular revision process.

B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

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 NFPA Standard 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.

ABSTAIN ________ X ________ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature.

EXPLANATION OF VOTE - Please type or print your comments:

An explanation must accompany a “disagree” or “abstain” vote.
No specific were provided to substantiate the emergency nature of the proposed TIA. While comments in proposal suggests increased competition, it does not indicate increased restriction to the marketplace.

Signature ________________ Date ________________

Louis Nash
Name (Please Print)
Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169 
FAX: (617) 984-7110  
E-mail: vlee@nfpa.org

August 7, 2018 Supplemental Agenda Standards Council Meeting August 13-15, 2018 Page 535 of 1900
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

AGREE X DISAGREE* ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
Feel the technical merit and rational provided are generally problematic and in some cases incorrect or flawed. Proposed change recommendations do not properly consider other existing equipment needs.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

A. The standard contains an error or an omission that was overlooked during the regular revision process.
B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.
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.
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F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

ABSTAIN

X DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Do not believe this proposal is of an emergency nature, as the language issues being raised date back over 4 previous editions of the standard and existing language does not restrict anyone from marketing various electronic monitoring products based upon their given merits.

R. Nera
Name (Please Print)

Signature Date

Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169 FAX: (617) 984-7110 E-mail: ecarroll@nfpa.org

August 7, 2018 Supplemental Agenda Standards Council Meeting August 13-15, 2018 Page 536 of 1900
**Ballot Item No. 1:**

I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

_________ AGREE  _______X_ DISAGREE*  _______ ABSTAIN*

**EXPLANATION OF VOTE** - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.*

The TIA proposes many changes which have been previously reviewed by the committee.

**Ballot Item No. 2:**

I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____ A. The standard contains an error or an omission that was overlooked during the regular revision process.

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_____ F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

_________ ABSTAIN  _______X____ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

**EXPLANATION OF VOTE** - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

The proposed language should be submitted during the as a PI during the next cycle if the submitter wishes to address the issues.

_________ 6/4/2018

Signature  

Lennon Peake  

Date
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

_______ AGREE ___________________________ XXXXX___ DISAGREE* ___________________________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:
*An explanation shall accompany a “disagree” or “abstain” vote.

The proposed language is broad and wide ranging leading to the inevitable dilemma that this ballot must be accepted in its entirety or none at all. While I personally do see issue with some of the current vs. TIA language the problem is that the TIA process is ill suited to address so many topics and arguments in a single pass. The current language may indeed need revision but something of this extent is best suited to the standard revision process and individual task groups focused on specific elements raised within this TIA application.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____ A. The standard contains an error or an omission that was overlooked during the regular revision process.

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_____ F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

_______ ABSTAIN

_______ XXXXX DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:
* An explanation must accompany a “disagree” or “abstain” vote.

While there may be a need for the technical committee to revisit some of the points raised in this TIA application as part of the next revision cycle a single ballot to encompass so many changes is inherently problematic without benefit of the complete committee operating in the open forum process of revision cycle.

_________________________
Signature

_________________________ June 17, 2018
Date

August 7, 2018 Supplemental Agenda Standards Council Meeting August 13-15, 2018 Page 539 of 1900
DAVID T. PHELAN
Name (Please Print)
Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169 FAX: (617) 984-7110 E-mail: vlee@nfpa.org
TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO: 1378
Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

AGREE DISAGREE* ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

A. The standard contains an error or an omission that was overlooked during the regular revision process.
B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.
C. The proposed TIA intends to correct a previously unknown existing hazard.
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F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

ABSTAIN DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

Clearly not an emergency nature 6/19/2018

Signature:
Scott Qualls

Date:

Name (Please Print)

Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169 FAX: (617) 984-7110 E-mail: ecarroll@nfpa.org
TECHNICAL COMMITTEE LETTER BALLOT P-11
PROPOSED TENTATIVE INTERIM AMENDMENT LO NO. 18
Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

__________ AGREE _________ X _______ DISAGREE* _________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:
*An explanation shall accompany a “disagree” or “abstain” vote.
If this was a concern during the code adoption process why did this not come up during the code adoption process during the last cycle in public comment.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____ A. The standard contains an error or an omission that was overlooked during the regular revision process.

_____ B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.

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_____ F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

__________ ABSTAIN _______ X _______ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:
* An explanation must accompany a “disagree” or “abstain” vote.
Don’t see how this proposed TIA is an emergency and given the opportunity for public comment during the last code adoption process see anything that can’t wait until the next code cycle.

[Signature]
Name (Please Print) August 7, 2018
[Date] Supplemental Agenda Standards Council Meeting August 13-15, 2018
Page 542 of 1900
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

AGREE  X  DISAGREE*  ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

The amendments proposed return most wording to previous versions of the standard that have been proposed for revision, allowed a comment period, and subsequently balloted and published.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

A. The standard contains an error or an omission that was overlooked during the regular revision process.
B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.
C. The proposed TIA intends to correct a previously unknown existing hazard.
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F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

ABSTAIN  X  DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

Having several cycles of the standard pass through the balloting of the Technical Committee and now having amendments proposed that return most wording to previous versions of the standard, I disagree with the emergency nature of this TIA.

Blake M. Shugerman
Signature

Date

Blake M. Shugerman

Name (Please Print)

Please return the ballot on or before June 18, 2018.

PLEASE RETURN TO: Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169    FAX: (617) 984-7110    E-mail: ecarroll@nfpa.org

August 7, 2018    Supplemental Agenda Standards Council Meeting August 13-15, 2018    Page 544 of 1900
TECHNICAL COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOGBOOK
Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers

**Ballot Item No. 1:**
I agree with the **TECHNICAL MERITS** of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph.

[ ] AGREE [x] DISAGREE* [ ] ABSTAIN*

**EXPLANATION OF VOTE** - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

I DO NOT AGREE WITH THE NECESSITY OF THESE CHANGES

**Ballot Item No. 2:**
I AGREE that the subject is of an **EMERGENCY NATURE** for one or more of the following reasons (Check all that apply):

[ ] A. The standard contains an error or an omission that was overlooked during the regular revision process.
[ ] B. The NFPA Standard contains a conflict within the NFPA Standard or with another NFPA Standard.
[ ] 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 NFPA Standard 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.

[ ] ABSTAIN [x] DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

**EXPLANATION OF VOTE** - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

CHANGES SUCH AS THESE SHOULD BE INTRODUCED DURING NORMAL DOCUMENT UPDATE PROCESS

*Signature*  
*Les Swanson*

Date  
_JUNE 4, 2018_

Name (Please Print)  
Les Swanson

PLEASE RETURN TO:
Yiu Lee, Project Administrator  
NFPA, 1 Batterymarch Park, Quincy, MA 02169  
FAX: (617) 984-7110  
E-mail: ecarroll@nfpa.org

August 7, 2018  
Supplemental Agenda Standards Council Meeting August 13-15, 2018  
Page 545 of 1900
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and Delete Section 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10, Standard for Portable Fire Extinguishers.

_________ AGREE  __x_____ DISAGREE*  __________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.

I don’t find the reasoning provided by the proponent to be compelling enough to justify the changes proposed. The committee reviewed each of the changes during the past two cycles and made changes we believed were appropriate. To my knowledge, the applicant didn’t object, didn’t file any public comments, public inputs, or amending motions during those cycles. The proponent is well aware of the NFPA process and how it works; he’s submitted other changes in the past and has been successful with this committee. I can see no valid reason to accept his changes through the TIA process rather than have them fully vetted through the normal process.

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons (Check all that apply):

_____  A. The standard contains an error or an omission that was overlooked during the regular revision process.

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_____  F. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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.

_________ ABSTAIN

__x__ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT of emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.

The proponent did not provide any substantiating information to support his claim that this is of emergency nature.

___________________________  6/7/2018___________________________
Signature                        Date
PLEASE RETURN TO:
Yiu Lee, Project Administrator
NFPA, 1 Batterymarch Park, Quincy, MA 02169  FAX: (617) 984-7110  E-mail: vlee@nfpa.org
MEMORANDUM

TO: Technical Committee on Portable Fire Extinguishers

FROM: Yiu Lee, Project Administrator

DATE: July 30, 2018

SUBJECT: NFPA 10 Proposed TIA No. 1378 FINAL TC BALLOT RESULTS

The public comment circulation has passed, therefore, according to 5.6(a) in the NFPA Regs, the final results show this TIA HAS NOT achieved the ¾ majority vote needed on both Ballot Item No. 1 (Technical Merit) and Ballot Item No. 2 (Emergency Nature).

28 Eligible to Vote
4 Not Returned (Kirkwood, Lessar, M. Smith, Sun)

<table>
<thead>
<tr>
<th>Technical Merit</th>
<th>Emergency Nature</th>
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<tr>
<td>0 Abstentions</td>
<td>0 Abstentions</td>
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<tr>
<td>3 Agree</td>
<td>3 Agree</td>
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<tr>
<td>21 Disagree</td>
<td>21 Disagree</td>
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<tr>
<td>(Addleman, Austin, Brady, Bramwell, Brohmer, Carpenter, Conroy, Farruggia, Horst, Johnson, Jones, Jr., Makowka, Nash, Nerat, Peake, Phelan, Qualls, Rocheleau, Shugarman, Swanson, Tidwell)</td>
<td>(Addleman, Austin, Brady, Bramwell, Brohmer, Carpenter, Conroy, Farruggia, Horst, Johnson, Jones, Jr., Makowka, Nash, Nerat, Peake, Phelan, Qualls, Rocheleau, Shugarman, Swanson, Tidwell)</td>
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There are two criteria necessary to pass ballot [(1) simple majority (2) affirmative vote of ¾ of ballots received]. Both questions must pass ballot in order to recommend that the Standards Council issue this TIA.

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

\[
28 \text{ eligible} \div 2 = 14 + 1 = 15
\]

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

\[
28 \text{ eligible to vote} - 4 \text{ not returned} - 0 \text{ abstentions} = 24 \times 0.75 = 18
\]

Ballot comments are attached for your review.
Mr. Lee,
Please see attached Form and the following list of issues:

* "EnGauge" System does not monitor for all the required checks to be done Monthly, eg; condition of cylinder (damage, corrosion), condition of hose/nozzle, bent pin, bent gauge (stuck on full), wall hanger.

* Does not properly monitor CO2 & Cartridge operated types.

* Annual Maintenance must be done by licensed Alarm Tech. & licensed Extinguisher Tech. at the same time adding more cost to the customer?

* When removing the unit for required services eg; 6 year maint., Hydrotesting, recharge, a spare/loaner unit of equivalent or higher rating equipped with the "EnGauge" gauge must be put in its place for the time it is out. Nobody is going to buy spare units or provide loaners due to the extremely high cost of each. This will lead to required services not being done.

* Customers will be misled into thinking the Annual Maintenance is no longer required.

* The extremely high cost of these extinguishers & electronic devices is very prohibitive to business growth. Estimate is approximately $500.00 to $800.00 per extinguisher to install.

* Can not be used in Hazardous locations.

* Can not be installed in double walled Fire Rated Cabinets.

* There is only ONE Manufacturer of this product, who can charge whatever they see fit?

* Limited Distributors as determined by the Manufacturer, possible restraint of trade?

* We have heard from Fire Departments they have been bothered by nuisance calls thereby causing misuse of resources to handle true emergencies.

Should you have any questions, please contact me.
Sincerely,

Leonard A. Daniels

President

NFPA MEMBER #107019

Fire Alarm & Safety Technologies, Inc.
122 Bridge Street, Unit 2B
Pelham NH 03076

STATE OF MASSACHUSETTS LICENSE NUMBERS:

Fire Alarm - #1216C
Sprinkler - #SC001795
Extinguisher - #FC000192

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NFPA 10-2018 Edition
Standard for Portable Fire Extinguishers
TIA Log No.: 1378
Reference: Various
Comment Closing Date: July 19, 2018

As an end user as well as an installer of products covered by NFPA Std 10, we have concerns with the recent changes incorporated in the 2018 version of NFPA 10.

We have invested a sizeable amount of time, money, and resources to installing equipment to meet the condition required by NFPA 10, Electronic monitoring of fire extinguishers. As an end user, we currently inspect approximately 4,200 extinguishers monthly. As we continue to grow, those number continues to increase especially in our health care areas and resident halls and the responsibility to ensure all of those units are compliant can be a herculean task that is both expensive and difficult to ensure its being done properly.

We decided to install electronic monitoring technology to help reduce the risk associated with Joint Commission Accreditation for our facilities. We researched and trialed the technology and, once we were convinced that the technology provided better accountability than we were doing manually, we began installing this technology. We have been able to reduce the risk of missing monthly inspections at each extinguisher point for 11 months and know immediately when there is an issue to be addressed. Joint Commission has been in for two accreditation inspections (every three-years) and they have been very impressed with both the technology as well as the accuracy of our fire extinguisher inspection and maintenance program.

Forcing us to change our program at this point in time to meet the conditions that have unjustly been reinserted into the code, hefting each extinguisher monthly, will not only create a substantial financial burden on us but, will also put us at risk with Joint Commission and the many other accreditation agencies that audit our facilities.

We ask the Standards Council to recognize the value the technology provides and recognize what was the established standard recognized by The Joint Commission.

Frederick J. Knapper
Director, Fire & Life Safety Division
Occupational, Environmental Safety Office
Duke University Health System/ Duke University
2424 Erwin Rd, Suite 204
Durham, NC. 27705
Foran, Rosanne

From: Scales, Alan
Sent: Thursday, July 19, 2018 5:07 PM
To: TIA
Subject: Comment on Proposed TIA 1378 on NFPA 10
Attachments: Proposed_TIA_1378_NFPA_10.pdf

Secretary NFPA Standards Council
NFPA 10-2018 Edition
Standard for Portable Fire Extinguishers
TIA Log No.: 1378
Reference: Various Sections of NFPA 10

Dear Standards Council,

AVANGRID is writing to convey our serious concerns with changes implemented in the last revisions of the NFPA 10 Standard for Portable Fire Extinguishers.

If you are not aware, we are very large national energy company with between 550-600 locations operating in 24 states across the United States. AVANGRID is part of a much larger international company that operates in 40 countries worldwide.

Like many large organizations, we are continually challenged to perform increased compliance and safety related tasks in a more efficient and effective manner. Utilizing technology to perform tasks that previously were conducted manually has allowed us to remain compliant and provide better service. A real world example of how electronic FE monitoring exceeds the snapshot in time of a manual inspections occurred in our Company last week. In a bulk power NERC CIP governed electric substation control house, the main air conditioning unit shutdown and because we had real time electronic monitoring of FE’s, when the temperature greatly exceeded 100°F our monitored Halotron FE’s over pressurized and generated a trouble signal to our fire alarm system. We dispatched technicians to investigate and the found the control house near 120°F which would have ultimately caused computer and other electronic control systems to fail shutting down power to many thousands of customers. We understand that the AC should have been being monitored, but this was missed in the recent start of this new control house.

The real point is that electronic monitoring is 24hr x 7D x 365D versus the 90sec review performed monthly if conducted manually.

All Companies are faced with doing more with less, the only way to accomplish this is through technology, we simply are not adding headcount to perform tasks that can be accomplished via technology more efficiently and in most cases better! In the power industry we have many locations that are often not occupied on routine business days; we have found that by using electronic monitoring we can maintain compliance in accordance with OSHA and the AHJ’s where it would be cost prohibitive to send employees driving around to perform a monthly inspection of an FE.

We find that monitoring pressure, presence and blockage via real time electronic means to be far superior and safer than the old manual method. In the real world, historically it has been a true challenge to keep employee’s focused on performing monthly inspections in a quality manner. How many fire marshal or code enforcement inspections have found FE’s blocked, not inspected or not secured in place when it is left to the manual process. Also, how many individuals can truly tell via their calibrated hands/arms if some of the suppressant is missing with the proverbial “Hefting” requirement that was added to the standard? This is not realistic nor practical because you would have to...
know the vessel empty weight, the contents weight of potentially dozens of different units or vessels, and that is not a viable nor manageable requirement to put in the standard.

I can tell you with the utmost confidence, that our fire extinguisher availability and readiness has greatly improved since we went to the electronic monitoring technology. In my professional opinion being a Fire Protection Professional with a vast span of control, that if the NFPA 10 standard does not recognize the use of technology and revert back to accepting and allowing a compliant means of electronically monitoring the routine monthly FE inspection, it will greatly diminish the safety, quality and effectiveness of our fire extinguisher program. I would welcome a discussion with any member or the entire Standards Council on this matter.

AVANGRID sincerely hopes that NFPA recognizes the step backwards that recent revisions to NFPA 10 have caused and that the Standards Councils sees their way clear to correcting concerns that we and other progressive fire protection minded companies have raised.

Kind Regards,

Alan

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Ms. Dawn Michele Bellis  
Director and NFPA Standards Council Secretary  
National Fire Protection Association  
1 Batterymarch Park  
Quincy, Massachusetts 02169-7471  

August 2, 2018

NFPA 10 TIA Log No.: 1378 Appeal

Dear Ms. Bellis,

It is with full understanding of the seriousness of the issue that earlier this year, en-Gauge submitted a request for an emergency TIA with regards to the 2018 NFPA-10 Standard for Portable Fire Extinguishers. This request was extensively supported by technical reasoning, but was rejected by the NFPA-10 Committee.

Following the rejection of the emergency TIA Log No.: 1378, en-Gauge is formally appealing to the NFPA Standards Council and requests a hearing date of August 14, 2018. The proposed Emergency TIA Amendment meets four of the six reasons stated on the NFPA Tentative Interim Amendment (TIA) Request Form. Additionally, we intend to share why what transpired within the NFPA-10 Committee were deliberate acts to use the NFPA code to advance committee members business interests, restrict trade and limit the use of monitoring technology, all while reducing life safety and negatively impacting owners who have implemented monitoring technology.

1) **Does the NFPA Standard contain a conflict within the NFPA Standard or within another NFPA Standard?**

Yes, the adopted language within NFPA-10 2018 conflicts directly with itself and other Standards including but not limited to:

- Section 1.2.2 of NFPA-10 states, “Nothing in this standard shall be considered as a restriction on new technologies or alternative arrangements, provided that the level of protection as herein described is not lowered and is acceptable to the authority having jurisdiction.” The myriad of changes implemented (see attached) do in fact restrict the utilization of monitoring technologies and the changes lower fire life safety standards
From the Life Safety Code to NFPA-13, NFPA-72 to others including the National Electrical Code, the term ‘shall not be obstructed’ (unobstructed) means accessible and unblocked. The removal of the term from NFPA-10 conflicts with other NFPA Standards and dramatically changes the requirement for inspection.

Recognizing and allowing for the use of a non-listed devise to monitor a component of the life safety features of a building. This conflicts with ANY other NFPA Standard that requires monitoring be accomplished only with equipment listed for that purpose.

The new wording specifying the owner/agent as the AHJ, as well as requiring an additional approval for determining if electronic monitoring will be permitted, makes NFPA 10 unique among NFPA standards. This creates the opportunity for conflict on every level by the obfuscation of lines of authority.

2) Does the proposed TIA intend to offer to the public a benefit that would lessen a recognized (known) hazard or ameliorate a continuing dangerous condition or situation?

Yes, by reverting back to the language that was pre-established and in use in 2010, the TIA restores previously approved advances in technology. 24/7 accountability, and immediate notification is exponentially better life safety than sporadic once a month human inspections that may or may not be completed. No one would ever suggest doing away with automated detection and alarm technology and going back to relying on ‘Watchmen’ for safety, but that is essentially what NFPA-10 has implemented for fire extinguishers.

The changes to NFPA-10 have established or reestablished requirements specifically aimed at rendering electronic monitoring incapable of meeting the points for the monthly ‘quick check’. Included in the changes are the outdated methodology of hefting and the distortion of the wording for obstruction (“access to” is not the same as “unobstructed access”); burdening both end users and jurisdictions that have invested in the viability of the established, recognized, listed and proven technology of electronic monitoring.

The very same NFPA 10 Committee Members who are undermining technology, continue to point out that that physical monthly inspections are highly problematic. The National Association of Fire Equipment Distributors (NAFED) 1998 Study, which is available on their website cites significant issues in the physical monthly inspection process (See attached).

- “Survey results indicate that maintenance problems are considerably greater than anticipated. NAFED found that an astonishing 25% of all surveyed extinguishers had been fully or partially discharged and that almost 30% had other deficiencies that could prevent them from functioning correctly.
o “The NFPA 10 Standard requirement that a monthly ‘quick check’ be performed to make
sure a fire extinguisher is available and in operating condition” was not being completed
90% of the time.

o The Study concluded, “Every effort should be made to ensure that, as a minimum, fire
extinguishers are located and maintained in accordance with NFPA’s standards.”

- Considering the NAFED survey results one can only surmise what the motivation to
continue to strongly support manual inspections over electronic monitoring would be.
Throughout history there are examples, such as the buggy whip industry, of those trying to
hold on to outdated methodologies rather than advancing with technologies. NFPA
recognizes the needs for these advancements throughout the code, including NFPA-10
Section 1.2.2.

- Logic would have it that the most prudent steps to assure safety and to minimize risk would
to be to ensure continual accountability, not restrict it. Logic would have it that reinstituting
a practice that has a known failure rate of 90% would never be accepted. Logic would
have it that recognized, listed & proven technology that ensured 24/7 accountability and
reliability would not be undermined. Logic would have it that the most effective inspection
should be considered the standard (electronic monitoring) and the least effective (manual
inspection) should require AHJ approval.

- 100% of fire extinguishers that are electronically monitored meet the NFPA-10 2010
inspection requirements 100% of the time; signaling the moment there is an issue.

3) 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?

The TIA will reinstate the language that recognized an advance in the art of safeguarding
property or life while removing language that reverts to previously discarded practices, lowered
safety standards and created opportunities conflict between Building and Fire AHJ’s, building
owners and their agents and elected officials.

4) The proposed TIA intends to correct a circumstance in which the revised NFPA
Standard 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.

Yes. The proposed TIA intends to correct an ‘adverse impact on a product and method’.
However the circumstance in question does not appear to be ‘inadvertently overlooked’ by the
authors, but rather a deliberate and scurrilous action by one business group to manipulate the
NFPA process to advance their own business interest while negatively impacting another while
lessening safety standards and in the process creating a path to attack the ability of Building and Fire AHJ’s to enact safety requirements.

The actions have already had a significant negative and financial impact on jurisdictions, authorities, businesses and individuals, all while reducing life safety. If allowed to remain, or if corrective action is delayed, the precedent established will be detrimental to the protection of life and property and the reputation of the NFPA itself.

We ask the Standards Council to recognize the significance of the data being presented, and to undo the business driven changes in NFPA-10 related to electronic monitoring as soon as possible, as it is already negatively impacting too many.

We ask the Standards Council to ensure technology is once again properly recognized in NFPA-10 as it is elsewhere in NFPA and with other authoritative bodies.

Finally, we ask the Standards Council to initiate a review of the policies and procedures involved, and then take the corrective actions needed to restore the hard fought for integrity the NFPA relies on in serving this nation and the world as the leader in fire safety.

In the upcoming days we will be submitting additional documentation to the Standards Council.

Thank you,

John McSheffrey Jr.
President
en-Gauge Inc.

Attachments:
Exhibit 1 – The original TIA request
Exhibit 2 - The National Association of Fire Equipment Distributors (NAFED) 1998 Study

Cc:
James P. O'Hare
Nelson Mullins Riley & Scarborough LLP
MEMORANDUM

TO: Technical Committee on Portable Fire Extinguishers

FROM: Yiu Lee, Project Administrator

DATE: June 4, 2018

SUBJECT: NFPA 10 Proposed Tentative Interim Amendment (TIA) No. 1378

The attached proposed Tentative Interim Amendment (TIA) is being submitted to you for letter ballot to revise sections 3.3.10, 6.1.3.3.1, 6.1.3.3.2, 6.1.5, 7.2.2, A.3.3.10 and delete sections 7.2.4.2.2 and renumber subsequent paragraph of the 2018 Edition of NFPA 10. This proposed TIA was submitted by John McSheffrey of en-Gauge Inc. and endorsed by Bradley Austin of Poole Fire Protection Inc. and Joseph Talbert of Jensen Hughes.

This proposed TIA will be published for public comment in the June, 2018 issue of NFPA News with a Public Comment Closing Date of July 19, 2018. Any public comments received will be circulated to the committee. Finally, the Standards Council will review and consider the issuance of this TIA.

In accordance with Section 5 of the Regulations Governing the Development of NFPA Standards, you are being balloted on the technical merits of the proposed TIA and whether this matter is of an emergency nature.

Please complete and return your ballot as soon as possible but no later than June 18, 2018. As noted on the ballot form, please return the ballot to Yiu Lee either via e-mail to ylee@nfpa.org or via fax to 617-984-7110. You may also mail your ballot to the attention of Yiu Lee at NFPA, 1 Batterymarch Park, Quincy, MA 02169.

Note: Please remember that the return of ballots and attendance at committee meetings are required in accordance with the Regulations Governing the Development of NFPA Standards.
1. Revise 3.3.10 to read as follows:

3.3.10* Electronic Monitoring. Either a local alarm device to indicate when an extinguisher is removed from its designated location or a method of electronic communication (data transmission) between an in-place fire extinguisher and an electronic monitoring device/system. A method of electronic communication (data transmission) between an in-place fire extinguisher and an electronic monitoring device/system.

2. Revise 6.1.3.3.1 and 6.1.3.3.2 to read as follows:

6.1.3.3.1 Fire extinguishers shall be installed in locations where they are visible except as permitted by 6.1.3.3.2 not be obstructed or obscured from view.

6.1.3.3.2* In large rooms and in certain locations where visual obstructions cannot be avoided, signs or other means shall be provided to indicate the extinguisher location.

3. Revise 6.1.5 to read as follows:

6.1.5 Electronic Monitoring and Alarm Systems. Where an electronic monitoring and alarm system is installed, 6.1.5.1 and 6.1.5.2 shall apply.

6.1.5.1 The connection to the electronic monitoring device shall be continuously supervised for integrity.

6.1.5.2 The power source for the electronic monitoring device shall be supervised for continuity of power.

7.1.5.1 When used in conjunction with fire alarm systems, fire extinguisher electronic monitoring devices shall be inspected and maintained in accordance with NFPA 72, National Fire Alarm and Signaling Code, and 7.6.1.

7.1.5.2 When used in conjunction with non-fire-alarm systems, fire extinguisher electronic monitoring devices shall be inspected and maintained as required in 7.1.5.2.1 through 7.1.5.2.3 and the manufacturer's listed installation and maintenance manual(s).

7.1.5.2.1 The connection to the electronic monitoring device shall be continuously supervised for integrity.

7.1.5.2.2 The power source for the electronic monitoring device shall be supervised for continuity of power.

7.1.5.2.3 The monitoring device shall be tested and maintained annually in accordance with 7.6.1.

4. Revise 7.2.2 to read as follows:

7.2.2 Inspection Procedures. Periodic inspection or electronic monitoring of fire extinguishers shall include a check of at least the following items:

1. Location in designated place
2. Visibility of the extinguisher or means of indicating the extinguisher location No obstruction to access or visibility
3. Access to the extinguisher Pressure gauge reading or indicator in the operable range or position
(4) Pressure gauge reading or indicator in the operable range or position. Fullness determined by weighing or hefting for the self-expelling-type extinguishers, cartridge-operated extinguishers, and pump tanks.

(5) Fullness determined by weighing or hefting. Condition of tires, wheels, carriage, hose, and nozzle for wheeled extinguishers.

(6) Condition of tires, wheels, carriage, hose, and nozzle for wheeled extinguishers. Indicator for nonrechargeable extinguishers using push-to-test pressure indicators.

(7) Indicator for nonrechargeable extinguishers using push-to-test pressure indicators.

7.2.2.1 The owner or the owner's agent shall determine the method of extinguisher inspection such as manual inspection, electronic monitoring, or any combination of the two.

7.2.2.2 Any method(s) of inspection other than manual inspection shall require the approval of the authority having jurisdiction.

7.2.2.3* In addition to 7.2.2, fire extinguishers shall be visually inspected in accordance with 7.2.2.4 if they are located where any of the following conditions exists:

(1) …
(2) …
(3) …
(4) …

7.2.2.4 Where required by 7.2.2.3, the following inspection procedures shall be in addition to those addressed in 7.2.2:

(1) …
(2) …
(3) …

7.2.2.53 Inspection Procedure for Containers of Class D Extinguishing Agent. Periodic inspection of containers of Class D extinguishing agent used to protect Class D hazards or electronic monitoring of fire extinguishers shall include verification and inspection of at least the following items:

(1) Located in designated place
(2) Visibility of the container or means of indicating the container location. No obstruction to access or visibility.
(3) Access to the container. Pressure gauge reading or indicator in the operable range or position.
(4) Lid is sealed. Fullness determined by weighing or hefting for the self-expelling-type extinguishers, cartridge-operated extinguishers, and pump tanks.
(5) Fullness by hefting or weighing. Condition of tires, wheels, carriage, hose, and nozzle for wheeled extinguishers.
(6) No obvious physical damage to container. Indicator for nonrechargeable extinguishers using push-to-test pressure indicators.

5. Delete 7.2.4.2.2 and renumber subsequent paragraph as follows:

7.2.4.2.2 Records for electronic monitoring shall be kept to demonstrate that at least the last 12 monthly inspections have been performed.

7.2.4.2.32 …

6. Revise Annex A.3.3.10 to read as follows:

A.3.3.10 Electronic Monitoring. One form of electronic monitoring is a local alarm device to indicate when an extinguisher is removed from its designated location. Electronic monitoring can also be accomplished utilizing low-voltage wiring or a wireless communication method. Some devices can convey information regarding about an in-place fire extinguisher that includes status, removal, pressure level, weight, and presence, condition, and whether there is
an obstruction to the extinguisher. of objects in the vicinity of an extinguisher. Electronic monitoring can be considered for one or more satisfy many of the monthly inspection requirements currently within the standard, monitor the extinguisher at more frequent intervals if desired or when more frequent inspections are required, and create an electronically maintained record of the fire extinguisher.

Substantiation: The changes made to NFPA 10 regarding the technology to electronically monitor fire extinguishers have reduced fire life standards by drastically limiting the technology’s recognized use. The changes are also in direct conflict the Section 1.2.2 of the NFPA 10 Standard for Portable Fire Extinguishers.

3.3.10 The change in the wording is intended for the Standard to recognize a non-listed, non-supervised anti-theft device that can monitor for location and removal and does not meet the previous requirements for monitored extinguisher technology as called out in NFPA-10 2007/2010 and correlated with NFPA 72.

We know of no other instance in ALL of the NFPA codes where a Standard is reduced to recognize a non-listed, non-supervised device that’s purpose is to alert the occupants.

Accepting a lesser threshold of monitoring reduces life safety and sets a tremendously bad precedent for the code. All monitoring devices should be held to the same high standard whether the signal is local or communicated back to a panel.

6.1.3.3.1 The NFPA-10 Standard read “Fire extinguishers shall not be obstructed or obscured from view.” This has now been totally eliminated from the Standard and replaced with the term “Fire extinguishers shall be installed in locations where they are visible”.

Aside from completely lessening the threshold of safety, the change means that NFPA-10 no longer uses the same terminology that is referenced within NFPA, the National Electrical Code, OSHA and other code bodies.

- NFPA 72, 2016 17.14.8.2 Manual fire alarm boxes shall be installed so that they are conspicuous, unobstructed, and accessible.
- 1910.303(h)(4)(i)(A) On switchboard and control panels exceeding 1.83 m (6.0 ft) in width, there shall be one entrance at each end of such boards unless the location of the switchboards and control panels permits a continuous and unobstructed way of exit travel

Our technology was designed, and has been recognized within these codes to detect and alert when a fire extinguisher’s access is obstructed. The technology was designed based on the established NFPA Code. The elimination of the term obstruction from NFPA-10 is yet another intentional tweak to diminish the effectiveness of recognized technology and makes the Standard’s accessibility requirements different from the rest of the Code.

Additionally this change directly contradicts Section 1.2.2 that states “Nothing in this standard shall be considered as a restriction on new technologies or alternative arrangements, provided that the level of protection as herein described is not lowered and is acceptable to the authority having jurisdiction.”

6.1.3.3.2 Accessibility cannot be properly addressed with signage. See explanation in 6.1.3.3.1
6.1.5 In 2013 Chapter 6, Section 6.1.5 (5.1, 5.2) was added, and as a result Chapter 7 Section 7.1.5, 7.1.5.1, 7.1.5.2 (5.2.1 – 5.2.3) was removed. This change needs to be undone.

The addition of the 6.1.5 related text lessens the requirements for monitored technology to be accountable. And the changes implemented undo the correlation of NFPA-10 to NFPA-72.

The 7.1.5 related text in the 2010 edition ensures accountability, integrity, supervision, correlation and the use of the technology with non-fire alarm systems (which includes localized signaling devices). This wording needs to be reinstated.

7.2.2 The changes to the monthly inspection requirements are perhaps the most blatant moves put forth to undermine the recognized technology. The 2007 NFPA-10 Committee worked hard to reorganize the monthly inspection criteria. It was identified that many of the monthly inspection checks asked of the occupancy owner, was also part of the annual inspection done by an outside certified FED.

An example of an unnecessary change reintroduced to the NFPA-10 Standard is the re-adoption of the outdated practice of having to physically “heft” a fire extinguisher monthly.

“Hefting” was a practice that was once required to determine if the fire extinguisher was full, and to ensure the chemical powder would not cake inside the extinguisher. However extinguishing agents were modified years ago and are now made with silicone like additives. This change in material is highlighted in Section 3.3.4.1 which states, “Dry Chemical. A powder composed of very small particles, usually sodium bicarbonate, potassium bicarbonate, or ammonium phosphate based with added particulate material supplemented by special treatment to provide resistance to packing, resistance to moisture absorption (caking), and the proper flow capabilities.” Furthermore, the first sentence from the Amerex web page describing dry chemical fire extinguishers; “REGULAR extinguishers contain a siliconized sodium bicarbonate based dry chemical with free flowing and non-caking additives” http://amerex-fire.com/products/regular-dry-chemical-stored-pressure-sodium-bicarbonate-extinguishers/.

The 2007 Committee recognized that a gauged fire extinguisher uses the same extinguishing agents as gauged fixed systems and wheeled units yet it’s impossible to “heft” either, and therefore there isn’t a requirement to do so. The same should apply to the smaller extinguishers. Additionally, the 2007 Committee determined that “hefting” was not a scientific method of inspection. The technical committee felt inspection criteria must have definable measurables that are consistent and repeatable, no matter who does the inspection. It was deemed that a human arm cannot be “properly calibrated”, and thus “hefting” is left up to interpretation rather than definable criteria.

As a result, “hefting” and other items once required of the building owners’ monthly inspection became part of the annual maintenance check by a licensed technician. This is obviously practical common sense. In fact, the 2013 NFPA-10 Technical Subcommittee recommended not changing the monthly inspection criteria, yet somehow the outdated practice, which cannot be addressed cost effectively by technology, was reinserted and now is part of the monthly check.

The other major change to the monthly inspection criteria was the removal to inspect for obstruction to the extinguisher. This is addressed in comment 6.1.3.3.1 7.2.2.1 The addition of allowing the owner or the owner’s agent (fire extinguisher distributor?) to determine the means of inspection is both an unnecessary addition, and can be interpreted as a way to make
implementing monitored technology more difficult. This and 7.2.2.2 were added following the 2012 code change in New Hampshire and is meant to directly undermined the authority of a governing body.

7.2.2.2 This is perhaps the most egregious of all the changes in the 2013 / 2018 editions of NFPA-10. This clause can be directly tied to the efforts of the fire extinguisher industry to undermine the authority of the New Hampshire State Fire Marshal following the 2012 code enhancement of the technology as a mandated solution. This clause is directly questioning the authority of a governing body to determine code requirements.

It is no coincidence that the wave of changes that occurred in ’13 & ’18 follow on the 2012 code recognition in New Hampshire. The numerous changes that have been adopted in NFPA-10 regarding monitored extinguishers, have been directly used in the state of New Hampshire to attack the code, and those enforcing it.

Monitored technology for extinguishers is recognized, correlated and proven. To require a local AHJ to now sign off on the technology each and every time a user wants to install, creates a tremendous barrier to use the technology, and gives local officials the means to ignore the actions of governing bodies.

7.2.2.5 The wording in this mirrors the inspection criteria for 2018. If the committee has created a new step for Class D Extinguishers, the language for inspecting it should mirror the 2010 requirements.

7.2.4.2.2 The addition of 7.2.4.2.2 is in direct conflict with 7.2.4.2.3, which was the only language in ’07 & ’10 regarding electronic record keeping and correlated with NFPA-72. This addition all but undoes the equivalency of the physical monthly inspection that technology offers and directly contradicts Section 1.2.2 that states “Nothing in this standard shall be considered as a restriction on new technologies or alternative arrangements, provided that the level of protection as herein described is not lowered and is acceptable to the authority having jurisdiction.”

A.3.3.10 This addendum undoes the wording in 2007 and 2010 with the intent to undermine the recognized technology while creating an unfair opportunity for a non-listed, non-supervised theft deterrent.

For the record en-Gauge welcomes the technology being introduced to the code as long as it’s held to the same level of accountability as all other life safety technologies. Even stand-alone smoke detectors must be listed and signal for power loss.

**Emergency Nature:** The NFPA Standard contains a conflict within the NFPA Standards or within another NFPA Standard. 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. 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. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard 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 of the action.
End users who have been successfully using monitored extinguisher technology for years are now being told that they are no longer compliant and are looking for immediate guidance.
Portable Fire Extinguishers: Maintenance and Effectiveness

Prepared by the National Association of Fire Equipment Distributors
All of the damaged portable extinguishers shown in this brochure were found by trained service technicians while performing annual maintenance. Because of the extreme nature of the damage to these extinguishers, each had to be immediately removed and replaced with a fully functional one. How could such damage go unnoticed by those who own or manage occupancies? Even the most informed end-users do not always spot seemingly obvious problems, as these examples demonstrate. In order to help prevent this type of neglect, the National Association of Fire Equipment Distributors (NAFED) endorses the National Fire Protection Association's (NFPA) requirement for thorough annual maintenance of portable fire extinguishers by properly trained technicians and monthly "quick check" inspection (both are outlined in NFPA 10 Standard for Portable Fire Extinguishers, 1998 Edition—see page 3).

In the interest of promoting fire prevention education and understanding, NAFED has compiled over twenty years of data and survey results with respect to the effectiveness of properly maintained portable fire extinguishers. Time and time again, portable extinguishers have proven to be the most effective means of defense against fires of limited size. Data collected during three NAFED studies (1979, 1985, and 1996) demonstrates that portable extinguishers used by building occupants extinguish fires 94% of the time.

Armed with this high success rate, NAFED conducted a survey in 1998 to measure the degree to which portable extinguishers were being properly inspected and maintained in accordance with NFPA 10, the standard nearly universally followed by local code authorities throughout the US and Canada. Survey results indicate that maintenance problems are considerably greater than anticipated. NAFED found that an astonishing 25% of all surveyed extinguishers had been fully or partially discharged and that almost 30% had other deficiencies that could prevent them from functioning correctly. Because portable fire extinguishers are central in helping to prevent fire damage and loss, and because of the fact that their effectiveness hinges on proper maintenance, these survey results are alarming.

NAFED wishes to publish these results in the hopes of furthering widespread understanding of the effectiveness of portable fire extinguishers and the crucial nature of proper maintenance. Both of these elements are fundamental in providing safe places to work and live.

The Surveys

Each of NAFED's surveys is outlined in the following pages. The collected data varies slightly because of the differences in information collection methods for each study. In each effectiveness survey, the data was collected by the fire equipment distributors who recharged the extinguishers after the owners had discharged them. In the maintenance survey, the data was collected by fire equipment distributors as they performed annual maintenance.

The extinguisher success ratio was based in each effectiveness survey on a clear-cut YES or NO answer, complete extinguishment by use of a portable extinguisher being the only satisfactory YES answer.

Data tabulation for the 1979 survey, the 1996 survey, and the 1998 survey was performed by independent third-party firms.
The Effectiveness Surveys
1979 Survey Results

In 1976, the US Department of Labor, Occupational Safety & Health Administration (OSHA) asked NAFED to perform a limited base survey on the use of portable fire extinguishers in industrial, commercial, and institutional work situations. The scope of this survey included unreported fires extinguished by on-the-job workers (not reported to fire departments or authorities having jurisdiction). The survey results were originally published by NAFED in 1979.

This survey was based on the performance of 14,091 fire extinguishers on 5,400 fires. Of the 5,400 fires reported, portable fire extinguishers successfully extinguished 5,073 fires (93.9%). One extinguisher was sufficient to extinguish the fire in 3,148 of these cases (58.3%).

The types of fuels that were involved in these fires were Class A—Ordinary Combustibles (16.0%), Class B—Flammable Liquids (42.5%), Class C—Electrical Equipment (7.7%), and Multi-Class (33.8%). NAFED estimated that 60–70% of the Multi-Class fires were Class A and B. The leading types of occupancies involved were commercial (45.3%) and industrial (40.2%). Of the 5,400 reported fires, only 1,319 were in areas of buildings protected by sprinklers (24.4%), and sprinklers operated in only 32 of these cases (2.4%).

### Extinguisher Success Ratio
- Extinguished: 93.9%
- Non-Extinguishment: 6.1%

### Calls to Fire Department
- Called: 13.2%
- Not Called: 86.8%

### Classification of Occupancy
- Commercial: 45.3%
- Industrial: 40.2%
- Institutional: 7.9%
- Consumer: 6.2%

### Fire Type
- Class A: 16.0%
- Class B: 42.5%
- Class C: 7.7%
- Multi-Class: 33.8%

### Reasons for Non-Extinguishment
- Fire Too Large: 50.5%
- Operator Inexperience: 2.8%
- Other: 7.0%
- Extinguisher Fully or Partially Discharged: 16.8%
- Wrong Extinguisher: 16.2%
- Malfunction: 6.7%
The Effectiveness Surveys
1985 Survey Results

NAFED conducted a brief survey in 1985 to continue monitoring the effectiveness of portable fire extinguishers. The survey was based on the performance of 2,987 fire extinguishers on 1,153 fires. Of the 1,153 fires reported, portable fire extinguishers successfully extinguished 1,055 fires (91.5%). One extinguisher was sufficient to extinguish the fire in 561 of these cases (48.7%).

This survey did not record information regarding the type of fuel involved or the type of occupancy, nor did it record whether or not the occupancy was protected by sprinklers.

**Extinguisher Success Ratio**

- Extinguished: 91.5%
- Non-Extinguished: 8.5%

**Reasons for Non-Extinguishment**

- Fire Unreachable: 3.1%
- Malfunction: 17.3%
- Extinguisher Fully or Partially Discharged: 4.1%
- Wrong Extinguisher: 11.2%
- Operator Inexperience: 8.2%

**Calls to Fire Department**

- Called: 20.4%
- Not Called: 79.6%

*In the 1985 survey, NAFED included 98 fires put out with something other than a portable extinguisher in the number of times the fire department was called.

NFPA 10 Standard for Portable Fire Extinguishers, 1998 Edition, requires the following minimum inspection and maintenance procedures and frequencies:

**4-2.1 Inspection.** A "quick check" that a fire extinguisher is available and will operate. It is intended to give reasonable assurance that the fire extinguisher is fully charged and operable. This is done by verifying that it is in its designated place, that it has not been actuated or tampered with, and that there is no obvious or physical damage or condition to prevent its operation.

**4-3.1 [Inspection] Frequency.** Fire extinguishers shall be inspected when initially placed in service and thereafter at approximately 30-day intervals. Fire extinguishers shall be inspected at more frequent intervals when circumstances require.

**4-2.2 Maintenance.** A thorough examination of the fire extinguisher. It is intended to give maximum assurance that a fire extinguisher will operate effectively and safely. It includes a thorough examination and any necessary repair or replacement. It will normally reveal if hydrostatic testing or internal maintenance is required.

**4-4.1 [Maintenance] Frequency.** Fire extinguishers shall be subjected to maintenance at intervals of not more than 1 year, at the time of hydrostatic test, or when specifically indicated by an inspection.
AFED's 1996 portable extinguisher effectiveness survey was based on the performance of 5,246 fire extinguishers on 2,267 fires. Of the 2,267 fires reported, portable fire extinguishers successfully extinguished 2,161 fires (95.3%). One extinguisher was sufficient to extinguish the fire in 2,088 of these cases (92.1%).

The types of fuels that were involved in these fires were mainly Class A—Ordinary Combustibles (46.0%) and Class B—Flammable Liquids (45.0%). The leading occupancies involved were commercial (28.5%) and industrial (24.9%). Of the 2,267 reported fires, only 771 were in areas of buildings protected by sprinklers (34.0%), and sprinklers operated in only 15 of these cases (1.9%).

![Extinguisher Success Ratio](image)

- Extinguishment 95.3%
- Non-Extinguishment 4.7%

![Classification of Occupancy](image)

- Commercial 28.5%
- Industrial 24.9%
- Institutional 5.5%
- Vehicle 19.8%
- Other 21.3%

![Fire Type](image)

- Class A 46.0%
- Class B 45.0%
- Vehicle 1.0%
- Other 9.3%
- Malfunction 13.0%

![Reasons for Non-Extinguishment](image)

- Fire Too Large 68.0%
- Wrong Extinguisher 4.5%
- Mismatch 5.3%
- Operator Inexperience 13.0%
- Other 9.3%

![Calls to Fire Department](image)

- Called 24.0%
- Not Called 76.0%
The Effectiveness Surveys
1979–1996

This information reflects over twenty years of NAFED’s research concerning the effectiveness of portable fire extinguishers.

For safety reasons, all fire extinguishers pictured were depressurized before being transported.
The Maintenance Survey
1998 Survey Results

NAFED's 1998 maintenance survey was based on service reports provided by over 30 NAFED members throughout the US. The technicians submitted an evaluation for each extinguisher on which he/she performed annual maintenance.* Of 4,599 extinguishers reported on, 1,184 had been fully or partially discharged (25.7%). Of 4,592 extinguishers reported on, 1,352 had other deficiencies (29.4%). Technicians noted whether the extinguishers were in the correct location, finding 1,088 out of 4,578 were not.

Extinguishers Discharged
- Fully or Partially Discharged 25.7%
- Not Fully or Partially Discharged 74.3%

Other Extinguisher Deficiencies
- Other Deficiencies 29.4%
- No Other Deficiencies 70.6%

In Proper Location 23.8%
Not in Proper Location 76.2%

Monthly Inspections
- Performed 10.2%
- Not Performed 89.8%

Who Performed Monthly Inspections
- Service Company 32.5%
- Owner 67.5%

Most Recent Fire Department Inspection
- More than 12 Months 65.1%
- Within Last 12 Months 34.9%

Conclusions
NAFED's 1998 survey finds a larger than expected degree of unsatisfactory maintenance. Fire extinguishers have proven their effectiveness in extinguishing fires, saving lives, and protecting property from fire. Their effectiveness, however, is extremely dependent on proper maintenance. Per NFPA standards, portable extinguishers should have annual maintenance by qualified technicians and monthly inspection, and those who own or manage occupancies are responsible for making this happen. Every effort should be made to ensure that, as a minimum, fire extinguishers are located and maintained in accordance with NFPA's standards.

* In the 1998 survey, the number of respondents to each question varied.
Good Afternoon,

With regards to TIA Log # 1378, attached are three documents, that are in addition to the documents sent on Friday August 3rd.

The additional documents include:

- Exhibit 3 – A series of code change proposals for the NFPA-10 2018 Standard.
  - All the proposals were made by a single influential member of NFPA-10
  - All negatively impact the technology to electronically monitor fire extinguishers.
  - 80% of the proposals were accepted and adopted by the committee.

- Exhibit 4 – A timeline looking at the technology to electronically monitor fire extinguishers
  - A historical look at the acceptance the technology received from all regulatory and listing bodies from 2002 -2011, including universal acceptance within the NFPA-10 Committee
  - The 2012 Code adoption in the state of New Hampshire to require monitored extinguishers in new commercial construction in occupancies w/ fire alarm systems.
  - The radical change direction from the NFPA-10 Committee just months after the NH adoption when the Standard was manipulated to negatively impact the technology.

- Exhibit 5 – A copy of the ANSI / NFPA Patent Policy compliance letter on file in New Hampshire
  - This is submitted in response to the public comment issued by Mr. Daniels out of NH which falsely states that en-Gauge has been acting in a monopolistic fashion. The letter on file regarding the ANSI / NFPA Patent Policy strongly refutes the claim.
  - Mr. Daniels, who is associated with a # of NFPA-10 members filed a complaint about the code change in NH back in 2012, and the NH Commerce Committee heard the complaint and voted unanimously to support the NH State Fire Marshal and accept the change.
  - Months after Mr. Daniels action in NH, the NFPA-10 Committee fully reversed the recognition of correlated, listed technology, and purposely re-implemented an outdated and obsolete process because it cannot be addressed by technology.

We look forward to meeting with the Standards Council on the 14th to address the manipulation of NFPA-10 to restrict business and lessen safety.

Best Regards,
Dear Mr. McSheffrey:

This will acknowledge receipt of your appeal dated August 10, 2018 requesting the NFPA Standards Council overturn the Technical Committees action and issue TIA 1378. This letter is being considered as an appeal under 1-6 of the Regulations Governing the Development of NFPA Standards.

The Standards Council will be considering appeals on Tuesday, August 14, 2018 at the Boston Marriott Quincy, 1000 Marriott Drive, Quincy, MA 02169. This will acknowledge your wish to be in attendance to address the Standards Council. A Preliminary Hearings List, with scheduled appeal times, will be posted on the NFPA website at http://www.nfpa.org/sc2018 Friday, August 3, 2018.

All supporting documentation should be presented to the Council in writing prior to the scheduled hearing but no later than August 6, 2018. Presentations to the Council should be brief summarizing the submitted material. Submitted documentation shall not be read by appellant during presentation. Time is allotted for both the appellant(s) and the
opponent(s). Following the presentations, Council members may question speakers on written
material, oral presentations, and other related matters. Following the questions, each
established position is allowed a maximum of 10 minutes for rebuttal.

If you have questions, please do not hesitate to contact me.

Very truly yours,

Linda Fuller, Senior Manager, Standards Operations
Standards Administration

From: John McSheffrey [mailto:jmcsheffrey@engauge.net]
Sent: Thursday, August 2, 2018 1:13 PM
To: O'Connor, Brian <boconnor@nfpa.org>; Bellis, Dawn <DBellis@nfpa.org>
Cc: 'Jim O'Hare' <jim.ohare@nelsonmullins.com>
Subject: TIA Log #1378 Appeal to the Standards Council

Good Afternoon Dawn and Brian,

Per our continuing discussions, please find our appeal of TIA Log # 1378 regarding NFPA 10 and two
supporting documents attached. Over the next few days, we will be sharing additional supporting
documents. Thank you for your ongoing assistance in rectifying this invasive and trying situation.

Best regards,

John McSheffrey

Cc:
James P. O'Hare
Nelson Mullins Riley & Scarborough LLP

John J. McSheffrey, Jr.
President

P: 781.616.0544
M: 617.909.5444
JMcSheffrey@engauge.net
Public Input No. 291-NFPA 10-2014 [ New Section after 7.2.2.1 ]

7.2.2.1 (NEW) The owner or the owner’s agent shall determine the method of extinguisher inspection such as manual inspection, electronic monitoring, or any combination of the two.

7.2.2.2 Any method(s) of inspection other than manual inspection shall require the approval of the authority having jurisdiction.

Renumber existing 7.2.2.1 and 7.2.2.2 as 7.2.2.3 and 7.2.2.4.

Statement of Problem and Substantiation for Public Input

The type of inspection service provided should be at the discretion of the building owner or designated agent. The owner or agent should also be the party that determines one method or another or a combination of methods. Any alternate method to visual inspection should be reviewed and approved by the AHJ.

Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company
Submittal Date: Tue Dec 16 10:15:30 EST 2014

Committee Statement

Statement: The type of inspection service provided should be at the discretion of the building owner or designated agent. The owner or agent should also be the party that determines one method or another or a combination of methods. Any alternate method to visual inspection should be reviewed and approved by the AHJ.
Public Input No. 287-NFPA 10-2014 [Section No. 6.1.5.1]

6.1.5.1

The connection to the electronic monitoring device shall be continuously supervised for integrity where the devices are connected to a building alarm system.

Statement of Problem and Substantiation for Public Input

Local electronic monitoring that provides a signal when the extinguisher is removed (see 7.2.1.4) is not supervised since the device is local and not tied into the building alarm system. Local electronic monitoring equipment provides a reasonable option where extinguisher theft is an issue. This type of electronic monitoring is an add-on option and is used as a theft deterrent and is not intended to replace monthly visual inspections.

Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company
Submittal Date: Tue Dec 16 10:07:58 EST 2014

Committee Statement

Statement: The revision clarifies that an electronic supervision and alarm system is not required for all circumstances.
Public Input No. 273-NFPA 10-2014 [Section No. 3.3.10]

3.3.10* Electronic Monitoring.
A Either a local alarm device to indicate when an extinguisher is removed from its designated location or a method of electronic communication (data transmission) between an in-place fire extinguisher and an electronic monitoring device/system.

Statement of Problem and Substantiation for Public Input
The current definition does not include the local alarm device identified in 7.2.1.4. Additional text is needed to describe this device.

Submitter Information Verification
Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company

Submittal Date: Tue Dec 16 09:26:36 EST 2014

Committee Statement
Statement: The current definition does not include the local alarm device identified in 7.2.1.4. Additional text is needed to describe this device. Updated the information on electronic monitoring in the annex to include other types.
Public Input No. 281-NFPA 10-2014 [ Section No. 6.1.3.3.1 ]

6.1.3.3.1
Fire extinguishers shall not be obstructed or obscured from view. be installed in locations where they are visible except as permitted by 6.1.3.3.2.

Statement of Problem and Substantiation for Public Input
Since this is the installation chapter, this requirement should pertain to properly installing the extinguisher.

Submitter Information Verification
Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company

Submittal Date: Tue Dec 16 09:56:46 EST 2014
Committee Statement
Statement: Since this is the installation chapter, this requirement should pertain to properly installing the extinguisher.
Public Input No. 282-NFPA 10-2014 [ Section No. 6.1.3.3.2 ]

6.1.3.3.2*
In large rooms and in certain locations where visual obstructions cannot be completely avoided, means signs shall be provided to indicate the extinguisher location.

Statement of Problem and Substantiation for Public Input
As a minimum, signs need to be provided. Additionally, arrows, lights, signs, or coding of the wall or column can be provided as noted in the annex.

Submitter Information Verification
Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company
Submittal Date: Tue Dec 16 09:58:39 EST 2014

Committee Statement
Resolution: FR-26-NFPA 10-2015

Statement: As a minimum, signs or other means need to be provided to indicate the extinguisher location. Fire extinguisher signs are the preferred method for identifying extinguisher locations.
Public Input No. 287-NFPA 10-2014 [Section No. 6.1.5.1]

6.1.5.1
The connection to the electronic monitoring device shall be continuously supervised for integrity where the devices are connected to a building alarm system.

Statement of Problem and Substantiation for Public Input
Local electronic monitoring that provides a signal when the extinguisher is removed (see 7.2.1.4) is not supervised since the device is local and not tied into the building alarm system. Local electronic monitoring equipment provides a reasonable option where extinguisher theft is an issue. This type of electronic monitoring is an add-on option and is used as a theft deterrent and is not intended to replace monthly visual inspections.

Submitter Information Verification
Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company

Submittal Date: Tue Dec 16 10:07:58 EST 2014
Committee Statement
Statement: The revision clarifies that an electronic supervision and alarm system is not required for all circumstances.
Public Input No. 288-NFPA 10-2014 [Section No. 6.1.5.2]

6.1.5.2
The power source for the electronic monitoring device connected to a building alarm system shall be supervised for continuity of power.

Statement of Problem and Substantiation for Public Input
Local electronic monitoring that provides a signal when the extinguisher is removed (see 7.2.1.4) is not supervised since the device is local and not tied into the building alarm system. Local electronic monitoring equipment provides a reasonable option where extinguisher theft is an issue. This electronic monitoring is an add-on option as a theft deterrent and is not intended to replace monthly visual inspections.

Submitter Information Verification
Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company

Submittal Date: Tue Dec 16 10:10:11 EST 2014

Committee Statement

Statement: The revision clarifies that an electronic supervision and alarm system is not required for all circumstances.
Public Input No. 290-NFPA 10-2014 [Section No. 7.2.2 [Excluding any Sub-Sections]]

Periodic inspection or electronic monitoring of fire extinguishers shall include a check of at least the following items:

1. Location in designated place
2. No obstruction to access or visibility Extinguisher is easily accessible
3. Pressure gauge reading or indicator in the operable range or position
4. Fullness determined by weighing or hefting
5. Condition of tires, wheels, carriage, hose, and nozzle for wheeled extinguishers
6. Indicator for non-rechargeable extinguishers using push-to-test pressure indicators

Statement of Problem and Substantiation for Public Input

The current wording might conflict with 6.1.3.3.2 for some locations. For every location, accessibility should be verified. Current wording is confusing and could become subjective. New wording provides an enforceable requirement.

Submitter Information Verification
Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company

Submittal Date: Tue Dec 16 10:13:28 EST 2014
Committee Statement
Resolution: FR-36-NFPA 10-2015
Statement: Current wording is confusing and could become subjective. New wording provides an enforceable requirement.
Public Input No. 293-NFPA 10-2014 [Section No. A.3.3.10]

A.3.3.10 Electronic Monitoring.

Electronic monitoring can One form of electronic monitoring is a local alarm device to indicate
when an extinguisher is removed from its designated location. Electronic monitoring can also be
accomplished utilizing low-voltage wiring or a wireless communication method. It Some devices
can convey information about an in-place fire extinguisher that includes status regarding
extinguisher removal, pressure level, weight, and presence, condition, and whether there is an
obstruction to the of, objects in the vicinity of an extinguisher.

Electronic monitoring can satisfy many be considered for one or more of the monthly inspection
requirements currently within the standard, monitor the extinguisher at more frequent intervals if
desired or when more frequent inspections are required, and create an electronically maintained
record of the fire extinguisher.

Statement of Problem and Substantiation for Public Input

Updated the information on electronic monitoring to include other types.

Submitter Information Verification

Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company

Submittal Date: Tue Dec 16 10:19:46 EST 2014

Committee Statement


Statement: The current definition does not include the local alarm device identified in 7.2.1.4.
Additional text is needed to describe this device. Updated the information on electronic
monitoring in the annex to include other types.
Public Input No. 292-NFPA 10-2014 [Section No. 7.2.2.3]

Original Hide Markup

7.2.2.3 Inspection Procedure for Containers of Class D Extinguishing Agent.

Periodic inspection of containers of Class D extinguishing agent used to protect Class D hazards shall include verification of at least the following:

1. (1) Located in designated place
2. (2) No obstruction to access or visibility Container is easily accessible
3. (3) Lid is sealed
4. (4) Fullness by hefting or weighing
5. (5) No obvious physical damage to container

Statement of Problem and Substantiation for Public Input

For every location, accessibility should be verified. Current wording is confusing and could become subjective. New wording provides an enforceable requirement.

Submitter Full Name: Mark Conroy
Organization: Brooks Equipment Company
Submittal Date: Tue Dec 16 10:18:06 EST 2014

Committee Statement
Statement: Current wording is confusing and could become subjective. New wording provides an enforceable requirement.
NFPA 10 TIA Log No.: 1378 Appeal
Exhibit 4: Time Line Regarding Extinguisher Monitoring Technology & NFPA-10 Committee

Black – NFPA related / Green – Other regulatory actions / Red – Actions in NH / Blue – en-Gauge learns of changes

2002
– NFPA-10 Committee Recognized electronic monitoring – 0 negative proposals

2003
– The technology receives the first of many U.L. Listings

2004
– The ICC & individual states recognize the technology as a monthly inspection equivalent.

2007
– NFPA-10 Committee adopts electronic monitoring as a monthly inspection equivalent, including the removal of the outdated hefting practice – 0 negative proposals
– NFPA-72 correlates and recognizes electronic monitoring

2010
– NFPA-10 Committee Reaffirms electronic monitoring – 0 negative proposals
– The Joint Commission recognizes the technology as a monthly inspection equivalent.

2011
– NFPA-10 Committee Voting for the 2013 edition of ’10 – 0 negative proposals, and the Technical Subcommittee recommends in comment 10-57 to leave the monthly inspection process the same as ’07 &’10. Ballot sent out on September 23, 2011

JANUARY 2012, NH ADOPTS THE REQUIREMENT FOR ELECTRONIC MONITORING

2012
- January, NH NAFED member challenges the state code change, the NH Legislative Commerce Committee hears the challenge, and with testimony from AJH’s voted unanimously to support the code.
– April 20th, NFPA-10 Committee voting for the 2013 edition of ’10, overrules their 9/23/11 vote, and the recommendation of the subcommittee by changing comment 10-57 to reinstate the monthly hefting requirement, negatively impacting the technology.

2015
– NFPA-10 Committee, an influential member of the committee submits 10 negative proposals specifically impacting electronic monitoring, an unbelievable 80% are accepted and adopted into the new Standard.

2018
– NFPA-10 2018 Standard is released.
– End of January en-Gauge is informed of the 2013 NFPA-10 hefting change, begins to learn of other changes that have proposed and adopted as well.
– March, following a NAFED Conference entitled “Building operations that ensure critical cash flow.” en-Gauge customers began being contacted by aggressive distributors stating that the technology they’ve installed was no longer relevant.
– May, the 6.5 year established code requirement in NH is challenged and overturned, specifically referencing the questionable changes recently adopted in NFPA-10. The NH Governor then instates a new State Fire Marshal citing, “he will work to ensure that New Hampshire continues to be the best state for business in the many years ahead.”
– May en-Gauge requests an emergency TIA
Ms. Dawn Michele Bellis  
Director and NFPA Standards Council Secretary  
National Fire Protection Association  
1 Batterymarch Park  
Quincy, Massachusetts 02169-7471  

August 6, 2018  

NFPA 10 TIA Log No.: 1378 Appeal  
Exhibit 5: ANSI NFPA Letter  

Dear Ms. Bellis,  

Please accept this letter as Exhibit 5 to our appeal of NFPA 10 2018. The attached letter is one we sent the state of New Hampshire a few years back to show en-Gauge’s willingness to comply with the ANSI/NFPA Patent Policy listed on the NFPA website.  

While this document does not have any direct bearing to the TIA itself, there were a number of mistruths shared in a public comment submitted by Mr. Len Daniels of New Hampshire, including that en-Gauge is limiting access to our technology. en-Gauge has always been willing to share access to our patents and technologies and are presently involved in a number of projects that due to non-disclosure agreements cannot be addressed.  

The fact that the only negative comment submitted pertaining to our TIA came from a Brooks Equipment customer / NAFED member in New Hampshire should not be looked at as a coincidence. Mr. Daniels challenged the New Hampshire code change in January of 2012, appealing the code to the NH Legislative Commerce Committee, which heard the challenge. Looking at the improved safety, the reduced risk and positive long term cost impact to business owners, the Committee listened to positive testimony from AJH’s and voted unanimously to support the code. Just a few months later NFPA-10 Committee members reversed their previous votes, and amended the Standard; directly minimizing the effectiveness of a listed, proven and correlated technology.  

en-Gauge is tremendously proud of the role our technology plays in providing 24/7 accountability and minimizing risk and exposure for end users while also lessening the burden of monthly inspections for them. We’ve been frustrated and disheartened by the unwarranted attacks the technology has had from members of NFPA-10, and we look forward to reinstating the established language and moving forth.  

Thank you,  

[Signature]  
John McSheffrey  
President  
en-Gauge Inc.
J. William Degnan  
State Fire Marshal  
Division of Fire Safety  
NH Department of Safety  
33 Hazen Drive  
Concord, NH 03305  

June 30, 2016  

Dear Fire Marshal Degnan,  

I am writing today regarding the technology to electronically monitor fire extinguishers. 

As the patent holder and a manufacturer of the technology, I would like to share with your office the ANSI/NFPA Patent Policy taken from the ANSI Essential Requirements: Due Process Requirements for American National Standards dated January, 2015. 

The document addresses the issue of code development and the inclusion of technology that may be single sourced at the time. Paraphrasing, the document permits the development of codes involving such technology provided that that patent holder make reasonable assurances that the patent will be available to be licensed under ‘reasonable terms and conditions that are demonstrably free of any unfair discrimination’. (Please see attached document) 

For the record, en-Gauge Inc. is committed to adhering to the ANSI/NFPA policy, welcomes inquiries to license our technology and assures the reasonable accessibility to our technology. 

Should anyone in your office have further questions about the technology or its availability, please do not hesitate to contact us. 

Thank you for your time and I wish your team and a safe and enjoyable Independence Day weekend. 

Best regards,  

[Signature]

John J. McSheffrey, Jr.  
President  
en-Gauge Inc.
March 30, 2018

Mr. James Pauley
President
National Fire Protection Association
1 Batterymarch Park
Quincy, Massachusetts 02169-7471

Dear President Pauley,

I am concerned about a few business entities directly involved with the NFPA-10 Standard for Portable Fire Extinguishers which may be manipulating the code process to undercut our state fire code. I am seeking the assistance of NFPA in reviewing and if appropriate rectifying changes orchestrated in NFPA-10.

While conducting a review of the 2018 codes in anticipation of proposing the code updates my review of NFPA 1- revealed changes that are not in the best interest of public safety and written to directly negate our requirement in New Hampshire of electronic fire extinguisher monitoring as allowed in previous editions of NFPA 10. One change that clearly demonstrates my concern is the addition of language in section 7.2.2 of “(5) Fullness determined by weighing or hefting” which any reputable fire extinguisher company will tell you that is not needed for pressurized dry chemical fire extinguishers. Another of which there are more, specifically pertaining to electronic monitoring, is the addition of 7.2.2.1 allowing the owner or agent to choose how their fire extinguishers are inspected.

In 2012, after a careful, thorough and highly vetted process with our legislature, the New Hampshire Department of Safety enhanced our state fire code, which references the NFPA Life Safety Code, by requiring new commercial construction of occupancies with fire alarms to also electronically monitor fire extinguishers. The continual accountability of fire extinguishers has proven to be an increase in fire safety across the state, while providing economic relief to end users relieved of the requirement of having to inspect extinguishers on a monthly basis along with the increase in reliability and decrease in vandalism.

The perception by some in the fire extinguisher industry is electronic monitoring is as a threat to their industry as they preferred to have extinguishers remain stand-alone and unaccountable. The actions of some in the NFPA 10 committee are clearly not in the best interest of public safety and serve to undermine many years of good work to review the process of electronic monitoring and implementing a means in New Hampshire to increase the reliability of fire
extinguishers while providing in some instances an earlier notification to the occupants of a building of a fire.

This type of action is both bad for fire safety and insulting to the fine people who work hard to develop smart and dependable codes. As you know, enforcing codes to ensure the best possible fire life safety is a daunting task and to face attacks from the very base of the code is wrong and disheartening.

I am requesting consideration for a review of the NFPA-10 Committee actions relative to electronic monitoring taken since the inception of our adoption in 2012. I think you will find that the proposals and actions taken by the committee to be worthy of consideration for reversal as the prior language was clear and concise to what electronic monitoring was expected to do for the end user.

Please do not hesitate to contact me with any questions.

Sincerely,

J. William. Degnan
Director/State Fire Marshal