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

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

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

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. **SA 18-8-1-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. **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 | ADDITION | 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 | ADDITION | 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 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 | 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 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 | 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)
| 18-8-3-b | Amendment No. 72-2 (CAM 72-2): Accept Public Comment No. 388. CAM 72-2 passed on the floor of the NFPA Technical Meeting. **FAILED** TC Ballot – 23 voting members/7 agree/14 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-b |
| 18-8-3-b-1 | **APPEAL** | 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) |
| 18-8-3-b-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 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) |
| 18-8-3-b-3 | **APPEAL** | 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. SA18-8-3-b-3 |
| 18-8-3-c | 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 |
| 18-8-3-c-1 | **APPEAL** | 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) |
| 18-8-3-c-2 | **APPEAL** | 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) |
| 18-8-3-a-1/b-1/c-1 | Comments received from TC Chair regarding CAMs 72-1, 72-2 and 72-4 Appeals | SA18-8-3-a-1/b-1/c-1 |
| 18-8-3-d | 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 |
| 18-8-3-d-1 | **APPEAL** | 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) |
| 18-8-3-d-2 | **APPEAL** | 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) |
| 18-8-3-d-3 | **APPEAL** | 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) |
| 18-8-3-d-4 | APPEAL | 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) |
| 18-8-3-e | ADDITION | 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 SA18-8-3-e |
| 18-8-3-e-1 | APPEAL | 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. See Attachment 18-8-3-e-1 |
| 18-8-3-e-1-a | ADDITION | Comments received by W. Olsen, Technical Committee Chair, Supervising Station Fire Alarm and Signaling Systems, on CAM 72-6 appeal. See Attachment 18-8-3-e-1-a |
| 18-8-4 | | 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 |
| 18-8-5 | | 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. |
| 18-8-5-a | ADDITION | 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 SA18-8-5-a |
| 18-8-5-a-1 | APPEAL | 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 b-1 |
| 18-8-5-b | ADDITION | 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 SA18-8-5-b |
| 18-8-5-b-1 | APPEAL | 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 SEE SA18-8-5-a-1/b-1 |
| 18-8-5-a-1-a/b-1-a | ADDITION | 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. See Attachment 18-8-5-a-1-a/b-1-a |
| 18-8-6 | | 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 |
| 18-8-7 | | 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. |
| 18-8-7-a | | 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* |

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Supplemental Agenda Standards Council Meeting August 13-15, 2018
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<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-8-8</td>
<td>Act on the issuance of NFPA 400, <em>Hazardous Materials Code</em>, 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>18-8-10</td>
<td>Act on the issuance of NFPA 1001, <em>Standard for Fire Fighter Professional Qualifications</em>, 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>18-8-10-a</td>
<td>Amendment No. 1001-1 (CAM 1001-1): Accept Public Comment No. 66. CAM 1001-1 passed on the floor of the NFPA Technical Meeting. FAILED TC Ballot – 30 voting members/16 agree/10 disagree/0 abstained/4 ballots not returned and PASSED 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 SA18-8-10-a</td>
</tr>
<tr>
<td>18-8-10-a-1</td>
<td>APPEAL</td>
</tr>
<tr>
<td></td>
<td>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 SA18-8-10-a-1</td>
</tr>
<tr>
<td>18-8-10-a-1-a</td>
<td>Comments received by W. Peterson, CC Chair, Professional Qualifications and J. Cunningham, TC Chair, Fire Fighter Professional Qualifications, on CAM 1001-1 appeal. See SA18-8-10-a-1-a and b-1-a ADDITION</td>
</tr>
<tr>
<td>18-8-10-a-1-b</td>
<td>Seven Comments received on CAM 1001-1 Appeal See SA18-8-10-a-1-b and b-1-b ADDITION</td>
</tr>
<tr>
<td>18-8-10-b</td>
<td>Amendment No. 1001-2 (CAM 1001-3): Accept Public Comment No. 17. CAM 1001-3 passed on the floor of the NFPA Technical Meeting. FAILED TC Ballot – 30 voting members/15 agree/11 disagree/0 abstained/4 ballots not returned and PASSED 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 SA18-8-10-b</td>
</tr>
<tr>
<td>18-8-10-b-1</td>
<td>APPEAL</td>
</tr>
<tr>
<td></td>
<td>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 SA18-8-10-b-1</td>
</tr>
<tr>
<td>18-8-10-b-1-a</td>
<td>Comments received by W. Peterson, CC Chair, Professional Qualifications and J. Cunningham, Technical Committee Chair, Fire Fighter Professional Qualifications, on CAM 1001-3 appeal. See SA18-8-10-b-1-a and b-1-a ADDITION</td>
</tr>
<tr>
<td>18-8-10-b-1-b</td>
<td>Eight Comments received on CAM 1001-3 Appeal See SA18-8-10-b-1-b and b-1-b ADDITION</td>
</tr>
<tr>
<td>18-8-11-a</td>
<td>Amendment No. 1730-1 (CAM 1730-2): Accept Public Comment No. 1. CAM 1730-2 passed on the floor of the NFPA Technical Meeting. FAILED TC Ballot – 30 voting members/12 agree/10 disagree/0 abstained/8 ballots not returned. See Attachment 18-8-11-a</td>
</tr>
<tr>
<td>Date</td>
<td>Action</td>
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<tr>
<td>18-8-12</td>
<td>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</td>
</tr>
<tr>
<td>18-8-13</td>
<td>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)</td>
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<tr>
<td>18-8-13-a</td>
<td>Text of proposed TIA No. 1362. See Attachment 18-8-13-a</td>
</tr>
<tr>
<td>18-8-13-b</td>
<td>Ballot results of TIA No. 1362. <strong>PASSED</strong> 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</td>
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<tr>
<td>18-8-13-c</td>
<td>One comment was received. See Attachment 18-8-13-c</td>
</tr>
<tr>
<td>18-8-14</td>
<td>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).</td>
</tr>
<tr>
<td>18-8-14-a</td>
<td>Text of proposed TIA No. 1378. See Attachment 18-8-14-a</td>
</tr>
<tr>
<td>18-8-14-b</td>
<td>Ballot results of TIA No. 1378. <strong>FAILED</strong> 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</td>
</tr>
<tr>
<td>18-8-14-c</td>
<td>Three comments were received.</td>
</tr>
<tr>
<td>18-8-14-d</td>
<td><strong>APPEAL</strong> 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</td>
</tr>
<tr>
<td>18-8-14-d-1</td>
<td>One comment received on TIA 1378, NFPA 10. SA18-8-14-d-1 ADDITION</td>
</tr>
<tr>
<td>18-8-15</td>
<td>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).</td>
</tr>
<tr>
<td>18-8-15-a</td>
<td>Text of proposed TIA No. 1367. See Attachment 18-8-15-a</td>
</tr>
<tr>
<td>18-8-15-b</td>
<td>Ballot results of TIA No. 1367. <strong>FAILED</strong> 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. <strong>FAILED</strong> 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</td>
</tr>
<tr>
<td>18-8-15-c</td>
<td>No comments were received.</td>
</tr>
<tr>
<td>18-8-16</td>
<td>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).</td>
</tr>
<tr>
<td>18-8-16-a</td>
<td>Text of proposed TIA No. 1384. See Attachment 18-8-16-a</td>
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<tr>
<td>18-8-16-b</td>
<td>Final ballot results of TIA No. 1384. <strong>PASSED</strong> 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. <strong>PASSED</strong> 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</td>
</tr>
<tr>
<td>18-8-16-c</td>
<td>No comments were received.</td>
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<td>Date</td>
<td>Action Description</td>
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<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>
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<tr>
<td>18-8-17-a</td>
<td>Text of proposed TIA No. 1385. See Attachment 18-8-17-a</td>
</tr>
<tr>
<td>18-8-17-b</td>
<td>Ballot results of TIA No. 1385. <strong>FAILED</strong> 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. <strong>FAILED</strong> 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 SA18-8-17-b</td>
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<tr>
<td>18-8-17-c</td>
<td>Two comments were received. See Attachment 18-8-17-c</td>
</tr>
<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>
</tr>
<tr>
<td>18-8-18-a</td>
<td>Text of proposed TIA No. 1358. See Attachment 18-8-18-a</td>
</tr>
<tr>
<td>18-8-18-b</td>
<td>Ballot results of TIA No. 1358. <strong>PASSED</strong> 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>
</tr>
<tr>
<td>18-8-18-c</td>
<td>One comment was received. See Attachment 18-8-18-c</td>
</tr>
<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>
</tr>
<tr>
<td>18-8-19-a</td>
<td>Text of proposed TIA No. 1364. See Attachment 18-8-19-a</td>
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<tr>
<td>18-8-19-b</td>
<td>Ballot results of TIA No. 1364. <strong>PASSED</strong> 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>
</tr>
<tr>
<td>18-8-19-c</td>
<td>No comments were received.</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>18-8-20-a</td>
<td>Text of proposed TIA No. 1359. See Attachment 18-8-20-a</td>
</tr>
<tr>
<td>18-8-20-b</td>
<td>Ballot results of TIA No. 1359. <strong>PASSED</strong> TC Ballot on both technical merit and emergency nature – 28 voting members/24 agree on technical merit/2 disagree/0 abstained/2 balls not returned/24 agree on emergency nature/1 disagree/1 abstained/2 ballots not returned. See Attachment 18-8-20-b</td>
</tr>
<tr>
<td>18-8-20-c</td>
<td>Six comments was received. See Attachment 18-8-20-c</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>18-8-21-a</td>
<td>Text of proposed TIA No. 1370. See Attachment 18-8-21-a</td>
</tr>
<tr>
<td>18-8-21-b</td>
<td>Final ballot results of TIA No. 1370. <strong>PASSED</strong> 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 SA18-8-21-b</td>
</tr>
<tr>
<td>18-8-21-c</td>
<td>No comments were received.</td>
</tr>
<tr>
<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>
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</tbody>
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<p>| 18-8-22-a | Text of proposed TIA No. 1357. See Attachment 18-8-22-a |
| 18-8-22-b | Ballot results of TIA No. 1357. <strong>PASSED Panel</strong> 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 CC</strong> 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 |
| 18-8-22-c | Two comments were received. See Attachment 18-8-22-c |
| 18-8-23 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section 29.8.3.4(5) of the 2016 edition of <em>NFPA 72, National Fire Alarm and Signaling Code</em> (TIA No. 1345) |
| 18-8-23-a | Text of proposed TIA No. 1345. See Attachment 18-8-23-a |
| 18-8-23-b | 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 |
| 18-8-23-b-1 | Comment of R. Schifiliti, R.P. Schifiliti Associates, Inc., regarding TIA No. 1345. See Attachment 18-8-23-b-1 |
| 18-8-23-c | Two comments were received. See Attachment 18-8-23-c SA18-3-23-c |
| 18-8-24 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to delete section 29.7.3 in its entirety of the 2016 edition of <em>NFPA 72, National Fire Alarm and Signaling Code</em> (TIA No. 1346) |
| 18-8-24-a | Text of proposed TIA No. 1346. See Attachment 18-8-24-a |
| 18-8-24-b | 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/2 disagree/0 abstained/17 agree on emergency nature/1 disagree/0 abstained/1 ballot not returned. <strong>FAILED CC</strong> Ballot: passed on correlation but failed 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 |
| 18-8-24-b-1 | Comment of R. Schifiliti, R.P. Schifiliti Associates, Inc., regarding TIA No. 1346. See Attachment 18-8-24-b-1 |
| 18-8-24-c | Two comments were received. See Attachment 18-8-24-c SEE SA18-8-23-c |
| 18-8-24-d | 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 |
| 18-8-25 | Act on the issuance of proposed Tentative Interim Amendment (TIA) to revise section A.24.3.10 of the proposed 2019 edition of <em>NFPA 72, National Fire Alarm and Signaling Code</em> (TIA No. 1377) |
| 18-8-25-a | Text of proposed TIA No. 1377. See Attachment 18-8-25-a |
| 18-8-25-b | 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 SA18-8-25-b |
| 18-8-25-c | Two comments were received. See Attachment 18-8-25-c |</p>
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<tr>
<th>Date</th>
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<tr>
<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>
<td>Text of proposed TIA No. 1360. See Attachment 18-8-26-a</td>
</tr>
<tr>
<td>18-8-26-b</td>
<td>Ballot results of TIA No. 1360. FAILED 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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<tr>
<td>18-8-26-c</td>
<td>No comments were received.</td>
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<tr>
<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>
<td>Text of proposed TIA No. 1298. See Attachment 18-8-27-a</td>
</tr>
<tr>
<td>18-8-27-b</td>
<td>Preliminary ballot results of TIA No. 1298. FAILED 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. FAILING 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</td>
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<tr>
<td>18-8-27-c</td>
<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>
<td>Text of proposed TIA No. 1311. See Attachment 18-8-28-a</td>
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<tr>
<td>18-8-28-b</td>
<td>Preliminary ballot results of TIA No. 1311. FAILED 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. 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 18-8-28-b</td>
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<tr>
<td>18-8-28-c</td>
<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>
<td>Text of proposed TIA No. 1312. See Attachment 18-8-29-a</td>
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<tr>
<td>18-8-29-b</td>
<td>Preliminary ballot results of TIA No. 1312. FAILED 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. 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 18-8-29-b</td>
<td></td>
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<tr>
<td>18-8-29-c</td>
<td>No comments were received.</td>
<td></td>
</tr>
<tr>
<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>
<td>Text of proposed TIA No. 1313. See Attachment 18-8-30-a</td>
</tr>
<tr>
<td>18-8-30-b</td>
<td>Preliminary ballot results of TIA No. 1313. 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</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
| 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/23 agree on emergency nature/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/20 agree on emergency nature/0 disagree/0 abstained/10 ballots not returned. See Attachment 18-8-35-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/23 agree on emergency nature/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/21 agree on emergency nature/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/23 agree on emergency nature/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/23 agree on emergency nature/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/14 agree on emergency nature/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/21 agree on emergency nature/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)

| 18-8-39-a | Text of proposed TIA No. 1376. See Attachment 18-8-39-a |
| 18-8-39-b | Ballot results of TIA No. 1376. **PASSED** 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. **PASSED** 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 |
| 18-8-39-c | No comments were received |

**18-8-40** 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, *Building Construction and Safety Code* (TIA No. 1379)

| 18-8-40-a | Text of proposed TIA No. 1379. See Attachment 18-8-40-a |
| 18-8-40-b | Preliminary ballot results of TIA No. 1379. **FAILED** 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. **FAILING** 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 |
| 18-8-40-c | No comments were received |

**18-8-41** 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, *Building Construction and Safety Code* (TIA No. 1380)

| 18-8-41-a | Text of proposed TIA No. 1380. See Attachment 18-8-41-a |
| 18-8-41-b | Preliminary ballot results of TIA No. 1380. **FAILED** 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. **FAILING** 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 |
| 18-8-41-c | No comments were received |

**18-8-42** 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, *Building Construction and Safety Code* (TIA No. 1381)

| 18-8-42-a | Text of proposed TIA No. 1381. See Attachment 18-8-42-a |
| 18-8-42-b | Preliminary ballot results of TIA No. 1381. **FAILED** 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. **FAILING** 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 |
| 18-8-42-c | No comments were received |

**18-8-43** The following 2018 Annual Revision Cycle Standards passed letter ballot of the Council as Consent Standards with the following issuance dates and effective dates:

The following 2018 Fall Revision Cycle Standards passed letter ballot of the Council as Consent Standards with the following issuance dates and effective dates:

- **NFPA 16**  
  *Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*  
  **Issuance Date: May 5, 2018 and Effective Date: May 25, 2018**

- **NFPA 211**  
  *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*  
  **Issuance Date: July 26, 2018 and Effective Date: August 15, 2018**

- **NFPA 551**  
  *Guide for the Evaluation of Fire Risk Assessments*  
  **Issuance Date: March 15, 2018 and Effective Date: April 4, 2018**

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**18-8-44**

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

**18-8-45**

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 affected.  

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 |
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

Consider requests from NFPA Committees to change revision cycles for the following documents:

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<td>37</td>
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<td>F2020</td>
<td>1 time move</td>
<td>3 to 3 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>2018 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>3 to 3 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>260</td>
<td>2019 A2023</td>
<td>F2022</td>
<td>1 time move</td>
<td>5 to 4 ½ rev cycle</td>
<td></td>
</tr>
<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>
<td></td>
</tr>
<tr>
<td>289*</td>
<td>2019 A2023</td>
<td>F2022</td>
<td>1 time move</td>
<td>5 to 4 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>318</td>
<td>2018 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>3 to 3 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>409</td>
<td>2016 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>5 to 5 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>415</td>
<td>2016 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>5 to 5 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>423</td>
<td>2016 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>5 to 5 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>450</td>
<td>2018 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>4 to 4 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>520</td>
<td>2016 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>5 to 5 ½ rev cycle</td>
<td></td>
</tr>
<tr>
<td>555</td>
<td>2017 A2020</td>
<td>F2020</td>
<td>1 time move</td>
<td>4 to 4 ½ rev cycle</td>
<td></td>
</tr>
<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>
</tbody>
</table>

* Proposed Issuance at August 2018 Meeting

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>


| 18-8-54 | 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>December 6-7, 2018 (Revised)</td>
<td></td>
</tr>
<tr>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>No Attachment</td>
<td></td>
</tr>
</tbody>
</table>
Chapter 6 Storage in Warehouses and Storage Areas

6.1 Basic Requirements.

6.1.1 The protection criteria in this chapter shall apply to the following:

(1) Level 1 Aerosol Products in metal containers not more than 1000 ml (33.8 fl oz) capacity, in accordance with Section 6.2

(2) Aerosol Cooking Spray Products in metal containers not more than 1000 ml (33.8 fl oz) capacity, in accordance with Section 6.3

(3) Level 2 and Level 3 Aerosol Products in metal containers not more than 1000 ml (33.8 fl oz) capacity, in accordance with Section 6.4

(4) Aerosol products in glass and plastic containers not more than 118 ml (4 fl oz) capacity, in accordance with Section 6.4

(5) Plastic Aerosol 1 Products in plastic containers greater than 118 ml (4 fl oz) capacity and not more than 1000 ml (33.8 fl oz) capacity, in accordance with Section 6.5

(6) Plastic Aerosol 3 Products in plastic containers greater than 118 ml (4 fl oz) capacity and not more than 1000 ml (33.8 fl oz) capacity, in accordance with Section 6.4

6.1.2 All outer packaging of aerosol products, including cartons, trays, shrouds, or other packaging, shall be identified on at least one side with the classification of the aerosol products in accordance with Section 1.9 and with one of the following, whichever is appropriate:

(a) Level ____ Aerosols

or

(b) Aerosol Cooking Spray

or

(c) Plastic Aerosol 1, 3 (or X)

or

(d) Plastic Aerosol 3

or

(e) Plastic Aerosol X

...

6.4 Storage of Level 2 and Aerosol, Level 3 Aerosol, and Plastic Aerosol 3 Products.

6.4.1 The storage of Level 2 and Aerosol, Level 3 Aerosol, and Plastic Aerosol 3 Products shall be in accordance with Section 6.4.

...

6.4.2 Fire Protection — Basic Requirements.

6.4.2.1 Storage of Level 2 and Aerosol, Level 3 Aerosol, and Plastic Aerosol 3 Products shall not be permitted in basement areas of warehouses.
6.4.2.1.1 Storage of Level 2 and Aerosol, Level 3 Aerosol, and Plastic Aerosol 3 Products shall be permitted as provided for in 6.4.3.

...  

6.4.2.2 Encapsulated storage of uncartoned Level 2 and Level 3 Aerosol Products on slip sheets or in trays shall be permitted.

6.4.2.2.3 Plastic Aerosol 3 products shall not be encapsulated.

6.4.2.2.4 Plastic Aerosol 3 products shall only be packaged in cartons.

...  

6.4.2.7

Where required by Chapter 6, wet-pipe automatic sprinkler protection shall be provided in accordance with Table 6.4.2.7(a) through Table 6.4.2.7(lm) and, Figure 6.4.2.7(a) through Figure 6.4.2.7(e), and Section 6.6 as designated in the corresponding table(s). Protection shall be based on the highest level of aerosol product present. No protection criteria have been established for the protection of palletized and solid piled storage of uncartoned Level 3 Aerosol Products, palletized/solid piled storage of Plastic Aerosol 3 Products, or any storage of Plastic Aerosol X Products. The tables are as follows:

(1) Table 6.4.2.7(a) Palletized and Solid Pile Storage of Cartoned Level 2 and Level 3 Aerosol Products (Metric Units)

(2) Table 6.4.2.7(b) Palletized and Solid Pile Storage of Cartoned Level 2 and Level 3 Aerosol Products (English Units)

(3) Table 6.4.2.7(c) Palletized and Solid Pile Storage of Uncartoned Level 2 Aerosol Products (Metric Units)

(4) Table 6.4.2.7(d) Palletized and Solid Pile Storage of Uncartoned Level 2 Aerosol Products (English Units)

(5) Table 6.4.2.7(e) Rack Storage of Cartoned Level 2 Aerosol Products (Metric Units)

(6) Table 6.4.2.7(f) Rack Storage of Cartoned Level 2 Aerosol Products (English Units)

(7) Table 6.4.2.7(g) Rack Storage of Cartoned Level 3 Aerosol Products (Metric Units)

(8) Table 6.4.2.7(h) Rack Storage of Cartoned Level 3 Aerosol Products (English Units)

(9) Table 6.4.2.7(i) Rack Storage of Uncartoned Level 2 Aerosol Products (Metric Units)

(10) Table 6.4.2.7(j) Rack Storage of Uncartoned Level 2 Aerosol Products (English Units)

(11) Table 6.4.2.7(k) Rack Storage of Uncartoned Level 3 Aerosol Products (Metric Units)

(12) Table 6.4.2.7(l) Rack Storage of Uncartoned Level 3 Aerosol Products (English Units)

(13) Table 6.4.2.7(m) Rack Storage of Plastic Aerosol 3 Products (Metric/English Units)

...  

Table 6.4.2.7(g) Rack Storage of Cartoned Level 3 Aerosol Products (Metric Units)

<table>
<thead>
<tr>
<th>Maximum Roof Height (m)</th>
<th>Maximum Storage Height (m)</th>
<th>Ceiling Sprinkler Protection Criteria</th>
<th>In-Rack Sprinkler Protection Criteria</th>
<th>Layou t</th>
<th>Sprinkler Type</th>
<th>Flood Ar ea (# sprinklers discharge pressure)</th>
<th>Response/ Nominal Temperature Rating (L/min/bar 0.5)</th>
<th>Discharge Flow (L/min)</th>
<th>Hose Stream Demand (L/min)</th>
<th>Water Supply Duration (hr)</th>
</tr>
</thead>
</table>

...
### Table 6.4.2.7(h) Rack Storage of Cartoned Level 3 Aerosol Products (English Units)

<table>
<thead>
<tr>
<th>Maximum Roof Height (ft)</th>
<th>Maximum Storage Height (ft)</th>
<th>Ceiling Sprinkler Protection Criteria</th>
<th>In-Rack Sprinkler Protection Criteria</th>
<th>Hose Stream Demand (gpm)</th>
<th>Water Supply Duration (hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlitted</td>
<td>Unlitted</td>
<td>Any</td>
<td>Any</td>
<td>950</td>
<td>1</td>
</tr>
</tbody>
</table>


Note: See 6.4.2.9.1 for in-rack sprinkler design.

*Ceiling-only protection design permitted only for single- and double-row rack arrangements.

### Table 6.4.2.7(i) Rack Storage of Uncartonned Level 2 Aerosol Products (Metric Units)

<table>
<thead>
<tr>
<th>Maximum Roof Height (m)</th>
<th>Maximum Storage Height (m)</th>
<th>Ceiling Sprinkler Protection Criteria</th>
<th>In-Rack Sprinkler Protection Criteria</th>
<th>Hose Stream Demand (L/min)</th>
<th>Water Supply Duration (hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlitted</td>
<td>Unlitted</td>
<td>Any</td>
<td>Any</td>
<td>950</td>
<td>1</td>
</tr>
</tbody>
</table>


Note: See 6.4.2.9.1 for in-rack sprinkler design.

*Ceiling-only protection design permitted only for single- and double-row rack arrangements.
Table 6.4.2.7(j) Rack Storage of Uncarton Level 2 Aerosol Products (English Units)

<table>
<thead>
<tr>
<th>Maximum Roof Height (ft)</th>
<th>Maximum Storage Height (ft)</th>
<th>Ceiling Sprinkler Protection Criteria</th>
<th>In-Rack Sprinkler Protection Criteria</th>
<th>Hose Stream Demand (gpm)</th>
<th>Water Supply Duration (hr)</th>
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</thead>
<tbody>
<tr>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Any</td>
<td>Any</td>
<td>See 6.6.1 Fire Protection System Design Scheme A</td>
<td>250</td>
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</table>


Note: See 6.4.2.9.1 for in-rack sprinkler design.

*Ceiling-only protection design permitted only for single- and double-row rack arrangements.

Table 6.4.2.7(k) Rack Storage of Uncarton Level 3 Aerosol Products (Metric Units)

<table>
<thead>
<tr>
<th>Maximum Roof Height (m)</th>
<th>Maximum Storage Height (m)</th>
<th>Ceiling Sprinkler Protection Criteria</th>
<th>In-Rack Sprinkler Protection Criteria</th>
<th>Hose Stream Demand (L/min)</th>
<th>Water Supply Duration (hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Any</td>
<td>Any</td>
<td>See 6.6.1 Fire Protection System Design Scheme A</td>
<td>950</td>
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</tbody>
</table>


Note: See 6.4.2.9.1 for in-rack sprinkler design.
### Table 6.4.2.7(l) Rack Storage of Uncartonied Level 3 Aerosol Products (English Units)

<table>
<thead>
<tr>
<th>Maximum Roof Height (ft)</th>
<th>Maximum Storage Height (ft)</th>
<th>Ceiling Sprinkler Protection Criteria</th>
<th>In-Rack Sprinkler Protection Criteria</th>
<th>Hose Stream Demand (gpm)</th>
<th>Water Supply Duration (hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlimited</td>
<td>Unlimit ed</td>
<td>Any</td>
<td>Any</td>
<td>See 6.6.1 Fire Protection System Design Scheme A</td>
<td>250</td>
</tr>
</tbody>
</table>


### Table 6.4.2.7(m) Rack Storage of Plastic Aerosol 3 Products (Metric/English Units)

<table>
<thead>
<tr>
<th>Maximum Roof Height (ft)</th>
<th>Maximum Storage Height (ft)</th>
<th>Ceiling Sprinkler Protection Criteria</th>
<th>In-Rack Sprinkler Protection Criteria</th>
<th>Hose Stream Demand (gpm)</th>
<th>Water Supply Duration (hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlimit ed</td>
<td>Unlimit ed</td>
<td>Any</td>
<td>Any</td>
<td>See 6.6.1 Fire Protection System Design Scheme A</td>
<td>950 (250)</td>
</tr>
</tbody>
</table>

### 6.4.2.7.1
The protection criteria in Table 6.4.2.7(a) through Table 6.4.2.7(lm) shall only be used with ceilings having a pitch of 2 in 12 or less.

### 6.4.2.8
Protection criteria that are developed based on full-scale fire tests performed at an approved test facility shall be considered an acceptable alternative to the protection criteria set forth in Table 6.4.2.7(a) through Table 6.4.2.7(lm). Such alternative protection criteria shall be subject to the approval of the AHJ.

### 6.4.2.9
Installation of in-rack sprinklers shall be in accordance with NFPA 13 as modified by Table 6.4.2.7(e) through Table 6.4.2.7(lm) and fire protection system design schemes in Section 6.6.
6.4.2.9.1  Installation and design of in-rack sprinklers used in defined fire protection system design schemes shall be in accordance with Section 6.6.

6.4.2.9.12 The in-rack sprinkler water demand shall be based on the simultaneous operation of the most hydraulically remote sprinklers as follows:

1. Sprinkler design parameters shall be in accordance with Table 6.4.2.7(a) through Table 6.4.2.7(l), whichever is applicable.
2. In-rack design flows indicated in Table 6.4.2.7(e) through Table 6.4.2.7(l) shall be provided, but in no case shall the end-sprinkler discharge gauge pressure be less than 0.69 bar (10 psi).
3. Eight (8) sprinklers where only one level of in-rack sprinklers is provided.
4. Twelve (12) sprinklers [six (6) sprinklers on two levels] where only two levels of in-rack sprinklers are provided.
5. Eighteen (18) sprinklers [six (6) sprinklers on the top three levels] where more than two levels of in-rack sprinklers are provided.

6.4.2.9.23 Where in-rack sprinklers are not shielded by horizontal barriers, water shields shall be provided above the sprinklers or listed intermediate level/rack sprinklers shall be used.

6.4.2.9.34 When in-rack sprinklers are necessary to protect a higher hazard commodity that occupies only a portion of the length of a rack, the following shall apply:

1. In-rack sprinklers shall be extended a minimum of 2.4 m (8 ft) or one bay, whichever is greater, in each direction along the rack on either side of the higher hazard.
2. The in-rack sprinklers protecting the higher hazard shall not be required to be extended across the aisle.

6.4.2.9.45 Where a storage rack, due to its length, requires less than the number of in-rack sprinklers specified, only those in-rack sprinklers in a single rack need to be included in the calculation.

6.4.2.9.56 * In-rack sprinklers shall be located at an intersection of the transverse and longitudinal flues while not exceeding the maximum spacing rules.

6.4.2.9.56.1 Where no transverse flues exist, in-rack sprinklers shall not exceed the maximum spacing rules.

6.4.2.9.67 A minimum 150 mm (6 in.) vertical clearance shall be maintained between the sprinkler deflectors and the top of the tier of storage.

6.4.2.9.78 Horizontal barriers used in conjunction with in-rack sprinklers to impede vertical fire development shall be constructed of minimum 22 ga sheet metal, 10 mm (⅜ in.) plywood, or similar material and shall extend the full length and depth of the rack.

6.4.2.9.78.1 Barriers shall be fitted within 50 mm (2 in.) horizontally around rack uprights.

6.4.2.10 Installations of hose connections shall meet the requirements of NFPA 13.

6.4.2.11 Subject to the approval of the AHJ, hose stations shall not be required to be installed in storage areas.

6.4.2.11 Storage height and building heights shall comply with Table 6.4.2.7(a) through Table 6.4.2.7(lm).

...
6.4.2.19  A minimum aisle width of 2.4 m (8 ft) shall be used for the storage of Plastic Aerosol 3 Products.

6.4.2.19(20) Solid pile and palletized storage shall be arranged so that no storage in more than 7.6 m (25 ft.) from an aisle. Aisles shall be not less than 1.2 m (4 ft.) wide.

6.4.3 Limited-Quantity Storage in Occupancies Other Than Warehouses.

6.4.3.1 Storage of Level 2 and Aerosol Products, Level 3 Aerosol Products, and Plastic Aerosol 3 Products in a single fire area in occupancies other than warehouses or mercantile occupancies, such as assembly, business, educational, industrial, and institutional occupancies, shall be permitted up to one of the following quantities:

1. A maximum of 454 kg (1000 lb) net weight of Level 2 Aerosol Products
2. A maximum of 227 kg (500 lb) net weight of Level 3 Aerosol Products
3. A maximum of 227 kg (500 lb) net weight of Plastic Aerosol 3 Products

6.4.3.2 The combined net weight of Level 2 and Aerosol Products, Level 3 Aerosol Products, and Plastic Aerosol 3 Products shall not exceed 454 kg (1000 lb).

6.4.3.4 Where Level 2 and Aerosol Products, Level 3 Aerosol Products, and Plastic Aerosol 3 Products are stored in quantities greater than those allowed by 6.4.3.1, 6.4.3.2, or 6.4.3.3, such quantities shall be stored in a separate inside storage area meeting the requirements of 6.4.7.

6.4.4 Limited-Quantity Storage in General-Purpose Warehouses.

6.4.4.1 Subject to the approval of the AHJ, solid pile, palletized, or rack storage of Level 2 and Aerosol Product, Level 3 Aerosol Products, and Plastic Aerosol 3 Product shall be permitted in a general-purpose warehouse that is either unsprinklered or not protected in accordance with this code up to one of the following quantities:

1. A maximum of 1135 kg (2500 lb) net weight of Level 2 Aerosol Products
2. A maximum of 454 kg (1000 lb) net weight of Level 3 Aerosol Products
3. A maximum of 454 kg (1000 lb) net weight of Plastic Aerosol 3 Products

6.4.4.2 The combined net weight of Level 2 and Aerosol Product, Level 3 Aerosol Products, and Plastic Aerosol 3 Product shall not exceed 1135 kg (2500 lb).

6.4.4.4 Subject to the approval of the AHJ, rack storage of Level 2 and Aerosol Product, Level 3 Aerosol Products, and Plastic Aerosol 3 Product shall be permitted in a general-purpose warehouse that is protected throughout by an automatic sprinkler system up to a maximum total quantity of 10,900 kg (24,000 lb) combined net weight of Level 2 and Aerosol Product, Level 3 Aerosol Products, and Plastic Aerosol 3 Product, subject to the following:

1. The sprinkler system in the Level 2 and Aerosol Product, Level 3 and Plastic Aerosol 3 Product storage area shall be designed in accordance with Table 6.4.2.7(e) through Table 6.4.2.7(1m). The ceiling sprinkler system design shall extend for 6 m (20 ft) beyond the aerosol products storage area.
2. Storage of aerosol products shall be separated from storage of flammable and combustible liquids by at least 8 m (25 ft).

6.4.5 Segregated Aerosol Product Storage Areas in General-Purpose Warehouses.

6.4.5.1 Segregated storage of Level 2 and, Level 3, and Plastic Aerosol 3 Products in a general-purpose warehouse shall only be in a warehouse that is protected throughout by an automatic sprinkler system that is designed in accordance with NFPA 13.
6.4.5.2 Solid pile, palletized, or rack storage of Level 2 and, Level 3, and Plastic Aerosol 3 Products in excess of the maximum quantities given in 6.4.4.1 through 6.4.4.4 shall be protected in accordance with the requirements in 6.4.5.3 through 6.4.5.7.

6.4.5.3 Storage of Level 2 and, Level 3, and Plastic Aerosol 3 Products shall be in a segregated area separated from the rest of the warehouse by interior walls, chain-link fencing, or a separation area, in accordance with the requirements of 6.4.5.3.1 through 6.4.5.3.3.

... 

Table 6.4.5.3.1.1 Fire Protection Ratings for Fire Doors

... 

(A) For interior walls having a fire resistance rating of 2 hours, the total floor area of the segregated Level 2 and, Level 3, and Plastic Aerosol 3 Product storage area(s) shall not exceed 25 percent of the total floor area of the warehouse, up to a maximum of 3,660 m² (40,000 ft²).

(B) For interior walls having a fire resistance rating of 1 hour, the total floor area of the segregated Level 2 and, Level 3, and Plastic Aerosol 3 Product storage area(s) shall not exceed 20 percent of the total floor area of the warehouse, up to a maximum of 2,745 m² (30,000 ft²).

6.4.5.3.2 Chain-link fencing shall extend from the floor to the underside of the roof deck or ceiling and shall meet the following requirements:

(1) The total floor area of the segregated Level 2 and, Level 3, and Plastic Aerosol 3 Product storage area(s) shall not exceed 20 percent of the total area of the warehouse, up to a maximum of 1,830 m² (20,000 ft²).

... 

6.4.5.3.3 Subject to the approval of the authority having jurisdiction, a separation area shall extend outward from the periphery of the segregated aerosol product storage area and shall meet the following requirements:

(1) The total floor area of the segregated Level 2 and, Level 3, and Plastic Aerosol 3 Product storage area(s) shall not exceed 15 percent of the total area of the warehouse, up to a maximum of 1,830 m² (20,000 ft²).

... 

6.4.5.4 Sprinkler protection shall be provided for segregated aerosol product storage areas in accordance with Table 6.4.2.7(a) through Table 6.4.2.7(hm). Protection shall be provided for the highest level of aerosol products present.

6.4.5.5 An approved fire alarm system, meeting the requirements of Section 4.7, shall be provided throughout buildings used for the warehousing of segregated Level 2 or, Level 3, and Plastic Aerosol 3 Products.

... 

6.4.6 Aerosol Product Warehouses.

6.4.6.1 Storage of Level 2 and, Level 3, and Plastic Aerosol 3 Products in excess of the amounts permitted in 6.4.4 and 6.4.5 shall be located within an aerosol product warehouse.
6.4.6.2 Aerosol product warehouses shall be protected by automatic sprinkler systems in accordance with Table 6.4.2.7(a) through Table 6.4.2.7(lm).

... 

6.4.6.7 Combustible commodities, other than flammable and combustible liquids, shall be permitted to be stored in an aerosol product warehouse, provided the warehouse is protected in accordance with Table 6.4.2.7(a) through Table 6.4.2.7(lm), whichever is applicable. 

6.4.6.7.1 Flammable and combustible liquids in metal containers of 0.9 L (1 qt) capacity or less shall be permitted to be stored in an aerosol product warehouse, provided the warehouse is protected in accordance with Table 6.4.2.7(e) through Table 6.4.2.7(lm).

... 

6.4.9 Outdoor Storage. 

6.4.9.1 Level 2- and Level 3, and Plastic Aerosol 3 Products that are stored outdoors shall be separated from important buildings or structures.

6.4.9.2 A minimum 15 m (50 ft) separation shall be maintained between Level 2- and Level 3, and Plastic Aerosol 3 Products and other combustible yard storage.

... 

6.6 Fire Protection System Design Schemes. 

6.6.1 Fire Protection System Design Scheme A. 

6.6.1.1 Horizontal barriers of plywood having a minimum thickness of 10 mm (⅜ in.) or of sheet metal of minimum 22 gauge thickness shall be installed in accordance with Figure 6.6.1.1(a), Figure 6.6.1.1(b), Figure 6.6.1.1(c), or Figure 6.6.1.1(d), whichever is applicable. 

All aerosol product storage shall be located beneath a barrier.

6.6.1.2 Aisles between racks shall be 2.4 m (8 ft).

6.6.1.3 In-rack sprinklers shall be installed in accordance with Figure 6.6.1.1(a), Figure 6.6.1.1(b), Figure 6.6.1.1(c), or Figure 6.6.1.1(d), whichever is applicable.

6.6.1.4 In-rack sprinklers shall meet the following requirements:

6.6.1.4.1 In-rack sprinklers shall be ordinary temperature-rated quick-response sprinklers and shall have a nominal K-factor equal to or greater than 120 L/min/bar$^{1/2}$ (8.0 gpm/psi$^{1/2}$).

Intermediate temperature sprinklers shall be used where ambient conditions require.

6.6.1.4.2 In-rack sprinklers shall be installed below each barrier level.

6.6.1.4.3 For aerosol products in metal containers:

(1) In-rack sprinklers shall provide a minimum operating flow of 220 L/min (57 gpm).

(2) For one barrier level, design shall include the hydraulically most remote six sprinklers (three on two lines)

(3) For two or more barrier levels, design shall include the hydraulically most remote eight sprinklers (four on two lines)

(4) The minimum in-rack sprinkler discharge pressure shall not be less than a gauge pressure of 0.69 bar (10 psi).

6.6.1.4.4 For Plastic Aerosol 3 products:

(1) In-rack sprinklers shall provide a minimum operating flow of 220 L/min (57 gpm).

(2) The design shall include the hydraulically most remote seven sprinklers on one level in one rack and the most remote seven sprinklers on one level in the adjacent rack (14 total in-rack sprinklers).

(3) The minimum in-rack sprinkler discharge pressure shall not be less than a gauge pressure of 0.69 bar (10 psi).
6.6.1.5 Where adjacent rack bays are not dedicated to storage of aerosols, the barrier and in-rack sprinkler protection shall be extended at least 2.4 m (8 ft) beyond the area devoted to aerosol product storage. In addition, barrier and in-rack sprinkler protection shall be provided for any rack across the aisle within 2.4 m (8 ft) of the perimeter of the aerosol product storage. 

6.6.1.6 Ceiling sprinkler demand shall not be included in the hydraulic calculations for in-rack sprinklers.

6.6.1.7 Water demand at point of supply shall be calculated separately for in-rack and ceiling sprinklers and shall be based on the greater demand.

6.6.1.8 Ceiling sprinklers shall meet the following requirements:

1. Ceiling sprinkler protection shall be designed to protect the surrounding occupancy.
2. Any sprinkler type shall be acceptable.
3. If standard spray sprinklers are used, they shall be capable of providing not less than 8 mm/min (0.20 gpm/ft²).
4. If the aerosol product storage does not extend to the full height of the rack, protection for commodities stored above the top horizontal barrier shall meet the requirements of NFPA13 for the commodities stored, based on the full height of the rack.
Figure 6.6.1.1(a) Single-Row Rack Sprinkler Layout for Design Scheme A.
Figure 6.6.1.1(b) Single-Row Rack Sprinkler Layout for Design Scheme A.
Figure 6.6.1.1(c) Double-Row Rack Sprinkler Layout for Design Scheme A.
Figure 6.6.1.1(d) Multiple-Row Rack Sprinkler Layout for Design Scheme A.
2. Revise Chapter 7 to read as follows:

Chapter 7 Mercantile Occupancies

... 

7.2.2 When located in sales display areas, Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products shall be removed from combustible cartons or the combustible cartons shall be display-cut, except as provided for in 7.2.2.1, and 7.2.2.2, and 7.2.2.3, respectively.

...

7.2.2.3 Cartoned Plastic Aerosol 3 Products shall be permitted in the sales display area, provided that the area is protected in accordance with one of the following:
   (1) Table 6.4.2.7 (m)
   (2) Paragraph 7.2.3.1

7.2.3 Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products in sales display areas shall not exceed the maximum quantities given in 7.2.3.1 and 7.2.3.2 according to the protection provided.

7.2.3.1 In sales display areas that are nonsprinklered or whose sprinkler system does not meet the requirements of 7.2.3.2, the total aggregate quantity of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products shall not exceed 9.8 kg/m² (2 lb/ft²) of total sales display area, up to the quantities specified in Table 7.2.3.1.

<table>
<thead>
<tr>
<th>Floor</th>
<th>Maximum Net Weight per Floor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basement</td>
<td>Not Permitted</td>
</tr>
<tr>
<td>Ground</td>
<td>1135</td>
</tr>
<tr>
<td>Upper</td>
<td>227</td>
</tr>
</tbody>
</table>

7.2.3.1.1 No single 3 m × 3 m (10 ft × 10 ft) section of sales display area shall contain an aggregate quantity of more than 454 kg (1000 lb) net weight of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products.

7.2.3.2 In sales display areas that are sprinklered in accordance with NFPA 13 for at least ordinary hazard (Group 2) occupancies, the total aggregate quantity of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products shall not exceed 9.8 kg/m² (2 lb/ft²) of total sales display area.

7.2.3.2.1 No single 3 m × 3 m (10 ft × 10 ft) section of sales display area shall contain an aggregate quantity of more than 454 kg (1000 lb) net weight of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products.

7.2.4 Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products shall be securely stacked to not more than 1.8 m (6 ft) high from base to top of the storage array unless on fixed shelving.

...
7.3.2 Uncartonied or display-cut (case-cut) Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products that are stored for display no more than 1.8 m (6 ft) above the floor shall be permitted where protection is installed in accordance with 7.3.3, based on the highest level of aerosol product in the array and the packaging method of the storage above 1.8 m (6 ft).

... 

7.3.3.1.2 The storage of Plastic Aerosol 3 Products shall be protected in accordance with Table 6.4.2.7(m) and where this product is stored for display below the 1.8 m (6 ft) level, the first tier of in-rack sprinklers and barrier shall be installed above the display, but not more than 2.4 m (8 ft) above the floor level.

... 

7.3.4 Storage and display of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products shall not exceed 4540 kg (10,000 lb) net weight within any 2323 m² (25,000 ft²) of sales display area.
7.3.4.1 Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 aerosol product display areas shall be separated from each other by a minimum of 7.6 m (25 ft).
7.3.5 The area of the design for the required ceiling sprinkler system shall extend 6 m (20 ft) beyond the area devoted to storage of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products.
7.3.6 Storage and display of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products shall be separated from the storage of flammable and combustible liquids by a minimum distance of 7.6 m (25 ft) or by a segregating wall or noncombustible barrier.
7.3.6.1 Where Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products are stored within 7.6 m (25 ft) of flammable and combustible liquids, the area beneath the noncombustible barrier shall be liquidtight at the floor to prevent spilled liquids from flowing beneath the aerosol products.
7.3.7 The sales display area shall meet the requirements for mercantile occupancies in NFPA 101.

7.4 Back Stock Storage Areas.
7.4.1 Where back stock areas are separated from sales display areas by construction having a minimum 1-hour fire resistance rating, storage of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products shall meet the requirements of Chapter 6.
7.4.2 Where back stock areas are not separated from sales display areas by construction having a minimum 1-hour fire resistance rating, the quantity of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products in back stock areas shall be included in the total allowable quantities specified in 7.2.3 or 7.3.4.
7.4.2.1 Protection shall be provided in accordance with 7.3.3.
7.4.3 An additional quantity of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products, up to a maximum of 227 kg (500 lb) net weight, shall be permitted in back stock areas where the additional quantities are stored in flammable liquid storage cabinets that meet the requirements of Section 9.5 of NFPA 30.
7.4.4 Storage of Aerosol Cooking Spray Products, Plastic Aerosol 3 Products, and Level 2 and Level 3 Aerosol Products in separate, inside flammable liquids storage rooms shall meet the requirements of 6.4.7.

3. Revise Annex section to read as follows:

A.6.4.2.9.56 In rack sprinklers …

4. Revise Section B.2, last paragraph, last sentence, to read as follows:

B.2 Rack Storage Arrays.

… The in-rack sprinklers should be quick-response type and should meet the currently required installation rules provided in Table 6.4.2.7(e) through Table 6.4.2.7(lm).

Substantiation: The aerosol industry is looking to advance their product offering to include more options for the use of plastic aerosol products. These new products represent a fire hazard that is not adequately protected by existing guidance in NFPA 30B. The information provided in this TIA provides newly developed fire protection criteria for this new category of plastic aerosol products. See the following link for the FM Global testing report that contains the supporting material for this TIA.

http://www.fmglobal.com/research-and-resources/standards-and-certification/code-support-reports

Emergency Nature: 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 information in this TIA will provide the aerosol industry fire protection designs for a new category of plastic aerosol products, Plastic Aerosol 3 Products. Without this protection guidance manufacturers, warehouses and retail locations will not have guidance on how to storage this new product category.
MEMORANDUM

TO: Technical Committee on Aerosol Products

FROM: Diane Matthews, Project Administrator

DATE: April 23, 2018

SUBJECT: NFPA 30B Proposed TIA No.1359 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 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
2 Not Returned (Cole and Rebman)

Technical Merit:
0 Abstentions
24 Agree
2 Disagree (Gates and Lentz)

Emergency Nature:
1 Abstention (Usher)
24 Agree (w/ comment - Babcock, Bloome, Clegg, Dee, Frauenheim, III, Fredrickson, Grandaw, Larsson, LeBlanc, Lentz, Long, Madden, Peleski, Pleus, Seuss, Jr., Swenson and Workman)
1 Disagrees (Donnell)

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 eligible ÷ 2 = 14 + 1 = (15)]

(2) The number of affirmative votes needed to satisfy the ¾ requirement (rounded up) is:

Technical Merit: (28 eligible to vote - 2 not returned - 0 abstentions = 26 × 0.75 = 19.50 = 20)
Emergency Nature: (28 eligible to vote - 2 not returned - 1 abstention = 25 × 0.75 = 18.75 = 19)

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 April 28, 2018.

Attachment
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise Chapter 7.

_________ AGREE __________ X _______ DISAGREE* __________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
I believe the issues addressed to be too complicated to be addressed in a TIA. I believe the issues need to be discussed in depth among all TC members such that all opinions are heard and data/rationale thoroughly vetted.

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.
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 shall accompany all responses with regard to emergency nature.
Signature

03/19/2018
Date

Christopher J Gates
Name (Please Print)

Please return the ballot on or before **Tuesday, March 27, 2018**.

**PLEASE RETURN TO:**
Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: dmatthews@nfpa.org

August 7, 2018
Supplemental Agenda Standards Council Meeting August 13-15, 2018
Page 724 of 1900
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise Chapter 7.

__________ AGREE __________ DISAGREE* __________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
Supporting test data from FM (Test 3) does not match the suggested design for Scheme A inracks only overhead surrounding occupancy. The test opened 2 ceiling heads (located in Aisle) inracks in the target rack and main rack. The TIA is suggesting standard Aerosol inrack protection. From the pictures in the report, the Overhead sprinklers were critical in controlling this fire.

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

__________ 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 shall accompany all responses with regard to emergency nature.
Also the editorial changes throughout are to great and should be done by another means.
Please return the ballot on or before **Tuesday, March 27, 2018.**

**PLEASE RETURN TO:**
Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

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

**E-mail:** dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

____ 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:
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

____ 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 shall accompany all responses with regard to emergency nature. In my
opinion, this does not meet any of the criteria for an emergency nature vote.
Signature  

Skip Donnell  
Name (Please Print)  

3/13/2018  
Date  

Please return the ballot on or before Tuesday, March 27, 2018.

PLEASE RETURN TO:  
Diane Matthews, Project Administrator  
NFPA  
1 Batterymarch Park  
Quincy, MA 02169  
FAX: (617) 984-7110  
E-mail: dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

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
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B. The NFPA Standard contains a conflict within the NFPA Standard or with
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C. The proposed TIA intends to correct a previously unknown existing hazard.

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situation.

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F. The proposed TIA intends to correct a circumstance in which the revised NFPA
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inadvertently overlooked in the total revision process or was without adequate
technical (safety) justification for the action.

X 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 shall accompany all responses with regard to emergency nature.

I am brand new to this committee. I have been brought on from a labor background. I am
not familiar enough with the previous standard to know of any improvements, & or errors
proposed by these suggestions. Therefore, I have elected to abstain. I would like to have
some background as to the “emergency nature” term is used in our ballot process.
Signature

Frederick Scott Usher
Name (Please Print)

Please return the ballot on or before Tuesday, March 27, 2018.

PLEASE RETURN TO:
Diane Matthews, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

[ ] 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.
[ ] 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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    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 shall accompany all responses with regard to emergency nature.

The NFPA 30B Committee did not have access to the
official fire test report from FM Global during the regular
revision process (submitted later).
Please return the ballot on or before **Tuesday, March 27, 2018.**

**PLEASE RETURN TO:**
Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

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

**E-mail:** dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise Chapter 7.

☐ 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.

☐ 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.

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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

The details of this TIA are the result of extensive study, testing, and documentation for safeguarding a new level of products that can be stored in plastic aerosol containers. Failure to include this information in the 2019 edition of NFPA 30B will cause marketers and manufacturers to utilize data available from the testing to persuade their AHJ to allow storage of these products without the thorough plan details that are presented by this TIA. This will cause confusion and possible errors of omission by not having the details in one place as all have come to expect by reference to NFPA 30B.
Please return the ballot on or before **Tuesday, March 27, 2018.**

**PLEASE RETURN TO:**
Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169  
FAX: (617) 984-7110  
E-mail: dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
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Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

X 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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X E. The proposed TIA intends to accomplish a recognition of an advance in the art of
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_____ F. The proposed TIA intends to correct a circumstance in which the revised NFPA
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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 shall accompany all responses with regard to emergency nature.

These updates address the approach needed to protect occupancies storing
Plastics Aerosol 3 Products, where one did not previously exist. It is imperative to
have these findings published; so as to implement in a buildings fire protection
scheme and protect property, and life properly.
Please return the ballot on or before **Tuesday, March 27, 2018.**

**PLEASE RETURN TO:**
Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

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

**E-mail:** dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
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Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

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.

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.

X 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 shall accompany all responses with regard to emergency nature.

TIA defines requirements for new classification of product. It is based on testing
results and clarifies a growing product category.
Please return the ballot on or before **Tuesday, March 27, 2018**.

**PLEASE RETURN TO:**
Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110  
E-mail: dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

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

DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the
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EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany all responses with regard to emergency nature.

The TIA provides new fire protection requirements
for a new category of plastic aerosol products.
William A. Frauenheim, III
Name (Please Print)

Please return the ballot on or before Tuesday, March 27, 2018.

PLEASE RETURN TO:
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Quincy, MA 02169

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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
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EXPLANATION OF VOTE: Please type or print your comments:

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Timing prevented the Technical Committee from putting

This information in. This is technical information required
to provide proper protection (based on Full Scale Fire Testing)
for a new type of Aerosol Product.
Please return the ballot on or before Tuesday, March 27, 2018.

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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 shall accompany all responses with regard to emergency nature.

_The hazard and fire protection solutions necessary for aerosol products in plastic
containers has not been previously addressed in NFPA 30B. Providing minimum
protection requirements, which are based on actual tests, are needed in this next edition._
Please return the ballot on or before **Tuesday, March 27, 2018.**

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LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
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Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
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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
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EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany all responses with regard to emergency nature.

The information in this TIA will provide the aerosol industry fire protection designs for a new category of plastic
aerosol products, Plastic Aerosol 3 Products. Without this protection guidance manufacturers, warehouses and
retail locations will not have guidance on how to storage this new product
category.
Please return the ballot on or before **Tuesday, March 27, 2018.**

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LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise Chapter 7.

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 shall accompany all responses with regard to emergency nature.

This TIA provides fire protection for a new aerosol product.
John A LeBlanc  
Name (Please Print)  

Please return the ballot on or before Tuesday, March 27, 2018.

PLEASE RETURN TO:  
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NFPA  
1 Batterymarch Park  
Quincy, MA 02169  
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LETTER BALLOT
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☑ AGREE       ☐ DISAGREE*    ☐ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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---

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☐ ABSTAIN    ☐ DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the
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EXPLANATION OF VOTE - Please type or print your comments:

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Note (A) above
Please return the ballot on or before **Tuesday, March 27, 2018.**

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LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
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Ballot Item No. 1:
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[ ] 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
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EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany all responses with regard to emergency nature.

I AGREE THAT THIS TIA IS NECESSARY TO RECOGNIZE
AND ADDRESS A NEW HAZARD IN THE MARKETPLACE.
Please return the ballot on or before Tuesday, March 27, 2018.

PLEASE RETURN TO:
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NFPA
1 Batterymarch Park
Quincy, MA 02169

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Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

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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technical (safety) justification for the action.

X ABSTAIN

DISAGREE* The TIA does not meet any of the regulations above warranting a TIA, therefore the
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EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany all responses with regard to emergency nature.

Accommodate new category of aerosols in plastic container, fire risk test results and means of protection
Please return the ballot on or before Tuesday, March 27, 2018.

PLEASE RETURN TO:
Diane Matthews, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
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Signature
Dale Peleski
Date
3/26/18
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
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X AGREE          DISAGREE*        ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:
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EXPLANATION OF VOTE - Please type or print your comments:
*An explanation shall accompany all responses with regard to emergency nature.

This TIA provides necessary changes to the code that are needed as a result of the
latest revision which creates a new classification of plastic aerosol products. This TIA
corrects references which were originally limited to plastic aerosol 1 products and provides
protection scheme for the new plastic aerosol 2 products. Without this TIA there would be
no description on how to protect this type of products.

---

Signature [Signature]

March 27, 2018

Date

Michael Pleus

Name (Please Print)

Please return the ballot on or before Tuesday, March 27, 2018.

PLEASE RETURN TO:

Diane Matthews, Project Administrator

NFPA

1 Batterymarch Park

Quincy, MA 02169

FAX: (617) 984-7110

E-mail: dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

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

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EXPLANATION OF VOTE - Please type or print your comments:

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Without this getting added on an emergency basis, companies wishing to manufacture/warehouse these products would be viewed by code enforcement officials as being out of compliance until the next code review cycle of NFPA 30B.
Signature

George A. Seuss, Jr.
Name (Please Print)

Please return the ballot on or before **Tuesday, March 27, 2018**.

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1 Batterymarch Park
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Date  
3/26/2018
Technical Committee on Aerosol Products
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✓ AGREE       DISAGREE*       ABSTAIN*

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EXPLANATION OF VOTE - Please type or print your comments:

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Protection criteria is currently unavailable for Plastic Aerosol Products
Supplemental Agenda Standards Council Meeting August 13-15, 2018

Please return the ballot on or before Tuesday, March 27, 2018.

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[ ] AGREE [ ] DISAGREE* [ ] ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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EXPLANATION OF VOTE - Please type or print your comments:

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A correction is required to avoid further design and installation mistakes.
Please return the ballot on or before Tuesday, March 27, 2018.

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☑ 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

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*An explanation shall accompany all responses with regard to emergency nature.
Please return the ballot on or before **Tuesday, March 27, 2018**.

**PLEASE RETURN TO:**  
Diane Matthews, *Project Administrator*  
NFPA  
1 Batterymarch Park  
Quincy, MA 02169  
**FAX:** (617) 984-7110  
**E-mail:** dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

☑ 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.

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 shall accompany all responses with regard to emergency nature.
Please return the ballot on or before **Tuesday, March 27, 2018**.

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Quincy, MA 02169
FAX: (617) 984-7110
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Technical Committee on Aerosol Products
LETTER BALLOT
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Proposed 2019 Edition of NFPA 30B

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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 shall accompany all responses with regard to emergency nature.
Please return the ballot on or before **Tuesday, March 27, 2018**.

**PLEASE RETURN TO:**
Diane Matthews, **Project Administrator**
NFPA
1 Batterymarch Park
Quincy, MA 02169

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

**E-mail:** dmatthews@nfpa.org
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LETTER BALLOT
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Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

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:
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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 shall accompany all responses with regard to emergency nature.
March 21, 2018

Signature

Donald E. Rowson
Name (Please Print)

Please return the ballot on or before **Tuesday, March 27, 2018**.

**PLEASE RETURN TO:**
Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: dmatthews@nfpa.org
Technical Committee on Aerosol Products
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1359 of the
Proposed 2019 Edition of NFPA 30B

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to Revise Chapter 6 and Revise
Chapter 7.

[ ] AGREE [ ] DISAGREE [ ] ABSTAIN

EXPLANATION OF VOTE - Please type or print your comments:

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technical (safety) justification for the action.

[ ] ABSTAIN

DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the
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Diane Matthews, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: dmatthews@nfpa.org
Matthews, Diane  
From: Willse, Peter <Peter.Willse@xlcatin.com>  
Sent: Monday, March 12, 2018 2:14 PM  
To: Matthews, Diane  

Diane,


Pete

Peter J. Gore Willse, P.E., FSFPE  
Vice President - Director of Research  
Property Risk Engineering / GAPS  
XL Catlin

Global Asset Protection Services, LLC  
100 Constitution Plaza, 12th Floor  
Hartford, CT 06103 USA  
Phone: +1 860 293-7900  
Mobile: +1 860 460-1965  
Mail to: peter.willse@xlcatin.com  
http://xlcatin.com/insurance/insurance-coverage/property-risk-engineering

From: Matthews, Diane [mailto:DMatthews@NFPA.org]  
Sent: Tuesday, March 06, 2018 2:14 PM  
To: Matthews, Diane  
Cc: Bershad, Susan; Foran, Rosanne; Foley, Patrick  

**TECHNICAL COMMITTEE ON AEROSOL PRODUCTS**

Attached please find an initial ballot package for Proposed TIA No. 1359 on the Proposed 2019 Edition of NFPA 30B. For your convenience, the ballot form is also attached separately in Word.

Please complete and return your ballot to Diane Matthews either via e-mail to dmatthews@nfpa.org or via fax to 617-984-7110 no later than **Tuesday, March 27, 2018**. You may also mail your ballot to Diane Matthews at NFPA, 1 Batterymarch Park, Quincy, MA, 02169.

This information has also been posted on the Document Information page to www.nfpa.org/30Bnext

Thank you.

**Diane D. Matthews**  
Administrator, Technical Projects|NFPA
Regarding comments to TIA 1359

It is advantageous for the approval by NFPA technical council as quickly as possible, regarding this TIA, to allow marketers to produce aerosol products meeting these new definitions so as the product appeal can be enhanced with marketing innovations with containers that are clear, thus allowing the consumer to visually see the remaining product volumes easily to know when to replenish their product. Additionally, the sooner this is approved, officially, the better the industry chances are that the industry will be able to insert the change into the International Fire Code, allowing for better global guidelines for international marketers.

Thank you for your attention,

Rodney L. Prater  
Principal, Packaging Center of Excellence | R,D&E | SC Johnson & Son, Inc | 1525 Howe Street | MS132 | Racine, WI 53403 |
Foran, Rosanne

From: Manion, Dan  
Sent: Wednesday, March 7, 2018 12:39 PM  
To: TiAs  
Subject: Comment on Proposed TIA 1359 on NFPA 30B

Hello,

Regarding the request for comments on the proposed TIA changes to NFPA 30B,  
https://www.nfpa.org/assets/files/AboutTheCodes/30B/Proposed_TIA_1359_NFPA_30B.pdf

I have also reviewed the FM test results. Our organization supports all of these changes, which would allow for the expansion of aerosol production in plastic containers. We market high-speed equipment designed to fill these aerosol products.

We look forward to a quick approval process by NFPA. Thank you for expediting this process, to try to meet the deadline for submitting the revisions to the next IFC release.

Best Regards,

Dan Manion P.E.  
Aerofill Design Manager  

R.A JONES  
807 West Kimberly Road  
Davenport, IA 52806 USA

www.rajones.com

Coesia companies


Coesia companies


Disclaimer  
The information in this email and any attachments may contain proprietary and confidential information that is intended for the addressee(s) only. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, retention or use of the contents of this information is prohibited. When addressed to our clients or vendors, any information contained in this e-mail or any attachments is subject to the terms and conditions in any governing contract.
From: Smith, Scott  
Sent: Thursday, March 8, 2018 9:40 AM  
To: TIA  
Subject: Comment on Proposed TIA 1359 on NFPA 30B

TIA 1359 has significant impact to Suppliers, Manufactures and Marketers of aerosol products. The science behind this TIA is substantiated by best practices in the industry and yields the proper protection scheme for storage of Plastic Aerosol 3 products. Consumers desire innovative products that are safe, effective and sustainable. Plastic Aerosol 3 products will provide consumers with these products on a global scale. Plastic aerosol containers improve the sustainability by removing tons of mining, transport, energy and water consumption currently utilized in the manufacture of metal containers.

Scott E. Smith  
Board of Directors – HCPA Aerosol Division, National Aerosol Association  
Chairman – Plastic Aerosol Research Group LLC  
Research Fellow - Aerosol Technology, Corporate Package Development  
The Procter & Gamble Company - P
From: Bloome, Jim  
Sent: Tuesday, March 20, 2018 11:04 AM  
To: TIA  
Subject: Comment on Proposed TIA 1359 on NFPA 30B

The following is a comment on TIA 1359 regarding changes to NFPA 30B, Chapters 6 & 7, to define Plastic Aerosol 3 Products and provide proper fire protection criteria for this new classification aerosol product.

The changes proposed by this TIA are backed by significant scientific study, testing, and documentation. The work to produce this addition was conducted over several years by the largest and most significant companies manufacturing in the aerosol market as well as the most qualified fire science experts with years of experience in aerosol fire protection. The Plastic Aerosol Research Group (PARG), an LLC comprised of major corporations and experts from the aerosol industry, is responsible for this project. In addition to production of 19 standards for plastic aerosol containers, full scale fire tests of the subject products were conducted and were impressively successful. There is little doubt that the changes are correct and will enhance the safety of aerosol products manufacturing and storage not only for current aerosol products but also for the new class of formulas that are defined as Plastic Aerosol 3 Products.

It is unfortunate that the timing of the final testing just missed the deadline for the change cycle of NFPA 30B or this would have easily been included in the other update changes. It is critically important that this material is included in the 2019 edition of NFPA 30B so that this new class of aerosol formulas can be properly manufactured and safely stored as proposed in this TIA. Years of work and hundreds of thousands of dollars have been expended on this project and significant benefits can be derived from the expansion of these formulas into plastic containers. Among the benefits are less transportation costs, less damage from handling, corrosion prevention, enhanced marketing appeal, less dependence on imported metal resources, and general expansion of the aerosol product lines. Without timely approval of this TIA there will be a four year delay in marketing this new class of product which could lead to delayed benefits and possible cancellation of projects altogether.

The other issue with timing of this approval process for NFPA 30B is the timing of the next edition of the International Fire Code (IFC). The update process for the IFC was moved up a year in an effort to split up the update process for the International Code Council family of codes. That imposes a deadline for change proposal approval that is very critical to the decision on this TIA. The aerosol industry has always maintained NFPA 30B as the one, comprehensive code for all aspects of the manufacture and storage of aerosol products. We have been successful in keeping that precedent since the beginnings of both NFPA 30B and the IFC by having the IFC reference 30B rather than duplicate in part or in whole code language regarding aerosol products. Without this arrangement it will be confusing and difficult for code enforcers and manufacturers to conduct aerosol business safely. It is critical that we maintain this advantage and keep the code in one place, NFPA 30B. In order to accomplish this the TIA must be approved as soon as possible but latest by June of 2018. If there is any way possible to approve the TIA before June that would be even more helpful. Otherwise we ask that you please consider approval by June by whatever means possible.

Best regards,

James A. Bloome
PARG Fire Test Committee Chair
HCPC Aerosol Division Executive Board Chair
HCPC Aerosol Division Manufacturing and Storage Standards Committee Chair
Engineering Consultant to:

R. A. Jones
The following is a comment on TIA 1359 regarding changes to NFPA 30B, Chapters 6 & 7, to define Plastic Aerosol 3 Products and provide proper fire protection criteria for this new classification aerosol product.

The changes proposed by TIA 1359 are backed by significant scientific study, testing, and documentation. The Plastic Aerosol Research Group (PARQ), an LLC comprised of major corporations and experts from the aerosol industry, is responsible for this project with several years invested in putting this documentation together. In addition to production of 19 standards for plastic aerosol containers, full scale fire tests of the subject products were conducted and very successful. There is little doubt that the changes are correct and will enhance the safety of aerosol products manufacturing and storage not only for current aerosol products but also for the new class of formulas that are defined as Plastic Aerosol 3 Products.

It is critically important that this material is included in the 2019 edition of NFPA 30B so that this new class of aerosol formulas can be properly manufactured and safely stored as proposed in this TIA. Years of work and hundreds of thousands of dollars have been expended on this project and significant benefits can be derived from the expansion of these formulas into plastic containers. Among the benefits are less transportation costs, less damage from handling, corrosion prevention, enhanced marketing appeal, less dependence on imported metal resources, and general expansion of the aerosol product lines. This will create more jobs in the US plastic packaging industry as we expand the opportunities for plastic bottles. Without timely approval of this TIA there will be a four year delay in marketing this new class of product which could lead to delayed benefits and possible cancellation of projects altogether.

The other issue with timing of this approval process for NFPA 30B is the timing of the next edition of the International Fire Code (IFC). The update process for the IFC was moved up a year in an effort to split up the update process for the International Code Council family of codes. That imposes a deadline for change proposal approval that is very critical to the decision on this TIA. The aerosol industry has always maintained NFPA 30B as the one, comprehensive code for all aspects of the manufacture and storage of aerosol products. We have been successful in keeping that precedent since the beginnings of both NFPA 30B and the IFC by having the IFC reference 30B rather than duplicate in part or in whole code language regarding aerosol products. Without this arrangement it will be confusing and difficult for code enforcers and manufacturers to conduct aerosol business safely. It is critical that we maintain this advantage and keep the code in one place, NFPA 30B. In order to accomplish this the TIA must be approved as soon as possible but latest by June of 2018. If there is any way possible to approve the TIA before June that would be even more helpful. Otherwise we ask that you please consider approval by June by whatever means possible.

Best regards,

Kurt Wolschleger
Plastipak Packaging, Inc.
Plymouth, MI
March 28, 2018

NFPA 30B Technical Committee  
National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02169-7471


The Household & Commercial Products Association\(^1\) (HCPA), formerly the Consumer Specialty Products Association (CSPA), offers the following comments on NFPA 30B proposed Tentative Interim Amendment (TIA) No. 1359, revising Chapter 6 and 7 of the 2019 Edition of NFPA 30B, *Code for the Manufacture and Storage of Aerosol Products* on behalf of the HCPA Aerosol Products Division which represents the interest of its members that manufacture, formulate and market a wide variety of products packaged in the aerosol form. Specifically, HCPA supports NFPA 30B proposed TIA No. 1359 as written without modification.

HCPA supports NFPA 30B proposed TIA No. 1359 because it is technically sound based on good science. The aerosol industry is looking to advance their product offering to include more options for the use of plastic aerosol products. These new products which do not meet the criteria for Plastic Aerosol 1 are not adequately protected by existing guidance in NFPA 30B. The work performed by FM Global and sponsored by the Plastic Aerosol Research Group, LLC (PARG) have successfully demonstrated that these code changes are necessary to protect property and life from plastic aerosols which meet the definition of Plastic Aerosol 3. Without this protection guidance manufacturers, warehouses and retailers will not have guidance on how to properly store this new product category. Due to this potential fire hazard, HCPA urges the Technical Committee on Aerosol Products to approve the TIA as quickly as possible in accordance with NFPA procedures.

Quick action on the TIA is necessary not only so that these code changes will be a part of the printed document for the 2019 edition, but also because HCPA is currently working to modifying the International Fire Code (IFC) as well. The sooner the TIA is accepted, the better our chances will be to insert this into the IFC as well. A quick resolution would not only eliminate potential confusion for manufacturers, warehouses, retailers and code enforcers with these code changes being a part of the printed document for the 2019 edition, but also with the IFC. It is our preference to maintain fire codes related to aerosols in the IFC as a reference to NFPA 30B, rather than having duplicated verbiage in both the IFC and NFPA 30B. This would allow NFPA 30B to remain as the pre-eminent code on aerosol

---

\(^1\) The Household & Commercial Products Association (HCPA) is the premier trade association representing companies that manufacture and sell $180 billion annually of products used for cleaning, protecting, maintaining, and disinfecting homes and commercial environments. HCPA member companies employ 200,000 people in the U.S. whose work helps consumers and workers to create cleaner, healthier and more productive lives.
manufacturing and storage used worldwide by manufacturers, fire officials and other related industries involved in the production and storage of aerosol products.

In conclusion, HCPA supports the proposed TiA No. 1359, revising Chapter 6 and 7 of the 2019 Edition of NFPA 30B as written. HCPA is pleased to provide input and thanks the NFPA Technical Committee on Aerosol Products for taking these comments into consideration. If you have any questions, please contact me at.

Sincerely,

Nicholas Georges
Director, Scientific Affairs
Household & Commercial Products Association
1. Delete 6.4.3.3.1 and renumber subsequent paragraphs as follows:

6.4.3.3 The effective volume of the enclosure, $V_{eff}$, shall be determined based on the volume of that part of the enclosure through which the flame can pass as it travels along the maximum flame length, $H$.

6.4.3.3.1 Internal volume of dust collector bags, filters, or cartridges shall be permitted to be eliminated when determining the effective volume of an elongated enclosure, when the vent is positioned as required by 8.7.1(1) or 8.7.1(2).

6.4.3.21 Partial volume (see Section 8.4) shall not be considered in the determination of effective volume per this section.

6.4.3.3.2 When multiple vents are provided …

6.4.3.3.4 When multiple vents are located …

6.4.3.3.5 When $V_{eff}$ …

**Substantiation:** Section 8.7 methodology for dust collectors was revised for the 2018 edition and specifically eliminated the discounting of internal volume of the elements, as described by this section. Removing statement 6.4.3.3.1 eliminates the dangerous confusion this statement creates, as the user could incorrectly reduce the relevant dust collector volume for vent sizing and thus provide too little vent area.

**Emergency Nature:** The standard contains an error or an omission that was overlooked during the regular revision process. The NFPA Standard contains a conflict within the NFPA Standards or within another NFPA Standard.

Removing statement 6.4.3.3.1 eliminates the dangerous confusion this statement creates, as the user could incorrectly reduce the relevant dust collector volume for vent sizing and thus provide too little vent area.
MEMORANDUM

TO: Technical Committee on Explosion Protection Systems

FROM: Sarah Caldwell, Project Administrator

DATE: June 20, 2018

SUBJECT: NFPA 68 Proposed TIA No. 1370 PRELIMINARY TC BALLOT RESULTS

According to 5.6(a) in the NFPA Regs, the preliminary results show this TIA 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
10 Not Returned (Clouthier, Davies, Feldkamp, Fredenburg, Guaricci, Ostrowski, Roach, Stottmann, Ural, Zalosh)

<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>18 Agree (w/comment: Skinker)</td>
<td>17 Agree</td>
</tr>
<tr>
<td>1 Disagree (Stevenson)</td>
<td>2 Disagree (Floyd, Stevenson)</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 15.

\[
(29 \text{ eligible to vote} - 10 \text{ not returned} - 0 \text{ abstentions} = 19 \times 0.75 = 14.25) \]

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. The Standards Council will consider the issuance of this TIA.

Attachment
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
To delete 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 Edition of NFPA 68, Standard on Explosion Protection by Deflagration Venting

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

[ ] 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)

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[ ] 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.
Please return the ballot on or before **June 6, 2018**

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169  
FAX: (617) 984-7110  
E-mail: scaldwell@nfpa.org
Ballot Item No. 1:
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______X______ AGREE ____________ DISAGREE* ____________ ABSTAIN*

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_____________________________________________________________________
_____________________________________________________________________

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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 the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169  FAX: (617) 984-7110  E-mail: scaldwell@nfpa.org
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT

PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
To delete 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 Edition of
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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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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

__________ 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 the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

[ ] 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.
[ ] 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 ___________________________ 5/23/18 ____________________ Date

__________________________________________
Henry Febo
Name (Please Print)

Please return the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

X AGREE ___________ DISAGREE* ___________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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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.

X 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.

While I agree that eliminating 6.4.3.3.1 is correct and consistent with changes made in section 8.7, I do not now believe that the information used in eliminating the dust filter volume exclusion is sufficiently
Please return the ballot on or before **June 6, 2018**

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169
**FAX:** (617) 984-7110
**E-mail:** scaldwell@nfpa.org
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT

PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
To delete 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 Edition of
NFPA 68, Standard on Explosion Protection by Deflagration Venting

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent
paragraphs.

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:
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   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 an
emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
6-4-2018

Signature

Michael D. Hard
Name (Please Print)

Please return the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
Sorry, please mark A option for me.

Good Afternoon Mike,

Thank you for your email. Please let me know how you’d like to vote on ballot item number two for the attached ballot.

Best regards,

Sarah Caldwell

Technical Committee Administrator | NFPA
1 Batterymarch Park
Quincy, MA 02169-7471
+1 617 984-7950
www.nfpa.org

National Fire Protection Association
The leading information and knowledge resource on fire, electrical and related hazards.

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Important Notice: Any opinion expressed in this correspondence is the personal opinion of the author and does not necessarily represent the official position of the NFPA or its Technical Committees. In addition, this correspondence is neither intended, nor should it be relied upon, to provide professional consultation or services.

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To: Caldwell, Sarah  
Cc: Moreno, Laura  Foley, Patrick  Foran, Rosanne  
Subject: RE: BALLOT REMINDER NFPA 68 TIA Log No. 1370  

Thanks,

Mike

From: Caldwell, Sarah  
Sent: Friday, June 1, 2018 10:28 AM  
To: Caldwell, Sarah  
Cc: Moreno, Laura  Foley, Patrick  Foran, Rosanne  
Subject: BALLOT REMINDER NFPA 68 TIA Log No. 1370  

Good Morning Technical Committee Members,

This correspondence serves as a reminder that the NFPA 68 TIA Log No. 1370 Ballot is due Wednesday, June 6, 2018 by 11:59PM (ET). If you have already voted, no further action is required.

This information has also been posted onto the Document Information Page, which can be accessed by going to www.nfpa.org/68next.

Please remember that the return of ballots is required in accordance with the Regulations Governing the Development of NFPA Standards.

Thank you,

Sarah Caldwell  
*Technical Committee Administrator* | NFPA  
1 Batterymarch Park  
Quincy, MA 02169-7471  
+1 617 984-7950  
[www.nfpa.org](http://www.nfpa.org)

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TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
To delete 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 Edition of
NFPA 68, Standard on Explosion Protection by Deflagration Venting

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

☐ 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:
(Construct 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

☐ 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: [Signature]
Date: [June 4, 2018]

Name (Please Print): [Manuel Herve]

August 7, 2018
Supplemental Agenda Standards Council Meeting August 13-15, 2018
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
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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.
Please return the ballot on or before June 6, 2018

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

Can’t remember whether or not I have voted. If not, please vote me positive with no comments. I am now alternate to Kelly Thomas on this committee.

Thanks

Kirby
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
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X AGREE _______ DISAGREE* _______ ABSTAIN*

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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
emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

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

John A. LeBlanc
Name (Please Print)

Please return the ballot on or before **June 6, 2018**

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

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

**E-mail:** scaldwell@nfpa.org
Supplemental Agenda Standards Council Meeting August 13-15, 2018

TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
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paragraphs.

AGREE  ___________ DISAGREE*  ___________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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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 a

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EXPLANATION OF VOTE - Please type or print your comments:

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Please return the ballot on or before **June 6, 2018**

**PLEASE RETURN TO:**  
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NFPA  
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Quincy, MA 02169  
FAX: (617) 984-7110

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Ballot Item No. 1:
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____X______ AGREE ____________ DISAGREE* ____________ ABSTAIN*

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_____________________________________________________________________
_____________________________________________________________________

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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.

_____________________________________________________________________

_____________________________________________________________________
Steven A. McCoy
Signature Date
5/24/2018

Steven A. McCoy
Name (Please Print)

Please return the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169 FAX: (617) 984-7110 E-mail: scaldwell@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

X 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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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: 5/23/18

Samuel Rodgers ____________________________
Name (Please Print)

Please return the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169 FAX: (617) 984-7110 E-mail: scaldwell@nfpa.org
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
To delete 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 Edition of NFPA 68, Standard on Explosion Protection by Deflagration Venting

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

AGREE    DISAGREE*    ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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Ballot Item No. 2:
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   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.
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DISAGREE The TIA does not meet any of the regulations above warranting a TIA, therefore the TIA is NOT an emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Please return the ballot on or before **June 6, 2018**

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION
LETTER BALLOT
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__ 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 emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

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

Name (Please Print)

Please return the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Battery March Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: scaldwell@nfpa.org
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
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paragraphs.

__X**__ AGREE ___________ DISAGREE* ___________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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

** The proposed editorial corrections for section 6.4.3.3, by deleting section 6.4.3.3.1 and
sequentially renumbering existing sections 6.4.3.3.2 through 6.4.3.3.5 by reducing each of the last
numbers by a value of 1, appears to neglect a strikethrough on the second "4" of section 6.4.3.3.4.
Thus, this section appears to be numbered 6.4.3.3.43.

However, on close examination the strikethrough on the number “4” might not be apparent, because it
coincides with the horizontal line of the “4”. A sampling of various fonts using the number “4” and
strikethrough suggests this to be probable.

On this basis, the proposed editorial corrections are assumed consistent and correct with the intent of
the change.

It is suggested that future editorial revisions involving a deletion of the number 4 with strikethrough,
include the entire number and a renumbering of the section with underline for clarity.

Example: 6.4.3.3.4 6.4.3.3.3

Ballot Item No. 2:
I AGREE that the subject is of an EMERGENCY NATURE* for one or more of the following reasons:
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__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.

_____  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
Cleveland B. Skinker
Name (Please Print)

5/30/2018
Date

Please return the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
To delete 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 Edition of
NFPA 68, Standard on Explosion Protection by Deflagration Venting

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent
paragraphs.

_________ AGREE _______ x ______ DISAGREE* _______ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:
*An explanation shall accompany a “disagree” or “abstain” vote.
The methodology being declared as dangerous in this TIM has been in use both in North America and in
Europe for decades and is still current in Europe. All without loss as far as I know. The data we have to
demonstrate a problem is scant by comparison. I think this issue requires more thought, more testing
and greater understanding._____________________________________________________________________
_____________________________________________________________________

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.

There is more data in support of leaving the methodology alone than there is in support of making a precipitous change. This TIM is an over reaction with too little to support it.

________________________________________

__________________________ May 29, 2018___________________________
Signature Date

W. J. Stevenson_____________________________________________
Name (Please Print)
TECHNICAL COMMITTEE ON EXPLOSION PROTECTION SYSTEMS
LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1370
To delete 6.4.3.3.1 and renumber subsequent paragraphs of the 2018 Edition of
NFPA 68, Standard on Explosion Protection by Deflagration Venting

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

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 emergency nature

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Please return the ballot on or before **June 6, 2018**

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

**FAX:** (617) 984-7110  **E-mail:** scaldwell@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to delete 6.4.3.3.1 and renumber subsequent paragraphs.

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:

(Choose all that apply)

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.

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

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

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote.
Please return the ballot on or before June 6, 2018

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
MEMORANDUM

TO: Technical Committee on Explosion Protection Systems

FROM: Sarah Caldwell, Project Administrator

DATE: July 23, 2018

SUBJECT: NFPA 68 Proposed TIA No. 1370 FINAL TC BALLOT RESULTS

No comments were received on this TIA, therefore, according to 5.6(a) in the NFPA Regs, the final results show this TIA HAS achieved the ¾ majority vote needed on both Ballot Item No. 1 (Technical Merit) and Ballot Item No. 2 (Emergency Nature).

29 Eligible to Vote
10 Not Returned (Clouthier, Davies, Feldkamp, Fredenburg, Guaricci, Ostrowski, Roach, Stottmann, Ural, Zalosh)

<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>18 Agree (w/comment: Skinker)</td>
<td>17 Agree</td>
</tr>
<tr>
<td>1 Disagree (Stevenson)</td>
<td>2 Disagree (Floyd, Stevenson)</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.

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

(2) The number of affirmative votes needed to satisfy the ¾ requirement is 15.

\[ 29 \text{ eligible to vote} \times 10 \text{ not returned} \times 0 \text{ abstentions} = 19 \times 0.75 = 14.25 \]

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 28, 2018**.
NFPA 70®-2017 Edition

National Electrical Code®

TIA Log No.: 1357

Reference: 695.14(F) and 700.10(D)(3)

Comment Closing Date: May 17, 2018

Submitter: Timothy Windey, Cummins Power Generation

www.nfpa.org/70

1. Revise 695.14(F) to read as follows:

695.14 (F) Generator Control Wiring Methods. Control conductors installed between the fire pump power transfer switch and the standby generator supplying the fire pump during normal power loss shall be kept entirely independent of all other wiring. The integrity of the generator control wiring remote start circuit shall be continuously monitored for broken, disconnected, or shorted wires. Loss of integrity of the remote start circuit(s) shall initiate visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s) and start the generator(s).

2. Revise 700.10(D)(3) to read as follows:

700.10(D)(3) Generator Control Wiring. Control conductors installed between the transfer equipment and the emergency generator shall be kept entirely independent of all other wiring and shall meet the conditions of 700.10(D)(1). The integrity of the generator control wiring remote start circuit shall be continuously monitored for broken, disconnected, or shorted wires. Loss of integrity of the remote start circuit(s) shall initiate visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s) and start the generator(s).

Substantiation: This proposed TIA addresses significant issues with generator control wiring. These requirements exist in Article 695 for Fire Pumps and Article 700 for Emergency Systems. The existing requirements and the proposed revisions of this TIA are, with respect to generator control, identical.

This TIA is necessary to address well intended revisions in the 2017 revision cycle of the NEC that in application, create conflict, confusion and hardship for installer/maintainers and enforcers.

The well-intended 2017 revisions mandate continuous monitoring of the integrity of the generator control wiring for fire pump installations (695.14(F)) and for emergency systems (700.10(D)(3)). Additionally, the 2017 changes mandate that if there is a loss of integrity of the remote start circuit(s), there must be a visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s). The loss of integrity must also start the generator(s).

The goal of these revisions was to immediately inform building occupants that a problem has occurred.

Practical application of these revisions is extremely subjective and confusing. The issues created include but are not limited to the following:

Adverse Impact #1:
One significant problem with this new requirement, is that it’s too vague. What does “integrity of the generator control wiring shall be continuously monitored” really mean? This makes these requirements extremely difficult to enforce as every installation is different and each AHJ will have different opinions on how to enforce an extremely subjective requirement. This is driving solutions that are all over the map,
which is adding significant amounts of unnecessary costs and making clear, consistent enforcement impossible.

Adverse Impact #2:
Another significant issue resulting from the 2017 revisions, is that no generator manufacturer can do this with products that exist today, without adding an extra layer of hardware and wiring which makes these life safety systems more complicated and less reliable. This is readily seen where simpler start circuit architectures are all that is necessary.

Adverse Impact #3:
Another significant issue is how to get this done. Responsibilities are unclear. For example, is the generator manufacturer responsible for the integrity monitoring of the control wiring (which will then start the generator and annunciate the alarm), or is it the automatic transfer switch manufacturer, or the systems integrator, or another party, or a combination of the listed parties? The present text leads to significant confusion.

Adverse Impact #4:
Finally, the requirement for visible and audible annunciation is covered thoroughly in NFPA 110 Standard for Emergency and Standby Power Systems. This creates a clear and unmistakable conflict between two NFPA documents.

This TIA was intentionally delayed until NEC CMP-13 had an opportunity to act on public inputs related to the problems addressed in this TIA. The proposed revisions of this TIA reflect the actions taken by CMP-13 during the First Draft meetings in Hilton Head, SC. To solve these problems, CMP-13 deleted the 2017 revisions and added text that provides clarity for generator remote start circuits.

Emergency Nature: This is of an emergency nature due to factor 5.4(e), which states “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”. Please see the section above for the multiple adverse impacts.

This TIA is necessary to:
- Provide requirements that are achievable, consistent and enforceable without compromising these life safety systems by making generator control more complex and less reliable.
- Eliminate subjective requirements driving solutions that are all over the map. This is necessary to provide installers, manufacturers and enforcers with clear concise text that is easy to read, practical and enforceable.
- Provide clear prescriptive requirements to correlate equipment and installation requirements.
- Eliminate a conflict between NFPA 110 the Standard for Emergency and Standby Power Systems and the NEC. The requirement for visible and audible annunciation is covered thoroughly in NFPA 110 making the 2017 revisions a clear and unmistakable conflict between two NFPA documents.
MEMORANDUM

TO: National Electrical Code® Correlating Committee

FROM: Sarah Caldwell, Project Administrator

DATE: May 30, 2018

SUBJECT: NFPA 70 Proposed TIA No. 1357 FINAL CC BALLOT RESULTS

The public comment circulation has passed, therefore, according to 5.6(b) in the NFPA Regs, the final results show this TIA HAS achieved the ¼ majority vote needed on both Ballot Item No. 1 (Correlation Issues) and Ballot Item No. 2 (Emergency Nature).

12  Eligible to Vote
1  Not Returned (Manche)

<table>
<thead>
<tr>
<th>Correlation Issues:</th>
<th>Emergency Nature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0  Abstentions</td>
<td>0  Abstentions</td>
</tr>
<tr>
<td>11 Agree</td>
<td>11 Agree (w/comment: Johnston)</td>
</tr>
<tr>
<td>0  Disagree</td>
<td>0  Disagree</td>
</tr>
</tbody>
</table>

There are two criteria necessary to pass ballot [(1) simple majority (2) affirmative ¼ 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.
   
   \[12 \text{ eligible} \div 2 = 6 + 1 = (7)\]

2. The number of affirmative votes needed to satisfy the ¾ requirement is 9.
   
   (12 eligible to vote - 1 not returned - 0 abstentions = 11 \times 0.75 = 8.25)

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 **June 4, 2018**.
Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA Regs.

X AGREE  DISAGREE*  ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote. If disagreeing, cite relevant section(s)/paragraph(s) of the correlation issue and describe.

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.

X 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.
Please return the ballot on or before May 18, 2018.

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: scaldwell@nfpa.org
Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA Regs.

_____ X _____ AGREE

______ DISAGREE*

______ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote. If disagreeing, cite relevant section(s)/paragraph(s) of the correlation issue and describe.

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.

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___ X ___ 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.
Please return the ballot on or before **May 18, 2018.**

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

**FAX:** (617) 984-7110
**E-mail:** scaldwell@nfpa.org
CORRELATING COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
To revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of
NFPA 70, National Electrical Code®

Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA
Regs.

[ ] AGREE [ ] DISAGREE* [ ] ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote. If disagreeing, cite relevant
section(s)/paragraph(s) of the correlation issue and describe.


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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regular revision process.

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

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

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
CORRELATING COMMITTEE LETTER BAG
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
To revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of
NFPA 70, National Electrical Code®

Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA
Regs.

X AGREE           DISAGREE*          ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote. If disagreeing, cite relevant
section(s)/paragraph(s) of the correlation issue and describe.

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
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   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: Palmer Hickman
Date: 05/17/18
Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA Regs.

____X____ AGREE  ___________ DISAGREE*  ___________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote. If disagreeing, cite relevant section(s)/paragraph(s) of the correlation issue and describe.

______________________________

Ballot Item No. 2:
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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 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.

______________________________
Please return the ballot on or before May 18, 2018.

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169  FAX: (617) 984-7110  E-mail: scaldwell@nfpa.org
CORRELATING COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
To revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of
NFPA 70, National Electrical Code®

Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA Regs.

X AGREE

DISAGREE*

ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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Ballot Item No. 2:
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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.
Signature

Richard A. Holub
Name (Please Print)

Please return the ballot on or before **May 18, 2018**.

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: scaldwell@nfpa.org
CORRELATING COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 159
To revise 615.46(F) and revise 200.10(D)(3) of the 2017 Edition of
NFPA 70, National Electrical Code.

Ballet Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA
Reg.

X AGREE          DISAGREE*          ABSTAIN*

EXPLANATION OF VOTE: Please type or print your comments:

* An explanation must accompany a “disagree” or “abstain” vote. If disagreeing, cite relevant
section(s)/paragraph(s) of the correlation issue and describe.

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

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

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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 unworkable to the public.

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Standard has resulted in an adverse impact on a product or method that was
safeguarded/concluded in the final 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

EXPLANATION OF VOTE: Please type or print your comments:

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

COMMENT: 'MIGHT WANT TO CHANGE ''WIRING'' TO ''CONDUCTORS''

Date:

Michael J. Buzos
Name (Please Print)

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

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail:

August 7, 2018
Supplemental Agenda Standards Council Meeting August 13-15, 2018
Page 836 of 1900
CORRELATING COMMITTEE LETTER BAG
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
To revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of
NFPA 70, National Electrical Code®

Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA Regs.

____X______ AGREE   _________ DISAGREE*   _________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:
* An explanation must accompany a “disagree” or “abstain” vote. If disagreeing, cite relevant section(s)/paragraph(s) of the correlation issue and describe.

_______ 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

John R. Kovacik
Name (Please Print)

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

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: scaldwell@nfpa.org
CORRELATING COMMITTEE LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
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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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inadvertently overlooked in the total revision process or was without adequate
technical (safety) justification for the action.

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_________ DISAGREE* The TIA does not meet any of the regulations above warranting a TIA, therefore
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PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
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_________ DISAGREE*

_________ ABSTAIN*

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EXPLANATION OF VOTE - Please type or print your comments:

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

May 8, 2018
Date

Vincent Saporita
Name (Please Print)

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

PLEASE RETURN TO:
Sarah Caldwell, Project Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110

E-mail: scaldwell@nfpa.org
Ballot Item No. 1:
I agree there are no CORRELATION ISSUES in accordance with 3.4.2 and 3.4.3 of the NFPA Regs.

X AGREE  _________ DISAGREE*  _________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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X 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 return the ballot on or before **May 18, 2018**.

**PLEASE RETURN TO:**
Sarah Caldwell, *Project Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169
**FAX:** (617) 984-7110
**E-mail:** scaldwell@nfpa.org
MEMORANDUM

TO: NEC® Code-Making Panel 13

FROM: Sarah Caldwell, Project Administrator

DATE: May 30, 2018

SUBJECT: NFPA 70 Proposed TIA No. 1357 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 achieved the ¾ majority vote needed on both Ballot Item No. 1 (Technical Merit) and Ballot Item No. 2 (Emergency Nature).

22 Eligible to Vote
3 Not Returned (Degnan, Paulsen, Savage, Sr.)

<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>18 Agree (w/comment: White)</td>
<td>19 Agree</td>
</tr>
<tr>
<td>1 Disagree (Kovacik)</td>
<td>0 Disagree</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.

\[
22 \text{ eligible} \div 2 = 11 + 1 = (12) \]

(2) The number of affirmative votes needed to satisfy the ¾ requirement is 15.

\[
22 \text{ eligible to vote} - 3 \text{ not returned} - 0 \text{ abstentions} = 19 \times 0.75 = 14.25 \]

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 June 4, 2018.
1. Revise 695.14(F) to read as follows:

695.14 (F) Generator Control Wiring Methods. Control conductors installed between the fire pump power transfer switch and the standby generator supplying the fire pump during normal power loss shall be kept entirely independent of all other wiring. The integrity of the generator control wiring remote start circuit shall be continuously monitored for broken, disconnected, or shorted wires. Loss of integrity of the remote start circuit(s) shall initiate visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s) and start the generator(s).

2. Revise 700.10(D)(3) to read as follows:

700.10(D)(3) Generator Control Wiring. Control conductors installed between the transfer equipment and the emergency generator shall be kept entirely independent of all other wiring and shall meet the conditions of 700.10(D)(1). The integrity of the generator control wiring remote start circuit shall be continuously monitored for broken, disconnected, or shorted wires. Loss of integrity of the remote start circuit(s) shall initiate visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s) and start the generator(s).

Substantiation: This proposed TIA addresses significant issues with generator control wiring. These requirements exist in Article 695 for Fire Pumps and Article 700 for Emergency Systems. The existing requirements and the proposed revisions of this TIA are, with respect to generator control, identical.

This TIA is necessary to address well-intended revisions in the 2017 revision cycle of the NEC that in application, create conflict, confusion and hardship for installer/maintainers and enforcers.

The well-intended 2017 revisions mandate continuous monitoring of the integrity of the generator control wiring for fire pump installations (695.14(F)) and for emergency systems (700.10(D)(3)). Additionally, the 2017 changes mandate that if there is a loss of integrity of the remote start circuit(s), there must be a visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s). The loss of integrity must also start the generator(s).

The goal of these revisions was to immediately inform building occupants that a problem has occurred.

Practical application of these revisions is extremely subjective and confusing. The issues created include but are not limited to the following:

Adverse Impact #1:
One significant problem with this new requirement, is that it’s too vague. What does “integrity of the generator control wiring shall be continuously monitored” really mean? This makes these requirements extremely difficult to enforce as every installation is different and each AHJ will have different opinions on how to enforce an extremely subjective requirement. This is driving solutions that are all over the map,
which is adding significant amounts of unnecessary costs and making clear, consistent enforcement impossible.

Adverse Impact #2:
Another significant issue resulting from the 2017 revisions, is that no generator manufacturer can do this with products that exist today; without adding an extra layer of hardware and wiring which makes these life safety systems more complicated and less reliable. This is readily seen where simpler start circuit architectures are all that is necessary.

Adverse Impact #3:
Another significant issue is how to get this done. Responsibilities are unclear. For example, is the generator manufacturer responsible for the integrity monitoring of the control wiring (which will then start the generator and annunciate the alarm), or is it the automatic transfer switch manufacturer, or the systems integrator, or another party, or a combination of the listed parties? The present text leads to significant confusion.

Adverse Impact #4:
Finally, the requirement for visible and audible annunciation is covered thoroughly in NFPA 110 Standard for Emergency and Standby Power Systems. This creates a clear and unmistakable conflict between two NFPA documents.

This TIA was intentionally delayed until NEC CMP-13 had an opportunity to act on public inputs related to the problems addressed in this TIA. The proposed revisions of this TIA reflect the actions taken by CMP-13 during the First Draft meetings in Hilton Head, SC. To solve these problems, CMP-13 deleted the 2017 revisions and added text that provides clarity for generator remote start circuits.

Emergency Nature: This is of an emergency nature due to factor 5.4(e), which states “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”. Please see the section above for the multiple adverse impacts.

This TIA is necessary to:
- Provide requirements that are achievable, consistent and enforceable without compromising these life safety systems by making generator control more complex and less reliable.
- Eliminate subjective requirements driving solutions that are all over the map. This is necessary to provide installers, manufacturers and enforcers with clear concise text that is easy to read, practical and enforceable.
- Provide clear prescriptive requirements to correlate equipment and installation requirements.
- Eliminate a conflict between NFPA 110 the Standard for Emergency and Standby Power Systems and the NEC. The requirement for visible and audible annunciation is covered thoroughly in NFPA 110 making the 2017 revisions a clear and unmistakable conflict between two NFPA documents.
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695.14(F) and revise 700.10(D)(3)

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.

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

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

Martin D. Adams

4/18/18
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695.14(F) and revise 700.10(D)(3)

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.

_______________________________
Signature

_______________________________
Date 4-24-2018
Please return the ballot on or before Tuesday, April 24, 2018.

PLEASE RETURN TO:
Sarah Caldwell, Technical Committee Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
NEC® CODE-MAKING PANEL 13 LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
To revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of
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EXPLANATION OF VOTE - Please type or print your comments:
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__________________________
Signature

__________________________
Date

April 24, 2018
Steve Baldwin

Name (Please Print)

Please return the ballot on or before Tuesday, April 24, 2018.

PLEASE RETURN TO:
Sarah Caldwell, Technical Committee Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169     FAX: (617) 984-7110     E-mail: scaldwell@nfpa.org
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AGREE  ___ DISAGREE*  ___ ABSTAIN*  

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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.

Signature  
4/20/2018

Date
Please return the ballot on or before Tuesday, April 24, 2018.

PLEASE RETURN TO:
Sarah Caldwell, Technical Committee Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169    FAX: (617) 984-7110    E-mail: scaldwell@nfpa.org
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EXPLANATION OF VOTE - Please type or print your comments:

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EXPLANATION OF VOTE - Please type or print your comments:

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________________________
Signature

________________________
Date 4/10/18
Please return the ballot on or before **Tuesday, April 24, 2018.**

**PLEASE RETURN TO:**  
Sarah Caldwell, *Technical Committee Administrator*  
NFPA  
1 Batterymarch Park  
Quincy, MA 02169  
**FAX:** (617) 984-7110  
**E-mail:** scaldwell@nfpa.org
Ballot Item No. 1:
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_____________________________________________________________________
_____________________________________________________________________

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_____________________________________________________________________
_____________________________________________________________________
NEIL CZARNECKI

Name (Please Print)

Please return the ballot on or before Tuesday, April 24, 2018.

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1 Battymarch Park
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Ballot Item No. 1:
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✓ 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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___

Signature

Date 4/19/2018
Please return the ballot on or before **Tuesday, April 24, 2018**.

**PLEASE RETURN TO:**
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NFPA
1 Batterymarch Park
Quincy, MA 02169

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

**E-mail:** scaldwell@nfpa.org
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[ ] AGREE [ ] DISAGREE* [ ] ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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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.

_________________________  _______________________
Signature  Date  4/24/18
Please return the ballot on or before Tuesday, April 24, 2018.

PLEASE RETURN TO:
Sarah Caldwell, Technical Committee Administrator
NFPA
1 Batterymarch Park
Quincy, MA 02169

FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
NEC® CODE-MAKING PANEL 13 LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
To revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of
NFPA 70, National Electrical Code®

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695.14(F) and revise 700.10(D)(3)

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.

X 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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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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Signature  Date 4-24-2018
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____ x ______ AGREED ______ 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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__________________________
Robert Jordan __________________________
Signature Date 4/11/18
Please return the ballot on or before Tuesday, April 24, 2018.

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NFPA
1 Batterymarch Park
Quincy, MA 02169
FAX: (617) 984-7110
E-mail: scaldwell@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of NFPA 70, *National Electrical Code*®.

Agree X Disagree* Abstain*

EXPLANATION OF VOTE - Please type or print your comments:

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Please refer to the explanation below.

Ballot Item No. 2:
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Agree 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.
Explanation of Negative Vote for Technical Merits:

I agree that changes are needed to address the well-intended revisions in the 2017 revision cycle of the NEC that in application, create conflict, confusion and hardship for installer/maintainers and enforcers. However, I do not agree with the revisions being proposed in this TIA.

The revisions in the 2017 cycle attempted to improve the “integrity” of the wiring of the remote start circuit(s) by introducing the need for continuous monitoring of the circuits. Providing this capability has been a technical challenge for generator and transfer switch manufacturers. The intent and application of these revisions were taken up in a recent discussion with several fire pump controller manufacturers. The discussion ended in a recommendation to delete the last two sentences of 695.14(F) and 700.10(D)(3) as shown below.

695.14(F) Generator Control Wiring Methods. Control conductors installed between the fire pump power transfer switch and the standby generator supplying the fire pump during normal power loss shall be kept entirely independent of all other wiring. The integrity of the generator control wiring shall be continuously monitored. Loss of integrity of the remote start circuit(s) shall initiate visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s) and start the generator(s).

700.10(D)(3) Generator Control Wiring. Control conductors installed between the transfer equipment and the emergency generator shall be kept entirely independent of all other wiring and shall meet the conditions of 700.10(D)(1). The integrity of the generator control wiring shall be continuously monitored. Loss of integrity of the remote start circuit(s) shall initiate visual and audible annunciation of generator malfunction at the generator local and remote annunciator(s) and start the generator(s).

The following reasons are given for substantiating the removal of these sentences.

1. The method of providing continuous monitoring while maintaining reliable remote start circuit(s) is subject to widely varying interpretation by AHJs and manufacturers. Solutions add various levels of complexity in either partially or fully meeting the requirements depending on interpretation.
2. Starting of the generator on loss of integrity of the remote start circuit(s) is not necessary and will, in most cases, not serve to provide power to fire pump or emergency system loads because the actual need to start the generator in almost all cases may not exist. The generator is simply being started due to
open, shorted, or grounded control wiring, not due to the need for the generator power source. This may result in loss of overall system integrity by unnecessarily expending generator fuel.

3. The 2017 NEC and the present proposals that attempt to resolve issues related to clarity do not resolve the underlying problem of adding complexity to prevent a loss of integrity in remote start circuit(s) in fire pump and emergency systems. There does not appear to be any evidence that loss of integrity of remote start circuit(s) has been an issue in fire pump and emergency systems. The addition of the required level of complexity through the introduction of components other than protected field wiring and remote start circuit contacts may unintentionally result in creating issues that reduce integrity.

4. Engine generator sets supplying emergency or standby power to fire pump assemblies are required to be tested routinely in accordance with NFPA 25 and NFPA 110.
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695.14(F) and revise 700.10(D)(3)

X AGREE  ___________ DISAGREE*  ___________ ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

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X ABSTAIN

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EXPLANATION OF VOTE - Please type or print your comments:

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Linda J. Little  4/12/2018
Signature  Date
Please return the ballot on or before **Tuesday, April 24, 2018.**

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Sarah Caldwell, *Technical Committee Administrator*
NFPA
1 Batterymarch Park
Quincy, MA 02169

**FAX:** (617) 984-7110 **E-mail:** scaldwell@nfpa.org
Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695 14(F) and revise 700 10(D)(3)

_____X_____ AGREE  ____________ DISAGREE*  ____________ ABSTAIN*

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_____________________________________________________________________
_____________________________________________________________________

____________________________ ______4-17-18__________________
Signature Date
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Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of NFPA 70, National Electrical Code®

AGREE: X 
DISAGREE: 
ABSTAIN: *

EXPLANATION OF VOTE - Please type or print your comments:

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______________________________
Signature

______________________________
Date
Name (Please Print)

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Quincy, MA 02169
FAX: (617) 984-7110
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NEC® CODE-MAKING PANEL 13 LETTER BALLOT
PROPOSED TENTATIVE INTERIM AMENDMENT LOG NO. 1357
To revise 695.14(F) and revise 700.10(D)(3) of the 2017 Edition of
NFPA 70, National Electrical Code®

Ballot Item No. 1:
I agree with the TECHNICAL MERITS of the Proposed TIA to revise 695.14(F) and revise 700.10(D)(3)

____X____ AGREE   ________DISAGREE*   ________ABSTAIN*

EXPLANATION OF VOTE - Please type or print your comments:

*An explanation shall accompany a “disagree” or “abstain” vote.
_This revision is needed to ensure the Section's requirements are obtainable and enforceable_


Ballot Item No. 2:
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EXPLANATION OF VOTE - Please type or print your comments:

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_\[Signature\]_  4/11/2018  \[Date\]

_\[Name (Please Print)\]_

Please return the ballot on or before Tuesday, April 24, 2018.
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AGREE          DISAGREE*          ABSTAIN*

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__________________________  ________________________
Signature                  Date

4-12-18
Please return the ballot on or before **Tuesday, April 24, 2018.**

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Sarah Caldwell, *Technical Committee Administrator*  
NFPA  
1 Batterymarch Park  
Quincy, MA 02169  
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**E-mail:** scaldwell@nfpa.org
I agree with all of the adverse effects listed by the submitter. Most generators start with a simple closing of a normally open switch. A short would start the generator. Shorts to ground and opens circuits could be monitored by electrically isolating the control circuit and supervising it in the same manner as fire alarm systems, but that would then require a separate relay that replaces the normally open contact to start it. This introduces a lot of equipment that in itself could fail.

I am mostly concerned for the man who is trying to service and maintain this equipment. My greatest concern is that any derangement of the control circuit starts the generator. These requirements have been changing substantially every three years. When a serviceman approaches a generator, how is he supposed to know which code book was in force on the date that this unit was installed? With so many requirements, the only way that I can see for a service man to safely work on these is going to be to remove and isolate the battery terminals so that it cannot start while he is working on it. Does the system monitor for this? If he forgets to reconnect it, the unit will never run.

I have to question the origin and the need of many of these requirements that we have been seeing through the last few cycles. Have there been documented cases of control circuit failures that have prevented these standby power systems from doing their jobs, thus warranting all of these rigorous control wiring changes? If it is deemed necessary to continuously monitor the integrity of the remote start circuit, I believe that it should initiate visual and audible annunciation of this potential derangement of the system but not start the generator. If those who respond to this annunciation feel that the remote start circuits are compromised, then they can make the decision to start the generator manually. I think that this requirement has the potential to do more harm than good. I would rather go back to the 2011 rendition of 700.10(D)(3) then do that.

That’s my two cents, thanks for listening,
Dave Zinck
Newburyport Wiring Inspector
To all concerned:

I agree with all of the comments above and would like to add a couple more.

First of all, I question the need for this rule even as it now exists in the 2017 Code. The generator is started with a simple normally open circuit that closes. It is the most basic and simple circuit in the electrical world. Has there been a history of this normally open circuit failing? I am not aware of any. Nobody in the generator repair world I have quizzed about it know of any. Further, you never have to check for short circuits in the circuit because if it did the generator would start. So we are really talking about opens and grounds. All generators exercise once per week so the integrity of this connection is tested every week. Is this change that went into effect in the 2017 Code in response to a real need or a hypothetical situation? I agree with the comment that all of the components that would go into supervising this would add many other parts and connections that could fail compromising the ability for the generator to start, thus defeating the purpose. Should we install supervision for our supervision?

This also flies in the face of the new requirements of Article 445.18(B). This requirement demands a compromise of the start circuit, and if the generator is over 15KW, you have to have two of them. This in itself is a derangement of that simple normally open circuit for the start of the generator. And the real irony is that this requirement is mandating and putting the industry through significant burdens to PREVENT the generator from starting and Article 700.10(D)(3) is demanding that any compromise to the start circuit MUST START the generator!

I think that we need to take a deep breath and a step back and look at this situation. Why is this rule even here? The Code change analysis book simply said it was “necessary to provide a remote shutdown means in the event of an emergency”. There is a circuit breaker in the unit that would shut down the output power. It is true that the covers are equipped with locks and the brands that have an access door have locks on the access door. The locks are there to prevent tampering with the breakers, etc. This all becomes moot now that there is a requirement for the disconnect means. Anyone who wants to tamper with it can shut off the disconnect. Every one of these has a disconnect for the fuel. You could do away with 445.18(B) in its entirety by simply removing the locks from the circuit breaker access. If those who need the power shut off do not feel that it is adequate by simply shutting off the breaker they can always take the additional step of shutting off the gas petcock (or equal). Of course the generator will try to start but will not be able to and should shut off on “overcrank” protection. Even if there were no overcrank protection it would only try a few times before the battery becomes too weak to try. If someone has a rip roaring fire at his house sufficient for the fire department to shut off his power and shut off the generator he has a lot more to worry about than whether or not his generator tried to start.

David Zinck
Newburyport Wiring Inspector