



MEMORANDUM

TO: NFPA Technical Committee on Smoke Management Systems (SMO-AAA)

FROM: Tracy Golinveaux, Staff Liaison

DATE: March 24, 2010

SUBJECT: NFPA 92B A2011 ROP Letter Ballot

The ROP letter ballot for NFPA 92B is attached. The ballot is for formally voting on whether or not you concur with the committee's actions on the proposals. Reasons must accompany all negative and abstention ballots.

Please do not vote negatively because of editorial errors. However, please bring such errors to my attention for action.

The submittable PDF ballot form offers you the opportunity to submit your completed ballot electronically. If you are interested, please print out the attached Ballot Submittal Instructions for further information. These instructions provide information on how to download the files and submit the ballot.

Returning the ballot electronically is an option. You are still welcome to submit your ballot via fax (617.984.7110), mail or e-mail (jmcgovern@nfpa.org).

Please complete and return your ballot as soon as possible but no later than **Tuesday, April 13, 2010.**

The return of ballots is required by the Regulations Governing Committee Projects.

Attachments

92B-1 Log #CP7
(Entire Document)

Final Action: Accept

Submitter: Technical Committee on Smoke Management Systems,

Recommendation: Withdraw NFPA 92B, Standard for Smoke Management Systems in Malls, Atria, and Large Spaces, based on the acceptance of the new combined document NFPA 92. The action on the public proposals on NFPA 92B will be incorporated into NFPA 92.

Substantiation: All of the material within NFPA 92B has been incorporated within NFPA 92.

Committee Meeting Action: Accept

92B-2 Log #4
(2.3.1)

Final Action: Reject

Submitter: Bob Eugene, Underwriters Laboratories Inc.

Recommendation: *Revise text to read as follows:*

2.3.1 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

ANSI/UL 555, Standard for Fire Dampers, 2006, Revised 2009.

ANSI/UL 555S, Standard for Smoke Dampers, ~~2006~~ 1999, Revised 2009.

ANSI/UL 864, Standard for Control Units and Accessories for Fire Alarm Systems, ~~2006~~ 2003, Revised 2009.

Substantiation: Update referenced standards to most recent revisions. The revisions to UL 555 include the addition of test procedure for fire dampers installed outside the fire wall plane, the addition of multiple section rapid close dynamic damper testing and a revision of the Cycling Test. The revisions to UL 555S include a revision to address internal actuator testing being worst case, the addition of a procedure for testing multiple section damper assemblies, the addition of a Long Term Holding Test and a revision of the Cycling Test. The revisions to UL 864 include the following new and revised requirements: 1. Regulated and Special Applications Notification Appliance Circuits; 2. Distinguishing Internet Based Public Cellular Telephone Service from Dial-up Public Cellular Telephone Service; 3. Other Transmission Technologies; and 4. Component Temperatures for Solid State Devices.

Committee Meeting Action: Reject

Committee Statement: NFPA 92B is being withdrawn and will be superceded by new document 92. The referenced standards in Chapter 2 of NFPA 92 will be updated to reflect the current editions.

92B-3 Log #CP1
(3.3.5 Draft Curtain)

Final Action: Reject

Submitter: Technical Committee on Smoke Management Systems,

Recommendation: Adopt the preferred definition from the NFPA Glossary of Terms as follows:

3.3.5 Draft Curtain. A solid material, beam, girder, or similar material or construction that is attached to the underside of the ceiling and that protrudes a limited distance downward and creates a reservoir for collecting smoke. (204, 2007)

Substantiation: This definition is the preferred definition from the Glossary of Terms. Changing the secondary definition to the preferred definition complies with the Glossary of Terms Project.

Committee Meeting Action: Reject

Committee Statement: The committee prefers to keep the current definition of Draft Curtain. In NFPA 92B Draft Curtains are used to create a channel and not a reservoir.

92B-4 Log #CP2
(3.3.12 Plume)

Final Action: Reject

Submitter: Technical Committee on Smoke Management Systems,

Recommendation: Adopt the preferred definition from the NFPA Glossary of Terms as follows:

3.3.12 Plume. The column of hot gases, flames, and smoke rising above a fire; also called convection column, thermal updraft, or thermal column. [921, 2008]

Substantiation: This definition is the preferred definition from the Glossary of Terms. Changing the secondary definition to the preferred definition complies with the Glossary of Terms Project.

Committee Meeting Action: Reject

Committee Statement: The definition in NFPA 92B provides more detailed information as to the type of plumes appropriate for use in the document. The basic definition of plume (3.3.12) is intended to be general in nature with the specific types of plumes following immediately after.

92B-5 Log #CP3
(3.3.15 Smoke Barrier)

Final Action: Reject

Submitter: Technical Committee on Smoke Management Systems,

Recommendation: Adopt the preferred definition from the NFPA Glossary of Terms as follows:

3.3.15 Smoke Barrier. A continuous membrane, or a membrane with discontinuities created by protected openings, where such membrane is designed and constructed to restrict the movement of smoke. [5000, 2009]

Substantiation: This definition is the preferred definition from the Glossary of Terms. Changing the secondary definition to the preferred definition complies with the Glossary of Terms Project.

Committee Meeting Action: Reject

Committee Statement: The committee prefers to keep the current definition of Smoke Barrier which is more specific to the needs of this standard. Not all smoke barriers used in conjunction with a smoke management/control system will necessarily have protected openings.

92B-6 Log #3
(6.2.2.6(a), Equation)

Final Action: Reject

Submitter: John H. Klote, Leesburg, VA

Recommendation: Revise text to read as follows:

$$m = 0.3 + 0.32 Q_c^{1/3} W^{1/5} (z_b + 0.098 W^{1/5} H + 19.5 W^{1/5} - 15.49.2)$$

Substantiation: Equation (6.2.2.6a) results in errors of about 40 percent to 300 percent depending on the values of z_b , W and H . The revised coefficients of this proposal correct this. These coefficients were developed in the 2009 paper, *Unit Conversions and Engineering Equations*, by Klote.

Note: Supporting material is available for review at NFPA Headquarters.

Committee Meeting Action: Reject

Committee Statement: NFPA 92B is being withdrawn and will be superseded by new document 92. However, the Technical Committee has incorporated the change into Equation of proposed document NFPA 92. See Proposal 92-1.

92B-7 Log #2
(6.2.2.7(a), Equation)

Final Action: Reject

Submitter: John H. Klote, Leesburg, VA

Recommendation: Revise text to read as follows:

$$m = 0.067 \underline{0.062} (Q_c W)^{1/3} (z_b + 0.51H + \underline{15.75} \underline{52})$$

Substantiation: Equation (6.2.2.7a) results in errors of about 13 percent to 30 percent depending on the values of z_b , W and H . The revised coefficients of this proposal correct this. These coefficients are developed in the 2009 paper, *Unit Conversions and Engineering Equations*, by Klote.

Note: Supporting material is available for review at NFPA Headquarters.

Committee Meeting Action: Reject

Committee Statement: NFPA 92B is being withdrawn and will be superceded by new document 92. However, the Technical Committee has incorporated the change into Equation of proposed document NFPA 92. See Proposal 92-1.

92B-8 Log #1
(9.4.3)

Final Action: Reject

Submitter: James Everitt, Western Regional Fire Code Development Committee

Recommendation: Add a new section to read:

9.4.3 Documentation Required.

9.4.3.1 A complete report of acceptance testing shall be prepared by the design professional. The report shall provide documentation to include identification of all devices by manufacturer, nameplate data, design values, measured values and identification tag.

9.4.3.2 Identification and Documentation. Charts, drawings and other documents identifying and locating each component of the smoke control system, and describing its proper function and maintenance requirements, shall be maintained on file at the building as an attachment to the report.

9.4.3.2.1 Devices shall have an approved identifying tag or mark on them consistent with the other required documentation and shall be dated indicating the last time they were successfully tested and by whom.

9.4.4 The report shall be reviewed by the design professional and, when satisfied that the design intent has been achieved, the design professional shall seal, sign, and date the report.

9.4.5 Report filing. A copy of the final report shall be filed with the AHJ and an identical copy shall be maintained in an approved location at the building.

Substantiation: No guidance is given in the standard as to the documentation to be provided to the AHJ to demonstrate that the system has been installed as design or that all equipment operates and functions properly.

Committee Meeting Action: Reject

Committee Statement: The proposed provisions are more appropriately addressed in the applicable building or fire code. Chapter 8 of the new standard, NFPA 92 contains basic system acceptance criteria. See proposal 92-1.