

2011 Annual Revision Cycle

Report on Proposals

A compilation of NFPA® Technical
Committee Reports on Proposals
for public review and comment

Public Comment Deadline: September 3, 2010

NOTE: The proposed NFPA documents addressed in this Report on Proposals (ROP) and in a follow-up Report on Comments (ROC) will only be presented for action when proper Amending Motions have been submitted to the NFPA by the deadline of April 8, 2011. The June 2011 NFPA Conference & Expo will be held June 12–16, 2011 at the Boston Convention & Exhibition Center, Boston, MA. During the meeting, the Association Technical Meeting (Tech Session) will be held June 15–16, 2011. Documents that receive no motions will not be presented at the meeting and instead will be forwarded directly to the Standards Council for action on issuance. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA documents, check the NFPA website (www.nfpa.org) or contact NFPA Standards Administration.



National Fire Protection Association®

1 BATTERYMARCH PARK, QUINCY, MA 02169-7471

Information on NFPA Codes and Standards Development

I. Applicable Regulations. The primary rules governing the processing of NFPA documents (codes, standards, recommended practices, and guides) are the *NFPA Regulations Governing Committee Projects (Regs)*. Other applicable rules include *NFPA Bylaws*, *NFPA Technical Meeting Convention Rules*, *NFPA Guide for the Conduct of Participants in the NFPA Standards Development Process*, and the *NFPA Regulations Governing Petitions to the Board of Directors from Decisions of the Standards Council*. Most of these rules and regulations are contained in the *NFPA Directory*. For copies of the *Directory*, contact Codes and Standards Administration at NFPA Headquarters; all these documents are also available on the NFPA website at “www.nfpa.org.”

The following is general information on the NFPA process. All participants, however, should refer to the actual rules and regulations for a full understanding of this process and for the criteria that govern participation.

II. Technical Committee Report. The Technical Committee Report is defined as “the Report of the Technical Committee and Technical Correlating Committee (if any) on a document. A Technical Committee Report consists of the Report on Proposals (ROP), as modified by the Report on Comments (ROC), published by the Association.”

III. Step 1: Report on Proposals (ROP). The ROP is defined as “a report to the Association on the actions taken by Technical Committees and/or Technical Correlating Committees, accompanied by a ballot statement and one or more proposals on text for a new document or to amend an existing document.” Any objection to an action in the ROP must be raised through the filing of an appropriate Comment for consideration in the ROC or the objection will be considered resolved.

IV. Step 2: Report on Comments (ROC). The ROC is defined as “a report to the Association on the actions taken by Technical Committees and/or Technical Correlating Committees accompanied by a ballot statement and one or more comments resulting from public review of the Report on Proposals (ROP).” The ROP and the ROC together constitute the Technical Committee Report. Any outstanding objection following the ROC must be raised through an appropriate Amending Motion at the Association Technical Meeting or the objection will be considered resolved.

V. Step 3a: Action at Association Technical Meeting. Following the publication of the ROC, there is a period during which those wishing to make proper Amending Motions on the Technical Committee Reports must signal their intention by submitting a Notice of Intent to Make a Motion. Documents that receive notice of proper Amending Motions (Certified Amending Motions) will be presented for action at the annual June Association Technical Meeting. At the meeting, the NFPA membership can consider and act on these Certified Amending Motions as well as Follow-up Amending Motions, that is, motions that become necessary as a result of a previous successful Amending Motion. (See 4.6.2 through 4.6.9 of *Regs* for a summary of the available Amending Motions and who may make them.) Any outstanding objection following action at an Association Technical Meeting (and any further Technical Committee consideration following successful Amending Motions, see *Regs* at 4.7) must be raised through an appeal to the Standards Council or it will be considered to be resolved.

VI. Step 3b: Documents Forwarded Directly to the Council. Where no Notice of Intent to Make a Motion (NITMAM) is received and certified in accordance with the Technical Meeting Convention Rules, the document is forwarded directly to the Standards Council for action on issuance. Objections are deemed to be resolved for these documents.

VII. Step 4a: Council Appeals. Anyone can appeal to the Standards Council concerning procedural or substantive matters related to the development, content, or issuance of any document of the Association or on matters within the purview of the authority of the Council, as established by the *Bylaws* and as determined by the Board of Directors. Such appeals must be in written form and filed with the Secretary of the Standards Council (see 1.6 of *Regs*). Time constraints for filing an appeal must be in accordance with 1.6.2 of the *Regs*. Objections are deemed to be resolved if not pursued at this level.

VIII. Step 4b: Document Issuance. The Standards Council is the issuer of all documents (see Article 8 of *Bylaws*). The Council acts on the issuance of a document presented for action at an Association Technical Meeting within 75 days from the date of the recommendation from the Association Technical Meeting, unless this period is extended by the Council (see 4.8 of *Regs*). For documents forwarded directly to the Standards Council, the Council acts on the issuance of the document at its next scheduled meeting, or at such other meeting as the Council may determine (see 4.5.6 and 4.8 of *Regs*).

IX. Petitions to the Board of Directors. The Standards Council has been delegated the responsibility for the administration of the codes and standards development process and the issuance of documents. However, where extraordinary circumstances requiring the intervention of the Board of Directors exist, the Board of Directors may take any action necessary to fulfill its obligations to preserve the integrity of the codes and standards development process and to protect the interests of the Association. The rules for petitioning the Board of Directors can be found in the *Regulations Governing Petitions to the Board of Directors from Decisions of the Standards Council* and in 1.7 of the *Regs*.

X. For More Information. The program for the Association Technical Meeting (as well as the NFPA website as information becomes available) should be consulted for the date on which each report scheduled for consideration at the meeting will be presented. For copies of the ROP and ROC as well as more information on NFPA rules and for up-to-date information on schedules and deadlines for processing NFPA documents, check the NFPA website (www.nfpa.org) or contact NFPA Codes & Standards Administration at (617) 984-7246.

2011 Annual Revision Cycle ROP Contents

by NFPA Numerical Designation

Note: Documents appear in numerical order.

| NFPA No. | Type Action | Title | Page No. |
|----------|-------------|--|----------|
| 1 | P | Fire Code | 1-1 |
| 3 | N | Recommended Practice on Commissioning and Integrated Testing of Fire Protection and Life Safety Systems..... | 3-1 |
| 15 | P | Standard for Water Spray Fixed Systems for Fire Protection | 15-1 |
| 30 | P | Flammable and Combustible Liquids Code..... | 30-1 |
| 30A | P | Code for Motor Fuel Dispensing Facilities and Repair Garages..... | 30A-1 |
| 54 | P | National Fuel Gas Code | 54-1 |
| 59 | P | Utility LP-Gas Plant Code | 59-1 |
| 70E® | P | Standard for Electrical Safety in the Workplace® | 70E-1 |
| 80A | P | Recommended Practice for Protection of Buildings from Exterior Fire Exposures..... | 80A-1 |
| 90A | P | Standard for the Installation of Air-Conditioning and Ventilating Systems | 90A-1 |
| 90B | P | Standard for the Installation of Warm Air Heating and Air-Conditioning Systems..... | 90B-1 |
| 92 | N | Standard for Smoke Management Systems | 92-1 |
| 92A | W | Standard for Smoke-Control Systems Utilizing Barriers and Pressure Differences..... | 92A-1 |
| 92B | W | Standard for Smoke Management Systems in Malls, Atria, and Large Spaces | 92B-1 |
| 99 | P | Standard for Health Care Facilities | 99-1 |
| | | (will be redesignated as NFPA 99, Health Care Facilities Code) | |
| 101® | P | Life Safety Code® | 101-1 |
| 220 | P | Standard on Types on Building Construction..... | 220-1 |
| 221 | P | Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls | 221-1 |
| 232 | P | Standard for the Protection of Records..... | 232-1 |
| 318 | P | Standard for the Protection of Semiconductor Fabrication Facilities | 318-1 |
| 407 | P | Standard for Aircraft Fuel Servicing..... | 407-1 |
| 414 | P | Standard for Aircraft Rescue and Fire-Fighting Vehicles..... | 414-1 |
| 484 | C | Standard for Combustible Metals | 484-1 |
| 664 | P | Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities | 664-1 |
| 703 | P | Standard for Fire-Retardant Treated Wood and Fire-Retardant Coatings for Building Materials | 703-1 |
| 704 | P | Standard System for the Identification of the Hazards of Materials for Emergency Response..... | 704-1 |
| 720 | P | Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment | 720-1 |
| 790 | N | Standard for Competency of Third-Party Field Evaluation Bodies | 790-1 |
| 791 | N | Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation | 791-1 |
| 820 | P | Standard for Fire Protection in Wastewater Treatment and Collection Facilities..... | 820-1 |

| | | | |
|-------------------|---|--|--------|
| 1081 | P | Standard for Industrial Fire Brigade Member Professional Qualifications..... | 1081-1 |
| 1125 | P | Code for the Manufacture of Model Rocket and High Power Rocket Motors | 1125-1 |
| 1141 | P | Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas | 1141-1 |
| | | (will be redesignated as NFPA 1141, Standard for Fire Protection Infrastructure for Land Development in Wildland, Rural, and Suburban Areas) | |
| 1142 | P | Standard on Water Supplies for Suburban and Rural Fire Fighting..... | 1142-1 |
| 2112 | P | Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire..... | 2112-1 |
| 2113 | P | Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire | 2113-1 |
| | | (will be redesignated as NFPA 2113, Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel) | |
| 5000 [®] | P | Building Construction and Safety Code [®] | 5000-1 |

TYPES OF ACTION

P Partial Revision

C Complete Revision

N New Document

R Reconfirmation

W Withdrawal

**2011 Annual Revision Cycle ROP
Committees Reporting**

| | | Type Action | Page No. |
|---|---|--------------------|-----------------|
| Air Conditioning | | | |
| 90A | Standard for the Installation of Air-Conditioning and Ventilating Systems | P | 90A-1 |
| 90B | Standard for the Installation of Warm Air Heating and Air-Conditioning Systems | P | 90B-1 |
| Aircraft Fuel Servicing | | | |
| 407 | Standard for Aircraft Fuel Servicing | P | 407-1 |
| Aircraft Rescue and Fire Fighting | | | |
| 414 | Standard for Aircraft Rescue and Fire-Fighting Vehicles | P | 414-1 |
| Automotive and Marine Service Stations | | | |
| 30A | Code for Motor Fuel Dispensing Facilities and Repair Garages | P | 30A-1 |
| Building Code | | | |
| 5000 | Building Construction and Safety Code® | P | 5000-1 |
| Building Construction | | | |
| 220 | Standard on Types of Building Construction | P | 220-1 |
| 221 | Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls | P | 221-1 |
| Structures, Construction, and Materials | | | |
| 703 | Standard for Fire-Retardant Treated Wood and Fire-Retardant Coatings for Building Materials | P | 703-1 |
| Classification and Properties of Hazardous Chemical Data | | | |
| 704 | Standard System for the Identification of the Hazards of Materials for Emergency Response | P | 704-1 |
| Cleanrooms | | | |
| 318 | Standard for the Protection of Semiconductor Fabrication Facilities | P | 318-1 |
| Combustible Metals and Metal Dusts | | | |
| 484 | Standard for Combustible Metals | C | 484-1 |
| Commissioning Fire Protection Systems | | | |
| 3 | Recommended Practice on Commissioning and Integrated Testing of Fire Protection and Life Safety Systems | N | 3-1 |
| Electrical Equipment Evaluation | | | |
| 790 | Standard for Competency of Third-Party Field Evaluation Bodies | N | 790-1 |
| 791 | Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation | N | 791-1 |
| Electrical Safety in the Workplace | | | |
| 70E | Standard for Electrical Safety in the Workplace® | P | 70E-1 |
| Exposure Fire Protection | | | |
| 80A | Recommended Practice for Protection of Buildings from Exterior Fire Exposures | P | 80A-1 |
| Fire Code | | | |
| 1 | Fire Code | P | 1-1 |
| Flammable and Combustible Liquids | | | |
| 30 | Flammable and Combustible Liquids Code | P | 30-1 |
| Flash Fire Protective Garments | | | |
| 2112 | Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire | P | 2112-1 |
| 2113 | Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire | P | 2113-1 |
| Forest and Rural Fire Protection | | | |
| 1141 | Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas | P | 1141-1 |
| 1142 | Standard on Water Supplies for Suburban and Rural Fire Fighting | P | 1142-1 |
| Health Care Facilities | | | |
| 99 | Standard for Health Care Facilities | P | 99-1 |

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|---|---|---|--------|
| LP-Gases at Utility Gas Plants | | | |
| 59 | Utility LP-Gas Plant Code | P | 59-1 |
| National Fuel Gas Code | | | |
| 54 | National Fuel Gas Code | P | 54-1 |
| Professional Qualifications | | | |
| Industrial Fire Brigades Professional Qualifications | | | |
| 1081 | Standard for Industrial Fire Brigade Member Professional Qualifications | P | 1081-1 |
| Pyrotechnics | | | |
| 1125 | Code for the Manufacture of Model Rocket and High Power Rocket Motors | P | 1125-1 |
| Record Protection | | | |
| 232 | Standard for the Protection of Records | P | 232-1 |
| Safety to Life | | | |
| 101 [®] | Life Safety Code [®] | P | 101-1 |
| Signaling Systems for the Protection of Life and Property | | | |
| Carbon Monoxide Detection | | | |
| 720 | Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment | P | 720-1 |
| Smoke Management Systems | | | |
| 92 | Standard for Smoke Management Systems | N | 92-1 |
| 92A | Standard for Smoke-Control Systems Utilizing Barriers and Pressure Differences | W | 92A-1 |
| 92B | Standard for Smoke Management Systems in Malls, Atria, and Large Spaces | W | 92B-1 |
| Wastewater Treatment Plants | | | |
| 820 | Standard for Fire Protection in Wastewater Treatment and Collection Facilities | P | 820-1 |
| Water Spray Fixed Systems | | | |
| 15 | Standard for Water Spray Fixed Systems for Fire Protection | P | 15-1 |
| Wood and Cellulosic Materials Processing | | | |
| 664 | Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities | P | 77-1 |

COMMITTEE MEMBER CLASSIFICATIONS^{1,2,3,4}

The following classifications apply to Committee members and represent their principal interest in the activity of the Committee.

1. M Manufacturer: A representative of a maker or marketer of a product, assembly, or system, or portion thereof, that is affected by the standard.
2. U User: A representative of an entity that is subject to the provisions of the standard or that voluntarily uses the standard.
3. IM Installer/Maintainer: A representative of an entity that is in the business of installing or maintaining a product, assembly, or system affected by the standard.
4. L Labor: A labor representative or employee concerned with safety in the workplace.
5. RT Applied Research/Testing Laboratory: A representative of an independent testing laboratory or independent applied research organization that promulgates and/or enforces standards.
6. E Enforcing Authority: A representative of an agency or an organization that promulgates and/or enforces standards.
7. I Insurance: A representative of an insurance company, broker, agent, bureau, or inspection agency.
8. C Consumer: A person who is or represents the ultimate purchaser of a product, system, or service affected by the standard, but who is not included in (2).
9. SE Special Expert: A person not representing (1) through (8) and who has special expertise in the scope of the standard or portion thereof.

NOTE 1: "Standard" connotes code, standard, recommended practice, or guide.

NOTE 2: A representative includes an employee.

NOTE 3: While these classifications will be used by the Standards Council to achieve a balance for Technical Committees, the Standards Council may determine that new classifications of member or unique interests need representation in order to foster the best possible Committee deliberations on any project. In this connection, the Standards Council may make such appointments as it deems appropriate in the public interest, such as the classification of "Utilities" in the National Electrical Code Committee.

NOTE 4: Representatives of subsidiaries of any group are generally considered to have the same classification as the parent organization.

**FORM FOR COMMENT ON NFPA REPORT ON PROPOSALS
2011 ANNUAL REVISION CYCLE
FINAL DATE FOR RECEIPT OF COMMENTS: 5:00 pm EDST, September 3, 2010**

For further information on the standards-making process, please contact the Codes and Standards Administration at 617-984-7249 or visit www.nfpa.org/codes.

For technical assistance, please call NFPA at 1-800-344-3555.

FOR OFFICE USE ONLY

Log #: _____

Date Rec'd: _____

Please indicate in which format you wish to receive your ROP/ROC electronic paper download
(Note: If choosing the download option, you must view the ROP/ROC from our website; no copy will be sent to you.)

Date 8/1/200X Name John B. Smith Tel. No. 253-555-1234

Company _____ Email _____

Street Address 9 Seattle St. City Tacoma State WA Zip 98402

***If you wish to receive a hard copy, a street address **MUST** be provided. Deliveries cannot be made to PO boxes.

Please indicate organization represented (if any) Fire Marshals Assn. of North America

1. (a) NFPA Document Title National Fire Alarm Code NFPA No. & Year NFPA 72, 200X ed.

(b) Section/Paragraph 4.4.1.1

2. Comment on Proposal No. (from ROP): 72-7

3. Comment Recommends (check one): new text revised text deleted text

4. Comment (include proposed new or revised wording, or identification of wording to be deleted): [Note: Proposed text should be in legislative format; i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (~~deleted wording~~).]

Delete exception.

5. **Statement of Problem and Substantiation for Comment:** (Note: State the problem that would be resolved by your recommendation; give the specific reason for your Comment, including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.)

A properly installed and maintained system should be free of ground faults. The occurrence of one or more ground faults should be required to cause a 'trouble' signal because it indicates a condition that could contribute to future malfunction of the system. Ground fault protection has been widely available on these systems for years and its cost is negligible. Requiring it on all systems will promote better installations, maintenance and reliability.

6. Copyright Assignment

(a) I am the author of the text or other material (such as illustrations, graphs) proposed in the Comment.

(b) Some or all of the text or other material proposed in this Comment was not authored by me. Its source is as follows: (please identify which material and provide complete information on its source)

I hereby grant and assign to the NFPA all and full rights in copyright in this Comment and understand that I acquire no rights in any publication of NFPA in which this Comment in this or another similar or analogous form is used. Except to the extent that I do not have authority to make an assignment in materials that I have identified in (b) above, I hereby warrant that I am the author of this Comment and that I have full power and authority to enter into this assignment.

Signature (Required) _____

PLEASE USE SEPARATE FORM FOR EACH COMMENT

Mail to: Secretary, Standards Council · National Fire Protection Association

1 Batterymarch Park · Quincy, MA 02169-7471 OR

Fax to: (617) 770-3500 OR Email to: proposals_comments@nfpa.org

**FORM FOR COMMENT ON NFPA REPORT ON PROPOSALS
2011 ANNUAL REVISION CYCLE
FINAL DATE FOR RECEIPT OF COMMENTS: 5:00 pm EDST, September 3, 2010**

For further information on the standards-making process, please contact the Codes and Standards Administration at 617-984-7249 or visit www.nfpa.org/codes.

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FOR OFFICE USE ONLY

Log #: _____

Date Rec'd: _____

Please indicate in which format you wish to receive your ROP/ROC electronic paper download
(Note: If choosing the download option, you must view the ROP/ROC from our website; no copy will be sent to you.)

Date _____ Name _____ Tel. No. _____

Company _____ Email _____

Street Address _____ City _____ State _____ Zip _____

*****If you wish to receive a hard copy, a street address MUST be provided. Deliveries cannot be made to PO boxes.**

Please indicate organization represented (if any) _____

1. (a) NFPA Document Title _____ NFPA No. & Year _____

(b) Section/Paragraph _____

2. Comment on Proposal No. (from ROP): _____

3. Comment Recommends (check one): new text revised text deleted text

4. Comment (include proposed new or revised wording, or identification of wording to be deleted): [Note: Proposed text should be in legislative format; i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (~~deleted wording~~).]

5. **Statement of Problem and Substantiation for Comment:** (Note: State the problem that would be resolved by your recommendation; give the specific reason for your Comment, including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.)

6. Copyright Assignment

(a) I am the author of the text or other material (such as illustrations, graphs) proposed in the Comment.

(b) Some or all of the text or other material proposed in this Comment was not authored by me. Its source is as follows: (please identify which material and provide complete information on its source)

I hereby grant and assign to the NFPA all and full rights in copyright in this Comment and understand that I acquire no rights in any publication of NFPA in which this Comment in this or another similar or analogous form is used. Except to the extent that I do not have authority to make an assignment in materials that I have identified in (b) above, I hereby warrant that I am the author of this Comment and that I have full power and authority to enter into this assignment.

Signature (Required) _____

PLEASE USE SEPARATE FORM FOR EACH COMMENT

Mail to: Secretary, Standards Council · National Fire Protection Association
1 Batterymarch Park · Quincy, MA 02169-7471 OR
Fax to: (617) 770-3500 OR Email to: proposals_comments@nfpa.org

Sequence of Events Leading to Issuance of an NFPA Committee Document

Step 1 Call for Proposals

▼ Proposed new document or new edition of an existing document is entered into one of two yearly revision cycles, and a Call for Proposals is published.

Step 2 Report on Proposals (ROP)

▼ Committee meets to act on Proposals, to develop its own Proposals, and to prepare its Report.

▼ Committee votes by written ballot on Proposals. If two-thirds approve, Report goes forward. Lacking two-thirds approval, Report returns to Committee.

▼ Report on Proposals (ROP) is published for public review and comment.

Step 3 Report on Comments (ROC)

▼ Committee meets to act on Public Comments to develop its own Comments, and to prepare its report.

▼ Committee votes by written ballot on Comments. If two-thirds approve, Report goes forward. Lacking two-thirds approval, Report returns to Committee.

▼ Report on Comments (ROC) is published for public review.

Step 4 Association Technical Meeting

▼ “*Notices of intent to make a motion*” are filed, are reviewed, and valid motions are certified for presentation at the Association Technical Meeting. (“Consent Documents” that have no certified motions bypass the Association Technical Meeting and proceed to the Standards Council for issuance.)

▼ NFPA membership meets each June at the Association Technical Meeting and acts on Technical Committee Reports (ROP and ROC) for documents with “certified amending motions.”

▼ Committee(s) vote on any amendments to Report approved at NFPA Annual Membership Meeting.

Step 5 Standards Council Issuance

▼ Notification of intent to file an appeal to the Standards Council on Association action must be filed within 20 days of the NFPA Annual Membership Meeting.

▼ Standards Council decides, based on all evidence, whether or not to issue document or to take other action, including hearing any appeals.

The Association Technical Meeting

The process of public input and review does not end with the publication of the ROP and ROC. Following the completion of the Proposal and Comment periods, there is yet a further opportunity for debate and discussion through the Association Technical Meeting that takes place at the NFPA Annual Meeting.

The Association Technical Meeting provides an opportunity for the final Technical Committee Report (i.e., the ROP and ROC) on each proposed new or revised code or standard to be presented to the NFPA membership for the debate and consideration of motions to amend the Report. The specific rules for the types of motions that can be made and who can make them are set forth in NFPA's rules, which should always be consulted by those wishing to bring an issue before the membership at an Association Technical Meeting. The following presents some of the main features of how a Report is handled.

The Filing of a Notice of Intent to Make a Motion. Before making an allowable motion at an Association Technical Meeting, the intended maker of the motion must file, in advance of the session, and within the published deadline, a Notice of Intent to Make a Motion. A Motions Committee appointed by the Standards Council then reviews all notices and certifies all amending motions that are proper. The Motions Committee can also, in consultation with the makers of the motions, clarify the intent of the motions and, in certain circumstances, combine motions that are dependent on each other together so that they can be made in one single motion. A Motions Committee report is then made available in advance of the meeting listing all certified motions. Only these Certified Amending Motions, together with certain allowable Follow-Up Motions (that is, motions that have become necessary as a result of previous successful amending motions) will be allowed at the Association Technical Meeting.

Consent Documents. Often there are codes and standards up for consideration by the membership that will be noncontroversial and no proper Notices of Intent to Make a Motion will be filed. These "Consent Documents" will bypass the Association Technical Meeting and head straight to the Standards Council for issuance. The remaining documents are then forwarded to the Association Technical Meeting for consideration of the NFPA membership.

What Amending Motions Are Allowed. The Technical Committee Reports contain many Proposals and Comments that the Technical Committee has rejected or revised in whole or in part. Actions of the Technical Committee published in the ROP may also eventually be rejected or revised by the Technical Committee during the development of its ROC. The motions allowed by NFPA rules provide the opportunity to propose amendments to the text of a proposed code or standard based on these published Proposals, Comments, and Committee actions. Thus, the list of allowable motions include motions to accept Proposals and Comments in whole or in part as submitted or as modified by a Technical Committee action. Motions are also available to reject an accepted Comment in whole or part. In addition, Motions can be made to return an entire Technical Committee Report or a portion of the Report to the Technical Committee for further study.

The NFPA Annual Meeting, also known as the NFPA Conference & Expo, takes place in June of each year. A second Fall membership meeting was discontinued in 2004, so the NFPA Technical Committee Report Session now runs once each year at the Annual Meeting in June.

Who Can Make Amending Motions. NFPA rules also define those authorized to make amending motions. In many cases, the maker of the motion is limited by NFPA rules to the original submitter of the Proposal or Comment or his or her duly authorized representative. In other cases, such as a Motion to Reject an accepted Comment, or to Return a Technical Committee Report or a portion of a Technical Committee Report for Further Study, anyone can make these motions. For a complete explanation, the NFPA Regs should be consulted.

Action on Motions at the Association Technical Meeting. In order to actually make a Certified Amending Motion at the Association Technical Meeting, the maker of the motion must sign in at least an hour before the session begins. In this way a final list of motions can be set in advance of the session. At the session, each proposed document up for consideration is presented by a motion to adopt the Technical Committee Report on the document. Following each such motion, the presiding officer in charge of the session opens the floor to motions on the document from the final list of Certified Amending Motions followed by any permissible Follow-Up Motions. Debate and voting on each motion proceeds in accordance with NFPA rules. NFPA membership is not required in order to make or speak to a motion, but voting is limited to NFPA members who have joined at least 180 days prior to the Association Technical Meeting and have registered for the meeting. At the close of debate on each motion, voting takes place, and the motion requires a majority vote to carry. In order to amend a Technical Committee Report, successful amending motions must be confirmed by the responsible Technical Committee, which conducts a written ballot on all successful amending motions following the meeting and prior to the document being forwarded to the Standards Council for issuance.

Standards Council Issuance

One of the primary responsibilities of the NFPA Standards Council, as the overseer of the NFPA codes and standards development process, is to act as the official issuer of all NFPA codes and standards. When it convenes to issue NFPA documents, it also hears any appeals related to the document. Appeals are an important part of assuring that all NFPA rules have been followed and that due process and fairness have been upheld throughout the codes and standards development process. The Council considers appeals both in writing and through the conduct of hearings at which all interested parties can participate. It decides appeals based on the entire record of the process as well as all submissions on the appeal. After deciding all appeals related to a document before it, the Council, if appropriate, proceeds to issue the document as an official NFPA code or standard. Subject only to limited review by the NFPA Board of Directors, the decision of the Standards Council is final, and the new NFPA code or standard becomes effective twenty days after Standards Council issuance.

Report of the Committee on

Nonvoting

Smoke Management Systems

Randolph W. Tucker, *Chair*
The RJA Group, Inc., TX [SE]

Elyahu Avidor, Charlottesville, VA [RT]
Rep. Standards Institution of Israel

Paul David Compton, Colt International, Ltd., United Kingdom [M]

Richard J. Davis, FM Global, MA [I] ()

Michael Earl Dillon, Dillon Consulting Engineers, Inc., CA [SE]

Robert G. Dittrich, Honeywell, Inc., IL [M]
Rep. National Electrical Manufacturers Association

Douglas H. Evans, Clark County Building Department, NV [E]

Michael J. Ferreira, Hughes Associates, Inc., MD [SE]

Geoffrey Harris, Smoke and Fire Engineering Technology Ltd., United Kingdom [SE]
Rep. ISO TC on Smoke and Heat Control Systems and Components

John E. Kampmeyer, Triad Fire Protection Engineering Corporation, PA [SE]
Rep. National Society of Professional Engineers

William E. Koffel, Koffel Associates, Inc., MD [M]
Rep. AAMA Smoke Vent Task Group

Gary D. Lougheed, National Research Council of Canada, Canada [RT]

Anthony J. Militello, US Department of the Navy, DC [E]

James A. Milke, University of Maryland, MD [SE]

Timothy J. Orris, AMCA International, Inc., IL [M]
Rep. Air Movement & Control Association

Lawrence J. Shudak, Underwriters Laboratories Inc., IL [RT]

Paul Simony, Acralight International, CA [M]

Jeffrey S. Tubbs, Arup Fire, MA [SE]

Paul G. Turnbull, Siemens Building Technologies, Inc., IL [M]

Robert Van Becelaere, Ruskin Manufacturing, MO [M]
Rep. American Society of Mechanical Engineers

Stacy N. Welch, Marriott International, Inc., DC [U]

Peter J. Willse, XL Global Asset Protection Services, CT [I]

Steven D. Wolin, Code Consultants, Inc., MO [SE]

Alternates

Sanjay Aggarwal, The RJA Group, Inc., CA [SE]
(Alt. to Randolph W. Tucker)

Craig L. Beyler, Hughes Associates, Inc., MD [SE]
(Alt. to Michael J. Ferreira)

Diane B. Copeland, Dillon Consulting Engineers, Inc., CA [SE]
(Alt. to Michael Earl Dillon)

Milton H. Hsieh, Clark County Department of Development Services, NV [E]
(Alt. to Douglas H. Evans)

Gregory R. Miller, Code Consultants, Inc., MO [SE]
(Alt. to Steven D. Wolin)

Robert C. Sampson, Acralight International, MA [M]
(Alt. to Paul Simony)

Blake M. Shugarman, Underwriters Laboratories Inc., IL [RT]
(Alt. to Lawrence J. Shudak)

Rick Thornberry, The Code Consortium, Inc., CA [M]
(Alt. to William E. Koffel)

Yibing Xin, FM Global, MA [I]
(Alt. to Richard J. Davis)

Bent A. Borresen, Techno Consult, Norway
(Alt. to Christian Norgaard Madsen)

Christian Norgaard Madsen, Techno Consultant, Norway

Harold E. Nelson, Annandale, VA [SE]
(Member Emeritus)

Staff Liaison: **Tracy L. Golinveaux**

Committee Scope: This Committee shall have primary responsibility for documents on the design, installation, testing, operation, and maintenance of systems for the control, removal, or venting of heat or smoke from fires in buildings.

This list represents the membership at the time the Committee was balloted on the text of this edition. Since that time, changes in the membership may have occurred. A key to classifications is found at the front of this book.

The Technical Committee on **Smoke Management Systems** is presenting three Reports for adoption, as follows:

Report I: The Technical Committee proposes for adoption, a new document NFPA 92, **Standard for Smoke Management Systems**, 2012 edition.

The report on NFPA 92 has been submitted to letter ballot of the **Technical Committee on Smoke Management Systems**, which consists of 23 voting members. The results of the balloting, after circulation of any negative votes, can be found in the report.

Report II: The Technical Committee proposes for adoption, a withdrawal to NFPA 92A, **Standard for Smoke-Control Systems Utilizing Barriers and Pressure Differences**, 2009 edition. NFPA 92A-2009 is published in Volume 7 of the 2010 National Fire Codes and in separate pamphlet form.

The report on NFPA 92A has been submitted to letter ballot of the **Technical Committee on Smoke Management Systems**, which consists of 23 voting members. The results of the balloting, after circulation of any negative votes, can be found in the report.

Report III: The Technical Committee proposes for adoption, a withdrawal to NFPA 92B, **Standard for Smoke Management Systems in Malls, Atria, and Large Spaces**, 2009 edition. NFPA 92B-2009 is published in Volume 7 of the 2010 National Fire Codes and in separate pamphlet form.

The report on NFPA 92B has been submitted to letter ballot of the **Technical Committee on Smoke Management Systems**, which consists of 23 voting members. The results of the balloting, after circulation of any negative votes, can be found in the report.

92B-1 Log #CP7 Final Action: Accept
(Entire Document)

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

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.

92B-2 Log #4 Final Action: Reject
(2.3.1)

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 superseded by new document 92. The referenced standards in Chapter 2 of NFPA 92 will be updated to reflect the current editions.

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.

92B-3 Log #CP1 Final Action: Reject
(3.3.5 Draft Curtain)

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.

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.

92B-4 Log #CP2 Final Action: Reject
(3.3.12 Plume)

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.

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.

92B-5 Log #CP3 Final Action: Reject
(3.3.15 Smoke Barrier)

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.

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.

92B-6 Log #3 Final Action: Reject
(6.2.2.6(a), Equation)

Submitter: John H. Klote, Leesburg, VA

Recommendation: Revise text to read as follows:

$$m = 0.34 + 0.32 Qc^{1/3} W^{1/5} (zb + 0.098W^{7/15} H + 19.5W^{7/15} - 45.49.2)$$

Substantiation: Equation (6.2.2.6a) results in errors of about 40 percent to 300 percent depending on the values of zb , 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.

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.

Comment on Affirmative:

DAVIS, R.: The change has not been made to the draft of 92.

TURNBULL, P.: I agree with including the revised equation in the new consolidated document, but this revision does not appear to be included in the draft of the consolidated document.

92B-7 Log #2 Final Action: Reject
(6.2.2.7(a), Equation)

Submitter: John H. Klote, Leesburg, VA

Recommendation: Revise text to read as follows:

$$m = 0.067 + 0.062 (QcW)^{1/3} (zb + 0.51H + 45.75.52)$$

Substantiation: Equation (6.2.2.7a) results in errors of about 13 percent to 30 percent depending on the values of zb , 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 superseded by new document 92. However, the Technical Committee has incorporated the change into Equation of proposed document NFPA 92.

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.

Comment on Affirmative:

DAVIS, R.: The change has not been made to the draft of 92.

TURNBULL, P.: I agree with including the revised equation in the new consolidated document, but this revision does not appear to be included in the draft of the consolidated document.

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.

Number Eligible to Vote: 23

Ballot Results: Affirmative: 22

Ballot Not Returned: 1 Simony, P.