1. **Call to Order.** Call meeting to order by Chair Michael Arnold at 1:00 p.m. EDT, on October 7, 2011 via teleconference.

2. **Welcome and Introduction of Teleconference Participants.** For a committee roster, see page 2.

3. **Chair’s remarks.** Michael Arnold, Marsh USA Inc.

4. **Approval of Prior Meeting Minutes.** For the January 19, 2011 meeting minutes, see page 6.

5. **Staff Liaison Updates.** NFPA News, Committee Roster, Schedule, Advisory Service, ROC meeting procedures.

6. **Public Comments.** There are 9 public proposals for NFPA 301 (please note Log #2 is not included as it is inactive). See page 8.

7. **Committee Comments.**

8. **ROC Balloting Information.**

9. **Other Business.**

10. **Future Meetings.**

11. **Adjournment.**
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<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Michael L. Arnold</td>
<td>Chair</td>
<td>Marsh USA Inc. 111 SW Columbia, Suite 500 Portland, OR 97201</td>
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<tr>
<td>John G. Atherton</td>
<td>Principal</td>
<td>Burgoyne Incorporated 1020 Finsbury Drive Roswell, GA 30075</td>
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<tr>
<td>Grace Bauer</td>
<td>Principal</td>
<td>Bauer Interiors Inc. 625 St. Charles Avenue, PHC New Orleans, LA 70130</td>
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<tr>
<td>David L. Bowman</td>
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<td>Warren A. Chigoy, Jr.</td>
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<td>SOTEC 5800 Jefferson Highway, Suite E New Orleans, LA 70123</td>
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<td>Charles J. Dorchak</td>
<td>Principal</td>
<td>ABS Americas ABS Plaza 16855 Northchase Drive Houston, TX 77060</td>
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<tr>
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<td>Principal</td>
<td>UTC/Marioff Corporation PO Box 86 (Virnatie 3) Vantaa, FI-01310 Finland</td>
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<td>Matthew Andrades</td>
<td>Principal</td>
<td>Transport Canada Marine Safety 1176 Woodside Drive Ottawa, ON K2C 2G8 Canada</td>
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<tr>
<td>Gerard G. Back</td>
<td>Principal</td>
<td>Hughes Associates, Inc. 3610 Commerce Drive, Suite 817 Baltimore, MD 21227-1652</td>
<td>Alternate: Philip J. DiNenno</td>
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<td>Kerry M. Bell</td>
<td>Principal</td>
<td>Underwriters Laboratories Inc. 333 Pfingsten Road Northbrook, IL 60062-2096</td>
<td>Alternate: Rossen E. Marinov</td>
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<td>David L. Bowman</td>
<td>Principal</td>
<td>National Fire Sprinkler Association, Inc. 6572 SE 173rd Court Ocklawaha, FL 32179</td>
<td>Alternate: Russell P. Fleming</td>
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<td>William D. Cummings</td>
<td>Principal</td>
<td>Fire Risk Management, Inc. Customs House, 2nd Floor 1 Front Street Bath, ME 04530</td>
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<tr>
<td>Randall Eberly</td>
<td>Principal</td>
<td>US Coast Guard Headquarters (G-MSE-4) 2100 2nd Street, SW Washington, DC 20593</td>
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<tr>
<td>Maurice Gordon</td>
<td>Principal</td>
<td>Maritime Systems Engineering, Inc. 6800 West Loop South, Suite 460 Bellaire, TX 77401</td>
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<td>Thomas Guldner</td>
<td>7/28/2006</td>
<td>SE</td>
<td>Marine Firefighting Inc. 850 Horizons East, #312 Boynton Beach, FL 33435</td>
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<tr>
<td>David J. LeBlanc</td>
<td>1/14/2005</td>
<td>M</td>
<td>Tyco Fire Suppression &amp; Building Products 1467 Elmwood Avenue Cranston, RI 02910</td>
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<td>William D. Stegbauer</td>
<td>11/2/2006</td>
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<td>Southern Towing Company 1874 Thomas Road Memphis, TN 38134</td>
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<td>Leo Campos</td>
<td>8/2/2010</td>
<td>E</td>
<td>American Bureau of Shipping 16855 Northchase Drive Houston, TX 77060 Principal: Charles J. Dorchak</td>
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<td>Timothy Earl</td>
<td>8/9/2011</td>
<td>SE</td>
<td>GBH International 6862 Shallowford Way Portage, MI 49024 Principal: Marcelo M. Hirschler</td>
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<tr>
<td>Marcelo M. Hirschler</td>
<td>4/17/1998</td>
<td>SE</td>
<td>GBH International 2 Friar’s Lane Mill Valley, CA 94941 Alternate: Timothy Earl</td>
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<td>Peter C. Lauridsen</td>
<td>10/1/1994</td>
<td>U</td>
<td>Passenger Vessel Association 1424 Ludlow Drive Virginia Beach, VA 23456</td>
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<tr>
<td>Yogesh B. Shah</td>
<td>10/1/1994</td>
<td>M</td>
<td>Honeywell Life Safety/Notifier 12 Clintonville Road Northford, CT 06472 National Electrical Manufacturers Association</td>
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<tr>
<td>Terry Virginis</td>
<td>1/1/1995</td>
<td>U</td>
<td>Gateway Clipper Fleet 9 Station Square Dock Pittsburgh, PA 15219 Alternate: Gary Frommelt</td>
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<td>Russell P. Fleming</td>
<td>7/1/1994</td>
<td>M</td>
<td>National Fire Sprinkler Association, Inc. 40 Jon Barrett Road Patterson, NY 12563 Principal: David L. Bowman</td>
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<td>Gary Frommelt</td>
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<td>Daniel B. Sullivan</td>
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<tr>
<td>Lawrence Russell</td>
<td>Staff Liaison</td>
<td>12/12/2003</td>
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<td>Rossen E. Marinov</td>
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Technical Committee on Merchant Vessels

Report on Proposals (ROP) Meeting & Teleconference Minutes
NFPA Headquarters, Quincy, MA
January 19, 2011

The Report on Proposals (ROP) meeting and teleconference was called to order by the Chairman, Michael L. Arnold at 10:05 (EST) on January 19, 2011. The purpose of the meeting/teleconference was to consider and act on public comments to the Report on Proposals (ROP) for Code for Safety to Life from Fire on Merchant Vessels, NFPA 301.

The Chairman made opening remarks and welcomed the Committee members.

Mr. Russell provided a safety briefing for those in attendance at NFPA Headquarters.

Technical Committee Members were asked to introduce themselves for the record.

Participating at NFPA Headquarters, Quincy, MA were:

<table>
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<tr>
<td>Michael L. Arnold, Chairman</td>
<td>Marsh U.S.A, Inc.</td>
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<tr>
<td>Peter C. Lauridsen</td>
<td>Passenger Vessel Association</td>
</tr>
<tr>
<td>Lawrence B. Russell</td>
<td>NFPA Staff Liaison</td>
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Jonathan Hart, NFPA Staff was present as an observer.

Participating by teleconference were:

- Jerry Back                    Hughes Associates, Inc.
- David L. Bowman               National Fire Sprinkler Association, Inc.
- Rupert Chandler               Hopeman Brothers, Inc.
- Randy Eberly                  U. S. Coast Guard
- Russell P. Fleming            National Fire Sprinkler Association, Inc.
- Gary Frommelt                 Hornblower Marine Services at Ceasars
- Thomas Guldner                Marine Firefighting, Inc.
- Marcelo M. Hirschler          GBH International
- Craig E. Hofmeister           The RJA Group, Inc.
- Yogesh B. Shah                National Electrical Manufacturers Assoc.
- Daniel B. Sullivan            UTC/Kidde Fire Systems

Kennet Granberg, Marioff Corporation was present by teleconference as a guest. Mr. Granberg, at the request of the Chairman, provided additional information concerning public proposal Log #11.
A technical problem prevented the teleconference participants from using the Live Meeting feature. These participants referred to the meeting materials that were previously sent by email.

NFPA Staff Liaison advised the attendees of the meeting/teleconference ground rules in accord with NFPA Regulations Governing Committee Projects. Mr. Russell presented the Annual 2012 revision cycle to the participants.

The Committee acted on twenty-three (23) public proposals and created seven (7) committee proposals. See the Annual 2012 Report on Proposals for details on the Committee’s actions and substantiation.

The Committee discussed a suggestion by Mr. Chandler to withdraw the document, NFPA 301. The Committee recognized that despite the fact that no vessels are known to have been built to the requirements of NFPA 301 in lieu of U. S. Coast Guard construction and fire protection regulations, the Code is a living document and a vehicle by which revisions or changes may be made more quickly than the Federal Government regulatory process to address any urgent marine vessel specific fire protection requirement.

The Committee created a committee proposal (CP7) to address a requirement in the Code that exceeds current U. S. Coast Guard regulatory requirements. The change is intended to bring the Code into equivalency with U. S. Coast Guard regulations.

Two (2) Action Items were generated at the NFPA 301 ROP meeting/teleconference as shown below.

**NFPA 301 A-2012 ROP Action Item 1.** Set date for Report on Comments Meeting by August 30, 2011. (Assigned to M. Arnold & L. Russell) - **OPEN**

**NFPA 301 A-2012 ROP Action Item 2.** Correct Live Meeting technical problem by August 30, 2011. (Assigned to L. Russell) - **OPEN**

The meeting/teleconference adjourned at 11:50 A.M. (EST) on January 19, 2011.
301- Log #1
(2.3.11)

Final Action:

Submitter: John F. Bender, Underwriters Laboratories Inc.
Comment on Proposal No: 301-5

Recommendation: Revise text to read as follows:
2.3.11 UL Publications. Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.
ANSI/UL 217, Single and Multiple Station Smoke Alarms, 2006, Revised 2010.

Substantiation: Update referenced standards to most recent revisions.
Also, delete all references to NFPA 255 in the body of the code. The references appear in the following sections:

8.2.7.2.2 Insulation and Coverings for Pipe or Ventilation Duct. Insulation and coverings, including any facing, lagging, or protective covering, for pipe or ventilation ducts shall be noncombustible or shall exhibit a flame spread index not exceeding 25, a smoke developed index not exceeding 50, and no flaming drips, when tested in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, or with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, using the specimen preparation and mounting procedures of ASTM E 2231, Standard Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics.

8.2.7.2.3 Insulation and Coverings for Cold Service Piping. Insulation and coverings, including any facing, lagging, or protective covering, for cold service piping insulation shall be either noncombustible or exhibit a flame spread index not exceeding 25, a smoke developed index not exceeding 50, and no flaming drips, when tested in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, or with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, using the specimen preparation and mounting procedures of ASTM E 2231, Standard Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics.

8.3.3.1.1 Interior finish materials, other than textile wall or ceiling coverings, shall have a flame spread index not exceeding 20 and a smoke developed index not exceeding 10 when tested in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, or with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, unless otherwise provided for in 8.3.3.1.2.

8.3.3.3 Interior finishes shall be permitted to be used in sprinklered areas where the finished manufactured assembly is tested [in actual-use thickness, with a maximum testing thickness of up to 100 mm (4 in.),] if the entire assembly complies with the following two requirements:

(1) The assembly exhibits a flame spread index not exceeding 75 and a smoke developed index not exceeding 450 when tested according to NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, or ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials.

(2) Flashover does not occur during the test and the total smoke released by the assembly does not exceed 1000 m2 (10,764 ft2) throughout the test when the assembly is tested according to NFPA 206, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

9.4.2.1.1.3 The material of construction of the duct shall exhibit a flame spread index not to exceed 20 and a smoke developed index not to exceed 10 when tested in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, or with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials.

21.15.5.1 All surfaces within 1 m (3.3 ft) of cooking appliances shall exhibit a flame spread index not exceeding 75 when tested in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, or with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials.

21.15.12.1 FRP using resin that exhibits a flame spread index not exceeding 100 when tested in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, or with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, shall be permitted to be used as materials of construction.

Substantiation: The NFPA technical committee on Fire Tests has withdrawn NFPA 255. It was technically equivalent to ASTM E84, which is referenced in the corresponding sections. Recent editions of NFPA 255 have not kept up with the changes that have been incorporated into ASTM E84 and continued reference to NFPA 255 is not advisable.
Revise text to read as follows:

2.3.4 ASTM Publications.

American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

Substantiation: The NFPA technical committee on Fire Tests chose to withdraw NFPA 271. It is technically equivalent to ASTM E1354, which is referenced in the corresponding section.
301- Log #6
(2.3.7)

Submitter: Marcelo M. Hirschler, GBH International
Comment on Proposal No: 301-3
Recommendation: Revise text to read as follows:

2.3.7 IEEE Publications. Institute of Electrical and Electronics Engineers, 445 Hoes Lane, Piscataway, NJ 08854-4141
Three Park Avenue, 17th Floor, New York, NY 10016-5997.

No change other than as follows:

Substantiation: Standards update.

301- Log #7
(D.1.1 and A.16.4)

Submitter: Marcelo M. Hirschler, GBH International
Comment on Proposal No: 301-28
Recommendation: Revise text to read as follows:

D.1.1 NFPA Publications. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

No change other than as follows:
NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, 2006 edition:
Also, delete all references to NFPA 255 in the annexes of the code. The references appear in the following sections:
A.16.4 Refrigerated Cargo Holds. Insulation has been shown to contribute to fire incidents unless properly protected or unless the insulation exhibits adequate fire performance. For this reason, insulation installed inside cargo holds should be either noncombustible and tested as a composite system in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, to the following criteria: (1) a flame spread index not exceeding 25; (2) a smoke-developed index not exceeding 50; and (3) no flaming drips; or noncombustible and tested in accordance with NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials, ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, to the following criteria: (1) a flame spread index not exceeding 75; (2) a smoke-developed index not exceeding 450; and (3) insulation protected by an approved thermal barrier [13 mm (0.51 in.) gypsum wallboard or equivalent] affording 15 minutes of protection.

Also, add ASTM E84 as a reference to section D.1.2.2 as follows:

Substantiation: The NFPA technical committee on Fire Tests has withdrawn NFPA 255. It was technically equivalent to ASTM E84, which needs to be referenced in the corresponding section. Recent editions of NFPA 255 have not kept up with the changes that have been incorporated into ASTM E84.
Submitters: Marcelo M. Hirschler, GBH International

Comment on Proposal No: 301-28

Recommendation: Revise text to read as follows:

D.1.1 NFPA Publications. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

No change other than as follows:


Also, delete all references to NFPA 271 in the annexes of the code. The sole reference appears in the following section:

A.8.4.7 Nonmetallic or plastic rubbish containers should be limited in their combustibility and should be tested for heat release with the cone calorimeter, ASTM E 1354, Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter, or NFPA 271, Standard Method of Test for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter.

Cone calorimeter tests on plastic materials should be conducted in the horizontal orientation and at a thickness of 6 mm. The value of 300 kW/m2 for peak rate of heat release of the rubbish container material corresponds to the value that Douglas fir wood emits under the same conditions. Rubbish containers are often manufactured of polyethylene [effective heat of combustion ca. 19,000 BTU/lb (45 MJ/kg)], which releases much more heat in a fire than the typical contents of the container, much of which is paper [effective heat of combustion ca. 6,400 BTU/lb (15 MJ/kg)].

Substantiation: The NFPA technical committee on Fire Tests chose to withdraw NFPA 271. It is technically equivalent to ASTM E1354, which is referenced in the corresponding section.

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Submitters: Marcelo M. Hirschler, GBH International

Comment on Proposal No: 301-29

Recommendation: Revise text to read as follows:

D.1.2.2 ASTM Publications.

American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.


Substantiation: Standards date updates.
Submittor: Marcelo M. Hirschler, GBH International
Comment on Proposal No: 301-28
Recommendation: Revise text to read as follows:
IEEE 1580, Recommended Practice for Marine Cable for Use on Shipboard and Fixed or Floating Facilities, 2010

Substantiation: Standards update.