

**NFPA Correlating Committee on Fire and Emergency Services Protective  
Clothing and Equipment (FAE-AAC)  
May 31 – June 2, 2017  
Providence, RI**

Meeting Call-In Information: 877-860-3058 Participant Code: 139065

May 31, 2017 – 9:00am

1. Call to Order, Bill Haskell, Chair
2. Introductions by Members and Guests
3. NFPA Staff Liaison Report, Chris Farrell
4. Approval of Minutes from Previous Meeting
5. Chairman's Remarks, Bill Haskell (ANSI/ASSE Z88 Respirator Committee & ISO SC15 USTAG Updates)
6. Overall PPE Project/Standards Schedule, Chris Farrell
7. Definitions Task Group, Karen Lehtonen
8. NFPA Certified Product with Non-Compliant Technologies/Systems/Equipment, Bob Athanas
9. Firefighter Hazard Environment Task Group, Dan Rossos & Marni Schmid
10. Eye, Face and Head Protection for Emergency Responders, Standard Development, Robert Tutterow
11. FPRF Project and Project Technical Panel Updates, Casey Grant
12. PFOA Discussion – Bruce Varner
13. ISO TC94 SC13 – Protective Clothing, SC14 – Firefighters' personal equipment Update, David Matthews, Russell Shephard, Diane Hess and Steve Corrado
14. NFPA Technical Committee Standard Reports
  - First Draft      NFPA 1975, J. Metz  
                         NFPA 1851, S. King
  - Second Draft    NFPA 1981, D. Rossos  
                         NFPA 1982, R. Athanas  
                         NFPA 1855, J. Metz  
                         NFPA 1858, J. Metz
15. Technical Committee Chair Reports
  - TC on ELS – R. Athanas
  - TC on EMS – T. Hock
  - TC on HAZ – C. Baxter
  - TC on RPE – D. Rossos
  - TC on SCE – J. Metz
  - TC on SPF – S. King
  - TC on TTO – B. Montgomery
  - TC on WFF – R. Swan
16. Old Business
17. New Business
18. Next Meeting
19. Adjourn

**First Draft Meeting of the Correlating Committee on Fire and Emergency  
Services  
Protective Clothing and Equipment  
December 13<sup>th</sup>, 2016  
Adobe Connect/Teleconference  
Minutes**

- Introduction: Bill Haskell, Chair – 11:00 a.m.
- Members and Guests

Jason Allen
Steve Corrado
Christine Fargo
Bill Haskell (Chair)
David Haston
Diane Hess
James Johnson
Karen Lehtonen
David Matthews
Benjamin Mauti
John Morris
Jeff Stull
Tim Tomlinson
Robert Tutterow
Bill Van Lent
Bruce Varner
Steve Weinstein
Dick Weise
Pat Freeman
Tim Gardner
Judge Morgan
Tricia Hock
Brian Montgomery
Dan Rossos
Rick Swan
Marni Schmid (guest)

- Chairman’s Remarks – Bill Haskell
- NFPA Staff Liaison Report – Chris Farrell
- Approval of Minutes from the previous meeting
- Task Group Updates (as appropriate)
  1. Definitions Task Group – Karen Lehtonen: No update about definitions.
  2. Labeling Task Group – Karen Lehtonen: Group can be disbanded since analysis was reported in the chart at the last Correlating committee meeting. Group was disbanded. No further update from Karen.

3. Firefighter Hazard Environment Task Group – Dan Rossos: no new update.
  4. Hood Safety Alert Task Group – Bruce Varner: Ed Conlin, Division Manager of Public Fire, updated that NFPA working on a communication. Cannot be called a safety notice, have to use a different name. Possibly use a “tip sheet” format with 3-4 takeaway items they want firefighters to know. Draft document will be provided to the Task Group for review after NFPA legal review, but prior to publication.
  5. Eye and Face Protection Task Group – Robert Tutterow: Task group continues to work on the end user survey. Eye and face selection for 1851 draft language being worked on.
  6. Harry Winer’s task group: no action taken since last CC meeting.
- ISO Update – Dave Matthews
  - Chapter 5 User Information Format – Steve Corrado: Attach to packaging containing the user information. Didn’t foresee widespread use of QR codes and smart phones. Asking for clarification regarding whether a physical printed copy is required or if a link to electronic documents is acceptable. Bill will follow up with the NFPA regarding where the clarification should be made (CC or NFPA FI)
  - NFPA 1852, 1989 First Draft Review
  - Technical Committee Chair Reports
    - a. TC on ELS: R. Athanas
    - b. TC on EMS: T. Hock
    - c. TC on HAZ: C. Baxter
    - d. TC on RPE: D. Rossos
    - e. TC on SCE: J. Metz
    - f. TC on SPF: S. King
    - g. TC on TTO: B. Montgomery
    - h. TC on WFF: R Swan
  - Old Business
  - New Business
  - Next Correlating Committee Meeting, dates and location  
Somewhere on the east coast near Boston:  
Providence, RI  
Portsmouth, NH  
Portland, ME
  - Adjourn



## National Fire Protection Association

1 Batterymarch Park, Quincy, MA 02169-7471  
Phone: 617-770-3000 • Fax: 617-770-0700 • www.nfpa.org

### MEMORANDUM

**TO:** Technical Committee on Special Operations Protective Clothing and Equipment

**FROM:** Yvonne Smith, *Project Administrator*

**DATE:** May 19, 2017

**SUBJECT:** NFPA 1975 First Draft Technical Committee FINAL Ballot Results (F2018)

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According to the final ballot results, all ballot items received the necessary affirmative votes to pass ballot.

**25 Members Eligible to Vote**

**5 Members Not Returned** (Hock, Howard, Klaren, McCurley, Paderick)

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

To pass ballot, **each** revision requires: (1) a simple majority of those eligible to vote and (2) an affirmative vote of  $\frac{2}{3}$  of ballots returned. See Sections 3.3.4.3.(c) and 4.3.10.1 of the ***Regulations Governing the Development of NFPA Standards***.



## First Revision No. 1-NFPA 1975-2017 [ Global Input ]

### Change title of document to:

Standard on Emergency Services Work Apparel

### Submitter Information Verification

**Submitter Full Name:** Chris Farrell

**Organization:** National Fire Protection Assoc

**Street Address:**

**City:**

**State:**

**Zip:**

**Submittal Date:** Wed Jan 25 09:11:22 EST 2017

### Committee Statement

**Committee Statement:** Technical Committee determined the previous title could potentially be confusing to the fire service.

**Response Message:**

### Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters

5 Not Returned

20 Affirmative All

0 Affirmative with Comments

0 Negative with Comments

0 Abstention

#### Not Returned

Hock, Tricia L.

Howard, Thomas

Klaren, Kim

McCurley, Loui

Paderick, H. Dean

#### Affirmative All

Allen, Jason L.

Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 7-NFPA 1975-2017 [ Section No. 1.1.4 ]

### 1.1.4

This standard shall also specify optional requirements for flame resistance, ~~odor resistance~~, water resistance, and insect repellancy where such options are specified or claimed to be used in construction of work apparel.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 11:47:43 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

## Ballot Results

✔ This item has passed ballot

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

### Not Returned

Hock, Tricia L.  
 Howard, Thomas  
 Klaren, Kim  
 McCurley, Loui  
 Paderick, H. Dean

### Affirmative All

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 8-NFPA 1975-2017 [ Section No. 1.2.1.3 ]

### 1.2.1.3

~~This standard shall also provide optional odor resistant requirements and tests to verify the odor resistant properties of textiles where the authority having jurisdiction specifies the use of odor resistant textiles for the construction of work apparel, or where the manufacturer represents work apparel textiles as having odor resistant properties.~~

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 11:48:15 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

## Ballot Results

✔ This item has passed ballot

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

### Not Returned

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.

Arrington, Joseph

Beechner, Brian J.

Corrado, Steven D.

Dacey, Paul

Dempsey, Keith B.

Dunn, Charles S.

Geraghty, Stephen J.

Haskell, III, William E.

Hess, Diane B.

Horn, Gavin P.

Krause, II, George R.

Legros, Stephen

Lehtonen, Karen E.

Metz, Jeremy

Nelson, Robert G.

Reall, Jack E.

Smith, Cedric

Stephenson, R. Douglas

Stinton, Robert



## First Revision No. 17-NFPA 1975-2017 [ Chapter 2 ]

### **Chapter 2** Referenced Publications

#### **2.1** General.

The documents or portions thereof listed in this chapter are referenced within this standard and shall be considered part of the requirements of this document.

## 2.2 NFPA Publications. (Reserved)

## 2.3 Other Publications.

### 2.3.1 AATCC Publications.

American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.

AATCC 42, *Water Resistance: Impact Penetration Test*, ~~2007~~ 2013 .

~~AATCC 100, *Antibacterial Finishes on Textile Materials, Assessment of* , 2004.~~

AATCC 135, *Dimensional Changes of Fabrics After Automatic Home Laundering*, ~~2010~~ 2004 .

AATCC 158, *Dimensional Changes on Dry-Cleaning in Perchloroethylene: Machine Method*, ~~2011~~ 2016 .

### 2.3.2 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM D751, *Standard Test Methods for Coated Fabrics*, ~~2006~~ 2011 .

ASTM D1683/D1683M, *Standard Test Method for Failure in Sewn Seams of Woven Apparel Fabrics*, ~~2011a~~ 2016 .

~~ASTM D1776/D1776M. *Standard Practice for Conditioning and Testing Textiles* . 2016.~~

~~ASTM D6413~~ ASTM D6413/D6413M , *Standard Test Method for Flame Resistance of Textiles (Vertical Test)*, ~~2011a~~ 2015 .

ASTM D6797, *Standard Test Method for Bursting Strength of Fabrics Constant Rate of Extension (CRE) Ball Burst Test*, ~~2007 (2011)~~ 2015 .

~~ASTM E2140, *Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions* , 2010.~~

ASTM F2894, *Standard Test Method for Evaluation of Materials, Protective Clothing and Equipment for Heat Resistance Using a Hot Air Circulating Oven*, ~~2012~~ 2014 .

### ~~2.3.3 GSA Publications.~~

~~U.S. General Services Administration, 1800 F Street, N.W., Washington, DC 20405.~~

~~Single copies of GSA publications generally are available at the General Services Administration Business Centers in cities throughout the United States. They also are available from the U.S. Government Printing Office.~~

~~Federal Test Method Standard 191A, *Textile Test Methods* , 1978.~~

### 2.3.3 ISO Publications.

International Organization for Standardization, ~~1, rue de Varembe, Case postale 56, CH 1211 Geneve 20, Switzerland~~ ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland .

ISO Guide 27, Guidelines for corrective action to be taken by a certification body in the event of misuse of its mark of conformity, 1983.

~~ISO/IEC 65, General requirements for bodies operating product certification systems , 1996.~~

ISO 9001, Quality management systems — requirements Requirements ,~~2000~~ 2008 .

ISO 9001, Quality management systems — Requirements , 2015.

ISO 17011, General requirements for accreditation bodies accrediting conformity assessment bodies, 2004.

ISO/IEC 17021, Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 1: Requirements , ~~2006~~ 2015 .

ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories, 2005.

ISO/IEC 17065, Conformity assessment — Requirements for bodies certifying products, processes and services . 2012.

### 2.3.4 Other Publications.

*Merriam-Webster's Collegiate Dictionary*, 11th edition, Merriam-Webster, Inc., Springfield, MA, 2003.

U.S. Department of Defense GL/PD 07-13C, *Purchase Description Coat, Army Combat Uniform*, U.S. Army Natick Research, Development and Engineering Center, Attn: RDNS-WPW-C, Kansas Street, Natick, MA 01760-5019, 2011.

### 2.4 References for Extracts in Mandatory Sections. (Reserved)

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell

**Organization:** National Fire Protection Assoc

**Street Address:**

**City:**

**State:**

**Zip:**

**Submittal Date:** Wed Jan 25 15:30:46 EST 2017

## Committee Statement

**Committee Statement:** Updating references.

**Response Message:**

Public Input No. 11-NFPA 1975-2017 [Chapter 2]

Public Input No. 20-NFPA 1975-2017 [Section No. 2.3.2]

## Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters

5 Not Returned

20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

**Not Returned**

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 9-NFPA 1975-2017 [ Section No. 3.3.19 ]

~~3.3.19 Odor Resistant.~~

~~A finish or an inherent property that minimizes the growth of odors from microbial causes.~~

### Submitter Information Verification

**Submitter Full Name:** Chris Farrell

**Organization:** National Fire Protection Assoc

**Street Address:**

**City:**

**State:**

**Zip:**

**Submittal Date:** Wed Jan 25 11:48:49 EST 2017

### Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

### Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters

5 Not Returned

20 Affirmative All

0 Affirmative with Comments

0 Negative with Comments

0 Abstention

#### Not Returned

Hock, Tricia L.

Howard, Thomas

Klaren, Kim

McCurley, Loui

Paderick, H. Dean

#### Affirmative All

Allen, Jason L.

Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 10-NFPA 1975-2017 [ Section No. 4.1.3.1 ]

### 4.1.3.1

~~Where work apparel is manufactured with odor resistant textiles, the entire garment shall be certified as compliant with the requirements of Section 7.3, in addition to all other requirements of this standard.~~

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 11:49:21 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

## Ballot Results

✔ This item has passed ballot

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

### Not Returned

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

### Affirmative All

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 2-NFPA 1975-2017 [ Section No. 4.1.4 ]

### 4.1.4

All certification shall be performed by a certification organization that meets at least the requirements specified in Section 4.2, Certification Program, and that is accredited for personal protective equipment in accordance with ISO ~~65, *General requirements for bodies operating product certification systems*~~ /IEC 17065, *Conformity assessment — Requirements for bodies certifying products, processes and services*. The accreditation shall be issued by an accreditation organization operating in accordance with ISO 17011, *General requirements for accreditation bodies accrediting conformity assessment bodies*.

### Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 09:38:57 EST 2017

### Committee Statement

**Committee Statement:** Updating references with consistent language in chapter four of all PPE documents.  
**Response Message:**

[Public Input No. 12-NFPA 1975-2017 \[Section No. 4.1.4\]](#)

### Ballot Results

✔ This item has passed ballot

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

#### Not Returned

Hock, Tricia L.  
 Howard, Thomas  
 Klaren, Kim  
 McCurley, Loui  
 Paderick, H. Dean

**Affirmative All**

Allen, Jason L.

Arrington, Joseph

Beechner, Brian J.

Corrado, Steven D.

Dacey, Paul

Dempsey, Keith B.

Dunn, Charles S.

Geraghty, Stephen J.

Haskell, III, William E.

Hess, Diane B.

Horn, Gavin P.

Krause, II, George R.

Legros, Stephen

Lehtonen, Karen E.

Metz, Jeremy

Nelson, Robert G.

Reall, Jack E.

Smith, Cedric

Stephenson, R. Douglas

Stinton, Robert



## First Revision No. 3-NFPA 1975-2017 [ Sections 4.1.9, 4.1.10, 4.1.11 ]

### 4.1.9

The certification organization shall not issue any new certifications to ~~the 2009~~ the 2014 edition of NFPA 1975 on or after the NFPA effective date for ~~the 2014~~ the 2019 edition of NFPA 1975, ~~which is November 12, 2013~~ .

### 4.1.10

The certification organization shall not permit any manufacturer to continue to label any products that are certified as compliant with ~~the 2009~~ the 2014 edition of NFPA 1975, on or after ~~November 12, 2013~~ the effective date , plus 12 months.

### 4.1.11

The certification organization shall require manufacturers to remove all certification labels and product labels indicating compliance with ~~the 2009~~ the 2014 edition of NFPA 1975, from all products that are under the control of the manufacturer on ~~November 12, 2013~~ the effective date , plus 12 months, and the certification organization shall verify that this action is taken.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 09:40:58 EST 2017

## Committee Statement

**Committee Statement:** Updating the effective date and certification date requirements.

**Response Message:**

[Public Input No. 13-NFPA 1975-2017 \[Sections 4.1.9, 4.1.10, 4.1.11\]](#)

## Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

### Not Returned

Hock, Tricia L.

Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 15-NFPA 1975-2017 [ Section No. 4.5.3 [Excluding any Sub-Sections] ]

The manufacturer shall be registered to ISO 9001, *Quality management systems — Requirements*.

### Supplemental Information

<u>File Name</u>	<u>Description Approved</u>
A.4.5.3_SR_15.docx	

### Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 14:14:08 EST 2017

### Committee Statement

**Committee Statement:** Addition of clarification language as to registration by manufacturer's to ISO 9001 2015 edition. This language was provided by the Correlating Committee to all TC's in the current revision cycles related to timing of the ISO standard and the NFPA standard publication.

**Response Message:**

Public Input No. 14-NFPA 1975-2017 [New Section after A.4.2.9]

### Ballot Results

✔ This item has passed ballot

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

#### Not Returned

Hock, Tricia L.  
 Howard, Thomas  
 Klaren, Kim

McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert

#### A.4.5.3

In September of 2015, a revised edition of ISO 9001 Quality management systems – Requirements was issued. Both the 2008 and 2015 editions of the standard are being referenced in this revision of the standard to allow manufacturer's sufficient amount of time to transition their quality management systems registration to this new edition.



## First Revision No. 4-NFPA 1975-2017 [ Sections 4.5.3.1, 4.5.3.2 ]

### 4.5.3.1

Registration to the requirements of ISO 9001, *Quality management systems — Requirements*, shall be conducted by a registrar that is accredited for personal protective equipment in accordance with ISO/IEC 17021, *Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 1: Requirements*. The registrar shall affix the accreditation mark on the ISO registration certificate.

### 4.5.3.2

~~Registrars specified in 4.5.3.1 shall be accredited for personal protective equipment in accordance with the 2006 edition of ISO/IEC 17021, *Conformity assessment — Requirements for bodies providing audit and certification of management systems* .~~

### 4.5.3.2

The scope of the ISO registration shall include at least the design and manufacturing systems management for the type of personal protective equipment being certified.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 09:47:33 EST 2017

## Committee Statement

**Committee Statement:** Updating reference to remain consistent with other standards in the project.  
**Response Message:**

Public Input No. 15-NFPA 1975-2017 [Sections 4.5.3.1, 4.5.3.2]

## Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

### Not Returned

Hock, Tricia L.

Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 24-NFPA 1975-2017 [ Section No. 5.1.5 ]

### 5.1.5

Where work apparel is certified as compliant with only the mandatory base requirements of this standard, the following statement shall be printed legibly on the product label. All letters shall be at least 2.5 mm ( $\frac{3}{32}$  in.) high.

**THIS GARMENT MEETS THE BASE REQUIREMENTS OF NFPA 1975-2014 2019 EDITION.**

**DO NOT REMOVE THIS LABEL.**

### Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Fri Feb 17 09:30:06 EST 2017

### Committee Statement

**Committee Statement:** Updating edition year  
**Response Message:**

### Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

#### Not Returned

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

#### Affirmative All

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 11-NFPA 1975-2017 [ Section No. 5.1.6 ]

### 5.1.6

Where work apparel is certified as compliant with the mandatory base requirements of this standard, and also certified as compliant with one or more of the optional requirements of this standard, the statement in 5.1.5 shall be printed legibly on the product label. The label shall also indicate the applicable optional requirement(s) by either the symbol or statement as identified in Table 5.1.6. Where the symbol is used to identify compliance with the optional requirement(s), the statement shall be included in the user information to explain that symbol. All letters shall be at least 2.5 mm ( $\frac{3}{32}$  in.) high.

Table 5.1.6 Label Symbols for Work Apparel

<u>Optional Requirement</u>	<u>Compliance Statement</u>	<u>Symbol</u>
7.2 Optional Requirements for Flame-Resistant Work Apparel	THIS GARMENT MEETS THE OPTIONAL FLAME RESISTANCE REQUIREMENTS OF NFPA 1975-2014 2019 .	
<del>7.3 Optional Requirements for Odor-Resistant Work Apparel</del>	<del>THIS GARMENT MEETS THE OPTIONAL ODOR-RESISTANT REQUIREMENTS OF NFPA 1975-2014."</del>	
7.4 Optional Requirements for Water-Resistant Work Apparel	THIS GARMENT MEETS THE OPTIONAL WATER RESISTANCE REQUIREMENTS OF NFPA 1975-2014 2019 .	
7.5 Optional Requirements for Insect Repellent Work Apparel	THIS GARMENT MEETS THE OPTIONAL INSECT REPELLENT REQUIREMENTS OF NFPA 1975-2014 2019 .	

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 11:49:59 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

## Ballot Results

✓ This item has passed ballot

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

**Not Returned**

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 16-NFPA 1975-2017 [ Section No. 5.2.2 ]

### 5.2.2\*

The manufacturer shall attach the required user information, or packaging containing the user information, to the work apparel garment in such a manner that it is not possible to use the garment without being aware of the availability of the information.

## Supplemental Information

<u>File Name</u>	<u>Description Approved</u>
A.5.2.2_SR_16.docx	

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 14:43:29 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee provided explanatory annex material clarifying the ability of manufacturers to provide access to user information digitally.  
**Response Message:**

## Ballot Results

✓ This item has passed ballot

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

### Not Returned

Hock, Tricia L.  
 Howard, Thomas  
 Klaren, Kim  
 McCurley, Loui

Paderick, H. Dean

**Affirmative All**

Allen, Jason L.

Arrington, Joseph

Beechner, Brian J.

Corrado, Steven D.

Dacey, Paul

Dempsey, Keith B.

Dunn, Charles S.

Geraghty, Stephen J.

Haskell, III, William E.

Hess, Diane B.

Horn, Gavin P.

Krause, II, George R.

Legros, Stephen

Lehtonen, Karen E.

Metz, Jeremy

Nelson, Robert G.

Reall, Jack E.

Smith, Cedric

Stephenson, R. Douglas

Stinton, Robert

#### A.5.2.2

Packaging containing the user information may consist of printed materials or instructions to access the information digitally.



## First Revision No. 14-NFPA 1975-2017 [ New Section after 6.1.4 ]

### 6.1.5\*

Aftermarket products applied to apparel shall not be utilized to meet any performance requirements of this standard.

## Supplemental Information

<u>File Name</u>	<u>Description Approved</u>
A.6.1.5_SR_14.docx	

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 13:48:09 EST 2017

## Committee Statement

**Committee Statement:** After-market products applied after the construction of the garment, such as insect-repellent, anti-microbial, water-repellent, and other “finishes” could impact the performance properties and reduce them below the requirements of this standard and reduce the protective properties.

### **Response Message:**

Public Input No. 27-NFPA 1975-2017 [New Section after 7.5.3]

Public Input No. 28-NFPA 1975-2017 [Global Input]

## Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

### **Not Returned**

Hock, Tricia L.  
 Howard, Thomas

Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert

#### A.6.1.5

After-market products applied after the construction of the garment, such as insect-repellent, anti-microbial, water-repellent, and other “finishes” could impact the performance properties and reduce them below the requirements of this standard and reduce the protective properties. Treatments may also void the manufacturer’s warranty. Any potential claim by a manufacturer of an after-market application should be thoroughly evaluated by the organization, as well as consulting the manufacturer of the garment.



## First Revision No. 5-NFPA 1975-2017 [ Section No. 7.3 ]

### ~~7.3 Optional Requirements for Odor Resistant Work Apparel.~~

#### ~~7.3.1~~

~~Where work apparel is represented as being odor resistant it shall also meet the requirements of Section 7.4 .~~

#### ~~7.3.2~~

~~Where work apparel is represented as being odor resistant, textile fabrics, excluding visibility markings, emblems, labels, elastic, hook and pile fasteners, and closure tape, shall be tested individually as specified in Section 8.8 , and shall have a minimum percentage reduction of 99 percent in 1 hour.~~

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell

**Organization:** National Fire Protection Assoc

**Street Address:**

**City:**

**State:**

**Zip:**

**Submittal Date:** Wed Jan 25 11:46:25 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

## Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters

5 Not Returned

20 Affirmative All

0 Affirmative with Comments

0 Negative with Comments

0 Abstention

### Not Returned

Hock, Tricia L.

Howard, Thomas

Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 13-NFPA 1975-2017 [ Section No. 8.1.2.1 ]

### 8.1.2.1

Specimens shall be conditioned at a temperature of 21°C, ±3°C (70°F, ±5°F) and a relative humidity of 65 percent, ±5 percent, until equilibrium is reached, as determined in accordance with ~~Section 4 of Federal Test Method 191A, *Textile Test Methods*, or ASTM D1776/D1776M, *Standard Practice for Conditioning and Testing Textiles*~~, or for at least 24 hours, whichever is shortest.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 13:43:29 EST 2017

## Committee Statement

**Committee Statement:** This revision updates the conditioning procedure to match the procedure that is used throughout the rest of the project. Actual conditioning temperature and time remains unchanged.

**Response Message:**

Public Input No. 19-NFPA 1975-2017 [Section No. 8.1.2.1]

## Ballot Results

✓ **This item has passed ballot**

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

### Not Returned

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.

Arrington, Joseph

Beechner, Brian J.

Corrado, Steven D.

Dacey, Paul

Dempsey, Keith B.

Dunn, Charles S.

Geraghty, Stephen J.

Haskell, III, William E.

Hess, Diane B.

Horn, Gavin P.

Krause, II, George R.

Legros, Stephen

Lehtonen, Karen E.

Metz, Jeremy

Nelson, Robert G.

Reall, Jack E.

Smith, Cedric

Stephenson, R. Douglas

Stinton, Robert



## First Revision No. 21-NFPA 1975-2017 [ Section No. 8.2.10.5 ]

### 8.2.10.5

Where the use of the optional stretching frame is specified by the fabric manufacturer, 5 minutes after the specified exposure, knit textiles shall be pulled in such a way as to return the benchmarks to their original dimensions and held for 10 minutes, ~~following~~ followed by a 10-minute relaxation prior to measuring shrinkage.

#### 8.2.10.5.1

The surface for specimen relaxation shall be a smooth, flat, horizontal surface that is free from imperfections that could snag the specimen or impede relaxation.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell

**Organization:** National Fire Protection Assoc

**Street Address:**

**City:**

**State:**

**Zip:**

**Submittal Date:** Wed Jan 25 16:11:15 EST 2017

## Committee Statement

**Committee Statement:** Provides clarity and consistency of test method. New section added to provide more clarity and consistency for the test method.

**Response Message:**

## Ballot Results

✔ This item has passed ballot

25 Eligible Voters

5 Not Returned

20 Affirmative All

0 Affirmative with Comments

0 Negative with Comments

0 Abstention

### Not Returned

Hock, Tricia L.

Howard, Thomas

Klaren, Kim

McCurley, Loui

Paderick, H. Dean

**Affirmative All**

Allen, Jason L.

Arrington, Joseph

Beechner, Brian J.

Corrado, Steven D.

Dacey, Paul

Dempsey, Keith B.

Dunn, Charles S.

Geraghty, Stephen J.

Haskell, III, William E.

Hess, Diane B.

Horn, Gavin P.

Krause, II, George R.

Legros, Stephen

Lehtonen, Karen E.

Metz, Jeremy

Nelson, Robert G.

Reall, Jack E.

Smith, Cedric

Stephenson, R. Douglas

Stinton, Robert



## First Revision No. 22-NFPA 1975-2017 [ Section No. 8.3.5 ]

### 8.3.5 Procedure.

Specimens shall be tested according to ASTM D751, *Standard Test Methods for Coated Fabrics*, using the Procedures for Blocking Resistance at Elevated Temperatures, specified in Sections 84 through 88, with the following modifications:

- (1) The glass plates specified in 8.3.4.2 shall be used.
- (2) A test temperature of 265°C, +3/-0°C (510°F, +5/-0°F) shall be used.
- (3) The specimens shall cool a minimum of 1.8 kg (4 lb) hour mass shall be removed from the glass plates within 5 minutes after removal of the glass plates from the oven.
- (4) The specimens shall remain between the glass plates and cool for 18 hours, +1/-0 hours after removal of the glass plates from the oven.
- (5) In removing specimens from the glass plates, the rating of resistance to blocking shall be determined and observations shall be made whether each specimen sticks to the glass plates or shows evidence of melting or ignition. The determination of a specimen sticking to the glass plates shall be made by placing the glass plates and specimen on a flat level surface and raising the top glass plate in a smooth continuous motion with the plate parallel to the surface and observing if the material separates from either of the glass plates. If the tested fabric separates from the lower glass plate but clings to the upper glass plate, invert the upper glass, lay it on a flat surface, and raise the fabric with a smooth continuous motion. If the fabric does not separate cleanly from either of the glass plates, or if it lifts the glass plate completely off the surface, then it shall be judged as sticking.
- (6) Where the specimen size is such that a 102 mm × 102 mm (4 in. × 4 in.) square cannot be achieved, three specimens shall be tested folded face to face, and three specimens shall be tested folded back to back.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submission Date:** Wed Jan 25 16:15:35 EST 2017

## Committee Statement

**Committee Statement:** Providing additional explanatory information to get consistency with interlaboratory testing.  
**Response Message:**

## Ballot Results

✓ This item has passed ballot

25 Eligible Voters

5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

**Not Returned**

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 6-NFPA 1975-2017 [ Section No. 8.8 ]

### ~~8.8 Odor Resistance Test.~~

#### ~~8.8.1 Application.~~

~~This test method shall apply to textiles identified as odor resistant fabrics.~~

#### ~~8.8.2 Samples.~~

##### ~~8.8.2.1~~

~~Samples for conditioning shall be 1 m (1 yd) square of each textile material.~~

##### ~~8.8.2.2~~

~~Samples shall be preconditioned according to 8.1.3 .~~

#### ~~8.8.3 Specific Requirements for Testing Leaching or Nonbonded Antibacterial Finishes.~~

##### ~~8.8.3.1~~

~~Where the antibacterial finish to be evaluated is of the leaching or nonbonded type, testing shall be performed in accordance with AATCC 100, *Antibacterial Finishes on Textile Materials: Assessment of* , using the following parameters:~~

~~The qualitative test procedure shall be used.~~

~~The incubation period shall be 1 hour.~~

~~The test bacteria shall be *Staphylococcus aureus* and *Klebsiella pneumonia* .~~

~~Three specimens shall be tested for each test bacterium.~~

#### ~~8.8.4 Specific Requirements for Testing Nonleaching or Bonded Antibacterial Finishes.~~

##### ~~8.8.4.1~~

~~Where the antibacterial finish to be evaluated is of the nonleaching or bonded type, testing shall be performed in accordance with ASTM E2149, *Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions* , using the following parameters:~~

~~The test bacteria shall be *Staphylococcus aureus* and *Klebsiella pneumonia* .~~

~~Three specimens shall be tested for each test bacterium.~~

#### ~~8.8.5 Report.~~

##### ~~8.8.5.1~~

~~The method used for evaluation shall be reported.~~

##### ~~8.8.5.2~~

~~The percent reduction shall be reported for each specimen.~~

##### ~~8.8.5.3~~

~~The average percent reduction shall be reported for all specimens.~~

#### ~~8.8.6 Interpretation.~~

~~The average percent reduction shall be used to determine pass/fail.~~

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell

**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 11:47:07 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

## Ballot Results

✔ This item has passed ballot

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

### Not Returned

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

### Affirmative All

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.

Krause, II, George R.

Legros, Stephen

Lehtonen, Karen E.

Metz, Jeremy

Nelson, Robert G.

Reall, Jack E.

Smith, Cedric

Stephenson, R. Douglas

Stinton, Robert



## First Revision No. 20-NFPA 1975-2017 [ Section No. A.1.1.2 ]

### A.1.1.2

Work apparel ~~is made from thermally stable materials certified to NFPA 1975~~ meets the minimum thermal stability requirements as defined in 7.1.2. Garments such as fitness clothing ~~and underclothing~~ might not ~~be made from thermally stable materials~~ meet the minimum thermal stability requirements of NFPA 1975 and should not be worn while on duty. Such ~~non-thermally stable~~ garments are made from fibers with relatively low melting points and can contribute to burn injury. These types of performance fitness clothing should also not be worn as undergarments beneath work apparel. In extreme conditions, undergarments such as socks, briefs, boxer shorts, boxer briefs, and bras made of thermally unstable materials could expose the wearer to additional burn injury. Organizations should evaluate the potential risk that these undergarments might present.

## Supplemental Information

<u>File Name</u>	<u>Description</u> <u>Approved</u>
A.1.1.2_SR_20.docx	For staff use

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 15:54:26 EST 2017

## Committee Statement

**Committee Statement:** Provided additional clarifying information about thermally unstable undergarments.

### Response Message:

[Public Input No. 18-NFPA 1975-2017 \[Section No. 3.3.18\]](#)

[Public Input No. 17-NFPA 1975-2017 \[Section No. 1.1.2\]](#)

## Ballot Results

✓ This item has passed ballot

25 Eligible Voters  
 5 Not Returned  
 20 Affirmative All  
 0 Affirmative with Comments  
 0 Negative with Comments  
 0 Abstention

**Not Returned**

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 19-NFPA 1975-2017 [ Section No. A.1.1.6 ]

### A.1.1.6

The authority having jurisdiction should conduct a risk assessment and determine the level of visibility required for work apparel based on the anticipated use of such garments during these incidents. Where the AHJ anticipates visibility hazards, such as darkness, obscuration (smoke, fog, dust), and proximity to traffic, moving machinery, or heavy equipment operation, the AHJ should be aware of various types of visibility markings. In the case of personnel operating in proximity to traffic, moving machinery, or heavy equipment in operation, the AHJ needs to understand that special high-visibility markings are required by 23 CFR 655. This regulation requires that the *Manual on Uniform Traffic Control Devices* (MUTCD) be followed on all roads open to public travel. In Section 6D.03, the MUTCD specifies that all workers, including emergency responders, within the right-of-way who are exposed either to traffic or to work vehicles and construction equipment within the ~~Temporary Traffic Control~~ temporary traffic control (TTC) zone shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107, *High-Visibility Safety Apparel and Headwear Accessories*. Section 6D.03 includes an option specifying that in lieu of ANSI/ISEA 107 apparel, emergency and incident responders and law enforcement personnel within the TTC zone ~~may can~~ wear high-visibility safety apparel that meets the performance requirements of ANSI/ISEA 207, *High-Visibility Public Safety Vests*. An additional option within Section 6D.03 specifies that fire fighters and other emergency responders working within the right-of-way and engaged in emergency operations that directly expose them to flame, fire, heat, or hazardous materials ~~may can~~ wear retroreflective turn-out gear that is specified and regulated by other organizations, such as NFPA.

Users are encouraged to conduct a wear trial and develop user findings and recommendations when dealing with work clothing elements that make claims to provide moisture management. Moisture management clothing can also be described as wicking, active transport, or similar descriptive terms that imply ~~the~~ comfort to the wearer ~~and by~~ moving sweat away from the body. The ~~authority having jurisdiction~~ AHJ should be aware that it can be difficult to objectively quantify findings or such claims. User perception of comfort should be considered over such claims of moisture management.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Wed Jan 25 15:47:52 EST 2017

## Committee Statement

**Committee Statement:** Updating ANSI test method.  
**Response Message:**

## Ballot Results

 This item has passed ballot

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

**Not Returned**

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 23-NFPA 1975-2017 [ Section No. A.3.3.7 ]

### A.3.3.7 Emblems.

Users are cautioned that patches or emblems might contribute to burn injury. Emblems or patches used on work apparel are not included in the test requirements of this standard. ~~Users are cautioned that emblems or patches with thick adhesive backings could melt and contribute to burn injury.~~ In particular, users are cautioned about using large emblems or patches on work apparel because these items are not required to be tested under NFPA 1975 for heat or flame resistance or stored energy.

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell  
**Organization:** National Fire Protection Assoc  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submittal Date:** Thu Jan 26 12:41:01 EST 2017

## Committee Statement

**Committee Statement:** Provide additional explanatory information about potential hazards that emblems or patches may present to the user.  
**Response Message:**

## Ballot Results

✔ This item has passed ballot

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

### Not Returned

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.

Arrington, Joseph

Beechner, Brian J.

Corrado, Steven D.

Dacey, Paul

Dempsey, Keith B.

Dunn, Charles S.

Geraghty, Stephen J.

Haskell, III, William E.

Hess, Diane B.

Horn, Gavin P.

Krause, II, George R.

Legros, Stephen

Lehtonen, Karen E.

Metz, Jeremy

Nelson, Robert G.

Reall, Jack E.

Smith, Cedric

Stephenson, R. Douglas

Stinton, Robert



## First Revision No. 12-NFPA 1975-2017 [ Section No. B.7 ]

### ~~B.7~~ Optional Odor Resistance.

#### ~~B.7.1~~ Test Method Cited.

~~Test method appears in Section 8.9, AATCC Test Method 100, *Assessment of Antibacterial Finishes on Textile Materials*; and ASTM Test Method E 2149, *Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions* are used. Conditioning is by laundering per AATCC 135, *Dimensional Changes of Fabrics After Automatic Home Laundering*, (Machine Cycle 1, Wash Temperature V, Drying Procedure Ai) or dry cleaning per Sections 9.2 and 9.3 of AATCC 158, *Dimensional Changes on Dry Cleaning in Perchloroethylene: Machine Method* -~~

#### ~~B.7.2~~ Description of Test Method.

~~Material specimens having antibacterial finishes are exposed to a known concentration of odor causing bacteria for a specified period of time. The concentration of the bacteria is evaluated both before and after exposure to the materials. The test method requires a 99.9 percent reduction in the bacteria concentration.~~

#### ~~B.7.3~~ Application of Test Method.

~~The purpose of this test is to provide a quantitative procedure for the evaluation of the degree of antibacterial activity. Two test methods are cited, and each is specific to the means of bacteriological control. The test methods are similar in their evaluation—the difference is in the exposure to the sample to the bacteria challenge. The AATCC method uses a static exposure that is appropriate for non-bonded or leaching type of technologies, and the ASTM method uses a dynamic exposure that is appropriate for bonded or non-leaching technologies. Both test methods expose the materials to the same odor causing bacteria.~~

## Submitter Information Verification

**Submitter Full Name:** Chris Farrell

**Organization:** National Fire Protection Assoc

**Street Address:**

**City:**

**State:**

**Zip:**

**Submission Date:** Wed Jan 25 12:00:15 EST 2017

## Committee Statement

**Committee Statement:** Technical Committee determined that odor resistance is not a factor in firefighter safety and does not belong in this document. This requirement has been in the document for only one cycle and there have been no certified products brought to the market. Users have expressed no interest in this option.

**Response Message:**

## Ballot Results

✓ This item has passed ballot

25 Eligible Voters  
5 Not Returned  
20 Affirmative All  
0 Affirmative with Comments  
0 Negative with Comments  
0 Abstention

**Not Returned**

Hock, Tricia L.  
Howard, Thomas  
Klaren, Kim  
McCurley, Loui  
Paderick, H. Dean

**Affirmative All**

Allen, Jason L.  
Arrington, Joseph  
Beechner, Brian J.  
Corrado, Steven D.  
Dacey, Paul  
Dempsey, Keith B.  
Dunn, Charles S.  
Geraghty, Stephen J.  
Haskell, III, William E.  
Hess, Diane B.  
Horn, Gavin P.  
Krause, II, George R.  
Legros, Stephen  
Lehtonen, Karen E.  
Metz, Jeremy  
Nelson, Robert G.  
Reall, Jack E.  
Smith, Cedric  
Stephenson, R. Douglas  
Stinton, Robert



## First Revision No. 18-NFPA 1975-2017 [ Chapter C ]

### Annex C Informational References

#### C.1 Referenced Publications.

The documents or portions thereof listed in this annex are referenced within the informational sections of this standard and are not part of the requirements of this document unless also listed in Chapter 2 for other reasons.

##### C.1.1 NFPA Publications.

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 1581, *Standard on Fire Department Infection Control Program*, ~~2010~~ 2015 edition.

NFPA 1951, *Standard on Protective Ensembles for Technical Rescue Incidents*, ~~2013~~ 2018 edition.

NFPA 1977, *Standard on Protective Clothing and Equipment for Wildland Fire Fighting*, ~~2011~~ 2016 edition.

NFPA 1994, *Standard on Protective Ensembles for First Responders to Hazardous Materials Emergencies and CBRN Terrorism Incidents*, ~~2012~~ 2018 edition.

~~NFPA 1999, *Standard on Protective Clothing for Emergency Medical Operations*, 2013 edition.~~

##### C.1.2 Other Publications.

###### C.1.2.1 AATCC Publications.

American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.

AATCC 42, *Water Resistance: Impact Penetration Test*, ~~2007~~ 2013.

~~AATCC 100, *Antibacterial Finishes on Textile Materials: Assessment of*, 2004.~~

AATCC 135, *Dimensional Changes of Fabrics After Automatic Home Laundering*, 2004.

AATCC 158, *Dimensional Changes on Dry-Cleaning in Perchloroethylene: Machine Method*, ~~2005~~ 2016.

###### C.1.2.2 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM D751, *Standard Test Methods for Coated Fabrics*, ~~2006~~ 2011.

ASTM D1683/D1683M, *Standard Test Method for Failure in Sewn Seams of Woven Apparel Fabrics*, ~~2011a~~ 2016.

ASTM ~~D 6413~~ D6413/D6413M, *Flame Resistance of Textiles (Vertical Test)*, ~~2011a~~ 2015.

ASTM D6797, *Standard Test Method for Bursting Strength of Fabrics Constant Rate of Extension (CRE) Ball Burst Test*, ~~2007 (2011)~~ 2015.

ASTM F1731, *Standard Practice for Body Measurements and Sizing of Fire and Rescue Services Uniforms and Other Thermal Hazard Protective Clothing*, ~~1996 (2008)~~ 2013.

~~ASTM E 2149, *Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions*, 2010.~~

ASTM F2894, *Standard Test Method for Evaluation of Materials, Protective Clothing and Equipment for Heat Resistance Using a Hot Air Circulating Oven*, 2014.

**C.1.2.3** ISEA Publications.

International Safety Equipment Association, 1901 North Moore Street, Arlington, VA 22209-1762.

ANSI/ISEA 107, *High-Visibility Safety Apparel and ~~Headwear~~ Accessories* , 2004 2015 .

ANSI/ISEA 207, *High-Visibility Public Safety Vests*, 2011.

**C.1.2.4** ISO Publications.

International Organization for Standardization, ~~1, rue de Varembe, Case postale 56, CH 1211 Geneva 20, Switzerland~~ ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland .

~~ISO Guide 27, *Guidelines for corrective action to be taken by a certification body in the event of misuse of its mark of conformity*, 1983.~~

~~ISO/IEC 65, *General requirements for bodies operating product certification systems* , 1996.~~

~~ISO 9001, *Quality management systems — Requirements*, 2008.~~

~~ISO 9001, *Quality management systems — Requirements*, 2015.~~

~~ISO/IEC 17065, *Conformity assessment — Requirements for bodies certifying products, processes and services* , 2012.~~

~~ISO 17493, *Clothing and equipment for protection against heat — Test method for convective heat resistance using a hot air circulating oven* , 2000.~~

**C.1.2.5** U.S. Government Publications.

~~U.S. Government Printing Office, Washington, DC 20402. U.S. Government Publishing Office, 732 North Capitol Street, NW, Washington, DC 20401-0001.~~

~~FHA *Manual on Uniform Traffic Control Devices* , 2012 .~~

~~Title 21, Code of Federal Regulations, Part 7, Subpart C.~~

~~Title 23, Code of Federal Regulations, Part 655, "Traffic Operations."~~

~~Title 29, Code of Federal Regulations, Part 1910.1030, 6 March 1992.~~

~~Title 42, Code of Federal Regulations, Part 84, Subpart E.~~

**C.1.2.6** Other Publications.

U.S. Department of Defense GL/PD 07-13C. *Purchase Description Coat. Army Combat Uniform* , U.S. Army Natick Research, Development and Engineering Center, Attn: RDNS-WPW-C, Kansas Street, Natick MA 01760-5019, 2011.

**C.2** Informational References. (Reserved)

**C.3** References for Extracts in Informational Sections. (Reserved)

**Submitter Information Verification**

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**Organization:** National Fire Protection Assoc

**Street Address:**

**City:**

**State:**

**Zip:**

**Submittal Date:** Wed Jan 25 15:36:35 EST 2017

**Committee Statement**

**Committee Statement:** Updating references and deleted unnecessary references.

**Response Message:**

[Public Input No. 16-NFPA 1975-2017 \[Chapter C\]](#)

[Public Input No. 21-NFPA 1975-2017 \[Section No. C.1.2.2\]](#)

**Ballot Results**

✔ **This item has passed ballot**

25 Eligible Voters

5 Not Returned

20 Affirmative All

0 Affirmative with Comments

0 Negative with Comments

0 Abstention

**Not Returned**

Hock, Tricia L.

Howard, Thomas

Klaren, Kim

McCurley, Loui

Paderick, H. Dean

**Affirmative All**

Allen, Jason L.

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Corrado, Steven D.

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