# NFPA® 11145

Standard for Wildland Fire Management

2018



# IMPORTANT NOTICES AND DISCLAIMERS CONCERNING NFPA® STANDARDS

# NOTICE AND DISCLAIMER OF LIABILITY CONCERNING THE USE OF NFPA STANDARDS

NFPA® codes, standards, recommended practices, and guides ("NFPA Standards"), of which the document contained herein is one, are developed through a consensus standards development process approved by the American National Standards Institute. This process brings together volunteers representing varied viewpoints and interests to achieve consensus on fire and other safety issues. While the NFPA administers the process and establishes rules to promote fairness in the development of consensus, it does not independently test, evaluate, or verify the accuracy of any information or the soundness of any judgments contained in NFPA Standards.

The NFPA disclaims liability for any personal injury, property, or other damages of any nature whatsoever, whether special, indirect, consequential or compensatory, directly or indirectly resulting from the publication, use of, or reliance on NFPA Standards. The NFPA also makes no guaranty or warranty as to the accuracy or completeness of any information published herein.

In issuing and making NFPA Standards available, the NFPA is not undertaking to render professional or other services for or on behalf of any person or entity. Nor is the NFPA undertaking to perform any duty owed by any person or entity to someone else. Anyone using this document should rely on his or her own independent judgment or, as appropriate, seek the advice of a competent professional in determining the exercise of reasonable care in any given circumstances.

The NFPA has no power, nor does it undertake, to police or enforce compliance with the contents of NFPA Standards. Nor does the NFPA list, certify, test, or inspect products, designs, or installations for compliance with this document. Any certification or other statement of compliance with the requirements of this document shall not be attributable to the NFPA and is solely the responsibility of the certifier or maker of the statement.

# REVISION SYMBOLS IDENTIFYING CHANGES FROM THE PREVIOUS EDITION

Text revisions are shaded. A  $\triangle$  before a section number indicates that words within that section were deleted and a  $\triangle$  to the left of a table or figure number indicates a revision to an existing table or figure. When a chapter was heavily revised, the entire chapter is marked throughout with the  $\triangle$  symbol. Where one or more sections were deleted, a  $\bullet$  is placed between the remaining sections. Chapters, annexes, sections, figures, and tables that are new are indicated with an N.

Note that these indicators are a guide. Rearrangement of sections may not be captured in the markup, but users can view complete revision details in the First and Second Draft Reports located in the archived revision information section of each code at www.nfpa.org/docinfo. Any subsequent changes from the NFPA Technical Meeting, Tentative Interim Amendments, and Errata are also located there.

# REMINDER: UPDATING OF NFPA STANDARDS

Users of NFPA codes, standards, recommended practices, and guides ("NFPA Standards") should be aware that NFPA Standards may be amended from time to time through the issuance of a Tentative Interim Amendment (TIA) or corrected by Errata. An official NFPA Standard at any point in time consists of the current edition of the document together with any TIAs and Errata then in effect.

To determine whether an NFPA Standard has been amended through the issuance of Tentative Interim Amendments or corrected by Errata, go to www.nfpa.org/docinfo to choose from the list of NFPA Standards or use the search feature to select the NFPA Standard number (e.g., NFPA 13). The document information page provides up-to-date document-specific information as well as postings of all existing TIAs and Errata. It also includes the option to register for an "Alert" feature to receive an automatic email notification when new updates and other information are posted regarding the document.

ISBN: 978-145591711-2 (Print) ISBN: 978-145591712-9 (PDF)

ISBN: 978-145591772-

This is a preview. Click here to purchase the full publication.

# IMPORTANT NOTICES AND DISCLAIMERS CONCERNING NFPA® STANDARDS

### ADDITIONAL NOTICES AND DISCLAIMERS

# **Updating of NFPA Standards**

Users of NFPA codes, standards, recommended practices, and guides ("NFPA Standards") should be aware that these documents may be superseded at any time by the issuance of new editions or may be amended from time to time through the issuance of Tentative Interim Amendments or corrected by Errata. An official NFPA Standard at any point in time consists of the current edition of the document together with any Tentative Interim Amendments and any Errata then in effect. In order to determine whether a given document is the current edition and whether it has been amended through the issuance of Tentative Interim Amendments or corrected through the issuance of Errata, consult appropriate NFPA publications such as the National Fire Codes® Subscription Service, visit the NFPA website at www.nfpa.org, or contact the NFPA at the address listed below.

## Interpretations of NFPA Standards

A statement, written or oral, that is not processed in accordance with Section 6 of the Regulations Governing the Development of NFPA Standards shall not be considered the official position of NFPA or any of its Committees and shall not be considered to be, nor be relied upon as, a Formal Interpretation.

### **Patents**

The NFPA does not take any position with respect to the validity of any patent rights referenced in, related to, or asserted in connection with an NFPA Standard. The users of NFPA Standards bear the sole responsibility for determining the validity of any such patent rights, as well as the risk of infringement of such rights, and the NFPA disclaims liability for the infringement of any patent resulting from the use of or reliance on NFPA Standards.

NFPA adheres to the policy of the American National Standards Institute (ANSI) regarding the inclusion of patents in American National Standards ("the ANSI Patent Policy"), and hereby gives the following notice pursuant to that policy:

NOTICE: The user's attention is called to the possibility that compliance with an NFPA Standard may require use of an invention covered by patent rights. NFPA takes no position as to the validity of any such patent rights or as to whether such patent rights constitute or include essential patent claims under the ANSI Patent Policy. If, in connection with the ANSI Patent Policy, a patent holder has filed a statement of willingness to grant licenses under these rights on reasonable and nondiscriminatory terms and conditions to applicants desiring to obtain such a license, copies of such filed statements can be obtained, on request, from NFPA. For further information, contact the NFPA at the address listed below.

# Law and Regulations

Users of NFPA Standards should consult applicable federal, state, and local laws and regulations. NFPA does not, by the publication of its codes, standards, recommended practices, and guides, intend to urge action that is not in compliance with applicable laws, and these documents may not be construed as doing so.

## **Copyrights**

NFPA Standards are copyrighted. They are made available for a wide variety of both public and private uses. These include both use, by reference, in laws and regulations, and use in private self-regulation, standardization, and the promotion of safe practices and methods. By making these documents available for use and adoption by public authorities and private users, the NFPA does not waive any rights in copyright to these documents.

Use of NFPA Standards for regulatory purposes should be accomplished through adoption by reference. The term "adoption by reference" means the citing of title, edition, and publishing information only. Any deletions, additions, and changes desired by the adopting authority should be noted separately in the adopting instrument. In order to assist NFPA in following the uses made of its documents, adopting authorities are requested to notify the NFPA (Attention: Secretary, Standards Council) in writing of such use. For technical assistance and questions concerning adoption of NFPA Standards, contact NFPA at the address below.

### For Further Information

All questions or other communications relating to NFPA Standards and all requests for information on NFPA procedures governing its codes and standards development process, including information on the procedures for requesting Formal Interpretations, for proposing Tentative Interim Amendments, and for proposing revisions to NFPA standards during regular revision cycles, should be sent to NFPA headquarters, addressed to the attention of the Secretary, Standards Council, NFPA, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101; email: stds\_admin@nfpa.org.

For more information about NFPA, visit the NFPA website at www.nfpa.org. All NFPA codes and standards can be viewed at no cost at www.nfpa.org/docinfo.

Copyright © 2017 National Fire Protection Association®. All Rights Reserved.

### NFPA® 1143

### Standard for

# Wildland Fire Management

### 2018 Edition

This edition of NFPA 1143, *Standard for Wildland Fire Management*, was prepared by the Technical Committee on Wildland Fire Management. It was issued by the Standards Council on August 1, 2017, with an effective date of August 21, 2017, and supersedes all previous editions.

This edition of NFPA 1143 was approved as an American National Standard on August 21, 2017.

# Origin and Development of NFPA 1143

The first edition of NFPA 295, titled Community Forest Fire Fighting Equipment, was adopted by NFPA in 1934. The next edition was issued in 1956 as Community Equipment and Organization for Fighting Forest, Grass and Brush Fires. The document was retitled Recommendations for Forest, Grass and Brush Fire Control when it was issued in 1965 and retitled again, as Recommendations for Wildfire Control and Environmental Improvement, in 1972. In 1973, the document became a standard titled Standard for Wildfire Control by Volunteer Fire Departments, and it carried that title in the 1978 edition as well. The document was titled Standard for Wildfire Control with the issuance of the 1985 edition. Subsequent editions were issued in 1991 and 1998.

The 2003 edition was a complete rewrite of the document, which was renumbered and renamed NFPA 1143, *Standard for Wildland Fire Management*. In developing the 2003 edition, the technical committee recognized the development of the National Fire Plan in the United States and numerous mitigation efforts to solve the ailing forests and endangered communities in or near forested areas. In addition, the committee incorporated material to help small community and volunteer fire departments prepare for not only fire suppression in forested and wildland areas but also the broader task of wildland fire management, including mitigation, prevention, and community coordination.

The 2009 edition reflected the continued evolution of best practices in wildland fire management at the national level and further emphasized the full cycle of wildland fire management through mitigation, prevention, preparation, and suppression. The committee incorporated information to help make the document more consistent with NFPA standards on emergency services incident management and disaster management programs and to reflect current practices in regard to fire fighter safety.

The 2014 edition of NFPA 1143 was a reconfirmation of updates made in the 2009 edition. The committee updated cross-references throughout the document and updated figures to provide examples of modern equipment being utilized for wildland fire management. These updates provided the user with new examples of equipment such as dozers, helicopters, and airtankers.

In the 2018 edition of NFPA 1143, the technical committee revises the terminology from the document to be more representative of the document's intent. The technical committee aligns training and qualifications with the NFPA or the National Wildfire Coordinating Group (NWCG). The committee also aligns the incident management chapter to the National Incident Management System (NIMS). Clarification of the terminology and redefinitions found in fire suppression subsections include size-up, fire engagement and management, and mop-up and demobilization. The technical committee revises the responsibilities of public information officer (PIO) to complement NIMS and revises the responsibilities of safety officer to participate in tactics and planning meetings that are also outlined in NIMS. The technical committee clarifies the required documentation for finance and administration and updates the NWCG referenced publications.

# **Technical Committee on Wildland Fire Management**

Paul Acosta, Colorado State Fire Fighters Association, CO [L] Rep. National Volunteer Fire Council

Randall K. Bradley, Tracy Fire Department/South County Fire Authority, CA [E]

Frederick R. Flores, CAL FIRE/CA Department of Forestry & Fire Protection, CA  $\lceil L \rceil$ 

Rep. International Association of Fire Fighters

Donald C. Freyer, Warner Robins, GA [SE]

Joseph T. Holland, Hoover Treated Wood Products, FL [M]

Wesley M. Keller, Pennsylvania Bureau of Forestry, PA [U]

**Alexander Maranghides,** National Institute of Standards & Technology, MD [RT]

Steve Oaks, Santa Barbara County Fire Department, CA [E]

**Stephen S. Pollock,** Texas A&M Forest Service, TX [E] Rep. International Association of Fire Chiefs

Jim Prevette, Southern Group of State Foresters, NC [U]

Gene Rogers, Wildland Fire Technologies Inc., OR [SE]

Rob Rosovich, FireIce Inc., FL [M]

Patrick Shipp, Webster Fire Department, TX [E]

Thomas B. Sing, Quest Fire Analysis, TX [SE]

Jim Stumpf, Organizational Quality Associates, ID [SE]

### Alternates

**Nelson P. Bryner,** National Institute of Standards & Technology, MD [RT]

(Alt. to Alexander Maranghides)

Craig M. Daugherty, San Juan County Fire Department, NM [E] (Alt. to Stephen S. Pollock)

James P. Gogolski, Hoover Treated Wood Products, OH [M] (Alt. to Joseph T. Holland)

Jeanne Pincha-Tulley, USDA Forest Service, CA [E] (Voting Alt.)

Ron Raley, Raley's Forestry and Wildfire, CA [M] (Voting Alt.)

**Thomas M. Sing,** Quest Fire Analysis, TX [SE] (Alt. to Thomas B. Sing)

**Christopher R. Vaughan,** Alabama Fire College, AL [L] (Alt. to Paul Acosta)

Thomas McGowan, NFPA Staff Liaison

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

NOTE: Membership on a committee shall not in and of itself constitute an endorsement of the Association or any document developed by the committee on which the member serves.

**Committee Scope:** This committee shall have the primary responsibility for documents on wildland fire management.