

Guide for Airport/Community Emergency Planning

2018



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

# IMPORTANT NOTICES AND DISCLAIMERS CONCERNING NFPA® STANDARDS

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

NFPA<sup>®</sup> 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.

### **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 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 Amendment and any Errata then in effect.

In order to determine whether an NFPA Standard has been amended through the issuance of Tentative Interim Amendments or corrected by Errata, visit the "Codes & Standards" section on NFPA's website. There, the document information pages located at the "List of NFPA Codes & Standards" provide up-to-date, document-specific information including any issued Tentative Interim Amendments and Errata.

To view the document information page for a specific Standard, go to http://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 101). The document information page includes postings of all existing Tentative Interim Amendments 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: 978-145591584-2 (Print) ISBN: 978-145591585-9 (PDF)

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<sup>®</sup> 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 app icable federal, state, and local laws and regulations. NFPA does no, 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.

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

Copyright © 2016 National Fire Protection Association®. All Rights Reserved.

### NFPA® 424

### Guide for

# Airport/Community Emergency Planning

#### 2018 Edition

This edition of NFPA 424, *Guide for Airport/Community Emergency Planning*, was prepared by the Technical Committee on Aircraft Rescue and Fire Fighting. It was issued by the Standards Council on November 11, 2016, with an effective date of December 1, 2016, and supersedes all previous editions.

This edition of NFPA 424 was approved as an American National Standard on December 1, 2016.

#### Origin and Development of NFPA 424

The subcommittee on NFPA 424 started work on this document in 1976. It was submitted to the NFPA membership at the 1978 Fall Meeting and released as the first edition on January 25, 1979.

The complete text was rewritten in 1986 in an informational format. The document was again rewritten in 1991. The 1996 and 2002 editions were partial revisions.

The 2008 edition was also a partial revision. For the revision of Chapter 14, assistance was provided by Paul Sledzick, NTSB; Fred Tilton, FAA; Ken Hermsen, Creighton University Medical Center, Omaha, NE; Lyle Streeter, FAA; and Charles De John, FAA.

For the 2013 edition, the Technical Committee made several changes to conform with the *NFPA Manual of Style* and updated many of the referenced documents. The committee also updated several photos and reworked the diagram for triage and medical care at an accident site. Along with an overall update, the committee incorporated the National Incident Management System (NIMS) and all relevant posi ions within NIMS into the document.

For the 2018 edition, the Technical Committee has updated referenced publications and definitions. Other language that has been updated includes contact information for outside responding resources, triage, and medical care. Language also has been added regarding written agreements with outside responding resources.

NFPA and National Fire Protection Association are registered trademarks of the National Fire Protection Association, Quincy, Massachusetts 02169.

#### **Technical Committee on Aircraft Rescue and Fire Fighting**

**Robert C. Mathis,** *Chair* The Boeing Company, WA [M]

John W. McDonald, Secretary U.S. General Services Administration, MD [U] Rep. U.S. General Services Administration

- Keith W. Bagot, U.S. Federal Aviation Administration, NJ [RT] Rep. US Federal Aviation Administration Ralph Colet, [RI Inc., CA [M] Bradford Colton, American Pacific Corporation, NV [M] Rep. Fire Equipment Manufacturers' Association Howard Costa, Massport Fire Rescue, MA [U] Ross A. Davidson, U.S. Department of the Navy, CA [E] Rep. US Department of the Navy Graeme Day, LHR Airports Limited, United Kingdom [U] Hanh Deniston, Metropolitan Washington Airports Authority, VA [L] Rep. International Association of Fire Fighters Martin Gravel, Department of National Defence, Canada [E] Neil Gray, United Kingdom Civil Aviation Authority, United Kingdom [E] Michael A. Greenup, Los Angeles Fire Department, CA [U] Ronald E. Jones, E-One, Inc., FL [M] D. Scott Lanter, Blue Grass Airport, KY [C] Rep. Airports Council International-North America Stephen Listerman, Cincinnati/Northern Kentucky International Airport Fire Department, OH [E]
- John Anderson Maddox, Lakeland Fire Department, FL [U] Douglas C. Mangels, Denver Fire Department, CO [SE] Rep. Aircraft Rescue & Fire Fighting Working Group, Inc. Graydon L. Matheson, King County Sheriff's Office-ARFF Division, WA [U] Kevin J. Petit, Akron Brass Company, OH [M] Pam L. Phillips, Port Authority of New York & New Jersey, NJ [C] Rep. American Association of Airport Executives Danny M. Pierce, ARFF Solutions, CA [SE] James E. Podolske, Jr., U.S. Department of the Air Force, FL [E] Paul W. Powell, Rosenbauer America, TX [M] Joseph L. Scheffey, JENSEN HUGHES, MD [SE] Jason Shively, Oshkosh Corporation, WI [M] Jeremy Souza, Rhode Island Airport Corporation, RI [U] Marc S. Tonnacliff, U.S. Federal Aviation Administration, DC [E] Rep. US Federal Aviation Administration Christopher A. Toten, U.S. Marine Corps, TX [E]

#### Alternates

Gerard G. Back, JENSEN HUGHES, MD [SE] (Alt. to Joseph L. Scheffey)
Daniel Buck ngham, U S. General Services Administration, DC [U] (Alt. to John W. McDonald)
Ralph B. Colet, JRI Inc., CA [M] (Alt. to Ralph Colet)
Robert L. Darwin, Engility Corporation, VA [C] (Alt. to Ross A. Davidson)

- **Richard Gentry,** Indianapolis Airport Authority, IN [E] (Alt. to Stephen Listerman)
- Fred B. Goodnight, Amerex Corporation, AL [M] (Alt. to Bradford Colton)
- William D. Gordon, BWI Fire Rescue Department, MD [L] (Alt. to Hanh Deniston)

Al Gulamali, Lee County Port Authority, FL [C] (Alt. to D. Scott Lanter)

Denny J. Heitman, US Department of the Air Force, IL [E] (Alt. to James E. Podolske, Jr.)

Elizabeth A. Hendel, Phoenix Fire Department, AZ [E] (Voting Alt.)

**Duane F. Kann,** Rosenbauer, MN [M] (Alt. to Paul W. Powell)

Ronald J. Krusleski, Houston Fire Department ARFF, TX [SE] (Alt. to Douglas C. Mangels) Thomas W. Littlepage Evansville Airport Authority, IN [U] (Alt. to John Anderson Maddox)
William K. Major, Buffalo Niagara International Airport Fire Department, NY [L] (Voting Alt.)
James Price, U.S. Department of Transportation, GA [E] (Alt. to Marc S. Tonnacliff)
Steven Schwartz, Oshkosh Corporation, WI [M] (Alt. to Jason Shively)

Dana Larsen, Los Angeles City Fire Department, CA [U]

**Darrell Sooter,** The Boeing Company, SC [M] (Alt. to Robert C. Mathis)

Leroy Stephens, E-One, FL [M] (Alt. to Ronald E. Jones)

(Alt. to Michael A. Greenup)

Jonathan Torres, SRA International, NJ [RT] Rep. U.S. Federal Aviation Administration (Alt. to Keith W. Bagot)

Justin M. Towles, American Association of Airport Executives, VA [C]

(Alt. to Pam L. Phillips)

Tim Vanfleet, Akron Brass Company, OH [M] (Alt. to Kevin J. Petit)

### Nonvoting

Francois Villard, Fire Safety Security Crisis Management Training, Switzerland [SE]

Thomas J. Lett, Albuquerque Fire & Safety Associates, NM [SE] (Member Emeritus)

L. M. Krasner, Medfield, MA [SE] (Member Emeritus)

#### Curt Floyd, 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 primary responsibility for documents on aircraft rescue and fire-fighting services and equipment, for procedures for handling aircraft fire emergencies, and for specialized vehicles used to perform these functions at airports, with particular emphasis on saving lives and reducing injuries coincident with aircraft fires following impact or aircraft ground fires. This Committee also shall have responsibility for documents on aircraft hand fire extinguishers and accident prevention and the saving of lives in future aircraft accidents involving fire.

# Contents

Chapter	1 Administration	<b>424–</b> 6
$1.\bar{1}$	Scope	<b>424–</b> 6
1.2	Purpose	<b>424–</b> 6
Classic	0 Defense of Dell's discus	494 6
Chapter		<b>424</b> – 6
2.1	General.	<b>424</b> – 6
2.2	NFPA Publications.	<b>424</b> – 6
2.3	Other Publications.	<b>424</b> – 6
2.4	References for Extracts in Advisory Sections	<b>424–</b> 6
Chapter	3 Definitions	<b>424–</b> 6
3.1	General	<b>424–</b> 6
3.2	NFPA Official Definitions.	<b>424–</b> 6
3.3	General Definitions.	<b>424–</b> 6
Chapter	4 Elements of Emergency Planning	<b>424–</b> 8
4.1	General.	<b>424</b> – 8
4.2	Types of Emergencies and Emergency Alerts	<b>424</b> – 8
4.3	Essential Elements of the AEP.	<b>424</b> – 8
110		
Chapter		<b>424–</b> 8
5.1	Agencies	<b>424–</b> 8
5.2	ATC Services	<b>424–</b> 9
5.3	ARFF Services (Departments).	<b>424–</b> 9
5.4	Police/Security Services	<b>424–</b> 9
5.5	Airport Operator	<b>424–</b> 10
5.6	On-Scene Medical Services.	<b>424–</b> 10
5.7	Hospitals.	<b>424–</b> 10
5.8	Aircraft Operators.	<b>424–</b> 10
5.9	Government Agencies.	<b>424–</b> 11
5.10	Communication Services.	<b>424–</b> 11
5.11	Airport Tenants	<b>424–</b> 11
5.12	Transportation Authorities (Land, Sea, Air)	<b>424–</b> 11
5.13	Rescue Coordination Center	<b>424–</b> 11
5.14	Civil Defense	<b>424–</b> 11
5.15	Mutual Aid Agencies.	<b>424–</b> 11
5.16	Harbor Patrol and Coast Guard.	<b>424–</b> 11
5.17	Military	<b>424–</b> 12
5.18	Clergy.	<b>424–</b> 12
5.19	Public Information Officer (PIO).	<b>424–</b> 12
5.20	Mental Health Agencies.	<b>424–</b> 12
5.21	Customs.	<b>424</b> – 12
5.22	Public Utilities	<b>424–</b> 12
5.23	Post Office.	<b>424–</b> 12
5.24	Veterinary Service.	<b>424</b> – 12
5.25	Coroner.	<b>424</b> – 12
5.26	Volunteer Organizations.	<b>424–</b> 12
5.27	Additional Support Services.	<b>424–</b> 12
Chapter		<b>424–</b> 12
6.1	Accident On-Airport General.	<b>424</b> – 12 <b>424</b> – 12
6.2	Action by ATC Services.	<b>424</b> – 12
6.3	Action by Aircraft Rescue and Fire-Fighting	141-14
0.5	Services.	<b>494</b> 19
6.4	Action by Police/Security Services.	<b>424</b> – 12 <b>494</b> – 13
6.4 6.5		<b>424</b> – 13 <b>424</b> – 13
	Action by Airport Operator.	
6.6 6.7	Action by Medical Services.	<b>424</b> – 14
6.7	Action by Hospitals.	<b>424</b> – 14
6.8	Action by Aircraft Operators.	<b>424</b> – 14
6.9	Action by Government Agencies.	<b>424</b> – 15
6.10	Action by the PIO.	<b>424</b> – 15
6.11	Organization Charts.	<b>424–</b> 15

Chapter		
	Accident Off-Airport	<b>424–</b> 15
7.1	General	<b>424–</b> 15
7.2	Action by ATC Services	<b>424–</b> 15
7.3	Action by ARFF Services.	<b>424–</b> 16
7.4	Action by Police/Security Services.	<b>424–</b> 16
7.5	Action by Emergency Medical Services	<b>424–</b> 16
7.6	Action by Hospitals.	<b>424–</b> 16
7.7	Action by Airport Operator.	<b>424–</b> 17
7.8	Action by Aircraft Operators.	<b>424–</b> 17
7.9	Action by Government Agencies.	<b>424</b> – 17
7.10	Action by the PIO.	<b>424–</b> 17
Chapter	8 Airborne Emergencies	<b>424–</b> 17
$8.\hat{1}$	Full Emergency Incident — Aircraft in Flight	<b>424–</b> 17
8.2	Local Standby.	<b>424–</b> 18
Chapter	9 Other Emergencies	<b>424–</b> 18
9.1	General	<b>424–</b> 18
9.2	Sample Notification Charts	<b>424–</b> 18
Chapter		
	Command Post	<b>424–</b> 19
10.1	General.	<b>424–</b> 19
10.2	Emergency Operations Center (EOC)	<b>424–</b> 19
10.3	Mobile Command Post	<b>424–</b> 19
~		
Chapter		<b>424–</b> 19
11.1	Communications Network.	<b>424–</b> 19
11.2	Communications Equipment.	<b>424–</b> 19
11.3	Testing and Verification.	<b>424–</b> 20
Classic	12 Command and Coordination for the AEP.	494 90
Chapter		<b>424</b> – 20
12.1	General	<b>424</b> 20
22	ICS	<b>424–</b> 20
Chapter	13 Emergency Medical Care	<b>424–</b> 20
13.1	Basis of Recommendations.	<b>424</b> – 20
13.2	Emergency Medical Training of Airport	141-20
13.4	Personnel.	<b>424–</b> 21
13.3	Airport Emergency Medical Supplies and	444-21
15.5	Equipment.	<b>424–</b> 21
13.4	Airport Medical Service.	<b>424</b> – 21 <b>424</b> – 21
$13.4 \\ 13.5$	Immediate Need for Care of Injured in Aircraft	444-21
15.5	Accidents	494 99
19 C		<b>424</b> – 22
13.6	Standardized Casualty ID Tags	<b>424</b> – 22
$13.7 \\ 13.8$	Care Principles.	<b>424</b> – 23
10.0	Control of the Flow of the Injured.	<b>424</b> – 24
13.9	Medical Care of Ambulatory Survivors	<b>424–</b> 24
Chapter	14 Care of Fatalities	<b>424–</b> 25
14.1	Care Prior to Site Investigation.	<b>424</b> – 25
14.2	Care after Site Examination.	<b>424</b> – 25
1 1.4	Care arter one Examination.	141-20
Chapter	15 AEP Exercise	<b>424–</b> 26
15.1	Emergency Plan Exercise.	<b>424–</b> 26
15.2	Need for and Types of AEP Drills	<b>424–</b> 26
15.3	Planning for Full-Scale Emergency Exercises	<b>424–</b> 26
15.4	Review of the Airport Emergency Plan Drill	<b>424–</b> 27
	1 0 1	
Annex A	Explanatory Material	<b>424–</b> 27
		101 25
Annex B	Table for International Aircraft Markings .	<b>424–</b> 36
Annex C	Outline of an AEP	<b>424–</b> 37
	Outline of an ALL	141-37
Annex D	Types of Alerts	<b>424–</b> 40
	· *	