# 

**Standard for Parking Structures** 

2019



### 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: 978-145592010-5 (PDF) ISBN: 978-145592011-2 (eBook)

### 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.

### NFPA® 88A

### Standard for

### **Parking Structures**

### 2019 Edition

This edition of NFPA 88A, *Standard for Parking Structures*, was prepared by the Technical Committee on Garages and Parking Structures. It was issued by the Standards Council on May 4, 2018, with an effective date of May 24, 2018, and supersedes all previous editions.

This edition of NFPA 88A was approved as an American National Standard on May 24, 2018.

### Origin and Development of NFPA 88A

Work on fire protection safeguards for garages was initiated by NFPA in 1927 with the appointment of a committee. After extensive deliberations and the publication of successive drafts, a standard was adopted in 1932. Subsequently, the committee was discharged when it appeared that no further activity was needed in this field. In 1952, the present committee was created. This committee prepared a number of redrafts of the 1932 text, and in 1957 a revised NFPA 88, *Standard for Garages*, was adopted. Revisions were made in 1962, 1968, 1979, 1985, 1995, and 1998.

To treat separately the occupancies of repair garages and parking structures, NFPA 88A and NFPA 88B, *Standard for Repair Garages*, were published separately in 1973.

In 1991, partial revisions were made to this standard, and the 1995 edition contained editorial changes. The 1998 edition contained definitions clarifying the various configurations of parking structures. It also contained changes increasing the area of office space related to the parking structure and further clarified the requirements for vertical opening protection and automatic sprinkler installation. That edition also included new requirements for natural gas powered vehicles.

The 2002 edition contained primarily editorial revisions for compliance with the *Manual of Style* for NFPA Technical Committee Documents, and listed metric units of measurement as the primary units.

In the 2007 edition, the committee rewrote the definition of *open parking structure* to comply with the *Manual of Style for NFPA Technical Committee Documents* and moved the requirements to a new 4.7.1. The NFPA 220 definition of *noncombustible material* was adopted in place of the one used in the previous edition.

Definitions were added to recognize the emergence of *mechanical parking structures* where cars are moved to parking places by lifts or other devices instead of being driven. No specific requirements were added.

Lastly, the committee clarified the use of vehicle ramps in 4.4.3 and 4.4.4.

In the 2011 edition, the committee made a number of significant changes, including the following:

- (1) Added new definitions
- (2) Defined and addressed automated mechanical-type parking structure in a new chapter
- (3) Deleted certain sections that were not enforceable
- (4) Reorganized the entire document using a chapter structure that emulates other construction documents including, but not limited to, NFPA 101 and NFPA 5000

For the 2015 edition, the changes that were made consisted primarily of editorial alterations, reference updates, and clarifications of existing language.

For the 2019 edition, changes include adding a definition for *autodrive vehicle*, clarifying language in 5.2.1.1 and Section 5.5, replacing language that was omitted in error in the 2015 edition, removing the exception to 6.4.3, revising the exception to 6.6.2.1, adding references for NFPA 2 and *NFPA 70* in Section 7.1, and revising A.4.1.5 for consistency with NFPA *101*.

### **Technical Committee on Garages and Parking Structures**

Michael E. Carsillo, Chair Stuart Fire Rescue, FL [E]

Cecil Bilbo, Jr., Academy of Fire Sprinkler Technology, Inc., IL [M] Rep. National Fire Sprinkler Association

Joseph E. Caldwell, AECOM, VA [SE]

Daniel A. Dahl, Morrison Hershfield Corporation, GA [SE]

Victor L. Dubrowski, Code Consultants, Inc., MO [SE]

Patrick T. Earley, New Brunswick Fire Department, NJ [E]

Juan Carlos Fernandez, Miami Dade Fire Rescue Department, FL [E]

Thomas J. Forsythe, JENSEN HUGHES, CA [SE]

James W. Gaut, Marriott Vacations Worldwide, FL [U]

Troy Goldschmidt, Greenheck, WI [M]

Gerhard Haag, Robotic Parking Systems Inc., FL [M]

Todd W. Haines, Dallas/Fort Worth International Airport, TX [U] Eric J. Hall, City of Des Peres, MO [E]

Michael E. Hudkins, Hillsborough County Fire Rescue, FL [E]

Jonathan Humble, American Iron and Steel Institute, CT [M] Rep. American Iron and Steel Institute

Marshall A. Klein, Marshall A. Klein & Associates, Inc., MD [U]

Jeffery P. McBride, EBL Engineers, LLC, MD [SE]

David A. Moore, Jr., Glendale Fire Department, OH [E]

Somnath Mukherjee, Port Authority of New York & New Jersey, NJ

John Anthony Whaling, Protectowire Company, Inc., MA [M]

Keith Woller, UA Sprinkler Fitters Local 669, MA [L]

### Alternates

Farid Alfawakhiri, American Iron and Steel Institute, IL [M] (Alt. to Jonathan Humble)

John M. Breen, AECOM, VA [SE] (Alt. to Joseph E. Caldwell)

Edward M. Fraczkowski, EBL Engineers, LLC, MD [SE]

(Alt. to Jeffery P. McBride)

Peter T. Schwab, Wayne Automatic Fire Sprinklers, Inc., FL [M] (Alt. to Cecil Bilbo, Jr.)

Patrick C. Ward, Jensen Hughes/AON Fire Protection Engineering, CA [SE]

(Alt. to Thomas J. Forsythe)

Allan Fraser, 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 construction, control of fire hazards, ventilation, and fire protection in parking structures.

88A-3 CONTENTS

### Contents

1 Administration	<b>88A</b> – 4	6.2	Heating.	88A- 7
Scope	<b>88A</b> – 4	6.3	Ventilation.	88A- 7
Purpose.	<b>88A</b> – 4	6.4	Fire Sprinkler Systems.	88A- 7
Retroactivity.	<b>88A</b> – 4	6.5	Standpipes.	88A- 7
Equivalency.	<b>88A</b> – 4	6.6	Detection, Alarm, and Communications	
2 Referenced Publications	<b>88A</b> – 4		Systems.	88A- 7
General.	<b>88A</b> – 4	Chapter	7 Special Hazard Protection	88A- 7
NFPA Publications	<b>88A</b> – 4	$7.\hat{1}$	Storage Use, Handling, and Dispensing of	
Other Publications	<b>88A</b> – 5		Fuels and Lubricants.	88A- 7
References for Extracts in Mandatory Sections.	<b>88A</b> – 5	7.2	Autodrive Vehicles. (Reserved)	88A- 7
3 Definitions	<b>88A</b> – 5	Chapter	8 Housekeeping	88A- 7
General.	<b>88A</b> – 5	$8.\hat{1}$	Equipment.	88A- 7
NFPA Official Definitions	<b>88A</b> – 5	8.2	Aisles.	88A- 7
General Definitions.	<b>88A</b> – 5	8.3	Lockers.	88A- 7
		8.4	Waste Receptacles	88A- 7
4 Means of Egress		8.5	Floors.	88A- 7
Means of Egress.	<b>88A–</b> 5			
r Communication	99A C		•	88A- 7
		9.1	General.	88A- 7
•		9.2	Automated-Type Parking Structures	88A- 8
1			70 1 . Mr. 11	004
		Annex A	Explanatory Material	<b>88A</b> – 8
1 0	<b>88A</b> – 6	Annov F	Informational Deformace	88A- 9
		Aillex I	mitormational References	00A- 3
Structures.	<b>88A</b> – 6	Index		<b>88A</b> – 10
6 Building Service and Fire Protection	<b>88A</b> – 6			
Lighting and Power.	<b>88A</b> – 6			
	Scope	Scope.         88A- 4           Purpose.         88A- 4           Retroactivity.         88A- 4           Equivalency.         88A- 4           2         Referenced Publications         88A- 4           General.         88A- 4           Other Publications.         88A- 5           References for Extracts in Mandatory Sections.         88A- 5           3         Definitions.         88A- 5           General.         88A- 5           NFPA Official Definitions.         88A- 5           General Definitions.         88A- 5           4         Means of Egress.         88A- 5           Means of Egress.         88A- 5           Means of Egress.         88A- 6           General Requirements.         88A- 6           General Requirements.         88A- 6           Openings in Fire Resistance-Rated Assemblies.         88A- 6           Opening Requirements for Open Parking         88A- 6           6         Building Service and Fire Protection         88A- 6	Scope.         88A-4         6.3           Purpose.         88A-4         6.4           Retroactivity.         88A-4         6.5           Equivalency.         88A-4         6.6           2 Referenced Publications         88A-4         Chapter           NFPA Publications.         88A-4         7.1           Other Publications.         88A-5         7.2           References for Extracts in Mandatory Sections.         88A-5         7.2           3 Definitions.         88A-5         8.1           NFPA Official Definitions.         88A-5         8.2           General Definitions.         88A-5         8.3           4 Means of Egress.         88A-5         8.5           Means of Egress.         88A-5         8.5           Means of Egress.         88A-6         9.1           General Requirements.         88A-6         9.2           Compartmentation.         88A-6         9.2           Comparing in Fire Resistance-Rated Assemblies.         88A-6         Annex Annex B           Opening Requirements for Open Parking         Annex B           Structures.         88A-6         Index           6 Building Service and Fire Protection         88A-6	Scope

### NFPA 88A

### Standard for

### **Parking Structures**

### 2019 Edition

IMPORTANT NOTE: This NFPA document is made available for use subject to important notices and legal disclaimers. These notices and disclaimers appear in all publications containing this document and may be found under the heading "Important Notices and Disclaimers Concerning NFPA Standards." They can also be viewed at www.nfpa.org/disclaimers or obtained on request from NFPA.

UPDATES, ALERTS, AND FUTURE EDITIONS: New editions of NFPA codes, standards, recommended practices, and guides (i.e., NFPA Standards) are released on scheduled revision cycles. This edition may be superseded by a later one, or it may be amended outside of its scheduled revision cycle through the issuance of Tentative Interim Amendments (TIAs). An official NFPA Standard at any point in time consists of the current edition of the document, together with all TIAs and Errata in effect. To verify that this document is the current edition or to determine if it has been amended by TIAs or Errata, please consult the National Fire Codes® Subscription Service or the "List of NFPA Codes & Standards" at www.nfpa.org/docinfo. In addition to TIAs and Errata, the document information pages also include the option to sign up for alerts for individual documents and to be involved in the development of the next edition.

NOTICE: An asterisk (\*) following the number or letter designating a paragraph indicates that explanatory material on the paragraph can be found in Annex A.

A reference in brackets [] following a section or paragraph indicates material that has been extracted from another NFPA document. As an aid to the user, the complete title and edition of the source documents for extracts in mandatory sections of the document are given in Chapter 2 and those for extracts in informational sections are given in Annex B. Extracted text may be edited for consistency and style and may include the revision of internal paragraph references and other references as appropriate. Requests for interpretations or revisions of extracted text shall be sent to the technical committee responsible for the source document.

Information on referenced publications can be found in Chapter 2 and Annex B.

### Chapter 1 Administration

- **1.1 Scope.** This standard shall cover the construction and protection of, as well as the control of hazards in, open and enclosed parking structures. This standard shall not apply to one- and two-family dwellings.
- **1.2 Purpose.** The purpose of this standard is to provide minimum fire protection standards for parking structures.
- **1.3 Retroactivity.** The provisions of this standard reflect a consensus of what is necessary to provide an acceptable degree of protection from the hazards addressed in this standard at the time the standard was issued.
- **1.3.1** Unless otherwise specified, the provisions of this standard shall not apply to facilities, equipment, structures, or installations that existed or were approved for construction or

installation prior to the effective date of the standard. Where specified, the provisions of this standard shall be retroactive.

- **1.3.2** In those cases where the authority having jurisdiction determines that the existing situation presents an unacceptable degree of risk, the authority having jurisdiction shall be permitted to apply retroactively any portions of this standard deemed appropriate.
- **1.3.3** The retroactive requirements of this standard shall be permitted to be modified if their application clearly would be impractical in the judgment of the authority having jurisdiction and only where it is clearly evident that a reasonable degree of safety is provided.
- **1.4 Equivalency.** Nothing in this standard is intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety over those prescribed by this standard, provided technical documentation is submitted to the authority having jurisdiction to demonstrate equivalency and the system, method, or device is approved for the intended purpose.

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

NFPA 2, Hydrogen Technologies Code, 2016 edition.

NFPA 13, Standard for the Installation of Sprinkler Systems, 2019 edition.

NFPA 14, Standard for the Installation of Standpipe and Hose Systems, 2016 edition.

NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, 2017 edition.

NFPA 30, Flammable and Combustible Liquids Code, 2018 edition.

NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages, 2018 edition.

NFPA 31, Standard for the Installation of Oil-Burning Equipment, 2016 edition.

NFPA 52, Vehicular Natural Gas Fuel Systems Code, 2016 edition.

NFPA 54/ANSI Z223.1, National Fuel Gas Code, 2018 edition.

NFPA 58, Liquefied Petroleum Gas Code, 2017 edition.

NFPA 70<sup>®</sup>, National Electrical Code<sup>®</sup>, 2017 edition.

NFPA 72<sup>®</sup>, National Fire Alarm and Signaling Code, 2019 edition.

NFPA 80, Standard for Fire Doors and Other Opening Protectives, 2019 edition.

NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems, 2018 edition.

NFPA 101®, Life Safety Code®, 2018 edition.

NFPA 211, Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances, 2016 edition.

NFPA 220, Standard on Types of Building Construction, 2018 edition.

NFPA 5000<sup>®</sup>, Building Construction and Safety Code<sup>®</sup>, 2018 edition.

### 2.3 Other Publications.

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

ASTM E136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C, 2015.

2.3.2 IAPMO Publications. International Association of Plumbing and Mechanical Officials, 5001 E. Philadelphia Street, Ontario, CA 91761.

Uniform Mechanical Code, 2003.

### 2.3.3 Other Publications.

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

### 2.4 References for Extracts in Mandatory Sections.

NFPA 101<sup>®</sup>, Life Safety Code<sup>®</sup>, 2018 edition.

### **Chapter 3 Definitions**

**3.1 General.** The definitions contained in this chapter shall apply to the terms used in this standard. Where terms are not defined in this chapter or within another chapter, they shall be defined using their ordinarily accepted meanings within the context in which they are used. Merriam-Webster's Collegiate Dictionary, 11th edition, shall be the source for the ordinarily accepted meaning.

### 3.2 NFPA Official Definitions.

- 3.2.1\* Approved. Acceptable to the authority having jurisdic-
- 3.2.2\* Authority Having Jurisdiction (AHJ). An organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, an installation, or a procedure.
- 3.2.3 Labeled. Equipment or materials to which has been attached a label, symbol, or other identifying mark of an organization that is acceptable to the authority having jurisdiction and concerned with product evaluation, that maintains periodic inspection of production of labeled equipment or materials, and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.
- 3.2.4\* Listed. Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that either the equipment, material, or service meets appropriate designated standards or has been tested and found suitable for a specified purpose.
- N 3.2.5 Standard. An NFPA Standard, the main text of which contains only mandatory provisions using the word "shall" to indicate requirements and that is in a form generally suitable for mandatory reference by another standard or code or for adoption into law. Nonmandatory provisions are not to be considered a part of the requirements of a standard and shall be located in an appendix, annex, footnote, informational

note, or other means as permitted in the NFPA Manuals of Style. When used in a generic sense, such as in the phrase "standards development process" or "standards development activities," the term "standards" includes all NFPA Standards, including Codes, Standards, Recommended Practices, and Guides.

### 3.3 General Definitions.

- **N** 3.3.1 Autodrive Vehicle. An automobile that has computers and equipment enabling it to move from one point to another safely without a human driver.
  - **3.3.2 Noncombustible Material.** A material that, in the form in which it is used and under the conditions anticipated, will not ignite, burn, support combustion, or release flammable vapors when subjected to fire or heat. Materials that are reported as passing ASTM E136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C, are considered noncombustible materials.
  - 3.3.3\* Parking Structure. A building, structure, or portion thereof used for the parking, storage, or both, of motor vehi-
    - 3.3.3.1 Parking Structure, Assisted Mechanical Type. A parking structure that uses lifts or other mechanical devices to transport vehicles to the floors of a parking structure, where the vehicles are then parked by a person.
    - 3.3.3.2 Parking Structure, Automated Type. A parking structure that uses computer-controlled machines to store and retrieve vehicles, without drivers, in multi-level storage racks with no floors.
    - 3.3.3.3 Parking Structure, Enclosed. Any parking structure that is not an open parking structure.
    - 3.3.3.4 Parking Structure, Open. A parking structure that meets the requirements of Section 5.5.
    - 3.3.3.5 Parking Structure, Ramp Type. A parking structure that utilizes sloped floors for vertical vehicle circulation.

### Chapter 4 Means of Egress

### 4.1 Means of Egress.

- 4.1.1 Means of egress shall comply with NFPA 101 or NFPA 5000 as modified by 4.1.2.
- 4.1.2 The ramp requirement of NFPA 101, 7.2.5, and NFPA 5000, 11.2.5, shall not apply to those parts of sloped floors utilized for both parking and vehicle circulation.
- **4.1.3** In a ramp-type open parking structure with open vehicle ramps not subject to closure, the ramp shall be permitted to serve in lieu of the second means of egress from floors above the level of exit discharge, provided that the ramp discharges directly outside at the street level. [101:42.8.2.2.6.1(2)]
- **4.1.4** For parking structures extending only one floor level below the level of exit discharge, a vehicle ramp leading directly to the outside shall be permitted to serve in lieu of the second means of egress, provided that no door or shutter is installed therein. [101:42.8.2.2.6.1(3)]
- 4.1.5\* Open stairs shall be permitted in open parking structures.

### Chapter 5 Construction

### 5.1 General Requirements.

- **5.1.1\*** Parking structures shall be built using one of the types of construction defined in NFPA 220, except as otherwise amended in this standard.
- **5.1.2** Open parking structures shall be of Type I or Type II construction as defined in NFPA 220.
- **5.1.3** Heights and floor areas of open parking structures of Type I, Type II (222), or Type II (111) construction shall be permitted to be unlimited.
- **5.1.4** Open parking structures of Type II (000) construction shall be permitted to be of unlimited area where both of the following conditions are met:
- (1) The height does not exceed 25 m (75 ft).
- (2) The horizontal distance from any point on any parking level to an exterior wall opening on a street, an alley, a courtyard, or other similar permanent open space does not exceed 60 m (200 ft).

### 5.2 Compartmentation.

- **5.2.1** Those parts of parking structures located within, immediately below, attached to, or less than 3 m (10 ft) from a building or another occupancy used for any other purpose shall be separated by walls, partitions, floors, or floor–ceiling assemblies having fire resistance ratings of not less than 2 hours, unless otherwise permitted by 5.2.3.
- **N 5.2.2** The 2-hour fire resistance rating required in 5.2.1 shall be permitted to be reduced to 1 hour where the parking structure is protected throughout by an approved automatic sprinkler system.
  - **5.2.3** No fire-rated separation shall be required when parts of a parking structure and a building used for any other purpose are separated by 3 m (10 ft) or more, and are attached only via open pedestrian balconies or bridges, or open vehicle bridges.
  - **5.2.4\*** Those portions of an open parking structure located within or immediately below a building used for another purpose shall have the principal supporting members and bearing walls in all levels of the parking structure protected to provide a fire resistance rating equivalent to that required for the other occupancy.
  - **5.2.5** Offices or other similar spaces that are related to the operation of the parking structure and are less than  $300 \text{ m}^2$  ( $3000 \text{ ft}^2$ ) in area, other than cashier or attendant booths, shall be separated from parking areas by walls or partitions that resist the passage of smoke.

### 5.3 Floors.

- **5.3.1** Floor surfaces shall be of noncombustible material.
- **5.3.1.1** Where combustible construction is permitted, floor surfaces shall be noncombustible and liquidtight.
- **5.3.1.2\*** Asphalt shall be permitted on grade.
- **5.3.2** Floors shall be graded and equipped with drains.
- **5.3.3** Floors in areas of parking structures where motor fuels are dispensed shall be designed in accordance with NFPA 30A.

### 5.4 Openings in Fire Resistance-Rated Assemblies.

- **5.4.1** Doorways and other openings in fire walls and fire partitions shall be protected with approved fire doors installed in accordance with NFPA 80.
- **5.4.2** Where ducts pass through fire walls or fire partitions, the openings shall be protected in accordance with NFPA 90A.
- **5.4.3** Unless otherwise provided in 5.4.5, 5.4.6, or 5.4.7, vertical openings through floors in enclosed parking structures four stories or more in height shall be enclosed with walls or partitions having a fire resistance rating of not less than 2 hours.
- **5.4.4** Unless otherwise provided in 5.4.5, 5.4.6, or 5.4.7, vertical openings through floors in enclosed parking structures less than four stories in height shall be enclosed with walls or partitions having a fire resistance rating of not less than 1 hour.
- **5.4.5** Ramps in enclosed parking structures shall not be required to be enclosed in accordance with 5.4.3 or 5.4.4 where the parking structure is protected throughout by an approved, automatic sprinkler system.
- **5.4.6** Ramps in enclosed parking structures shall not be required to be enclosed in accordance with 5.4.3 or 5.4.4 where the parking structure is protected throughout by an approved, supervised, automatic fire detection system and a mechanical ventilation system in accordance with 6.3.1.
- **5.4.7** Openings in the floor assembly between an enclosed parking structure and an open parking structure, except exit openings, shall not be required to be enclosed where the enclosed parking structure is protected in accordance with 5.4.5 or 5.4.6.
- **5.4.8** Unprotected vertical openings through floors in open parking structures shall be permitted.

### 5.5 Opening Requirements for Open Parking Structures.

- Δ 5.5.1 For natural ventilation purposes, the exterior sides of the structure shall have uniformly distributed openings on two or more sides.
- **N 5.5.2** The area of such openings in exterior walls on a level shall be not less than 20 percent of the total perimeter wall area of each level.
  - **5.5.3** The aggregate length (i.e., total of widths) of the openings considered to be providing natural ventilation shall be not less than 40 percent of the perimeter of the level.
  - **5.5.4** Where the required openings are uniformly distributed over two opposing sides of the building, 5.5.3 shall not apply.
- **N** 5.5.5 Interior wall lines and column lines shall be at least 20 percent open, with openings uniformly distributed to provide ventilation.

### Chapter 6 Building Service and Fire Protection

### 6.1 Lighting and Power.

**6.1.1** Electric wiring for light, power, heat, and signal or control circuits and for electrically operated tools, portable appliances, and devices shall be in accordance with the provisions of *NFPA 70*.

6.1.2 Areas where flammable liquids are stored, handled, or dispensed shall be delineated and classified for the installation of electrical equipment in accordance with NFPA 30A.

### 6.2 Heating.

- **6.2.1** Heating equipment shall conform to NFPA 90A, NFPA 31, NFPA 54/ANSI Z223.1, NFPA 211, and Uniform Mechanical Code, as applicable.
- 6.2.2 Unless otherwise permitted by 6.2.3, all flames associated with heating equipment shall be located a minimum of 500 mm (18 in.) below the floor-ceiling assembly or 500 mm (18 in.) above the floor.
- **6.2.3** Heating equipment located so as to be protected by a partition not less than 500 mm (18 in.) above the floor shall not be required to meet the requirement of 6.2.2.
- 6.2.4 The use of improvised furnaces, construction heaters, and space heaters shall be prohibited.

### 6.3 Ventilation.

- 6.3.1\* All enclosed parking structures shall be ventilated by a mechanical system capable of providing a minimum of 300 L/min per m<sup>2</sup> of floor area (1 ft<sup>3</sup>/min per ft<sup>2</sup> of floor area) during hours of normal operation.
- 6.3.2 A mechanical ventilation system shall not be required in an open parking structure.
- 6.3.3 Mechanical ventilating systems shall be installed in accordance with NFPA 90A. Ductwork shall be constructed of noncombustible material.

### 6.4 Fire Sprinkler Systems.

- **6.4.1** Automatic sprinkler systems shall conform to NFPA 13.
- **6.4.2** Automatic sprinkler systems shall be installed in portions of enclosed parking structures, the ceilings of which are less than 600 mm (24 in.) above grade, regardless of type of construction, and in enclosed parking structures of Type III or Type IV construction over 15 m (50 ft) in height.
- 6.4.3 Automatic sprinkler systems shall be installed in enclosed parking structures located at or above grade, or within or immediately below a building used for another occupancy.
- **6.4.4** Automatic sprinkler systems shall not be required in open parking structures.
- **6.4.5 Maintenance.** Fire sprinkler systems shall be regularly inspected, tested, and maintained in accordance with NFPA 25.

### 6.5 Standpipes.

- **6.5.1** Parking structures exceeding a height of 15 m (50 ft) or having parking levels below grade shall be provided with a Class I standpipe system in accordance with NFPA 14.
- **6.5.2** Class I standpipe systems of the manual dry type shall be permitted in open parking structures.
- **6.5.3 Maintenance.** Standpipe systems shall be regularly inspected, tested, and maintained in accordance with NFPA 25.

### 6.6 Detection, Alarm, and Communications Systems.

**6.6.1** Where provided, fire detection and alarm systems shall conform to NFPA 72.

- 6.6.2 An approved, supervised, automatic fire detection and alarm system shall be installed in enclosed parking structures having a mechanical ventilation system, located at or above grade, or within or immediately below a building used for another occupancy.
- **N** 6.6.2.1 Where enclosed parking structures have an approved automatic sprinkler system installed throughout in accordance with NFPA 13, 6.6.2 shall not apply.
  - **6.6.3** Fire alarm systems shall not be required in open parking structures.
  - **6.6.4 Maintenance.** Fire alarm systems shall be regularly inspected, tested, and maintained in accordance with NFPA 72.

### Chapter 7 Special Hazard Protection

- 7.1 Storage Use, Handling, and Dispensing of Fuels and Lubricants.
- **7.1.1** The storage, use, handling, and dispensing of flammable or combustible liquids shall conform to NFPA 30 and NFPA 30A.
- 7.1.2 The storage, use, handling, and dispensing of liquefied petroleum gas shall conform to NFPA 58.
- 7.1.3 The storage, use, handling, and dispensing of natural gas fuels shall conform to NFPA 52.
- **N** 7.1.4 The storage, use, handling, and dispensing of hydrogen fuels shall conform to NFPA 2.
- **N** 7.1.5 The installation of electric vehicle charging equipment shall comply with NFPA 70.
- N 7.2 Autodrive Vehicles. (Reserved)

### Chapter 8 Housekeeping

- 8.1 Equipment. Equipment and safety devices shall be maintained and hazardous accumulations of combustible material shall be removed from the structure.
- **8.2 Aisles.** Clear aisle space shall be maintained to permit ready access to, and the use of, fire-fighting equipment.
- 8.3 Lockers. Where lockers are provided for employees' clothes they shall be constructed of metal.

### 8.4 Waste Receptacles.

- **8.4.1** Approved metal receptacles with self-closing covers shall be provided for the storage or disposal of oil-soaked waste or cloths.
- 8.4.2 Containers having a capacity of greater than 208 L (55 gal) used for combustible trash shall be of metal construction and shall be covered.
- 8.5 Floors. Floors shall be kept clean and free of oil and grease.

### Chapter 9 Special Structures

**\Delta** 9.1 General. The requirements of Chapter 9 modify the requirements of Chapters 1 through 8.

### 9.2 Automated-Type Parking Structures.

**9.2.1 Means of Egress.** Mean of egress in accordance with Chapter 4 are not required in automated-type parking structures.

### 9.2.2 Access for Fire Service and Maintenance Personnel.

- **9.2.2.1** Access shall be provided in accordance with Table 40.2.5.2.1 of NFPA 101 except that the 560 mm (22 in.) minimum dimensional criteria shall be changed to 915 mm (36 in.) in all locations in the table.
- **9.2.2.2** Horizontal walkways for access shall be provided at intervals of 6 m (19.5 ft) vertically and 30 m (98.5 ft) horizontally.
- **9.2.2.3** Travel distance to the exterior or to an enclosed stair shall not exceed 122 m (400 ft).
- **9.2.2.4** One exterior door shall be provided at grade for every stair.
- **9.2.3 Ventilation.** An enclosed automated-type parking structure shall be provided with a ventilation system that continuously provides a minimum of two air changes per hour.

### 9.2.4 Fire Protection Systems.

- **9.2.4.1\*** An automatic sprinkler system shall be installed in an automated mechanical-type parking structure in accordance with NFPA 13.
- **9.2.4.2** Standpipes shall not be required in automated-type parking structures.
- **9.2.4.3** Fire alarm systems shall not be required in automated-type parking structures.

### Annex A Explanatory Material

Annex A is not a part of the requirements of this NFPA document but is included for informational purposes only. This annex contains explanatory material, numbered to correspond with the applicable text paragraphs.

- **A.3.2.1 Approved.** The National Fire Protection Association does not approve, inspect, or certify any installations, procedures, equipment, or materials; nor does it approve or evaluate testing laboratories. In determining the acceptability of installations, procedures, equipment, or materials, the authority having jurisdiction may base acceptance on compliance with NFPA or other appropriate standards. In the absence of such standards, said authority may require evidence of proper installation, procedure, or use. The authority having jurisdiction may also refer to the listings or labeling practices of an organization that is concerned with product evaluations and is thus in a position to determine compliance with appropriate standards for the current production of listed items.
- **A.3.2.2 Authority Having Jurisdiction (AHJ).** The phrase "authority having jurisdiction," or its acronym AHJ, is used in NFPA documents in a broad manner, since jurisdictions and approval agencies vary, as do their responsibilities. Where public safety is primary, the authority having jurisdiction may be a federal, state, local, or other regional department or individual such as a fire chief; fire marshal; chief of a fire prevention bureau, labor department, or health department; building official; electrical inspector; or others having statutory authority. For insurance purposes, an insurance inspection depart-

ment, rating bureau, or other insurance company representative may be the authority having jurisdiction. In many circumstances, the property owner or his or her designated agent assumes the role of the authority having jurisdiction; at government installations, the commanding officer or departmental official may be the authority having jurisdiction.

- **A.3.2.4 Listed.** The means for identifying listed equipment may vary for each organization concerned with product evaluation; some organizations do not recognize equipment as listed unless it is also labeled. The authority having jurisdiction should utilize the system employed by the listing organization to identify a listed product.
- **A.3.3.3 Parking Structure.** A parking structure is permitted to be enclosed or open, use ramps, and use mechanical control push-button-type elevators to transfer vehicles from one floor to another. Motor vehicles are permitted to be parked by the driver or an attendant or are permitted to be parked mechanically by automated facilities. Where automated-type parking is provided, the operator of those facilities is permitted either to remain at the entry level or to travel to another level. Motor fuel is permitted to be dispensed, and motor vehicles are permitted to be serviced in a parking structure in accordance with NFPA 30A.
- △ A.4.1.5 Exit travel distance is measured in accordance with NFPA 101.
  - **A.5.1.1** Building codes generally contain provisions limiting the heights and areas of parking structures of various types of construction.
  - **A.5.2.4** See NFPA 220.
  - **A.5.3.1.2** Asphalt pavement applied over earth substrates is an acceptable method of surfacing.
  - **A.6.3.1** This ventilation requirement is also intended to address vehicles that use natural gas [compressed natural gas (CNG) or liquefied natural gas (LNG)]. A natural gas leak should pose no greater risk than leaks of conventional motor fuels.
- Δ A.9.2.4.1 As with the more conventional parking garages, NFPA 88A refers to other NFPA standards (NFPA 13, NFPA 14, NFPA 72, NFPA 101, and NFPA 5000) for certain fire protection features of automated-type parking structures.

NFPA 13 at this time does not describe how to protect automated-type parking structures. The NFPA 13 approach to protection of multiple row racks [based on storage cubes of 1.22 m to 1.52 m (4 ft to 5 ft) on each side] does not adequately address the automated-type parking structure commodity [Group A plastics (vehicles with both plastics and fuel loads), of nominal dimensions 2.13 m  $\times$  5.79 m  $\times$  1.83 m (7 ft  $\times$  19 ft  $\times$  6 ft) high on solid shelves, dynamically controlled by the facility's "system"].

The Technical Committee on Garages and Parking Structures acknowledges that determining the minimum requirements for sprinkler protection is within the scope of the Sprinkler Project's Technical Committee on Sprinkler System Discharge Criteria. To identify the automatic sprinkler issues specific to the automated-type parking structures and to support the work of the Sprinkler Project, a research topic description proposal has been submitted to the Sprinkler Research Council of NFPA's Fire Protection Research Foundation.

ANNEX B 88A-9

### Annex B Informational References

- **B.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.
- **B.1.1 NFPA Publications.** National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.
- NFPA 13, Standard for the Installation of Sprinkler Systems, 2019 edition.
- NFPA 14, Standard for the Installation of Standpipe and Hose Systems, 2016 edition.
- NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages, 2018 edition.
- NFPA 72<sup>®</sup>, National Fire Alarm and Signaling Code, 2019 edition.
  - NFPA 101®, Life Safety Code®, 2018 edition.
- NFPA 220, Standard on Types of Building Construction, 2018 edition.

NFPA 5000°, Building Construction and Safety Code°, 2018 edition.

### **B.1.2** Other Publications. (Reserved)

- **B.2 Informational References.** The following documents or portions thereof are listed here as informational resources only. They are not a part of the requirements of this document.
- **B.2.1 ASME Publications.** ASME International, Two Park Avenue, New York, NY 10016-5990.

ASME B30.13, Storage/Retrieval Machines and Associated Equipment, 2011.

△ B.2.2 RMI Publications. Rack Manufacturers Institute, An Affiliated Trade Association of Material Handling Industry of America, 8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217-3992.

MHI MH16.1, Specification for Industrial Steel Storage Racks, 2012.

B.3 References for Extracts in Informational Sections. (Reserved)

### Index

Copyright © 2018 National Fire Protection Association. All Rights Reserved.

The copyright in this index is separate and distinct from the copyright in the document that it indexes. The licensing provisions set forth for the document are not applicable to this index. This index may not be reproduced in whole or in part by any means without the express written permission of NFPA.

-I--A-Administration, Chap. 1 Informational References, Annex B Equivalency, 1.4 -I a Purpose, 1.2 Labeled Retroactivity, 1.3 Definition, 3.2.3 Scope, 1.1 Approved Listed Definition, 3.2.4, A.3.2.4 Definition, 3.2.1, A.3.2.1 Authority Having Jurisdiction (AHJ) -M-Definition, 3.2.2, A.3.2.2 Means of Egress, Chap. 4 **Autodrive Vehicle** Means of Egress, 4.1 Definition, 3.3.1 -N-Noncombustible Material **Building Service and Fire Protection**, Chap. 6 Definition, 3.3.2 Detection, Alarm, and Communications Systems, 6.6 Maintenance, 6.6.4 -P-Fire Sprinkler Systems, 6.4 **Parking Structure** Maintenance, 6.4.5 Definition, 3.3.3, A.3.3.3 Heating, 6.2 Parking Structure, Assisted Mechanical Type Lighting and Power, 6.1 Definition, 3.3.3.1 Standpipes, 6.5 Parking Structure, Automated Type Maintenance, 6.5.3 Definition, 3.3.3.2 Ventilation, 6.3 Parking Structure, Enclosed -C-Definition, 3.3.3.3 Parking Structure, Open Construction, Chap. 5 Definition, 3.3.3.4 Compartmentation, 5.2 Parking Structure, Ramp Type Floors, 5.3 Definition, 3.3.3.5 General Requirements, 5.1 Opening Requirements for Open Parking Structures, 5.5 -R-Openings in Fire Resistance-Rated Assemblies, 5.4 Referenced Publications, Chap. 2 -D-Definitions, Chap. 3 Special Hazard Protection, Chap. 7 Storage Use, Handling, and Dispensing of Fuels and -E-Lubricants, 7.1 Explanatory Material, Annex A Special Structures, Chap. 9 Automated-Type Parking Structures, 9.2 -H-Access for Fire Service and Maintenance Personnel, 9.2.2 Housekeeping, Chap. 8 Fire Protection Systems, 9.2.4 Aisles, 8.2 Means of Egress, 9.2.1 Equipment, 8.1 Ventilation, 9.2.3 Floors, 8.5 General, 9.1 Lockers, 8.3 Standard Waste Receptacles, 8.4 Definition, 3.2.5

## Sequence of Events for the Standards Development Process

Once the current edition is published, a Standard is opened for Public Input.

### Step 1 – Input Stage

- Input accepted from the public or other committees for consideration to develop the First Draft
- Technical Committee holds First Draft Meeting to revise Standard (23 weeks); Technical Committee(s) with Correlating Committee (10 weeks)
- Technical Committee ballots on First Draft (12 weeks);
   Technical Committee(s) with Correlating Committee (11 weeks)
- Correlating Committee First Draft Meeting (9 weeks)
- Correlating Committee ballots on First Draft (5 weeks)
- First Draft Report posted on the document information page

### Step 2 – Comment Stage

- Public Comments accepted on First Draft (10 weeks) following posting of First Draft Report
- If Standard does not receive Public Comments and the Technical Committee chooses not to hold a Second Draft meeting, the Standard becomes a Consent Standard and is sent directly to the Standards Council for issuance (see Step 4) or
- Technical Committee holds Second Draft Meeting (21 weeks); Technical Committee(s) with Correlating Committee (7 weeks)
- Technical Committee ballots on Second Draft (11 weeks);
   Technical Committee(s) with Correlating Committee (10 weeks)
- Correlating Committee Second Draft Meeting (9 weeks)
- Correlating Committee ballots on Second Draft (8 weeks)
- Second Draft Report posted on the document information page

### **Step 3 – NFPA Technical Meeting**

- Notice of Intent to Make a Motion (NITMAM) accepted (5 weeks) following the posting of Second Draft Report
- NITMAMs are reviewed and valid motions are certified by the Motions Committee for presentation at the NFPA Technical Meeting
- NFPA membership meets each June at the NFPA Technical Meeting to act on Standards with "Certified Amending Motions" (certified NITMAMs)
- Committee(s) vote on any successful amendments to the Technical Committee Reports made by the NFPA membership at the NFPA Technical Meeting

### Step 4 - Council Appeals and Issuance of Standard

- Notification of intent to file an appeal to the Standards Council on Technical Meeting action must be filed within 20 days of the NFPA Technical Meeting
- Standards Council decides, based on all evidence, whether to issue the standard or to take other action

### Notes:

- 1. Time periods are approximate; refer to published schedules for actual dates.
- 2. Annual revision cycle documents with certified amending motions take approximately 101 weeks to complete.
- 3. Fall revision cycle documents receiving certified amending motions take approximately 141 weeks to complete.

### Committee Membership Classifications<sup>1,2,3,4</sup>

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

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

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

NOTE 2: A representative includes an employee.

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

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

### Submitting Public Input / Public Comment Through the Online Submission System

Soon after the current edition is published, a Standard is open for Public Input.

Before accessing the Online Submission System, you must first sign in at www.nfpa.org. *Note: You will be asked to sign-in or create a free online account with NFPA before using this system:* 

- a. Click on Sign In at the upper right side of the page.
- b. Under the Codes and Standards heading, click on the "List of NFPA Codes & Standards," and then select your document from the list or use one of the search features.

OR

a. Go directly to your specific document information page by typing the convenient shortcut link of www.nfpa.org/document# (Example: NFPA 921 would be www.nfpa.org/921). Sign in at the upper right side of the page.

To begin your Public Input, select the link "The next edition of this standard is now open for Public Input" located on the About tab, Current & Prior Editions tab, and the Next Edition tab. Alternatively, the Next Edition tab includes a link to Submit Public Input online.

At this point, the NFPA Standards Development Site will open showing details for the document you have selected. This "Document Home" page site includes an explanatory introduction, information on the current document phase and closing date, a left-hand navigation panel that includes useful links, a document Table of Contents, and icons at the top you can click for Help when using the site. The Help icons and navigation panel will be visible except when you are actually in the process of creating a Public Input.

Once the First Draft Report becomes available there is a Public Comment period during which anyone may submit a Public Comment on the First Draft. Any objections or further related changes to the content of the First Draft must be submitted at the Comment stage.

To submit a Public Comment you may access the online submission system utilizing the same steps as previously explained for the submission of Public Input.

For further information on submitting public input and public comments, go to: http://www.nfpa.org/publicinput.

### Other Resources Available on the Document Information Pages

About tab: View general document and subject-related information.

Current & Prior Editions tab: Research current and previous edition information on a Standard.

**Next Edition tab:** Follow the committee's progress in the processing of a Standard in its next revision cycle.

Technical Committee tab: View current committee member rosters or apply to a committee.

**Technical Questions tab:** For members and Public Sector Officials/AHJs to submit questions about codes and standards to NFPA staff. Our Technical Questions Service provides a convenient way to receive timely and consistent technical assistance when you need to know more about NFPA codes and standards relevant to your work. Responses are provided by NFPA staff on an informal basis.

**Products & Training tab:** List of NFPA's publications and training available for purchase.

### **Information on the NFPA Standards Development Process**

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

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

- **II. Technical Committee Report.** The Technical Committee Report is defined as "the Report of the responsible Committee(s), in accordance with the Regulations, in preparation of a new or revised NFPA Standard." The Technical Committee Report is in two parts and consists of the First Draft Report and the Second Draft Report. (See *Regs* at Section 1.4.)
- **III. Step 1: First Draft Report.** The First Draft Report is defined as "Part one of the Technical Committee Report, which documents the Input Stage." The First Draft Report consists of the First Draft, Public Input, Committee Input, Committee and Correlating Committee Statements, Correlating Notes, and Ballot Statements. (See *Regs* at 4.2.5.2 and Section 4.3.) Any objection to an action in the First Draft Report must be raised through the filing of an appropriate Comment for consideration in the Second Draft Report or the objection will be considered resolved. [See *Regs* at 4.3.1(b).]
- **IV. Step 2: Second Draft Report.** The Second Draft Report is defined as "Part two of the Technical Committee Report, which documents the Comment Stage." The Second Draft Report consists of the Second Draft, Public Comments with corresponding Committee Actions and Committee Statements, Correlating Notes and their respective Committee Statements, Committee Comments, Correlating Revisions, and Ballot Statements. (See *Regs* at 4.2.5.2 and Section 4.4.) The First Draft Report and the Second Draft Report together constitute the Technical Committee Report. Any outstanding objection following the Second Draft Report must be raised through an appropriate Amending Motion at the NFPA Technical Meeting or the objection will be considered resolved. [See *Regs* at 4.4.1(b).]
- **V. Step 3a:** Action at NFPA Technical Meeting. Following the publication of the Second Draft Report, there is a period during which those wishing to make proper Amending Motions on the Technical Committee Reports must signal their intention by submitting a Notice of Intent to Make a Motion (NITMAM). (See *Regs* at 4.5.2.) Standards that receive notice of proper Amending Motions (Certified Amending Motions) will be presented for action at the annual June NFPA Technical Meeting. At the meeting, the NFPA membership can consider and act on these Certified Amending Motions as well as Follow-up Amending Motions, that is, motions that become necessary as a result of a previous successful Amending Motion. (See 4.5.3.2 through 4.5.3.6 and Table 1, Columns 1-3 of *Regs* for a summary of the available Amending Motions and who may make them.) Any outstanding objection following action at an NFPA Technical Meeting (and any further Technical Committee consideration following successful Amending Motions, see *Regs* at 4.5.3.7 through 4.6.5.3) must be raised through an appeal to the Standards Council or it will be considered to be resolved.
- VI. Step 3b: Documents Forwarded Directly to the Council. Where no NITMAM is received and certified in accordance with the Technical Meeting Convention Rules, the standard is forwarded directly to the Standards Council for action on issuance. Objections are deemed to be resolved for these documents. (See *Regs* at 4.5.2.5.)
- **VII. Step 4a: Council Appeals.** Anyone can appeal to the Standards Council concerning procedural or substantive matters related to the development, content, or issuance of any document of the NFPA or on matters within the purview of the authority of the Council, as established by the Bylaws and as determined by the Board of Directors. Such appeals must be in written form and filed with the Secretary of the Standards Council (see *Regs* at Section 1.6). Time constraints for filing an appeal must be in accordance with 1.6.2 of the *Regs*. Objections are deemed to be resolved if not pursued at this level.
- **VIII. Step 4b: Document Issuance.** The Standards Council is the issuer of all documents (see Article 8 of *Bylaws*). The Council acts on the issuance of a document presented for action at an NFPA Technical Meeting within 75 days from the date of the recommendation from the NFPA Technical Meeting, unless this period is extended by the Council (see *Regs* at 4.7.2). For documents forwarded directly to the Standards Council, the Council acts on the issuance of the document at its next scheduled meeting, or at such other meeting as the Council may determine (see *Regs* at 4.5.2.5 and 4.7.4).
- **IX. Petitions to the Board of Directors.** The Standards Council has been delegated the responsibility for the administration of the codes and standards development process and the issuance of documents. However, where extraordinary circumstances requiring the intervention of the Board of Directors exist, the Board of Directors may take any action necessary to fulfill its obligations to preserve the integrity of the codes and standards development process and to protect the interests of the NFPA. The rules for petitioning the Board of Directors can be found in the *Regulations Governing Petitions to the Board of Directors from Decisions of the Standards Council* and in Section 1.7 of the *Regs*.
- **X. For More Information.** The program for the NFPA Technical Meeting (as well as the NFPA website as information becomes available) should be consulted for the date on which each report scheduled for consideration at the meeting will be presented. To view the First Draft Report and Second Draft Report as well as information on NFPA rules and for up-to-date information on schedules and deadlines for processing NFPA documents, check the NFPA website (www.nfpa.org/docinfo) or contact NFPA Codes & Standards Administration at (617) 984-7246.



The place to connect online with your fire, electrical, and life safety peers

# Have a question about the code or standard you're reading now? NFPA Xchange™ can help!

NFPA Xchange™ brings together over 30,000 professionals worldwide, asking and answering each other's questions, sharing ideas, and discussing the issues impacting your industry today.

### NFPA Xchange™ is free to join and offers:

- **○** A robust collection of previously asked and answered questions to search
- **○** Access to thousands of peers for problem-solving and on-the-job advice
- ⇒ NFPA blogs, white papers, and webinars in one convenient place

NFPA members also enjoy **Xchange™ Members Only**, the online space for technical questions\* answered by NFPA staff, exclusive NFPA live events, and premier access to curated content.

Join NFPA Xchange™ TODAY! www.nfpa.org/xchange

Xchange Today. Safer Tomorrow.

<sup>\*</sup>For the full terms of use, please visit nfpa.org/standard\_items/terms-of-use#xchange. NFPA® is a registered trademark of the National Fire Protection Association, Quincy, MA 02169.