



# INTERNATIONAL FIRE CODE<sup>®</sup> NEW JERSEY EDITION



2015



# INTERNATIONAL FIRE CODE<sup>®</sup> NEW JERSEY EDITION



**2015**

International Fire Code 2015, New Jersey Edition

First Printing: June 2018

ISBN: 978-1-60983-842-3

COPYRIGHT © 2018  
by  
INTERNATIONAL CODE COUNCIL, INC.

ALL RIGHTS RESERVED. This *International Fire Code 2015, New Jersey Edition* contains substantial copyrighted material from the 2015 *International Fire Code*<sup>®</sup>, fourth printing, which is a copyrighted work owned by the International Code Council, Inc. Without advance written permission from the copyright owner, no part of this work may be reproduced, distributed or transmitted in any form or by any means, including, without limitation, electronic, optical or mechanical means (by way of example, and not limitation, photocopying, or recording by or in an information storage retrieval system). For information on use rights and permissions, please contact: ICC Publications, 4051 Flossmoor Road, Country Club Hills, IL 60478. Phone 1-888-ICC-SAFE (422-7233).

Trademarks: “International Code Council,” the “International Code Council” logo, “ICC,” the “ICC” logo, “International Fire Code,” “IFC” and other names and trademarks appearing in this book are trademarks of the International Code Council, Inc., and/or its licensors (as applicable), and may not be used without permission.

PRINTED IN THE U.S.A.

# PREFACE

## Introduction

The New Jersey Division of Fire Safety has adopted the 2015 *International Fire Code, New Jersey Edition*, as the *State Fire Prevention Code*. The base document was the 2015 *International Fire Code*, fourth printing. A significant review and revision process was conducted to retain requirements in the previously adopted code and to make needed New Jersey-specific amendments. The effective date of this new code is July 1, 2018.

## Maintenance

The maintenance of this code occurs through suggested amendments and additions. These suggestions must be submitted on a form available from the Division of Fire Safety. All suggestions are submitted to the Fire Codes Advisory Council and to the New Jersey Fire Safety Commission. If accepted, they are then forwarded to the full Commission for action. If approved by the Commission, they are submitted to the Commissioner of the Department of Community Affairs for consideration.

Any amendments or additions accepted by the Commissioner are then published in the *New Jersey Register* as a proposal with a minimum 60-day public comment period. Once the comment period ends, comments are reviewed and the proposal is either adopted as proposed, adopted with nonsubstantive changes or not adopted.

If adopted, the amendments will again appear in the *New Jersey Register* as a Notice of Adoption. Those who hold a subscription service from the International Code Council will receive updates to this code containing any adopted amendments.

## Marginal Markings

Solid vertical lines in the margins within the body of the code indicate a technical change from the requirements of the 2012 edition of the *International Fire Code* (IFC). Deletion indicators in the form of an arrow (➡) are provided in the margin where an entire section, paragraph, exception or table has been deleted or an item in a list of items or a table has been deleted.

A single asterisk [\*] placed in the margin indicates that text or a table has been relocated within the code. A double asterisk [\*\*] placed in the margin indicates that the text or table immediately following it has been relocated there from elsewhere in the code. The following table indicates such relocations in the 2015 edition of the *International Fire Code*.

2012 LOCATION	2015 LOCATION
408.11.3	311.6
408	403
903.3.5.2	914.3.2
908.7	915
1014.3, 1015, 1021	1006
1015.2, 1021.3	1007
1009.3	1019
2311.8	2309.6

## **Italicized Terms**

Selected terms set forth in Chapter 2, Definitions, are italicized where they appear in code text. Such terms are not italicized where the definition set forth in Chapter 2 does not impart the intended meaning in the use of the term. The terms selected have definitions that the user should read carefully to better understand the code.

# EFFECTIVE USE OF THE INTERNATIONAL FIRE CODE

## Instructions for Use

Code sections preceded by a double vertical line in the margin (||) have been modified, added to or edited by the Department of Community Affairs.

Unlike the previous *Fire Prevention Code* it is not necessary to distinguish between amended and un-amended provisions when citing violations.

Therefore, all violations will be cited as follows without respect to whether they are amendments or not:

Example: (Testing of Emergency and Standby Power Systems)  
Cite as: N.J.A.C. 5:70-3, 604.4.1.1

Example: (Automatic fire-extinguishing system tests)  
Cite as: N.J.A.C. 5:70-3, 904.5.1

## IFC NJ 2006 - IFC NJ 2015 Chapters Cross Reference Chart

(2015)	IFC 2006, NJ Edition	(2006)	IFC 2015, NJ Edition
1	Chapter 1 ADMINISTRATION	1	Chapter 1 SCOPE AND ADMINISTRATION
2	Chapter 2 DEFINITIONS	2	Chapter 2 DEFINITIONS
3	Chapter 3 GENERAL PRECAUTIONS AGAINST FIRE	3	Chapter 3 GENERAL REQUIREMENTS
4	Chapter 4 EMERGENCY PLANNING AND PREPAREDNESS	4	Chapter 4 EMERGENCY PLANNING AND PREPAREDNESS
5	Chapter 5 FIRE SERVICE FEATURES	5	Chapter 5 FIRE SERVICE FEATURES
6	Chapter 6 BUILDING SERVICES AND SYSTEMS	6	Chapter 6 BUILDING SERVICES AND SYSTEMS
7	Chapter 7 FIRE-RESISTANCE-RATED CONSTRUCTION	7	Chapter 7 FIRE AND SMOKE PROTECTION FEATURES
8	Chapter 8 INTERIOR FINISH DECORATIVE MATERIALS AND FURNISHINGS	8	Chapter 8 INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS
9	Chapter 9 FIRE PROTECTION SYSTEMS	9	Chapter 9 FIRE PROTECTION SYSTEMS
10	Chapter 10 MEANS OF EGRESS	10	Chapter 10 MEANS OF EGRESS
20	Chapter 11 AVIATION FACILITIES	Deleted	Chapter 11 CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS
21	Chapter 12 DRY CLEANING	Reserved	Chapter 12–19 RESERVED
22	Chapter 13 COMBUSTIBLE PRODUCTION OPERATIONS	11	Chapter 20 AVIATION FACILITIES
33	Chapter 14 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION	12	Chapter 21 DRY CLEANING
24	Chapter 15 FLAMMABLE FINISHES	13	Chapter 22 COMBUSTIBLE DUST-PRODUCING OPERATIONS
25	Chapter 16 FRUIT AND CROP RIPENING	22	Chapter 23 MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES
26	Chapter 17 FUMIGATION AND INSECTICIDAL FOGGING	15	Chapter 24 FLAMMABLE FINISHES
27	Chapter 18 SEMICONDUCTOR FABRICATION FACILITIES	16	Chapter 25 FRUIT AND CROP RIPENING
28	Chapter 19 LUMBER YARDS AND WOODWORKING FACILITIES	17	Chapter 26 FUMIGATION AND INSECTICIDAL FOGGING

## IFC NJ 2006 - IFC NJ 2015 Chapters Cross Reference Chart

(2015)	IFC 2006, NJ Edition	(2006)	IFC 2015, NJ Edition
29	Chapter 20 MANUFACTURE OF ORGANIC COATINGS	18	Chapter 27 SEMICONDUCTOR FABRICATION FACILITIES
30	Chapter 21 INDUSTRIAL OVENS	19	Chapter 28 LUMBER YARDS AND AGRO-INDUSTRIAL, SOLID BIOMASS AND WOODWORKING FACILITIES
23	Chapter 22 MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES	20	Chapter 29 MANUFACTURE OF ORGANIC COATINGS
32	Chapter 23 HIGH-PILED COMBUSTIBLE STORAGE	21	Chapter 30 INDUSTRIAL OVENS
31	Chapter 24 TENTS, CANOPIES AND OTHER MEMBRANE STRUCTURES	24	Chapter 31 TENTS AND MEMBRANE STRUCTURES
34	Chapter 25 TIRE REBUILDING AND TIRE STORAGE	23	Chapter 32 HIGH-PILED COMBUSTIBLE STORAGE
35	Chapter 26 WELDING AND OTHER HOT WORK	14	Chapter 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION
50	Chapter 27 HAZARDOUS MATERIALS GENERAL PROVISIONS	25	Chapter 34 TIRE REBUILDING AND TIRE STORAGE
51	Chapter 28 AEROSOLS	26	Chapter 35 WELDING AND OTHER HOT WORK
37	Chapter 29 COMBUSTIBLE FIBERS	New	Chapter 36 MARINAS
53	Chapter 30 COMPRESSED GASES	29	Chapter 37 COMBUSTIBLE FIBERS
54	Chapter 31 CORROSIVE MATERIALS	Reserved	Chapter 38–49 RESERVED
55	Chapter 32 CRYOGENIC FLUIDS	27	Chapter 50 HAZARDOUS MATERIALS—GENERAL PROVISIONS
56	Chapter 33 EXPLOSIVES AND FIREWORKS	28	Chapter 51 AEROSOLS
57	Chapter 34 FLAMMABLE AND COMBUSTIBLE LIQUIDS	Reserved	Chapter 52 RESERVED
58	Chapter 35 FLAMMABLE GASES	30	Chapter 53 COMPRESSED GASES
59	Chapter 36 FLAMMABLE SOLIDS	31	Chapter 54 CORROSIVE MATERIALS
60	Chapter 37 HIGHLY TOXIC AND TOXIC MATERIALS	32	Chapter 55 CRYOGENIC FLUIDS
61	Chapter 38 LIQUEFIED PETROLEUM GASES	33	Chapter 56 EXPLOSIVES AND FIREWORKS
62	Chapter 39 ORGANIC PEROXIDES	34	Chapter 57 FLAMMABLE AND COMBUSTIBLE LIQUIDS
63	Chapter 40 OXIDIZERS	35	Chapter 58 FLAMMABLE GASES AND FLAMMABLE CRYOGENIC FLUIDS
64	Chapter 41 PYROPHORIC MATERIALS	36	Chapter 59 FLAMMABLE SOLIDS
65	Chapter 42 PYROXYLIN (CELLULOSE NITRATE) PLASTICS	37	Chapter 60 HIGHLY TOXIC AND TOXIC MATERIALS
66	Chapter 43 UNSTABLE (REACTIVE) MATERIALS	38	Chapter 61 LIQUEFIED PETROLEUM GASES

## IFC NJ 2006 - IFC NJ 2015 Chapters Cross Reference Chart

(2015)	IFC 2006, NJ Edition	(2006)	IFC 2015, NJ Edition
67	Chapter 44 WATER-REACTIVE SOLIDS AND LIQUIDS	39	Chapter 62 ORGANIC PEROXIDES
80	Chapter 45 REFERENCED STANDARDS	40	Chapter 63 OXIDIZERS, OXIDIZING GASES AND OXIDIZING CRYOGENIC FLUIDS
E	Appendix E HAZARD CATEGORIES	41	Chapter 64 PYROPHORIC MATERIALS
		42	Chapter 65 PYROXYLIN (CELLULOSE NITRATE) PLASTICS
		43	Chapter 66 UNSTABLE (REACTIVE) MATERIALS
		44	Chapter 67 WATER-REACTIVE SOLIDS AND LIQUIDS
		Reserved	Chapter 68–79 RESERVED
		45	Chapter 80 REFERENCED STANDARDS
		Deleted	Appendix A BOARD OF APPEALS
		Deleted	Appendix B FIRE-FLOW REQUIREMENTS FOR BUILDINGS
		Deleted	Appendix C FIRE HYDRANT LOCATIONS AND DISTRIBUTION
		Deleted	Appendix D FIRE APPARATUS ACCESS ROADS
		E	Appendix E HAZARD CATEGORIES
		F	Appendix F HAZARD RANKING
		G	Appendix G CRYOGENIC FLUIDS—WEIGHT AND VOLUME EQUIVALENTS
		H	Appendix H HAZARDOUS MATERIALS MANAGEMENT PLAN (HMMP) AND HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS) INSTRUCTIONS
		I	Appendix I FIRE PROTECTION SYSTEMS—NONCOMPLIANT CONDITIONS
		Deleted	Appendix J BUILDING INFORMATION SIGNS
		Deleted	Appendix K CONSTRUCTION REQUIREMENTS FOR EXISTING AMBULATORY CARE FACILITIES
		Deleted	Appendix L REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS
		Deleted	Appendix M HIGH-RISE BUILDINGS—RETROACTIVE AUTOMATIC SPRINKLER REQUIREMENT
		N	Appendix N INSPECTION, TESTING AND MAINTENANCE OF NON-WATER BASED KITCHEN FIRE SUPPRESSION SYSTEMS
			Index



## Arrangement and Format of the 2015 IFC

Before applying the requirements of the IFC it is beneficial to understand its arrangement and format. The IFC, like other codes published by the International Code Council, is arranged and organized to follow sequential steps that generally occur during a plan review or inspection. In the 2012 edition, the IFC was reorganized into seven parts as illustrated in the tables below. Each part represents a broad subject matter and includes the chapters that logically fit under the subject matter of each part. It is also foreseeable that additional chapters will need to be added in the future as regulations for new processes or operations are developed. Accordingly, the reorganization was designed to accommodate such future chapters by providing reserved (unused) chapters in several of the parts. This will allow the subject matter parts to be conveniently and logically expanded without requiring a major renumbering of the IFC chapters.

<b>ORGANIZATION OF THE IFC</b>	
<b>Parts and Chapters</b>	<b>Subject Matter</b>
Part I – Chapters 1 and 2	Administrative and definitions
Part II – Chapters 3 and 4	General safety provisions
Part III – Chapters 5 through 10	Building and equipment design features
Part III – Chapters 11 through 19	Reserved for future use
Part IV – Chapters 20 through 37	Special occupancies and operations
Part IV – Chapters 38 through 49; 52	Reserved for future use
Part V – Chapters 50, 51 and 53 through 67	Hazardous materials
Part V – Chapters 68 through 79	Reserved for future use
Part VI – Chapter 80	Referenced standards
Part VII – Appendices A through M	Adoptable and informational appendices

The IFC requirements for fire-resistive construction, interior finish, fire protection systems, means of egress and construction safeguards are directly correlated to the chapters containing parallel requirements in the IBC, as follows:

<b>IFC Chapter</b>	<b>Subject</b>
7	Fire and smoke protection features
8	Interior finish, decorative materials and furnishings
9	Fire protection systems
10	Means of egress
33	Fire safety during construction and demolition

The following is a chapter-by-chapter synopsis of the scope and intent of the provisions of the *International Fire Code*:

## **PART I—ADMINISTRATIVE**

**Chapter 1 Scope and Administration.** This chapter contains provisions for the application, enforcement and administration of subsequent requirements of the code. In addition to establishing the scope of the code, Chapter 1 identifies which buildings and structures come under its purview. Chapter 1 is largely concerned with maintaining “due process of law” in enforcing the regulations contained in the body of the code. Only through careful observation of the administrative provisions can the code official reasonably expect to demonstrate that “equal protection under the law” has been provided.

**Chapter 2 Definitions.** All terms that are defined in the code are listed alphabetically in Chapter 2. While a defined term may be used in one chapter or another, the meaning provided in Chapter 2 is applicable throughout the code.

Where understanding of a term’s definition is especially key to or necessary for understanding of a particular code provision, the term is shown in *italics* wherever it appears in the code. This is true only for those terms that have a meaning that is unique to the code. In other words, the generally understood meaning of a term or phrase might not be sufficient or consistent with the meaning prescribed by the code; therefore, it is essential that the code-defined meaning be known.

Guidance regarding tense, gender and plurality of defined terms as well as guidance regarding terms not defined in this code are also provided.

## **PART II—GENERAL SAFETY PROVISIONS**

**Chapter 3 General Requirements.** The open burning, ignition source, vacant building, miscellaneous storage, roof gardens and landscaped roofs, and hazards to fire fighters requirements and precautions, among other general regulations contained in this chapter, are intended to improve premises safety for everyone, including construction workers, tenants, operations and maintenance personnel, and emergency response personnel. As with other chapters of the *International Fire Code*, Section 302 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 4 Emergency Planning and Preparedness.** This chapter addresses the human contribution to life safety in buildings when a fire or other emergency occurs. The requirements for continuous training and scheduled fire, evacuation and lockdown drills can be as important as the required periodic inspections and maintenance of built-in fire protection features. The level of preparation by the occupants also improves the emergency responders’ abilities during an emergency. The *International Building Code* (IBC) focuses on built-in fire protection features, such as automatic sprinkler systems, fire-resistance-rated construction and properly designed egress systems, whereas this chapter fully addresses the human element. As with other chapters of the *International Fire Code*, Section 402 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

## **PART III—BUILDING AND EQUIPMENT DESIGN FEATURES**

**Chapter 5 Fire Service Features.** The requirements of this chapter apply to all buildings and occupancies and pertain to access roads; access to building openings and roofs; premises identification; key boxes; fire protection water supplies; fire command centers; fire department access to equipment and emergency responder radio coverage in buildings. As with other chapters of the *International Fire Code*, Section 502 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 6 Building Services and Systems.** This chapter focuses on building systems and services as they relate to potential safety hazards and when and how they should be installed. This chapter brings together all building system- and service-related issues for convenience and provides a more systematic view of buildings. The following building services and systems are addressed: fuel-fired appliances (Section 603), emergency and standby power systems (Section 604), electrical equipment, wiring and hazards (Section 605), mechanical refrigeration (Section 606), elevator recall and maintenance (Section 607), stationary storage battery systems (Section 608), commercial kitchen hoods (Section 609), commercial kitchen cooking oil storage (610) and hyperbaric facilities (611). As with other chapters of the *International Fire Code*, Section 602 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 7 Fire and Smoke Protection Features.** The maintenance of assemblies required to be fire-resistance rated is a key component in a passive fire protection philosophy. Chapter 7 sets forth requirements to maintain required fire-resistance ratings of building elements and limit fire spread. The required maintenance of fire-resistance-rated assemblies and opening protectives is described in Section 703 while Section 704 covers the enclosure requirements for shafts in existing buildings. As with other chapters of the *International Fire Code*, Section 702 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 8 Interior Finish, Decorative Materials and Furnishings.** The overall purpose of Chapter 8 is to regulate interior finishes, decorative materials and furnishings in new and existing buildings so that they do not significantly add to or create fire hazards within buildings. The provisions tend to focus on occupancies with specific risk characteristics, such as vulnerability of occupants, density of occupants, lack of familiarity with the building and societal expectations of importance. This chapter is consistent with Chapter 8 of the *International Building Code* (IBC), which regulates the interior finishes of new buildings. As with other chapters of the *International Fire Code*, Section 802 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 9 Fire Protection Systems.** Chapter 9 prescribes the minimum requirements for active systems of fire protection equipment to perform the functions of detecting a fire, alerting the occupants or fire department of a fire emergency, controlling smoke and controlling or extinguishing the fire. Generally, the requirements are based on the occupancy, the height and the area of the building, because these are the factors that most affect fire-fighting capabilities and the relative hazard of a specific building or portion thereof. This chapter parallels and is substantially duplicated in Chapter 9 of the *International Building Code*; however, this chapter also contains periodic testing criteria that are not contained in the IBC. In addition, the special fire protection system requirements based on use and occupancy found in Chapter 4 of the IBC are duplicated in Chapter 9 of the IFC as a user convenience. As with other chapters of the *International Fire Code*, Section 902 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 10 Means of Egress.** The general criteria set forth in Chapter 10 regulating the design of the means of egress are established as the primary method for protection of people in buildings by allowing timely relocation or evacuation of building occupants. Both prescriptive and performance language is utilized in this chapter to provide for a basic approach in the determination of a safe exiting system for all occupancies. It addresses all portions of the egress system (i.e., exit access, exits and exit discharge) and includes design requirements as well as provisions regulating individual components. The requirements detail the size, arrangement, number and protection of means of egress components. Functional and operational characteristics also are specified for the components that will permit their safe use without special knowledge or effort. The means of egress protection requirements work in coordination with other sections of the code, such as protection of vertical openings (see Chapter 7), interior finish (see Chapter 8), fire suppression and detection systems (see Chapter 9) and numerous others, all having an impact on life safety. Sections 1002 through 1030 are duplicated text from Chapter 10 of the IBC; however, the IFC contains an additional Section 1031 on maintenance of the means of egress system in existing buildings. As with other chapters of the *International Fire Code*, Section 1002 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**DELETED - Chapter 11 Construction Requirements for Existing Buildings.**

**Chapters 12 through 19.** Reserved for future use.

## **PART IV—SPECIAL OCCUPANCIES AND OPERATIONS**

**Chapter 20 Aviation Facilities.** Chapter 20 specifies minimum requirements for the fire-safe operation of airports, heliports and helistops. The principal nonflight operational hazards associated with aviation involve fuel, facilities and operations. Therefore, safe use of flammable and combustible liquids during fueling and maintenance operations is emphasized. Availability of portable Class B:C-rated fire extinguishers for prompt control or suppression of incipient fires is required. As with other chapters of the *International Fire Code*, Section 2002 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 21 Dry Cleaning.** The provisions of Chapter 21 are intended to reduce hazards associated with use of flammable and combustible dry cleaning solvents. These materials, like all volatile organic chemicals, generate significant quantities of static electricity and are thus readily ignitable. Many flammable and nonflammable dry cleaning solvents also possess health hazards when involved in a fire. As with other chapters of the *International Fire Code*, Section 2102 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 22 Combustible Dust-producing Operations.** The requirements of Chapter 22 seek to reduce the likelihood of dust explosions by managing the hazards of ignitable suspensions of combustible dusts associated with a variety of operations including woodworking, mining, food processing, agricultural commodity storage and handling and pharmaceutical manufacturing, among others. Ignition source control and good housekeeping practices in occupancies containing dust-producing operations are emphasized. As with other chapters of the *International Fire Code*, Section 2202 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 23 Motor Fuel-dispensing Facilities and Repair Garages.** This chapter provides provisions that regulate the storage and dispensing of both liquid and gaseous motor fuels at public and private automotive, marine and aircraft motor fuel-dispensing facilities, fleet vehicle motor fuel-dispensing facilities and repair garages. As with other chapters of the *International Fire Code*, Section 2302 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 24 Flammable Finishes.** Chapter 24 requirements govern operations where flammable or combustible finishes are applied by spraying, dipping, powder coating or flow-coating processes. As with all operations involving flammable or combustible liquids and combustible dusts or vapors, controlling ignition sources and methods of reducing or controlling flammable vapors or combustible dusts at or near these operations are emphasized. As with other chapters of the *International Fire Code*, Section 2402 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 25 Fruit and Crop Ripening.** Chapter 25 provides guidance that is intended to reduce the likelihood of explosions resulting from improper use or handling of ethylene gas used for crop-ripening and coloring processes. This is accomplished by regulating ethylene gas generation; storage and distribution systems and controlling ignition sources. Design and construction of facilities for this use are regulated by the *International Building Code* to reduce the impact of potential accidents on people and buildings.

**Chapter 26 Fumigation and Insecticidal Fogging.** This chapter regulates fumigation and insecticidal fogging operations which use toxic pesticide chemicals to kill insects, rodents and other vermin. Fumigants and insecticidal fogging agents pose little hazard if properly applied; however, the inherent toxicity of all these agents and the potential flammability of some makes special precautions necessary when they are used. Requirements of this chapter are intended to protect both the public and fire fighters from hazards associated with these products. As with other chapters of the *International Fire Code*, Section 2602 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 27 Semiconductor Fabrication Facilities.** The requirements of this chapter are intended to control hazards associated with the manufacture of electrical circuit boards or microchips, commonly called semiconductors. Though the finished product possesses no unusual hazards, materials commonly associated with semiconductor manufacturing are often quite hazardous and include flammable liquids, pyrophoric and flammable gases, toxic substances and corrosives.

The requirements of this chapter are concerned with both life safety and property protection. However, the fire code official should recognize that the risk of extraordinary property damages is far more common than the risk of personal injuries from fire. As with other chapters of the *International Fire Code*, Section 2702 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 28 Lumber Yards and Agro-industrial, Solid Biomass and Woodworking Facilities.** Provisions of this chapter are intended to prevent fires and explosions, facilitate fire control and reduce exposures to and from facilities storing, selling or processing wood and forest products, including sawdust, wood chips, shavings, bark mulch, shorts, finished planks, sheets, posts, poles, timber and raw logs and the hazard they represent once ignited. Also included are solid biomass feedstock and raw products associated with agro-industrial facilities. This chapter requires active and passive fire protection features to reduce on- and off-site exposures, limit fire size and development and facilitate fire fighting by employees and the fire service. As with other chapters of the *International Fire Code*, Section 2802 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 29 Manufacture of Organic Coatings.** This chapter regulates materials and processes associated with the manufacture of paints as well as bituminous, asphaltic and other diverse compounds formulated to protect buildings, machines and objects from the effects of weather, corrosion and hostile environmental exposures. Paint for decorative, architectural and industrial uses comprises the bulk of organic coating production. Painting and processes related to the manufacture of nonflammable and noncombustible or water-based products are exempt from the provisions of this chapter. The application of organic coatings is covered by Chapter 24. Elimination of ignition sources, maintenance of fire protection equipment and isolation or segregation of hazardous operations are emphasized. As with other chapters of the *International Fire Code*, Section 2902 contains a term that is defined in Chapter 2 and is applicable to the chapter contents.

**Chapter 30 Industrial Ovens.** This chapter addresses the fuel supply, ventilation, emergency shutdown equipment, fire protection and the operation and maintenance of industrial ovens, which are sometimes referred to as industrial heat enclosures or industrial furnaces. Compliance with this chapter is intended to reduce the likelihood of fires involving industrial ovens which are usually the result of the fuel in use or volatile vapors given off by the materials being heated or to manage the impact if a fire should occur. As with other chapters of the *International Fire Code*, Section 3002 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 31 Tents and Other Membrane Structures.** The requirements in this chapter are intended to protect temporary as well as permanent tents and air-supported and other membrane structures and temporary stage canopies from fire and similar hazards by regulating structure location and access, anchorage, egress, heat-producing equipment, hazardous materials and operations, combustible vegetation, ignition sources, waste accumulation and requiring regular inspections and certifying continued compliance with fire safety regulations. As with other chapters of the *International Fire Code*, Section 3102 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 32 High-piled Combustible Storage.** This chapter provides guidance for reasonable protection of life from hazards associated with the storage of combustible materials in closely packed piles or on pallets, in racks or on shelves where the top of storage is greater than 12 feet in height. It provides requirements for identifying various classes of commodities; general fire and life safety features including storage arrangements, smoke and heat venting, fire department access and housekeeping and maintenance requirements. The chapter attempts to define the potential fire severity and, in turn, determine fire and life safety protection measures needed to control, and in some cases suppress, a potential fire. This chapter does not cover miscellaneous combustible materials storage regulated in Section 315. As with other chapters of the *International Fire Code*, Section 3202 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 33 Fire Safety during Construction and Demolition.** Chapter 33 outlines general fire safety precautions for all structures and all occupancies during construction and demolition operations. In general, these requirements seek to maintain required levels of fire protection, limit fire spread, establish the appropriate operation of equipment and promote prompt response to fire emergencies. Features regulated include fire protection systems, fire fighter access to the site and building, means of egress, hazardous materials storage and use and temporary heating equipment and other ignition sources. With the 2012 reorganization, this chapter now correlates with Chapter 33 of the IBC.

**Chapter 34 Tire Rebuilding and Tire Storage.** The requirements of Chapter 34 are intended to prevent or control fires and explosions associated with the remanufacture and storage of tires and tire byproducts. Additionally, the requirements are intended to minimize the impact of indoor and outdoor tire storage fires by regulating pile volume and location, segregating the various operations, providing for fire department access and a water supply and controlling ignition sources.

**Chapter 35 Welding and Other Hot Work.** This chapter covers requirements for safety in welding and other types of hot work by reducing the potential for fire ignitions that usually result in large losses. Several different types of hot work would fall under the requirements found in Chapter 35, including both gas and electric arc methods and any open-torch operations. Many of the activities of this chapter focus on the actions of the occupants. As with other chapters of the *International Fire Code*, Section 3502 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 36 Marinas.** Chapter 36 addresses the fire protection and prevention requirements for marinas. It was developed in response to the complications encountered by a number of fire departments responsible for the protection of marinas as well as fire loss history in marinas that lacked fire protection. Compliance with this chapter intends to establish safe practices in marina areas, provide an identification method for mooring spaces in the marina, provide fire fighters with safe operational areas and fire protection methods to extend hose lines in a safe manner. As with other chapters of the *International Fire Code*, Section 3602 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 37 Combustible Fibers.** Chapter 37 (which was formerly Chapter 52) establishes the requirements for storage and handling of combustible fibers, including animal, vegetable and synthetic fibers, whether woven into textiles, baled, packaged or loose. Operations involving combustible fibers are typically associated with salvage, paper milling, recycling, cloth manufacturing, carpet and textile mills and agricultural operations, among others. The primary hazard associated with these operations is the abundance of materials and their ready ignitability. As with other chapters of the *International Fire Code*, Section 3702 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapters 38 through 49.** Reserved for future use.

## **PART V—HAZARDOUS MATERIALS**

**Chapter 50 Hazardous Materials—General Provisions.** This chapter contains the general requirements for all hazardous chemicals in all occupancies. Hazardous chemicals are defined as those that pose an unreasonable risk to the health and safety of operating or emergency personnel, the public and the environment if not properly controlled during handling, storage, manufacture, processing, packaging, use, disposal or transportation. The general provisions of this chapter are intended to be companion provisions with the specific requirements of Chapters 51 through 67 regarding a given hazardous material. As with other chapters of the *International Fire Code*, Section 5002 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 51 Aerosols.** Chapter 51 addresses the prevention, control and extinguishment of fires and explosions in facilities where retail aerosol products are displayed or stored. It is concerned with both life safety and property protection from a fire; however, historically, aerosol product fires have caused property loss more frequently than loss of life. Requirements for storing aerosol products are dependent on the level of aerosol product, level of sprinkler protection, type of storage condition and quantity of aerosol products. As with other chapters of the *International Fire Code*, Section 5102 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 52.** Reserved for future use.

**Chapter 53 Compressed Gases.** This chapter regulates the storage, use and handling of all flammable and nonflammable compressed gases, such as those that are used in medical facilities, air separation plants, industrial plants, agricultural equipment and similar occupancies. Standards for the design, construction and marking of compressed gas cylinders and pressure vessels are referenced. Compressed gases used in welding and cutting, cryogenic liquids and liquefied petroleum gases are also regulated under Chapters 35, 55 and 61, respectively. Compressed gases that are classified as hazardous materials are also regulated in Chapter 50, which includes general requirements. As with other chapters of the *International Fire Code*, Section 5302 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 54 Corrosive Materials.** Chapter 54 addresses the hazards of corrosive materials that have a destructive effect on living tissues. Though corrosive gases exist, most corrosive materials are solid and classified as either acids or bases (alkalis). These materials may pose a wide range of hazards other than corrosivity, such as combustibility, reactivity or oxidizing hazards, and must conform to the requirements of this code with respect to all their known hazards. The focus of this chapter is on materials whose primary hazard is corrosivity; that is, the ability to destroy or irreparably damage living tissue on contact. As with other chapters of the *International Fire Code*, Section 5402 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 55 Cryogenic Fluids.** This chapter regulates the hazards associated with the storage, use and handling of cryogenic fluids through regulation of such things as pressure relief mechanisms and proper container storage. These hazards are in addition to the code requirements that address the other hazards of cryogenic fluids such as flammability and toxicity. These other characteristics are dealt with in Chapter 50 and other chapters, such as Chapter 58 dealing with flammable gases. Cryogenics are hazardous because they are held at extremely low temperatures and high pressures. Many cryogenic fluids, however, are actually inert gases and would not be regulated elsewhere in this code. Cryogenics are used for many applications but specifically have had widespread use in the biomedical field and in space programs. As with other chapters of the *International Fire Code*, Section 5502 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 56 Explosives and Fireworks.** This chapter prescribes minimum requirements for the safe manufacture, storage, handling and use of explosives, ammunition and blasting agents for commercial and industrial occupancies. These provisions are intended to protect the general public, emergency responders and individuals who handle explosives. Chapter 56 also regulates the manufacturing, retail sale, display and wholesale distribution of fireworks, establishing the requirements for obtaining approval to manufacture, store, sell, discharge or conduct a public display, and references national standards for regulations governing manufacture, storage and public displays. As with other chapters of the *International Fire Code*, Section 5602 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 57 Flammable and Combustible Liquids.** The requirements of this chapter are intended to reduce the likelihood of fires involving the storage, handling, use or transportation of flammable and combustible liquids. Adherence to these practices may also limit damage in the event of an accidental fire involving these materials. These liquids are used for fuel, lubricants, cleaners, solvents, medicine and even drinking. The danger associated with flammable and combustible liquids is that the vapors from these liquids, when combined with air in their flammable range, will burn or explode at temperatures near normal living and working environment. The protection provided by this code is to prevent the flammable and combustible liquids from being ignited. As with other chapters of the *International Fire Code*, Section 5702 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 58 Flammable Gases and Flammable Cryogenic Fluids.** Chapter 58 sets requirements for the storage and use of flammable gases. For safety purposes, there is a limit on the quantities of flammable gas allowed per control area. Exceeding these limitations increases the possibility of damage to both property and individuals. The principal hazard posed by flammable gas is its ready ignitability, or even explosivity, when mixed with air in the proper proportions. Consequently, occupancies storing or handling large quantities of flammable gas are classified as Group H-2 (high hazard) by the *International Building Code*. As with other chapters of the *International Fire Code*, Section 5802 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 59 Flammable Solids.** This chapter addresses general requirements for storage and handling of flammable solids, especially magnesium; however, it is important to note that several other solid materials, primarily metals including, but not limited to, such metals as titanium, zirconium, hafnium, calcium, zinc, sodium, lithium, potassium, sodium/potassium alloys, uranium, thorium and plutonium which, under the right conditions, can be explosion hazards. Some of these metals are almost exclusively laboratory materials but because of where they are used, fire service personnel must be trained to handle emergency situations. Because uranium, thorium and plutonium are also radioactive materials, they present still more specialized problems for fire service personnel. As with other chapters of the *International Fire Code*, Section 5902 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 60 Highly Toxic and Toxic Materials.** The main purpose of this chapter is to protect occupants, emergency responders and those in the immediate area of the building and facility from short-term, acute hazards associated with a release or general exposure to toxic and highly toxic materials. This chapter deals with all three states of toxic and highly toxic materials: solids, liquids and gases. This code does not address long-term exposure effects of these materials, which are addressed by agencies such as the Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA). As with other chapters of the *International Fire Code*, Section 6002 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 61 Liquefied Petroleum Gases.** Chapter 61 establishes requirements for the safe handling, storing and use of LP-gas to reduce the possibility of damage to containers, accidental releases of LP-gas and exposure of flammable concentrations of LP-gas to ignition sources. LP-gas (notably propane) is well known as a camping fuel for cooking, lighting, heating and refrigerating and also remains a popular standby fuel supply for auxiliary generators as well as being widely used as an alternative motor vehicle fuel. Its characteristic as a clean-burning fuel having resulted in the addition of propane dispensers to service stations throughout the country. As with other chapters of the *International Fire Code*, Section 6102 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.



**Chapter 62 Organic Peroxides.** This chapter addresses the hazards associated with the storage, handling and use of organic peroxides and intends to manage the fire and oxidation hazards of organic peroxides by preventing their uncontrolled release. These chemicals possess the characteristics of flammable or combustible liquids and are also strong oxidizers. This unusual combination of properties requires special storage and handling precautions to prevent uncontrolled release, contamination, hazardous chemical reactions, fires or explosions. The requirements of this chapter pertain to industrial applications in which significant quantities of organic peroxides are stored or used; however, smaller quantities of organic peroxides still pose a significant hazard and, therefore, must be stored and used in accordance with the applicable provisions of this chapter and Chapter 50. As with other chapters of the *International Fire Code*, Section 6202 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 63 Oxidizers, Oxidizing Gases and Oxidizing Cryogenic Fluids.** Chapter 63 addresses the hazards associated with solid, liquid, gaseous and cryogenic fluid oxidizing materials, including oxygen in home use, and establishes criteria for their safe storage and protection in indoor and outdoor storage facilities, minimizing the potential for uncontrolled releases and contact with fuel sources. Although oxidizers themselves do not burn, they pose unique fire hazards because of their ability to support combustion by breaking down and giving off oxygen. As with other chapters of the *International Fire Code*, Section 6302 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 64 Pyrophoric Materials.** This chapter regulates the hazards associated with pyrophoric materials, which are capable of spontaneously igniting in the air at or below a temperature of 130°F (54°C). Many pyrophoric materials also pose severe flammability or reactivity hazards. This chapter addresses only the hazards associated with pyrophoric materials. Materials that pose multiple hazards must conform to the requirements of the code with respect to all hazards. As with other chapters of the *International Fire Code*, Section 6402 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 65 Pyroxylin (Cellulose Nitrate) Plastics.** This chapter addresses the significant hazards associated with pyroxylin (cellulose nitrate) plastics, which are the most dangerous and unstable of all plastic compounds. The chemically bound oxygen in their structure permits them to burn vigorously in the absence of atmospheric oxygen at a rate 15 times greater than comparable common combustibles. Strict compliance with the provisions of this chapter, along with proper housekeeping and storage arrangements, helps to reduce the hazards associated with pyroxylin (cellulose nitrate) plastics in a fire or other emergencies.

**Chapter 66 Unstable (Reactive) Materials.** This chapter addresses the hazards of unstable (reactive) liquid and solid materials as well as unstable (reactive) compressed gases. In addition to their unstable reactivity, these materials may pose other hazards, such as toxicity, corrosivity, explosivity, flammability or oxidizing potential. This chapter, however, intends to address those materials whose primary hazard is unstable reactivity. Materials that pose multiple hazards must conform to the requirements of the code with respect to all hazards. Strict compliance with the provisions of this chapter, along with proper housekeeping and storage arrangements, helps to reduce the exposure hazards associated with unstable (reactive) materials in a fire or other emergency. As with other chapters of the *International Fire Code*, Section 6602 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 67 Water-reactive Solids and Liquids.** This chapter addresses the hazards associated with water-reactive materials that are solid or liquid at normal temperatures and pressures. In addition to their water reactivity, these materials may pose a wide range of other hazards, such as toxicity, flammability, corrosiveness or oxidizing potential. This chapter addresses only those materials whose primary hazard is water reactivity. Materials that pose multiple hazards must conform to the requirements of the code with respect to all hazards. Strict compliance with the requirements of this chapter, along with proper housekeeping and storage arrangements, helps to reduce the exposure hazards associated with water-reactive materials in a fire or other emergency. As with other chapters of the *International Fire Code*, Section 6702 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapters 68 through 79.** Reserved for future use.

## **PART VI—REFERENCED STANDARDS**

**Chapter 80 Referenced Standards.** This code contains several references to standards that are used to regulate materials and methods of construction. Chapter 80 contains a comprehensive list of all standards that are referenced in this code. The standards are part of the code to the extent of the reference to the standard (see Section 102.7). Compliance with the referenced standard is necessary for compliance with this code. By providing specifically adopted standards, the construction and installation requirements necessary for compliance with this code can be readily determined. The basis for code compliance is, therefore, established and available on an equal basis to the code official, contractor, designer and owner.

Chapter 80 is organized in a manner that makes it easy to locate specific standards. It lists all of the referenced standards alphabetically by acronym of the promulgating agency of the standard. Each agency's standards are then listed in either alphabetical or numeric order based upon the standard identification. The list also contains the title of the standard; the edition (date) of the standard referenced; any addenda included as part of the ICC adoption; and the section or sections of this code that reference the standard.

## **PART VII—APPENDICES**

**DELETED - Appendix A Board of Appeals.**

**DELETED - Appendix B Fire-flow Requirements for Buildings.**

**DELETED - Appendix C Fire Hydrant Locations and Distribution.**

**DELETED - Appendix D Fire Apparatus Access Roads.**

**Appendix E Hazard Categories.** This appendix contains guidance for designers, engineers, architects, code officials, plans reviewers and inspectors in the classifying of hazardous materials so that proposed designs can be evaluated intelligently and accurately. The descriptive materials and explanations of hazardous materials and how to report and evaluate them on a Material Safety Data Sheet (MSDS) are intended to be instructional as well as informative. Note that this appendix is for information purposes and is not intended for adoption.

**Appendix F Hazard Ranking.** The information in this appendix is intended to be a companion to the specific requirements of Chapters 51 through 67, which regulate the storage, handling and use of all hazardous materials classified as either physical or health hazards. These materials pose diverse hazards, including instability, reactivity, flammability, oxidizing potential or toxicity; therefore, identifying them by hazard ranking is essential. This appendix lists the various hazardous materials categories that are defined in this code, along with the NFPA 704 hazard ranking for each. Note that the provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

**Appendix G Cryogenic Fluids—Weight and Volume Equivalent.** This appendix gives the fire code official and design professional a ready reference tool for the conversion of the liquid weight and volume of cryogenic fluid to their corresponding volume of gas and vice versa and is a companion to the provisions of Chapter 55 of this code. Note that this appendix is for information purposes and is not intended for adoption.

**Appendix H Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement (HMIS) Instructions.** This appendix is intended to assist businesses in establishing a Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement (HMIS) based on the classification and quantities of materials that would be found on site in storage and/or use. The sample forms and available Material Safety Data Sheets (MSDS) provide the basis for the evaluations. It is also a companion to IFC Sections 407.5 and 407.6, which provide the requirement that the HMIS and HMMP be submitted when required by the fire code official. Note that the provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

**Appendix I Fire Protection Systems—Noncompliant Conditions.** The purpose of this IFC appendix, which was developed by the ICC Hazard Abatement in Existing Buildings Committee, is to provide the fire code official with a list of conditions that are readily identifiable by the inspector during the course of an inspection utilizing the *International Fire Code*. The specific conditions identified in this appendix are primarily derived from applicable NFPA standards and pose a hazard to the proper operation of the respective systems. While these do not represent all of the conditions that pose a hazard or otherwise may impair the proper operation of fire protection systems, their identification in this adoptable appendix will provide a more direct path for enforcement by the fire code official. Note that the provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

**DELETED - Appendix J Building Information Sign.**

**DELETED - Appendix K Construction Requirements for Existing Ambulatory Care Facilities.**

**DELETED - Appendix L Requirements for Fire Fighter Air Replenishment Systems.**

**DELETED - Appendix M High-rise Buildings—Retroactive Automatic Sprinkler Requirement.**

**Appendix N —Inspection, Testing and Maintenance of Non-water based Kitchen Fire Suppression Systems.**

# TABLE OF CONTENTS

<p><i>Part I—Administrative. . . . . 1</i></p> <p><b>CHAPTER 1 SCOPE AND ADMINISTRATION . . . . 1</b></p> <p>Section</p> <p>101 Scope and Applicability . . . . . 1</p> <p>102 General Provisions . . . . . 1</p> <p>103 Terms; Standards; Accepted Practice; Technical Assistance. . . . . 2</p> <p>104 Maintenance . . . . . 3</p> <p>105 Service Utilities. . . . . 3</p> <p>106 Inspections - Deleted. . . . . 3</p> <p>107 Maintenance - Deleted . . . . . 3</p> <p>108 Board of Appeals - Deleted. . . . . 3</p> <p>109 Violations - Deleted . . . . . 3</p> <p>110 Unsafe Buildings - Deleted. . . . . 3</p> <p>111 Stop Work Order - Deleted . . . . . 4</p> <p>112 Service Utilities - Deleted. . . . . 4</p> <p>113 Fees - Deleted . . . . . 4</p> <p><b>CHAPTER 2 DEFINITIONS . . . . . 5</b></p> <p>Section</p> <p>201 General . . . . . 5</p> <p>202 General Definitions . . . . . 5</p> <p><i>Part II—General Safety Provisions . . . . . 33</i></p> <p><b>CHAPTER 3 GENERAL PRECAUTIONS AGAINST FIRE. . . . . 33</b></p> <p>Section</p> <p>301 General . . . . . 33</p> <p>302 Definitions. . . . . 33</p> <p>303 Asphalt Kettles . . . . . 33</p> <p>304 Combustible Waste Material. . . . . 33</p> <p>305 Ignition Sources . . . . . 34</p> <p>306 Motion Picture Projection Rooms and Film . . . . . 35</p> <p>307 Open Burning, Recreational Fires and Portable Outdoor Fireplaces. . . . . 35</p> <p>308 Open Flames . . . . . 36</p> <p>309 Powered Industrial Trucks and Equipment. . . . . 38</p> <p>310 Smoking . . . . . 38</p> <p>311 Vacant Premises . . . . . 38</p> <p>312 Vehicle or Heavy Object Impact Protection . . . . . 40</p> <p>313 Fueled Equipment . . . . . 40</p>	<p>314 Indoor Displays . . . . . 40</p> <p>315 General Storage . . . . . 41</p> <p>316 Hazards to Fire Fighters . . . . . 41</p> <p>317 Rooftop Gardens and Landscaped Roofs . . . . . 42</p> <p>318 Laundry Carts . . . . . 42</p> <p>319 Rooming and Boarding Houses and Residential Health Care Facilities . . . . . 42</p> <p><b>CHAPTER 4 EMERGENCY PLANNING AND PREPAREDNESS. . . . . 43</b></p> <p>Section</p> <p>401 General . . . . . 43</p> <p>402 Definitions . . . . . 43</p> <p>403 Emergency Preparedness Requirements. . . . . 43</p> <p>404 Fire Safety, Evacuation and Lockdown Plans . . . . . 50</p> <p>405 Emergency Evacuation Drills. . . . . 51</p> <p>406 Employee Training and Response Procedures . . . . . 52</p> <p>407 Hazard Communication . . . . . 53</p> <p><i>Part III—Building and Equipment Design Features . . . . . 55</i></p> <p><b>CHAPTER 5 FIRE SERVICE FEATURES . . . . . 55</b></p> <p>Section</p> <p>501 General. . . . . 55</p> <p>502 Definitions . . . . . 55</p> <p>503 Fire Apparatus Access Roads . . . . . 55</p> <p>504 Access to Building Openings and Roofs . . . . . 56</p> <p>505 Premises Identification. . . . . 56</p> <p>506 Key Boxes . . . . . 56</p> <p>507 Fire Protection Water Supplies . . . . . 57</p> <p>508 Fire Command Center . . . . . 58</p> <p>509 Fire Protection and Utility Equipment Identification and Access. . . . . 59</p> <p>510 Emergency Responder Radio Coverage . . . . . 59</p> <p><b>CHAPTER 6 BUILDING SERVICES AND SYSTEMS . . . . . 63</b></p> <p>Section</p> <p>601 General. . . . . 63</p> <p>602 Definitions . . . . . 63</p> <p>603 Fuel-fired Appliances. . . . . 63</p>
---	---

**TABLE OF CONTENTS**

604 Emergency and Standby Power Systems . . . . . 66  
 605 Electrical Equipment, Wiring and Hazards . . . . . 67  
 606 Mechanical Refrigeration . . . . . 69  
 607 Elevator Operation, Maintenance and  
     Fire Service Keys . . . . . 71  
 608 Stationary Storage Battery Systems . . . . . 72  
 609 Commercial Kitchen Hoods . . . . . 74  
 610 Commercial Kitchen Cooking Oil Storage . . . . . 75  
 611 Hyperbaric Facilities . . . . . 75

**CHAPTER 7 FIRE AND SMOKE  
 PROTECTION FEATURES . . . . . 77**

Section  
 701 General . . . . . 77  
 702 Definitions . . . . . 77  
 703 Fire-resistance-rated Construction . . . . . 77  
 704 Floor Openings and Shafts . . . . . 78

**CHAPTER 8 INTERIOR FINISH,  
 DECORATIVE MATERIALS  
 AND FURNISHINGS . . . . . 79**

Section  
 801 General . . . . . 79  
 802 Definitions . . . . . 79  
 803 Interior Wall and Ceiling Finish and  
     Trim in Existing Buildings . . . . . 79  
 804 Interior Wall and Ceiling Trim and  
     Interior Floor Finish Buildings . . . . . 79  
 805 Upholstered Furniture and Mattresses . . . . . 80  
 806 Decorative Vegetation . . . . . 82  
 807 Decorative Materials Other than Decorative  
     Vegetation . . . . . 83  
 808 Furnishings Other than Upholstered  
     Furniture and Mattresses or Decorative  
     Materials . . . . . 85

**CHAPTER 9 FIRE PROTECTION SYSTEMS . . . . . 87**

Section  
 901 General . . . . . 87  
 902 Definitions . . . . . 89  
 903 Automatic Sprinkler Systems . . . . . 90  
 904 Alternative Automatic Fire-extinguishing  
     Systems . . . . . 91  
 905 Standpipe Systems . . . . . 95  
 906 Portable Fire Extinguishers . . . . . 95  
 907 Fire Alarm and Detection Systems . . . . . 97

908 Emergency Alarm Systems . . . . . 100  
 909 Smoke Control Systems . . . . . 101  
 910 Smoke and Heat Removal - Deleted . . . . . 102  
 911 Explosion Control . . . . . 102  
 912 Fire Department Connections . . . . . 104  
 913 Fire Pumps . . . . . 104  
 914 Fire Protection Based on Special  
     Detailed Requirements of Use and  
     Occupancy - Deleted . . . . . 105  
 915 Carbon Monoxide Detection . . . . . 105  
 916 Private Water Tanks and  
     Fire Service Mains . . . . . 105  
 917 Elevator Recall . . . . . 105

**CHAPTER 10 MEANS OF EGRESS . . . . . 107**

Section  
 1001 Administration . . . . . 107  
 1002 Definitions . . . . . 107  
 1003 General Means of Egress . . . . . 107  
 1004 Occupant Load - Deleted . . . . . 108  
 1005 Means of Egress Sizing - Deleted . . . . . 108  
 1006 Numbers of Exits and Exit  
     Access Doorways - Deleted . . . . . 108  
 1007 Exit and Exit Access Doorway  
     Configuration - Deleted . . . . . 108  
 1008 Means of Egress Illumination . . . . . 108  
 1009 Accessible Means of Egress - Deleted . . . . . 108  
 1010 Doors, Gates and Turnstiles . . . . . 108  
 1011 Stairways - Deleted . . . . . 110  
 1012 Ramps - Deleted . . . . . 110  
 1013 Exit Signs . . . . . 110  
 1014 Handrails - Deleted . . . . . 110  
 1015 Guards - Deleted . . . . . 110  
 1016 Exit Access - Deleted . . . . . 110  
 1017 Exit Access Travel Distance - Deleted . . . . . 110  
 1018 Aisles . . . . . 110  
 1019 Exit Access Stairways and Ramps - Deleted . . . . . 111  
 1020 Corridors . . . . . 111  
 1021 Egress Balconies - Deleted . . . . . 111  
 1022 Exits . . . . . 111  
 1023 Interior Exit Stairways and Ramps - Deleted . . . . . 111  
 1024 Exit Passageways - Deleted . . . . . 111  
 1025 Luminous Egress Path Markings - Deleted . . . . . 112  
 1026 Horizontal Exits - Deleted . . . . . 112  
 1027 Exterior Exit Stairways and Ramps - Deleted . . . . . 112

1028 Exit Discharge - Deleted . . . . . 112  
 1029 Assembly - Deleted . . . . . 112  
 1030 Emergency Escape and Rescue - Deleted . . . . . 112  
 1031 Maintenance of the Means of Egress . . . . . 112

**CHAPTER 11 CONSTRUCTION  
 REQUIREMENTS FOR  
 EXISTING BUILDINGS -  
 DELETED . . . . . 115**

**CHAPTERS 12 through 19 RESERVED . . . . . 117**

*Part IV—Special Occupancies and Operations . . . . . 119*

**CHAPTER 20 AVIATION FACILITIES . . . . . 119**

Section  
 2001 General . . . . . 119  
 2002 Definitions . . . . . 119  
 2003 General Precautions . . . . . 119  
 2004 Aircraft Maintenance . . . . . 119  
 2005 Portable Fire Extinguishers . . . . . 120  
 2006 Aircraft Fueling . . . . . 120  
 2007 Helistops and Heliports . . . . . 125

**CHAPTER 21 DRY CLEANING . . . . . 127**

Section  
 2101 General . . . . . 127  
 2102 Definitions . . . . . 127  
 2103 Classifications . . . . . 127  
 2104 General Requirements . . . . . 127  
 2105 Operating Requirements . . . . . 127  
 2106 Spotting and Pretreating . . . . . 128  
 2107 Dry Cleaning Systems . . . . . 129  
 2108 Fire Protection . . . . . 129

**CHAPTER 22 COMBUSTIBLE DUST-  
 PRODUCING OPERATIONS . . . . . 131**

Section  
 2201 General . . . . . 131  
 2202 Definition . . . . . 131  
 2203 Precautions . . . . . 131  
 2204 Explosion Protection . . . . . 131

**CHAPTER 23 MOTOR FUEL-DISPENSING  
 FACILITIES AND REPAIR  
 GARAGES . . . . . 133**

Section  
 2301 General . . . . . 133  
 2302 Definitions . . . . . 133  
 2303 Location of Dispensing Devices . . . . . 133  
 2304 Dispensing Operations . . . . . 133  
 2305 Operational Requirements . . . . . 134  
 2306 Flammable and Combustible Liquid Motor  
 Fuel-dispensing Facilities . . . . . 135  
 2307 Liquefied Petroleum Gas Motor  
 Fuel-dispensing Facilities . . . . . 139  
 2308 Compressed Natural Gas Motor  
 Fuel-dispensing Facilities . . . . . 140  
 2309 Hydrogen Motor Fuel-dispensing  
 and Generation Facilities . . . . . 141  
 2310 Marine Motor Fuel-dispensing Facilities . . . . . 143  
 2311 Repair Garages . . . . . 145

**CHAPTER 24 FLAMMABLE FINISHES . . . . . 147**

Section  
 2401 General . . . . . 147  
 2402 Definitions . . . . . 147  
 2403 Protection of Operations . . . . . 147  
 2404 Spray Finishing . . . . . 149  
 2405 Dipping Operations . . . . . 153  
 2406 Powder Coating . . . . . 154  
 2407 Electrostatic Apparatus . . . . . 155  
 2408 Organic Peroxides and  
 Dual-component Coatings . . . . . 156  
 2409 Indoor Manufacturing of  
 Reinforced Plastics . . . . . 156  
 2410 Floor Surfacing and Finishing Operations . . . . . 157

**CHAPTER 25 FRUIT AND CROP RIPENING . . . . . 159**

Section  
 2501 General . . . . . 159  
 2502 Definitions . . . . . 159  
 2503 Ethylene Gas . . . . . 159  
 2504 Sources of Ignition . . . . . 159  
 2505 Combustible Waste . . . . . 159  
 2506 Ethylene Generators . . . . . 159  
 2507 Warning Signs . . . . . 159

**TABLE OF CONTENTS**

**CHAPTER 26 FUMIGATION AND  
INSECTICIDAL FOGGING..... 161**

Section

2601 General ..... 161  
2602 Definitions ..... 161  
2603 Fire Safety Requirements ..... 161

**CHAPTER 27 SEMICONDUCTOR  
FABRICATION FACILITIES ..... 163**

Section

2701 General ..... 163  
2702 Definitions ..... 163  
2703 General Safety Provisions ..... 163  
2704 Storage ..... 167  
2705 Use and Handling ..... 167

**CHAPTER 28 LUMBER YARDS AND  
AGRO-INDUSTRIAL,  
SOLID BIOMASS AND  
WOODWORKING FACILITIES. ... 173**

Section

2801 General ..... 173  
2802 Definitions ..... 173  
2803 General Requirements ..... 173  
2804 Fire Protection ..... 173  
2805 Plywood, Veneer and Composite  
Board Mills ..... 174  
2806 Log Storage Areas ..... 174  
2807 Storage of Wood Chips and Hogged Material  
Associated with Timber and Lumber  
Production Facilities ..... 174  
2808 Storage and Processing of Wood Chips,  
Hogged Material, Fines, Compost,  
Solid Biomass Feedstock and Raw Product  
Associated with Yard Waste,  
Agro-industrial and Recycling Facilities ..... 174  
2809 Exterior Storage of Finished  
Lumber and Solid Biofuel Products ..... 175

**CHAPTER 29 MANUFACTURE OF  
ORGANIC COATINGS..... 177**

Section

2901 General ..... 177  
2902 Definition ..... 177  
2903 General Precautions ..... 177  
2904 Electrical Equipment and Protection ..... 177  
2905 Process Structures ..... 178  
2906 Process Mills and Kettles ..... 178

2907 Process Piping ..... 178  
2908 Raw Materials in Process Areas ..... 179  
2909 Raw Materials and Finished Products ..... 179

**CHAPTER 30 INDUSTRIAL OVENS ..... 181**

Section

3001 General ..... 181  
3002 Definitions ..... 181  
3003 Location ..... 181  
3004 Fuel Piping ..... 181  
3005 Interlocks ..... 181  
3006 Fire Protection ..... 181  
3007 Operation and Maintenance ..... 181

**CHAPTER 31 TENTS AND OTHER  
MEMBRANE STRUCTURES ..... 183**

Section

3101 General ..... 183  
3102 Definitions ..... 183  
3103 Temporary Tents and Membrane  
Structures ..... 183  
3104 Temporary and Permanent Tents  
and Membrane Structures ..... 185  
3105 Temporary Stage Canopies ..... 187

**CHAPTER 32 HIGH-PILED  
COMBUSTIBLE STORAGE ..... 189**

Section

3201 General ..... 189  
3202 Definitions ..... 189  
3203 Commodity Classification ..... 189  
3204 Designation of High-piled Storage Areas ..... 191  
3205 Housekeeping and Maintenance ..... 193  
3206 General Fire Protection and  
Life Safety Features - Deleted ..... 193  
3207 Solid-piled and Shelf Storage - Deleted ..... 193  
3208 Rack Storage - Deleted ..... 193  
3209 Automated Storage - Deleted ..... 193  
3210 Specialty Storage - Deleted ..... 193

**CHAPTER 33 FIRE SAFETY DURING  
CONSTRUCTION AND  
DEMOLITION..... 195**

Section

3301 General ..... 195  
3302 Definitions ..... 195

3303 Temporary Heating Equipment . . . . . 195  
 3304 Precautions against Fire . . . . . 195  
 3305 Flammable and Combustible Liquids. . . . . 196  
 3306 Flammable Gases . . . . . 196  
 3307 Explosive Materials . . . . . 196  
 3308 Owner’s Responsibility for Fire Protection . . . . . 196  
 3309 Fire Reporting. . . . . 196  
 3310 Access for Fire Fighting . . . . . 197  
 3311 Means of Egress . . . . . 197  
 3312 Water Supply for Fire Protection . . . . . 197  
 3313 Standpipes . . . . . 197  
 3314 Automatic Sprinkler System . . . . . 197  
 3315 Portable Fire Extinguishers . . . . . 197  
 3316 Motorized Construction Equipment . . . . . 197  
 3317 Safeguarding Roofing Operations . . . . . 197

**CHAPTER 34 TIRE REBUILDING  
 AND TIRE STORAGE. . . . . 199**

Section  
 3401 General . . . . . 199  
 3402 Definitions . . . . . 199  
 3403 Tire Rebuilding. . . . . 199  
 3404 Precautions against Fire . . . . . 199  
 3405 Outdoor Storage . . . . . 199  
 3406 Fire Department Access . . . . . 200  
 3407 Fencing . . . . . 200  
 3408 Fire Protection . . . . . 200  
 3409 Indoor Storage Arrangement . . . . . 200

**CHAPTER 35 WELDING AND  
 OTHER HOT WORK . . . . . 201**

Section  
 3501 General . . . . . 201  
 3502 Definitions . . . . . 201  
 3503 General Requirements . . . . . 201  
 3504 Fire Safety Requirements . . . . . 201  
 3505 Gas Welding and Cutting . . . . . 202  
 3506 Electric Arc Hot Work . . . . . 203  
 3507 Calcium Carbide Systems . . . . . 203  
 3508 Acetylene Generators . . . . . 203  
 3509 Piping Manifolds and Hose Systems for  
     Fuel Gases and Oxygen . . . . . 203  
 3510 Hot Work on Flammable and  
     Combustible Liquid Storage Tanks . . . . . 204

**CHAPTER 36 MARINAS. . . . . 205**

Section  
 3601 Scope . . . . . 205  
 3602 Definitions . . . . . 205  
 3603 General Precautions . . . . . 205  
 3604 Fire Protection Equipment . . . . . 205  
 3605 Marine Motor Fuel-dispensing Facilities. . . . . 205

**CHAPTER 37 COMBUSTIBLE FIBERS. . . . . 207**

Section  
 3701 General. . . . . 207  
 3702 Definitions . . . . . 207  
 3703 General Precautions . . . . . 207  
 3704 Loose Fiber Storage . . . . . 207  
 3705 Baled Storage . . . . . 208

**CHAPTERS 38 through 49 RESERVED. . . . . 209**

*Part V—Hazardous Materials . . . . . 211*

**CHAPTER 50 HAZARDOUS MATERIALS—  
 GENERAL PROVISIONS . . . . . 211**

Section  
 5001 General. . . . . 211  
 5002 Definitions . . . . . 213  
 5003 General Requirements . . . . . 214  
 5004 Storage . . . . . 228  
 5005 Use, Dispensing and Handling. . . . . 231  
 5006 Hazardous Material Tank Vehicles . . . . . 235  
 5007 Radioactive Materials . . . . . 235

**CHAPTER 51 AEROSOLS . . . . . 237**

Section  
 5101 General. . . . . 237  
 5102 Definitions . . . . . 237  
 5103 Classification of Aerosol Products. . . . . 237  
 5104 Inside Storage of Aerosol Products . . . . . 237  
 5105 Outside Storage . . . . . 239  
 5106 Retail Display. . . . . 240  
 5107 Manufacturing Facilities . . . . . 241

**CHAPTER 52 RESERVED. . . . . 243**



**TABLE OF CONTENTS**

**CHAPTER 53 COMPRESSED GASES..... 245**

Section

5301 General ..... 245

5302 Definitions ..... 245

5303 General Requirements ..... 245

5304 Storage of Compressed Gases ..... 249

5305 Use and Handling of Compressed Gases ..... 249

5306 Medical Gases ..... 249

5307 Carbon Dioxide (CO<sub>2</sub>) Systems Used in  
Beverage Dispensing Applications ..... 250

5308 Compressed Gases Not Otherwise Regulated .... 251

5309 Storage of Portable Compressed Gas  
Containers Awaiting Use or Resale ..... 251

**CHAPTER 54 CORROSIVE MATERIALS..... 253**

Section

5401 General ..... 253

5402 Definition ..... 253

5403 General Requirements ..... 253

5404 Storage ..... 253

5405 Use ..... 253

**CHAPTER 55 CRYOGENIC FLUIDS ..... 255**

Section

5501 General ..... 255

5502 Definitions ..... 255

5503 General Requirements ..... 255

5504 Storage ..... 257

5505 Use and Handling ..... 258

**CHAPTER 56 EXPLOSIVES  
AND FIREWORKS ..... 261**

Section

5601 General ..... 261

5602 Definitions ..... 264

5603 Record Keeping and Reporting ..... 265

5604 Explosive Materials Storage and Handling ..... 265

5605 Manufacture, Assembly and Testing of  
Explosives, Explosive Materials and  
Fireworks ..... 271

5606 Small Arms Ammunition and Small  
Arms Ammunition Components ..... 274

5607 Blasting ..... 276

5608 Fireworks Display ..... 277

5609 Temporary Storage of Consumer Fireworks ..... 278

**CHAPTER 57 FLAMMABLE AND  
COMBUSTIBLE LIQUIDS ..... 279**

Section

5701 General ..... 279

5702 Definitions ..... 279

5703 General Requirements ..... 280

5704 Storage ..... 284

5705 Dispensing, Use, Mixing and Handling ..... 304

5706 Special Operations ..... 310

**CHAPTER 58 FLAMMABLE GASES  
AND FLAMMABLE  
CRYOGENIC FLUIDS ..... 321**

Section

5801 General ..... 321

5802 Definitions ..... 321

5803 General Requirements ..... 321

5804 Storage ..... 322

5805 Use ..... 322

5806 Flammable Cryogenic Fluids ..... 322

5807 Metal Hydride Storage Systems ..... 323

5808 Hydrogen Fuel Gas Rooms ..... 324

**CHAPTER 59 FLAMMABLE SOLIDS ..... 327**

Section

5901 General ..... 327

5902 Definitions ..... 327

5903 General Requirements ..... 327

5904 Storage ..... 327

5905 Use ..... 327

5906 Magnesium ..... 327

**CHAPTER 60 HIGHLY TOXIC AND  
TOXIC MATERIALS ..... 329**

Section

6001 General ..... 329

6002 Definitions ..... 329

6003 Highly Toxic and Toxic Solids and Liquids ..... 329

6004 Highly Toxic and Toxic Compressed Gases ..... 330

6005 Ozone Gas Generators ..... 335

**CHAPTER 61 LIQUEFIED  
PETROLEUM GASES ..... 337**

Section

6101 General ..... 337

6102 Definitions ..... 337

6103 Installation of Equipment . . . . .	337	6503 General Requirements . . . . .	355
6104 Location of LP-gas Containers . . . . .	337	6504 Storage and Handling . . . . .	355
6105 Prohibited Use of LP-gas . . . . .	339		
6106 Dispensing and Overfilling . . . . .	339	<b>CHAPTER 66 UNSTABLE</b>	
6107 Safety Precautions and Devices . . . . .	339	<b>(REACTIVE) MATERIALS . . . . .</b>	<b>357</b>
6108 Fire Protection . . . . .	339	Section	
6109 Storage of Portable LP-gas Containers		6601 General . . . . .	357
Awaiting Use or Resale . . . . .	339	6602 Definition . . . . .	357
6110 LP-gas Containers Not in Service . . . . .	341	6603 General Requirements . . . . .	357
6111 Parking and Garaging of		6604 Storage . . . . .	357
LP-gas Tank Vehicles . . . . .	341	6605 Use . . . . .	358
<b>CHAPTER 62 ORGANIC PEROXIDES . . . . .</b>	<b>343</b>	<b>CHAPTER 67 WATER-REACTIVE</b>	
Section		<b>SOLIDS AND LIQUIDS . . . . .</b>	<b>359</b>
6201 General . . . . .	343	Section	
6202 Definition . . . . .	343	6701 General . . . . .	359
6203 General Requirements . . . . .	343	6702 Definition . . . . .	359
6204 Storage . . . . .	343	6703 General Requirements . . . . .	359
6205 Use . . . . .	345	6704 Storage . . . . .	359
		6705 Use . . . . .	360
<b>CHAPTER 63 OXIDIZERS, OXIDIZING</b>		<b>CHAPTERS 68 through 79 RESERVED . . . . .</b>	<b>361</b>
<b>GASES AND OXIDIZING</b>		<i>Part VI—Referenced Standards . . . . .</i>	<i>363</i>
<b>CRYOGENIC FLUIDS . . . . .</b>	<b>347</b>	<b>CHAPTER 80 REFERENCED STANDARDS . . . . .</b>	<b>363</b>
Section		<i>Part VII—Appendices . . . . .</i>	<i>375</i>
6301 General . . . . .	347	<b>APPENDIX A BOARD OF</b>	
6302 Definitions . . . . .	347	<b>APPEALS - DELETED . . . . .</b>	<b>375</b>
6303 General Requirements . . . . .	347		
6304 Storage . . . . .	348	<b>APPENDIX B FIRE-FLOW REQUIREMENTS</b>	
6305 Use . . . . .	349	<b>FOR BUILDINGS - DELETED . . . . .</b>	<b>377</b>
6306 Liquid Oxygen in Home Health Care . . . . .	349		
		<b>APPENDIX C FIRE HYDRANT</b>	
		<b>LOCATIONS AND</b>	
		<b>DISTRIBUTION - DELETED . . . . .</b>	<b>379</b>
<b>CHAPTER 64 PYROPHORIC MATERIALS . . . . .</b>	<b>353</b>		
Section		<b>APPENDIX D FIRE APPARATUS</b>	
6401 General . . . . .	353	<b>ACCESS ROADS - DELETED . . . . .</b>	<b>381</b>
6402 Definition . . . . .	353		
6403 General Requirements . . . . .	353	<b>APPENDIX E HAZARD CATEGORIES . . . . .</b>	<b>383</b>
6404 Storage . . . . .	353	Section	
6405 Use . . . . .	354	E101 General . . . . .	383
		E102 Hazard Categories . . . . .	383
<b>CHAPTER 65 PYROXYLIN (CELLULOSE</b>			
<b>NITRATE) PLASTICS . . . . .</b>	<b>355</b>		
Section			
6501 General . . . . .	355		
6502 Definitions . . . . .	355		

**TABLE OF CONTENTS**

E103 Evaluation of Hazards . . . . . 387  
E104 Referenced Standards . . . . . 388

**APPENDIX F HAZARD RANKING . . . . . 389**

Section

F101 General . . . . . 389  
F102 Referenced Standards . . . . . 389

**APPENDIX G CRYOGENIC FLUIDS—  
WEIGHT AND VOLUME  
EQUIVALENTS . . . . . 391**

Section

G101 General . . . . . 391

**APPENDIX H HAZARDOUS MATERIALS  
MANAGEMENT PLAN (HMMP)  
AND HAZARDOUS MATERIALS  
INVENTORY STATEMENT (HMIS)  
INSTRUCTIONS . . . . . 393**

Section

H101 HMMP . . . . . 393  
H102 HMIS . . . . . 393  
H103 Emergency Plan . . . . . 394  
H104 Referenced Standards . . . . . 394

**APPENDIX I FIRE PROTECTION  
SYSTEMS—NONCOMPLIANT  
CONDITIONS . . . . . 401**

Section

I101 Noncompliant Conditions . . . . . 401  
I102 Referenced Standards . . . . . 402

**APPENDIX J BUILDING INFORMATION  
SIGN - DELETED . . . . . 403**

**APPENDIX K CONSTRUCTION  
REQUIREMENTS FOR  
EXISTING AMBULATORY  
CARE FACILITIES - DELETED . . . . 405**

**APPENDIX L REQUIREMENTS FOR  
FIRE FIGHTER AIR  
REPLENISHMENT SYSTEMS -  
DELETED . . . . . 407**

**APPENDIX M HIGH-RISE BUILDINGS—  
RETROACTIVE AUTOMATIC  
SPRINKLER  
REQUIREMENT - DELETED . . . . . 409**

**APPENDIX N INSPECTION, TESTING AND  
MAINTENANCE OF NON-WATER  
BASED KITCHEN FIRE  
SUPPRESSION SYSTEMS . . . . . 411**

Section

N101 General . . . . . 411

**INDEX . . . . . 415**

# Part I—Administrative

## CHAPTER 1

### SCOPE AND ADMINISTRATION

#### PART 1—GENERAL PROVISIONS

##### SECTION 101 SCOPE AND APPLICABILITY

[A] **101.1 Purpose.** The purpose of this code is to establish the minimum requirements consistent with nationally recognized good practice for providing a reasonable level of life safety and property protection from the hazards of fire, explosion, or dangerous conditions in new and existing buildings, incident to the occupancy and maintenance of structures and premises and to provide safety to fire fighters and emergency responders during emergency operation.

[A] **101.2 Scope.** This code establishes regulations affecting or relating to structures, processes, premises and safeguards regarding all of the following:

1. The proper maintenance of fire protection features required by the construction code in effect at the time of first occupancy; by the *Fire Safety Code* (N.J.A.C. 5:70-4); or by the provisions of other, applicable fire safety rules or ordinances lawfully promulgated by the State or by a local enforcing agency.
2. The hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices.
3. Conditions hazardous to life, property or public welfare in the occupancy of structures, premises, or mobile enclosed units.
4. Fire hazards in the structure or on the premises from occupancy or operation.
5. Conditions affecting the safety of fire fighters and emergency responders during emergency operations.

[A] **101.2.1 Appendices.** Deleted.

[A] **101.3 Applicability.** This subchapter shall be applicable to:

**101.3.1** All buildings, structures, and premises within this State, with the exception of owner-occupied one- and two-family dwellings used exclusively for dwelling purposes; and

**101.3.2** All fire safety hazards arising from the storage, handling or use of substances, materials or devices and arising from conditions hazardous to life, property or public welfare in the use or occupancy of buildings, structures, sheds, tents, lots or premises.

**101.3.2.1** Such handling or use shall be construed as referring, as well, to industrial processes and equipment

whether or not they are subject to *Uniform Construction Code* provisions.

**101.3.3** Buildings or other facilities built under and in full compliance with the codes in force at the time of construction or alteration thereof, and that have been properly maintained and used for such use as originally permitted, shall be exempt from the requirements of this subchapter pertaining to any of the following matters:

1. Fire protection of structural elements.
2. Isolation of hazardous operations.
3. In lieu of requiring the installation of safety devices or systems or when necessary to secure safety in addition thereto, the fire code official may prescribe limitations consistent with the provisions of nationally recognized standards, on the handling and storage of materials or substances, or upon operations that are liable to cause fire, contribute to the spread of fire, or endanger life or property.

**101.3.4** This code shall apply to any outdoor activities, uses or operations for which requirements are established by this code.

[A] **101.4 Severability.** If a section, subsection, sentence, clause or phrase of this code is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code.

[A] **101.5 Validity.** In the event any part or provision of this code is held to be illegal or void, this shall not have the effect of making void or illegal any of the other parts or provisions hereof, which are determined to be legal; and it shall be presumed that this code would have been adopted without such illegal or invalid parts or provisions.

##### SECTION 102 GENERAL PROVISIONS

[A] **102.1 General.** The following provisions are general provisions for precautions to be applied to the use of all properties.

**102.1.1** Any dangerous or hazardous conditions that are outlined in 1 through 10 below shall be removed or remedied in accordance with the provisions of N.J.A.C. 5:70-2.10:

1. Dangerous conditions that are liable to cause or contribute to the spread of fire in or on said premises, building or structure or endanger the occupants thereof.