# Jamaican Standard **2023 Jamaica Fire Code**

Date of First Publication: August 2023

ISBN: 978-1-960701-90-9 (soft-cover edition) ISBN: 978-1-960701-91-6 (PDF download)

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### **PREFACE**

#### Introduction

The 2023 Jamaica Fire Code (JFC) establishes minimum requirements for fire prevention and fire protection systems using prescriptive and performance-related provisions. It is founded on broad-based principles that make possible the use of new materials and new building system designs.

This 2023 edition is the first amalgamated rendering of the *Jamaica Fire Code* which combines all applicable clauses of the *International Fire Code*, the Jamaican Application Document as well as clauses from the 2018 Building Act of Jamaica and its Regulations. Prior to this 2023 version of the code requirements, this made usage of the code unwieldly and discourageable to the plethora of building construction stakeholders needed to become code users. With the vastly improved user friendliness of the JFC, usage of the code, further local customization of the IFC provisions as well as the growth in the detection, control and extinguishing of fires will increase exponentially. This growth and development will save many lives, prevent major and catastrophic property damage, and lower risks to the insurers of property that may ultimately result in lower property insurance costs.

The JFC is fully compatible with all of the Jamaica Codes published by the International Code Council® (ICC®) and the Bureau of Standards Jamaica, including the Jamaica Building Code, Jamaica Energy Conservation Code, Jamaica Existing Building Code, Jamaica Fuel Gas Code, Jamaica Mechanical Code, Jamaica Plumbing Code, Jamaica Private Sewage Disposal Code, Jamaica Property Maintenance Code and Jamaica Small Building/Residential Code.

The JFC is a set of regulations that form part of the Building Laws of Jamaica and so will be enforced by the Government of Jamaica through its Fire Brigade. Permits for commercial and industrial operations shall be procured directly from the Fire Brigade while permits for building fire alarm and protection systems shall be procured through the Municipal Corporations. The wide range of commercial operations requiring a fire permit under this code will surprise and even infuriate some persons. However, the following two things must be borne in mind:

- a) Every business that requires an operating permit from the Fire Brigade poses a real fire hazard.
- b) As the population and business density increases, the danger increases exponentially.

The JFC should be embraced and implemented as it will prove itself to be a lifesaver and a protector of property. Additionally, such implementation will help mitigate the negative financial consequences of losses caused by fire.

### **Development**

This 2023 edition of the JFC has been developed on a consensus basis by a very broad-based committee of building industry stakeholders. The World Bank, operating through the Jamaica Social Investment Fund, and the Bureau of Standards Jamaica hired local consultants to review every clause of the 2018 International Fire Code® and decide which ones could be adopted without change, which ones needed adaptation prior to adoption, and which ones are inappropriate for Jamaica and needed to be eliminated. They also identified where local clauses must be drafted to comply with local laws, acceptable local construction practices and economic realities. Under the contract, consultants were required to draft the changes to adaptable clauses and new clauses needed to address local issues as well as produce a hard metric JFC. The draft code incorporating all of the changes was presented to the broad-based committee for review, alteration where required and approval. Similar reviews and recommended changes were made by the ICC, the public and the Standards Council to arrive at a final product. A new edition such as this is to be promulgated every 6 years.

The JFC is founded on principles intended to establish provisions consistent with the scope of a fire code that adequately protects public health, safety and welfare; provisions that do not unnecessarily increase construction costs; provisions that do not restrict the use of new materials, product or methods of construction; and provisions that do not give preferential treatment to particular types or classes of materials, products or methods of construction unless they are unable to withstand the natural hazards likely in Jamaica.

2023 JAMAICA FIRE CODE iii

#### Maintenance

The Jamaica Fire Code is currently kept up to date through the review of hired consultants who propose changes to a broad-based Building Code Technical Review Committee (BCTRC) of the Bureau of Standards Jamaica. The composition of the BCTRC is strategically selected to include all key stakeholders in the construction industry, and thereby includes code enforcement officials, industry representatives, design professionals, contractor's representatives, consumer representatives, academia and other interested parties. Proposed changes are carefully considered by the BCTRC, which is free to approve proposals with or without changes or alteration; reject and discard proposed changes; or instruct the consultants to do further work of a stipulated nature and return with new proposals. The approved draft is next subjected to a 2-month statutory review and comment period by the public. Issues arising from that process are factored into the draft code before it goes to the BSJ's Standards Council (Board of Directors) for the final review and approval.

Based on the above paragraph it is clear that the BSJ's Code Development Process reflects principles of openness, transparency, balance, due process and consensus—the principles embodied in the Standards Act of Jamaica. The BSJ's standards development process is open to anyone; there is no cost to participate, and people can participate either by direct presentation to the BCTRC or on-line at the public comment stage.

The contents of this code are subject to change through the code development cycles and by any governmental entity that enacts the code into law. For more information regarding the code development process, contact the Standards Department of the Bureau of Standards Jamaica.

While the Code development procedure is thorough and comprehensive, the BSJ, its BCTRC, Standards Council members and others participating in the development of this code disclaim any liability resulting from the publication or use of the JFC, or from compliance or noncompliance with its provisions. The BSJ does not have the power or authority to police or enforce compliance with the contents of this code.

### **Code Development Committee Responsibilities**

In each code development cycle, proposed changes to the code are considered by the Building Code Technical Review Committee (BCTRC), which is tasked with the following responsibilities:

- 1. Consider the proposed changes to the code and decide whether they are technically sound and implementable in Jamaica without creating widespread disruption in the construction industry, the local and export market and the manufacturing industry.
- 2. Consider the advantages of the proposed changes and whether they represent real improvement on what exists.
- 3. Are the changes acceptable to the diverse stakeholders that committee members represent?
- 4. Are the proposed changes to be accepted as proposed, rejected or altered?
- 5. Are there other changes which should be considered beyond those presented by the consultants?

In establishing the BCTRC, the Standards Act requires that the broadest stakeholder's representation be built into this committee. The committee has been made large to facilitate the diverse codes and subject matter to be reviewed, ensure that meetings have the best chance of a quorum whenever they are called and the mandatory virtual meetings which the Covid Pandemic has imposed. The following are the persons who served on the BCTRC and the organization they represented:

- 1. Mr. Roosevelt DaCosta—Technical Secretary & Code Consultant—Endacosta Limited
- 2. Mrs. Lise Walter—Jamaica Institution of Engineers
- 3. Mr. Peter Jervis—Jamaica Institution of Engineers
- 4. Mr. Percival Stewart—Jamaica Institution of Engineers
- 5. Dr. Marva Blankson—Jamaica Institution of Engineers

iv 2023 JAMAICA FIRE CODE

- 6. Mr. Oneil Josephs Jamaica Institution of Engineers
- 7. Mr. Alex Bernard—Jamaica Institution of Engineers
- 8. Mr. Kevin Sinclair Jamaica Institution of Engineers
- 9. Mr. Noel Whyte—Jamaica Institution of Engineers
- 10. Mr. Gary Walters—Jamaica Institution of Engineers
- 11. Mr. Dwight Ricketts—Jamaica Institution of Engineers
- 12. Mr. Howard Chin—Jamaica Institution of Engineers
- 13. Mr. Karl Kaiser—Private Fire Consultant, Kaiser Fire Prevention
- 14. Mrs. Nilsia Johnson—Ministry of Health & Wellness, Environmental Health Unit
- 15. Mrs. Winsome Grant—Jamaica Fire Brigade
- 16. Mr. Sirnal Sangster—Jamaica Fire Brigade
- 17. Mr. Derval McKenzie—Jamaica Fire Brigade
- 18. Mr. Alfred Fennel—Jamaica Fire Brigade
- 19. Mr. Dwight Wilson—Ministry of Local Government & Community Development
- 20. Mr. Carl Drummond—Ministry of Local Government & Community Development
- 21. Mr. Shane Slater—Bureau of Standards Jamaica
- 22. Mr. Eldon Livingston—Bureau of Standards Jamaica
- 23. Mr. Wilfred Francis—Bureau of Standards Jamaica
- 24. Mr. Romaine McLean—Bureau of Standards Jamaica
- 25. Mr. Richard Lawrence—Bureau of Standards Jamaica
- 26. Mr. Sheldon Grant—Office of Disaster Preparedness and Emergency Management
- 27. Mr. David Allen—Code Consultant, Endacosta Limited
- 28. Mr. Noel DaCosta—Code Consultant, Endacosta Limited
- 29. Mrs. Erica Whondell Monroe—Legal Consultant, Endacosta Limited
- 30. Mr. David Chung—Code Consultant, Endacosta Limited
- 31. Dr. Yolanda Silvera—Academia, University of Technology, Jamaica
- 32. Mr. Chris Lue—Jamaica Institute of Architects
- 33. Mr. Lascelles Dixon—Consulting Architect, Lascelles Dixon Associates Limited
- 34. Dr. Paul Aiken—Academia, University of the West Indies
- 35. Mr. Africo Adams—Structural Engineering Consultant, SMADA Consultants Limited
- 36. Mr. Wayne Adams—Structural Engineering Consultant —SMADA Consultants Limited
- 37. Mr. Mark Taylor—Consulting Architect, Taylor Architects Limited
- 38. Mr. Burchell Solomon—Government Electrical Inspectorate

Now that the National Building Act is in place, and implementation of the code is mandatory, future code development cycles may begin with a public hearing in which the experience of code users (designers, developers, contractors and code enforcement officials) will be aired, problems experienced and solutions offered. This will enrich the local input into the code and make it even more relevant and applicable to the Jamaica Building Industry.

### **Marginal Markings**

Double vertical lines in the margin denote amendments and additions promulgated by the Bureau of Standards Jamaica modifying the 2018 *International Fire Code*.

2023 JAMAICA FIRE CODE v

### Coordination between the Jamaica Building and Fire Codes

Because the coordination of technical provisions is one of the benefits of adopting the ICC family of model codes, users will find the Jamaica codes to be a very flexible set of model documents since they are based on the ICC family of codes to an extremely large degree. To accomplish this flexibility some technical provisions are duplicated in some of the model code documents. While the *Jamaica Codes* are provided as a comprehensive set of model codes for the built environment, one code document (the *Jamaica Small Building/Residential Code*) is adopted as a stand-alone regulation. When one of the model documents is adopted as the basis of a stand-alone code, that code should provide a complete package of requirements with enforcement assigned to the entity for which the adoption is being made.

The model codes can also be adopted as a family of complementary codes. Since they are adopted together, there should be negligible or no conflict of any of the technical provisions. When multiple model codes are adopted in a jurisdiction it is important for the adopting authority to evaluate the provisions in each code document and determine how they will be enforced. It is important, therefore, to understand that where technical provisions are duplicated in multiple model documents that enforcement duties must be clearly assigned by the local jurisdiction.

#### **Italicized Terms**

Words and terms defined in Chapter 2, Definitions, are italicized where they appear in code text and the Chapter 2 definition applies. Where such words and terms are not italicized, common-use definitions apply. The words and terms selected have code-specific definitions that the user should read carefully to facilitate better understanding of the code.

### Adoption

The International Code Council and the Bureau of Standards Jamaica maintains a copyright in all of its codes and standards. Maintaining copyright allows ICC and BSJ to fund their missions through sales of books, in both print and electronic formats. The ICC and BSJ welcome adoption of its codes by jurisdictions that recognize and acknowledge the ICC's and BSJ's copyright in the code, and further acknowledge the substantial shared value of the public/private partnership for code development between jurisdictions and the ICC/BSJ.

vi 2023 JAMAICA FIRE CODE

## **EFFECTIVE USE OF THE JAMAICA FIRE CODE**

The Jamaica Fire Code (JFC) is a model code that regulates minimum fire safety requirements for new and existing buildings, facilities, storage and processes. The JFC addresses fire prevention, fire protection, life safety and safe storage issues as well as the safe use of hazardous materials in new and existing buildings, facilities and processes. The JFC provides a comprehensive approach for controlling hazards in all buildings and sites, regardless of whether the hazard is indoors or outdoors.

The JFC is a document that can be used for the design of fire systems. For example, before one constructs a building, the site must be provided with an adequate water supply for fire-fighting operations and a means of building access for emergency responders in the event of a medical emergency, fire or natural or technological disaster. Depending on the building's occupancy and uses, the IFC regulates the various hazards that may be housed within the building, including refrigeration systems, application of flammable finishes, fuelling of motor vehicles, high-piled combustible storage and the storage and use of hazardous materials. The JFC sets forth minimum requirements for these and other hazards and contains requirements for maintaining the life safety of building occupants, the protection of emergency responders, and to limit the damage to a building and its contents as a result of a fire, explosion or unauthorised hazardous material discharge.

As described, the JFC has many types of requirements for buildings and facilities. The applicability of these requirements varies. An understanding of the applicability of requirements, as addressed in Sections 102.1 and 102.2, is necessary. Section 102.1 addresses when the construction and design provisions are applicable whereas Section 102.2 addresses when the administrative, operational and maintenance provisions are applicable. Generally, the construction and design provisions only apply to new buildings or existing buildings and occupancies as addressed by Chapter 11. The administrative, maintenance and operational requirements are applicable to all buildings and facilities whether new or existing.

### **Arrangement and Format of the 2023 JFC**

Before applying the requirements of the JFC it is beneficial to understand its arrangement and format. The JFC, like other codes published by the Bureau of Standards Jamaica, 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 JFC chapters.

ORGANIZATION OF THE JFC			
Parts and Chapters	Subject Matter		
Part I—Chapters 1 and 2	Administrative and definitions		
Part II—Chapters 3 and 4	General safety provisions		
Part III—Chapters 5 through 12	Building and equipment design features		
Part III—Chapters 13 through 19	Reserved for future use		
Part IV—Chapters 20 through 39	Special occupancies and operations		
Part IV—Chapters 40 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 N	Adoptable and informational appendices		

2023 JAMAICA FIRE CODE vii

The JFC 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 JBC, as follows:

IFC Chapter	Subject
7	Fire and smoke protection features
8	Interior finish, decorative materials and furnishings
9	Fire protection and life safety 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 *Jamaica 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. This chapter, while zealously guarding the intent of this code to ensure safety, health and occupant's welfare in the built environment, prescribes a method to preserve the ingenuity and inventiveness that results in new design methodology, construction materials and methods.

**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, outdoor pallet storage 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 *Jamaica 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 *Jamaica Building Code* (JBC) focuses on built-in fire protection features, such as auto-

viii 2023 JAMAICA FIRE CODE

matic 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 *Jamaica 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 centres; fire department access to equipment and emergency responder radio coverage in buildings. As with other chapters of the *Jamaica 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), electrical equipment, wiring and hazards (Section 604), mechanical refrigeration (Section 605), elevator recall and maintenance (Section 606), commercial kitchen hoods (Section 607), commercial kitchen cooking oil storage (608) and hyperbaric facilities (609). As with other chapters of the *Jamaica Fire Code*, Section 602 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents. Note that building systems focused on energy systems and components are addressed by Chapter 12.

**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. Section 701 addresses the basics of what construction elements such as fire barriers and smoke barriers need to be maintained as well as defining the owner's responsibility. The rest of the chapter, Sections 703 through 706, deals with various fire and smoke protection features that must also be maintained. These features include penetrations, joint protection, door and window openings and duct and air transfer opening protection. As with other chapters of the *Jamaica 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 *Jamaica Building Code* (JBC), which regulates the interior finishes of new buildings. As with other chapters of the *Jamaica 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 and Life Safety 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. There are provisions relating to gas detection and associated alarms. Mass notification systems are also addressed. 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 *Jamaica Building Code;* however, this chapter also contains periodic testing criteria that are not contained in the JBC. In addition, the special fire protection system requirements based on use and occupancy found in Chapter 4 of the JBC are duplicated in Chapter 9 of this code as a user convenience. As with other chapters of the *Jamaica Fire Code,* Section 902 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

2023 JAMAICA FIRE CODE ix

**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 duplicate text from Chapter 10 of the JBC; however, the JFC contains an additional Section 1031 on maintenance of the means of egress system in existing buildings. Retroactive minimum means of egress requirements for existing buildings are found in Chapter 11.

**Chapter 11 Construction Requirements for Existing Buildings.** Chapter 11 applies to existing buildings constructed prior to the adoption of the code and intends to provide a minimum degree of fire and life safety to persons occupying existing buildings by providing for alterations to such buildings that do not comply with the minimum requirements of the *Jamaica Building Code*. Prior to the 2009 edition, its content existed in the IFC but in a random manner that was neither efficient nor user-friendly. In the 2007/2008 code development cycle, a code change (F294-07/08) was approved that consolidated the retroactive elements of IFC/2006 Sections 607, 701, 704, 903, 905, 907 and 3406 (then 2506) and all of then-Section 1027 (Means of Egress for Existing Buildings) into a single chapter for easier and more efficient reference and application to existing buildings. The provisions address general fire safety features such as requirements for fire alarm systems, CO detection and automatic sprinkler systems in some existing buildings, general means of egress, and finally, the chapter contains a section dedicated to existing Group I-2 occupancies. As with other chapters of the *Jamaica Fire Code*, Section 1102 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

**Chapter 12 Energy Systems.** Chapter 12 was added to address the current energy systems found in the JFC. It introduces a wide range of systems that generate and store energy in, on and adjacent to buildings and facilities. The expansion of such energy systems is related to meeting today's energy, environmental and economic challenges. Ensuring appropriate criteria to address the safety of such systems in building and fire codes is an important part of protecting the public at large, building occupants and emergency responders. Previously, requirements for energy systems, such as standby power systems, PV systems and stationary battery systems, were scattered about in various locations in Chapter 6, which addresses building services and systems. However, with the addition of fuel cells and capacitor energy storage systems to the JFC, a chapter dedicated to such related issues needed to be created. This chapter provides an appropriate location for the addition of future energy systems.

**Chapters 13 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 fuelling 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 *Jamaica 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 *Jamaica Fire Code*, Section 2102 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

2023 JAMAICA FIRE CODE

**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 *Jamaica 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 *Jamaica 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 vapours, controlling ignition sources and methods of reducing or controlling flammable vapours or combustible dusts at or near these operations are emphasized. As with other chapters of the *Jamaica 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 cropripening 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 *Jamaica 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 *Jamaica 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 *Jamaica 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, the outdoor storage of pallets and manufacturing and recycling 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 *Jamaica Fire Code*, Section 2802 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

2023 JAMAICA FIRE CODE xi

**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 hazard-ous operations are emphasized. As with other chapters of the *Jamaica 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 vapours given off by the materials being heated or to manage the impact if a fire should occur. As with other chapters of the *Jamaica 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, Temporary Structures 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 special event structures 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. This chapter also addresses outdoor assembly events, which are not limited to those events where tents or other membrane structures are used but are regulated due to the number of people, density of those people and hazards associated with large outdoor events related to egress, fire hazards from cooking and other related concerns. As with other chapters of the *Jamaica 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 3,650 mm (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, and 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 *Jamaica 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 JBC.

**Chapter 34 Tyre Rebuilding and Tyre Storage.** The requirements of Chapter 34 are intended to prevent or control fires and explosions associated with the remanufacture and storage of tyres and tyre byproducts. Additionally, the requirements are intended to minimize the impact of indoor and outdoor tyre 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 activi-

xii 2023 JAMAICA FIRE CODE

ties of this chapter focus on the actions of the occupants. As with other chapters of the *Jamaica 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, and 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 *Jamaica 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 Fibres.** Chapter 37 establishes the requirements for storage and handling of combustible fibres, including animal, vegetable and synthetic fibres, whether woven into textiles, baled, packaged or loose. Operations involving combustible fibres 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 *Jamaica Fire Code*, Section 3702 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

Chapter 38 Higher Education Laboratories. Chapter 38 is a new chapter addressing the unique needs of laboratories in higher education academic institutions. The advancement of technologies, science, medicine and our knowledge of the world often relies on having vibrant and successful academic institutions. These academic institutions often have chemistry, biology, medical, engineering and other laboratories where hazardous materials are used. The chapter addresses both new and existing buildings and new and existing laboratories. Applying the general hazardous material provisions has been difficult because of the ways these laboratories operate. Often there are many small laboratories that use very small quantities of hazardous materials that individually do not exceed the MAQs. However, in aggregate the quantities will exceed the MAQs and could result in the need for a Group H occupancy classification. It is believed that the lower density of hazardous materials often mitigates the overall risk. Therefore, this lower density along with a package of additional requirements (including the concept of laboratory suites with fire-resistance-rated separations) renders a Group H occupancy classification not necessary. This chapter also addresses the use of certain materials typically prohibited for existing buildings where located in buildings not protected throughout with a sprinkler system. These allowances come with certain safety measures such as the use of storage cabinets and fume hoods.

**Chapter 39 Processing and Extraction Facilities.** Chapter 39 is a new chapter focused on the processing and extraction of oils and fats from various plants. This process includes the extraction by use of solvent, desolventizing of the raw material and production of the miscella, and distillation of the solvent from the miscella and solvent recovery. The processes used are not necessarily typical hazardous material processes and often the systems and equipment associated with such processes are not listed. Due to the typical lack of listings, the systems and equipment need specific approvals for each installation. This chapter provides the tools to appropriately enforce the JFC to meet the unique needs of industry while providing the appropriate level of safety. This chapter has provisions for a technical report prepared by a registered design building professional. This chapter also requires site inspections to make sure equipment and systems are installed as designed and approved.

**Chapters 40 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 *Jamaica Fire Code*, Section 5002 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

2023 JAMAICA FIRE CODE xiii

**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 *Jamaica 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 facilities 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 *Jamaica 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. Although corrosive gases exist, most corrosive materials are solid or liquid 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 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 *Jamaica 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. Cryogens 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. Cryogens are used for many applications but specifically have had widespread use in the biomedical field and in space programmes. As with other chapters of the *Jamaica 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 *Jamaica 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 vapours 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 *Jamaica Fire Code*, Section 5702 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

xiv 2023 JAMAICA FIRE CODE

**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 *Jamaica Building Code*. As with other chapters of the *Jamaica 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, titanium, zirconium, hafnium, calcium, zinc, sodium, lithium, potassium, sodium/potassium alloys, uranium, thorium and plutonium, can be explosion hazards under the right conditions. 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 *Jamaica 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 *Jamaica 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 has resulted in the addition of propane dispensers to service stations throughout the country. As with other chapters of the *Jamaica 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 *Jamaica 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 *Jamaica Fire Code*, Section 6302 contains a list of terms that are defined in Chapter 2 and are applicable to the chapter contents.

2023 JAMAICA FIRE CODE xv

**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 *Jamaica 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, help reduce the exposure hazards associated with unstable (reactive) materials in a fire or other emergency. As with other chapters of the *Jamaica 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 *Jamaica 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.

xvi 2023 JAMAICA FIRE CODE

#### **PART VII-APPENDICES**

**Appendix A Board of Appeals/Appeals Tribunal.** This appendix contains optional criteria that, when adopted, provide jurisdictions with detailed appeals, board member qualifications and administrative procedures to supplement the basic requirements found in Section 108 of this code. Note that the provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

**Appendix B Fire-flow Requirements for Buildings.** This appendix provides a tool for the use of jurisdictions in establishing a policy for determining fire-flow requirements in accordance with Section 507.3. The determination of required fire flow is not an exact science, but having some level of information provides a consistent way of choosing the appropriate fire flow for buildings throughout a jurisdiction. The primary tool used in this appendix is a table that presents fire flow based on construction type and building area based on the correlation of the Insurance Services Office (ISO) of the United States method and the construction types used in the *Jamaica Building Code*.

**Appendix C Fire Hydrant Locations and Distribution.** This appendix focuses on the location and spacing of fire hydrants, which is important to the success of fire-fighting operations. The difficulty with determining the spacing of fire hydrants is that every situation is unique and has unique challenges. Finding one methodology for determining hydrant spacing is difficult. This particular appendix gives one methodology based on the required fire flow that fire departments can work with to set a policy for hydrant distribution around new buildings and facilities in conjunction with Section 507.5.

**Appendix D Fire Apparatus Access Roads.** This appendix contains more detailed elements for use with the basic access requirements found in Section 503, which gives some minimum criteria, such as a maximum length of 4,550 mm (150 feet) and a minimum width of 6,100 mm (20 feet), but in many cases does not state specific criteria. This appendix, like Appendices B and C, is a tool for jurisdictions looking for guidance in establishing access requirements and includes criteria for multiple-family residential developments, large one- and two-family subdivisions, specific examples for various types of turnarounds for fire department apparatus and parking regulatory signage.

**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.

**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.

**Appendix G Cryogenic Fluids—Weight and Volume Equivalents.** This appendix gives the fire code official and registered design building 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.

**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 or in use. The sample forms and available Safety Data Sheets (SDS) provide the basis for the evaluations. It is also a companion to JFC Sections 407.5 and 407.6, which provide the requirement that the HMIS and HMMP be submitted when required by the fire code official.

2023 JAMAICA FIRE CODE xvii

**Appendix I Fire Protection Systems—Noncompliant Conditions.** The purpose of this 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 *Jamaica 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.

**Appendix J Building Information Sign.** This appendix provides design, installation and maintenance requirements for a Building Information Sign (BIS), a fire service tool to be utilized in the crucial, initial response of fire fighters to a structure fire. The BIS placard is designed to be utilized within the initial response time frame of an incident to assist fire fighters in their tactical size-up of a situation as soon as possible after arrival on the scene of a fire emergency. The BIS design is in the shape of a fire service Maltese Cross and includes five spaces (the four wings plus the centrepiece of the cross symbol) in which information is placed about the tactical considerations of construction type and hourly rating, fire protection systems, occupancy type, content hazards and special features that could affect tactical decisions and operations.

**Appendix K Construction Requirements for Existing Ambulatory Care Facilities.** This appendix was created by the ICC Ad Hoc Committee on Healthcare (AHC) and its intent is to provide jurisdictions with an option for assessing minimum fire and life safety requirements for buildings containing ambulatory care facilities. While this appendix is written with the intent to apply retroactive minimum standards, the AHC recognized that the ambulatory care requirements are relatively recent additions to the *Jamaica Building Code*. For that reason, these requirements are presented as an appendix so that the adopting authority can exercise judgment in the adoption and application of this section. This appendix would also be useful for those local and state jurisdictions that are specifically focused on ensuring the safety for existing ambulatory care facilities by providing minimum criteria that could be used to bring older facilities into compliance with the current standards at the discretion of the adopting jurisdiction. The technical requirements are based on the current IBC language, which is consistent with the overall concept of the current federal requirements.

Appendix L Requirements for Fire Fighter Air Replenishment Systems. This appendix provides for the design, installation and maintenance of permanently installed fire fighter breathing air systems in buildings designated by the Jamaica Fire Brigade. Breathing air is critical for fire-fighting operations. Historically, fire departments have supplied air bottles by means of a "bottle brigade," whereby fire fighters manually transport air bottles up stairways, which is an extraordinarily fire fighter-intensive process and takes fire fighters away from their primary mission of rescue and fire fighting. Technology now exists to address the issue using in-building air supply systems. Fire fighter breathing air systems were introduced in the late 1980s and are now required in a number of communities throughout the United States. The system has been called a "standpipe for air" and consists of stainless steel, high-pressure piping that is supplied by on-site air storage or fire department air supply units. Air filling stations are then strategically located throughout the building allowing fire fighters to refill breathing air cylinders inside the fire building, negating the required "bottle brigade," and making more fire fighters available for search, rescue and fire suppression operations.

**Appendix M High-rise Buildings**—**Retroactive Automatic Sprinkler Requirement.** This appendix was created with the intent to provide an option for adoption by jurisdictions that choose to require existing high-rise buildings to be retrofitted with automatic sprinklers. Modern fire and building codes require complete automatic fire sprinkler protection and a variety of other safety features in new high-rise construction. Many older high-rise buildings lack automatic sprinkler protection and other basic fire protection features necessary to protect the occupants, emergency responders and the structure itself. Without complete automatic sprinkler protection, fire departments cannot provide the level of protection that high-rise buildings demand. Existing high-rise buildings that are not protected with automatic sprinklers represent a significant hazard to occupants and fire fighters, and can significantly impact a community's infrastructure and economic viability in the event of a fire loss.

xviii 2023 JAMAICA FIRE CODE

**Appendix N Indoor Trade Shows and Exhibitions.** This appendix was created to address the hazards that are associated with larger, more complex trade shows and exhibitions. Although many of these requirements are already included in various locations in this code, some of the more important items, such as requirements for covered booths and multiple-storey booths, are not. The intent is to have the requirements covering these events in a single location. The provisions are essentially a series of pointers to other locations within this code. This assists those organizing exhibitions and individual exhibitors unfamiliar with the fire code. The appendix can be adopted by jurisdictions looking for specific regulations on this subject or used as a guide where it is not.

#### **MEASUREMENT UNITS IN THIS CODE**

In Jamaica the legal unit of measurement is metric Systemme Internationale (SI). In accommodating our senior members of the building industry who prefer to work in the Inch Pound Units, the following approaches were made:

- 1. The metric or legal units of measurement are placed first in the JFC followed by the Inch Pound Unit.
- 2. THE METRIC SIZES USED ARE OF THE HARD VARIETY AND GENERALLY ARE NOT MATHEMATICAL EQUIVALENTS OF THE INCH POUND UNITS.
- 3. The metric sizes used have taken into account available market sizes.
- 4. The Inch Pound Unit sizes are those of the base document, the *International Fire Code*, and are based on easily available trade sizes in the United States market.
- 5. Users of this code shall bear in mind that all pipe and conduit diameter dimension is based on the United States Inch Pound Units (IPS) and is therefore the dimension of the pipe opening only, unlike the British IPS that specifies pipe diameter as the outer diameter (pipe opening plus twice the pipe thickness) dimension of the pipe or conduit. Since British pipe and conduit sizes are still manufactured and widely used throughout Jamaica, users must bear in mind that a nominal pipe or conduit size in the British IPS is vastly different from that of the US IPS. For example, a nominal size US pipe transferring fluid will carry a much larger volume than the same British quoted size if both operate at the same pressure.
- 6. Design Architects and Engineers shall use either the metric or Inch Pound Units only throughout a design project to avoid mistakes. Conversion to other unit of measurement may be made after the completion of all design calculations.

2023 JAMAICA FIRE CODE xix

XX 2023 JAMAICA FIRE CODE

# **TABLE OF CONTENTS**

Part I—Administrative1		311	Vacant Premises
		312	Vehicle Impact Protection 60
CHA	APTER 1 SCOPE AND ADMINISTRATION1	313	Fuelled Equipment 61
DAD	T 1—GENERAL PROVISIONS1	314	Indoor Displays 61
Secti		315	General Storage 61
101		316	Hazards to Fire Fighters
	Scope and General Requirements	317	Rooftop Gardens and Landscaped Roofs 64
102	Applicatinity	318	Laundry Carts
PAR	T 2—ADMINISTRATIVE PROVISIONS2	319	Mobile Food Preparation Vehicles 65
103	Department of Fire Prevention/	СПА	APTER 4 EMERGENCY PLANNING
	Jamaica Fire Brigade	СПА	AND PREPAREDNESS
104	General Authority and Responsibilities	Secti	
105	Permits	401	General
106	Fees	402	Definitions
107	Inspections	403	Emergency Preparedness Requirements
108	Maintenance	404	Fire Safety, Evacuation and Lockdown
109	Board of Appeals/Building Appeal Tribunal 14		Combined Plans
110	Violations	405	Emergency Evacuation Drills
111	Unsafe/Dangerous Buildings	406	Employee Training and Response Procedures 75
112	Stop Work Order/Stop Notice	407	Hazard Communication
113	Service Utilities		
СНА	APTER 2 DEFINITIONS	Part	III—Building and Equipment Design Features 77
Secti	on	CHA	APTER 5 FIRE SERVICE FEATURES 77
201	General	Secti	ion
202	General Definitions	501	General77
		502	Definitions
Part	II—General Safety Provisions53	503	Fire Apparatus Access Roads
CTT 1	PERIOD A CENTER LA PROMINENTE	504	Access to Building Openings and Roofs 78
	APTER 3 GENERAL REQUIREMENTS53	505	Premises Identification
Secti		506	Key Boxes
301	General	507	Fire Protection Water Supplies
302	Definitions	508	Fire Command Centre
303	Asphalt Kettles	509	Fire Protection and Utility Equipment
304	Combustible Waste Material		Identification and Access
305	Ignition Sources	510	Emergency Responder Radio Coverage
306	Motion Picture Projection Rooms and Film 55	CIL	A DIED ( DITH DING GEDVICES
307	Open Burning, Recreational Fires and Portable Outdoor Fireplaces	CHA	APTER 6 BUILDING SERVICES AND SYSTEMS
308	Open Flames	Secti	
309	Powered Industrial Trucks and Equipment 58	601	General85
310	Smoking	602	Definitions
	• •		

2023 JAMAICA FIRE CODE xxi

#### **TABLE OF CONTENTS**

603	Fuel-fired Appliances	904	Alternative Automatic	117
604	Electrical Equipment, Wiring and Hazards 88	005	Fire-extinguishing Systems	
605	Mechanical Refrigeration	905	Standpipe Systems	
606	Elevator Operation, Maintenance	906	Portable Fire Extinguishers	
- o =	and Fire Service Keys	907	Fire Alarm and Detection Systems	
607	Commercial Kitchen Hoods	908	Emergency Alarm Systems	
608	Commercial Kitchen Cooking Oil Storage 94	909	Smoke Control Systems	
609	Hyperbaric Facilities	910	Smoke and Heat Removal	
CILA	DTED 7 FIDE AND CMOVE	911	Explosion Control	
СНА	PROTECTION FEATURES	912	Fire Department Connections	
Section		913	Fire Pumps	. 147
701	General	914	Fire Protection Based on Special Detailed Requirements of Use and Occupancy	. 148
702	Definitions	915	Carbon Monoxide Detection	. 151
703	Penetrations	916	Gas Detection Systems	. 152
704	Joints and Voids	917	Mass Notification Systems	. 153
705	Door and Window Openings			
706	Duct and Air Transfer Openings96	CHA	APTER 10 MEANS OF EGRESS	. 155
707	Concealed Spaces	Section	on	
		1001	Administration	. 155
CHA	PTER 8 INTERIOR FINISH,	1002	Definitions	. 155
	DECORATIVE MATERIALS AND FURNISHINGS97	1003	General Means of Egress	. 156
Section		1004	Occupant Load	. 157
801	General	1005	Means of Egress Sizing	. 158
802	Definitions	1006	Numbers of Exits and Exit Access Doorways	. 159
803	Interior Wall and Ceiling Finish	1007	Exit and Exit Access Doorway Configuration	. 162
803	in Existing Buildings	1008	Means of Egress Illumination	. 163
804	Interior Wall and Ceiling Trim and	1009	Accessible Means of Egress	. 164
	Interior Floor Finish in New and	1010	Doors, Gates and Turnstiles	. 166
	Existing Buildings	1011	Stairways	. 175
805	Upholstered Furniture and Mattresses in	1012	Ramps	. 178
	New and Existing Buildings	1013		
806	Natural Decorative Vegetation in New and	1014	Handrails	. 180
007	Existing Buildings	1015	Guards	. 181
807	Decorative Materials and Artificial Decorative Vegetation in New and Existing Buildings 103	1016	Exit Access	. 183
808	Furnishings Other than Upholstered	1017	Exit Access Travel Distance	. 184
000	Furniture and Mattresses or Decorative	1018	Aisles	. 185
	Materials in New and Existing Buildings 105	1019		
		1020		
CHA	APTER 9 FIRE PROTECTION AND	1021	Egress Balconies	
_	LIFE SAFETY SYSTEMS107	1022		
Section		1023		
901	General	1023		
902	Definitions	1024		
903	Automatic Sprinkler Systems 110	1023	Lummous Egicss i aui Maikings	. 170

xxii 2023 JAMAICA FIRE CODE

1026	Horizontal Exits	CHAPTER 21 DRY CLEANING 247
1027	Exterior Exit Stairways and Ramps 192	Section
1028	Exit Discharge	2101 General
1029	Assembly	2102 Definitions
1030	Emergency Escape and Rescue	2103 Classifications
1031	Maintenance of the Means of Egress	2104 General Requirements
		2105 Operating Requirements
CHA	PTER 11 CONSTRUCTION	2106 Spotting and Pretreating
	REQUIREMENTS FOR EXISTING BUILDINGS205	2107 Dry Cleaning Systems
Section		2108 Fire Protection
	General	
1101	Definitions         205	CHAPTER 22 COMBUSTIBLE DUST-
	Fire Safety Requirements for	PRODUCING OPERATIONS 251
1103	Existing Buildings	Section
1104	Means of Egress for Existing Buildings	2201 General
	Construction Requirements for	2202 Definition
	Existing Group I-2	2203 Precautions
1106	Requirements for Outdoor Operations	2204 Additional Requirements
CHA]	PTER 12 ENERGY SYSTEMS223	CHAPTER 23 MOTOR FUEL-DISPENSING
Section		FACILITIES AND REPAIR GARAGES253
1201	General	Section
1202	Definitions	2301 General
1203	Emergency and Standby Power Systems 223	2302 Definitions
1204	Solar Photovoltaic Power Systems	2303 Location of Dispensing Devices
1205	Stationary Fuel Cell Power Systems	2304 Dispensing Operations
1206	Electrical Energy Storage Systems	2305 Operational Requirements
		2306 Flammable and Combustible Liquid Motor
CHA	PTERS 13 through 19 RESERVED	Fuel-dispensing Facilities
		2307 Liquefied Petroleum Gas Motor
Part 1	V—Special Occupancies and Operations 239	Fuel-dispensing Facilities
CILAI	DTED 20 AVIATION FACILITIES 220	2308 Compressed Natural Gas Motor
	PTER 20 AVIATION FACILITIES239	Fuel-dispensing Facilities
Section	General	2309 Hydrogen Motor Fuel-dispensing and Generation Facilities
2001	Definitions 239	
	General Precautions 239	2310 Marine Motor Fuel-dispensing Facilities 264
2003	Aircraft Maintenance. 239	2311 Repair Garages
2004		CHAPTER 24 FLAMMABLE FINISHES 269
2005 2006	Portable Fire Extinguishers	Section
2006	Aircraft Fuelling	2401 General
<b>200</b> /	Helistops and Heliports	2402 Definitions
		2403 Protection of Operations
		2404 Spray Finishing
		=

2023 JAMAICA FIRE CODE xxiii

#### **TABLE OF CONTENTS**

2405	Dipping Operations	2806	Log Storage Areas	. 296
2406	Powder Coating	2807	Storage of Wood Chips and Hogged Material	
2407	Electrostatic Apparatus		Associated with Timber and Lumber	206
2408	Organic Peroxides and	2000	Production Facilities	. 296
	Dual-component Coatings278	2808	Storage and Processing of Wood Chips, Hogged Material, Fines, Compost,	
2409	Indoor Manufacturing of		Solid Biomass Feedstock and Raw Product	
	Reinforced Plastics		Associated with Yard Waste,	
2410	Floor Surfacing and Finishing Operations 279		Agro-industrial and Recycling Facilities	. 297
CTT 4	DEED AT EDIVE AND COOR DIDENING AND	2809	Exterior Storage of Finished	
	PTER 25 FRUIT AND CROP RIPENING 281		Lumber and Solid Biofuel Products	. 297
Section		2810	Outdoor Storage of Pallets at Pallet Manufacturin	_
2501	General		and Recycling Facilities	. 298
2502	Definitions	СНА	PTER 29 MANUFACTURE OF	
2503	Ethylene Gas	CHA	ORGANIC COATINGS	. 299
2504	Sources of Ignition	Section		
2505	Combustible Waste	2901	General	299
2506	Ethylene Generators	2902	Definition	
2507	Warning Signs	2903	General Precautions	
		2904	Electrical Equipment and Protection	
CHA	PTER 26 FUMIGATION AND	2905	Process Structures	. 300
	INSECTICIDAL FOGGING283	2906	Process Mills and Kettles	. 300
Section	on	2907	Process Piping	. 300
2601	General	2908	Raw Materials in Process Areas	. 301
2602	Definitions	2909	Raw Materials and Finished Products	. 301
2603	Fire Safety Requirements	СНА	PTER 30 INDUSTRIAL OVENS	. 303
СНА	PTER 27 SEMICONDUCTOR	Section		
CIII	FABRICATION FACILITIES 285	3001	General	. 303
Section		3002	Definitions	
	General	3003	Location	. 303
	Definitions	3004	Fuel Piping	. 303
	General Safety Provisions	3005	Interlocks	
			Fire Protection.	
2704	Storage	3007	Operation and Maintenance	. 304
2705	Use and Handling	СНА	PTER 31 TENTS, TEMPORARY SPECIAL	
СНА	PTER 28 LUMBER YARDS AND	CHA	EVENT STRUCTURES AND OTHI	ER
CHA	AGRO-INDUSTRIAL,		MEMBRANE STRUCTURES	
	SOLID BIOMASS AND	Section	on	
	WOODWORKING FACILITIES295	3101	General	. 305
Section	on	3102	Definitions	
2801	General	3103	Temporary Tents and Membrane Structures	. 305
2802	Definitions	3104	Temporary and Permanent Tents	
2803	General Requirements	2105	and Membrane Structures	
2804	Fire Protection	3105	Temporary Special Event Structures	
2805	Plywood, Veneer and Composite	3106 3107	Outdoor Assembly Events	
_000	Board Mills	310/	Operational Requirements	. 510

xxiv 2023 JAMAICA FIRE CODE

CHA	PTER 32 HIGH-PILED	3407 Fencing
	COMBUSTIBLE STORAGE313	3408 Fire Protection
Section	on	3409 Indoor Storage Arrangement
3201	General	
3202	Definitions	CHAPTER 35 WELDING AND
3203	Commodity Classification	OTHER HOT WORK 337
3204	Designation of High-piled Storage Areas 325	Section
3205	Housekeeping and Maintenance	3501 General
3206	General Fire Protection and Life Safety Features	3502 Definitions
3207	Solid-piled and Shelf Storage	3503 General Requirements
3208	Rack Storage	3504 Fire Safety Requirements
3209	Automated Storage	3505 Gas Welding and Cutting
3210	Specialty Storage	3506 Electric Arc Hot Work
CITA	DEED 44 FIRE 64 FREEL BURNING	3507 Calcium Carbide Systems
СНА	PTER 33 FIRE SAFETY DURING CONSTRUCTION AND	
	DEMOLITION	3508 Acetylene Generators
Section		3509 Piping Manifolds and Hose Systems for Fuel Gases and Oxygen
3301	General	
3302	Definitions	3510 Hot Work on Flammable and Combustible Liquid Storage Tanks
3303	Temporary Heating Equipment	como abricio Enquia storago ramas
		CHAPTER 36 MARINAS 341
3304	Precautions Against Fire	Section
3305	Flammable and Combustible Liquids	3601 Scope
3306	Flammable Gases	3602 Definitions
3307	Explosive Materials 332	3603 General Precautions
3308	Owner's Responsibility for Fire Protection 332	3604 Fire Protection Equipment
3309	Fire Reporting	
3310	Access for Fire Fighting	3605 Marine Motor Fuel-dispensing Facilities 342
3311	Means of Egress	CHAPTER 37 COMBUSTIBLE FIBRES 343
3312	Water Supply for Fire Protection	Section Section
3313	Standpipes	3701 General
3314	Automatic Sprinkler System	
3315	Portable Fire Extinguishers	3702 Definitions
3316	Motorized Construction Equipment	3703 General Precautions
3317	Safeguarding Roofing Operations334	3704 Loose Fibre Storage
3318	Designer's Responsibility	3705 Baled Storage
СПУ	PTER 34 TYRE REBUILDING	CHAPTER 38 HIGHER EDUCATION
CIIA	AND TYRE STORAGE335	LABORATORIES345
Section	on	Section
3401	General	3801 General
3402	Definitions	3802 Definitions
3403	Tyre Rebuilding	3803 General Safety Provisions
3404	Precautions Against Fire	3804 Laboratory Suite Construction
3405	Outdoor Storage	3805 Nonsprinklered Laboratories
3406	Fire Department Access	3806 Existing Sprinklered Laboratories
		<u> </u>

2023 JAMAICA FIRE CODE XXV

#### **TABLE OF CONTENTS**

CHAPTER 39 PROCESSING AND EXTRAC		97
FACILITIES	349 Section	
Section	5401 General	97
3901 General	3 102 Bernitton	97
3902 Definitions		97
3903 Processing and Extraction	349 5404 Storage 3	97
3904 Systems and Equipment		97
3905 Safety Systems		
CHAPTERS 40 A A A PERFECTION	CHAPTER 55 CRYOGENIC FLUIDS	199
CHAPTERS 40 through 49 RESERVED	5501 General	200
Part V—Hazardous Materials		
int, industrial	5503 General Requirements	
CHAPTER 50 HAZARDOUS MATERIALS-		
GENERAL PROVISIONS	355 5504 Storage 5505 Use and Handling 4	
Section	5505 OSC and Handing	02
5001 General	CHAITER 30 EXILOSIVES	
5002 Definitions	357 <b>AND FIREWORKS 4</b>	105
5003 General Requirements	358 Section	
5004 Storage	372 5601 General	105
5005 Use, Dispensing and Handling	375 5602 Definitions	108
	5603 Record Keeping and Reporting 4	
CHAPTER 51 AEROSOLS	2 2 Empressive framesium sveruge und framumg	109
Section	5605 Manufacture, Assembly and Testing of	
5101 General	Einorranka 4	115
5102 Definitions	5606 Small Arms Ammunition and Small	113
5103 Classification of Aerosol Products	Arms Ammunition Components 4	118
5104 Inside Storage of Aerosol Products	560/ Blasting	120
5105 Outside Storage	3008 FILEWOLKS DISPLAY4	120
5106 Retail Display	5009 Temporary Storage of Consumer Fileworks 4	122
5107 Manufacturing Facilities		
CHAPTER 52 RESERVED	CHAPTER 57 FLAMMABLE AND	122
CHAITER 32 RESERVED	387 COMBUSTIBLE LIQUIDS 4 Section	123
CHAPTER 53 COMPRESSED GASES		122
Section	5701 General	
5301 General		
5302 Definitions		
5303 General Requirements	3704 Storage 4	
5304 Storage of Compressed Gases	e , ce	
5305 Use and Handling of Compressed Gases	Special operations	
5306 Medical Gases	ever on demand income i demang eperations	.55
5307 Compressed Gases Not Otherwise Regulate		

xxvi 2023 JAMAICA FIRE CODE

CHA	PTER 58 FLAMMABLE GASES AND FLAMMABLE CRYOGENIC FLUIDS465	6111 Parking and Garaging of  LP-gas Tank Vehicles
Section	on	CHAPTER 62 ORGANIC PEROXIDES 489
5801	General	Section
5802	Definitions	6201 General
5803	General Requirements	6202 Definition
5804	Storage	6203 General Requirements
5805	Use	6204 Storage
5806	Flammable Cryogenic Fluids	6205 Use
5807	Metal Hydride Storage Systems	
5808	Hydrogen Fuel Gas Rooms	CHAPTER 63 OXIDIZERS, OXIDIZING GASES AND OXIDIZING
CHA	PTER 59 FLAMMABLE SOLIDS471	CRYOGENIC FLUIDS 493
Section	on	Section 402
5901	General	6301 General
5902	Definitions	6302 Definitions       493         6303 General Requirements       493
5903	General Requirements	6304 Storage
5904 5905	Storage       471         Use       471	6305 Use
5906	Magnesium	6306 Liquid Oxygen in Home Health Care
СНА	PTER 60 HIGHLY TOXIC AND TOXIC MATERIALS475	CHAPTER 64 PYROPHORIC MATERIALS 499 Section
Section	on	6401 General
6001	General	6402 Definition
6002	Definitions	6403 General Requirements
6003	Highly Toxic and Toxic Solids and Liquids 475	6404 Storage
6004	Highly Toxic and Toxic Compressed Gases 476	6405 Use
6005	Ozone Gas Generators	
СНА	PTER 61 LIQUEFIED PETROLEUM GASES483	CHAPTER 65 PYROXYLIN (CELLULOSE NITRATE) PLASTICS 501 Section
Section	on	6501 General
6101	General	6502 Definitions
6102	Definitions	6503 General Requirements. 501
6103	Installation of Equipment	6504 Storage and Handling
6104	Location of LP-gas Containers	0304 Storage and Handring
6105	Prohibited Use of LP-gas	CHAPTER 66 UNSTABLE
6106	Dispensing and Overfilling	(REACTIVE) MATERIALS 503
6107	Safety Precautions and Devices	Section
6108	Fire Protection	6601 General 503
6109	Storage of Portable LP-gas Containers	6602 Definition
-	Awaiting Use or Resale	6603 General Requirements503
6110	LP-gas Containers Not in Service	6604 Storage
		6605 Use

2023 JAMAICA FIRE CODE xxvii

#### **TABLE OF CONTENTS**

CHAI	PTER 67	WATER-REACTIVE SOLIDS AND LIQUIDS505		Fire Apparatus Access Roads ble-family Residential Developments	
Sectio	'n	SOLIDS II (2 LIQUIDS	-	or Two-family Residential Developments.	
		505		enced Standards	
6702		on			
6703		Requirements	APPENDIX	E HAZARD CATEGORIES	. 537
6704		505	Section		
	_	506	E101 Gener	al	. 537
0703	030			d Categories	
CHAI	PTERS 68	8 through 79 RESERVED507		ation of Hazards	
				enced Standards	
Part V	/I—Refer	enced Standards 509	L104 Refere	Silved Standards	. 542
	,		APPENDIX	F HAZARD RANKING	. 543
CHAI	PTER 80	REFERENCED STANDARDS 509	Section		
				al	543
Part V	/II—Appe	endices		enced Standard	
			F102 Refere	enced Standard	. 343
APPE	ENDIX A	BOARD OF APPEALS/	APPENDIX	G CRYOGENIC FLUIDS—	
~ .		APPEALS TRIBUNAL525	MILIDIA	WEIGHT AND VOLUME	
Sectio				EQUIVALENTS	. 545
A101	General	525	Section		
A DDE	NDIV D	FIRE-FLOW REQUIREMENTS	G101 Gener	al	. 545
AFFE	ANDIA D	FOR BUILDINGS527			
Sectio	n	TOR BOILDINGS	APPENDIX	H HAZARDOUS MATERIALS	
		527		MANAGEMENT PLAN (HMMP)	
		ons		AND HAZARDOUS MATERIALS	· <b>C</b> \
		ations		INVENTORY STATEMENT (HMI INSTRUCTIONS	
		v Calculation Area	g .:	INSTRUCTIONS	. 547
		v Requirements for Buildings 527	Section	_	
		eed Standards		P	
APPE	ENDIX C	FIRE HYDRANT LOCATIONS	_	gency Plan	
		AND DISTRIBUTION531	H104 Refere	enced Standard	. 548
Sectio	n				
C101	General	531	APPENDIX		
C102	Number	of Fire Hydrants531		SYSTEMS—NONCOMPLIANT CONDITIONS	555
C103	Fire Hyd	Irant Spacing	Castian	CONDITIONS	. 333
C104	Consider	ration of Existing Fire Hydrants532	Section	I' (C. I''	<i></i>
C105	Reference	eed Standard		ompliant Conditions	
			I102 Refere	enced Standards	. 556
APPE	NDIX D	FIRE APPARATUS	A DDESIDIS	I DIHIDING	
		ACCESS ROADS533	APPENDIX	J BUILDING INFORMATION SIGN	557
Sectio	n		Section	INFORMATION SIGN	. 337
D101	General	533	Section	1	
	-	1 Access		al	
		m Specifications	J102 Refere	enced Standards	. 559
D104	Commer	cial and Industrial Developments 534			

xxviii 2023 JAMAICA FIRE CODE

APPE	CNDIX K CONSTRUCTION REQUIREMENTS FOR EXISTING AMBULATORY CARE FACILITIES	561
Sectio		
	General	561
	Fire Safety Requirements for Existing Ambulatory Care Facilities	
K103	Incidental Uses in Existing Ambulatory Care Facilities	
K104	Means of Egress Requirements for Existing Ambulatory Care Facilities	
K105	Referenced Standards	
APPE	CNDIX L REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS.	565
Section		500
L101	General	565
L102	Definitions	
L102	Permits.	
L104	Design and Installation	
L105	Acceptance Tests.	
L106	Inspection, Testing and Maintenance	
L107	Referenced Standards	
APPE	ENDIX M HIGH-RISE BUILDINGS— RETROACTIVE AUTOMATIC SPRINKLER REQUIREMENT	560
Section		507
	Scope	569
	Where Required.	
	Compliance	
APPE	ENDIX N INDOOR TRADE SHOWS AND EXHIBITIONS	571
Section	on	
N101	General	571
N102	Definitions	571
N103	Public Safety for Events	572
N104	Interior Finish and Decorative Materials	572
N105	Multiple-level Booths	572
N106	Covered Booths	
N107	Display and Storage of Hazardous and Combustible Materials	
N108	Means of Egress	
N109		
INDE	V	575

2023 JAMAICA FIRE CODE xxix