2024 International Fuel Gas Code®

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NEW DESIGN FOR THE 2024 INTERNATIONAL CODES































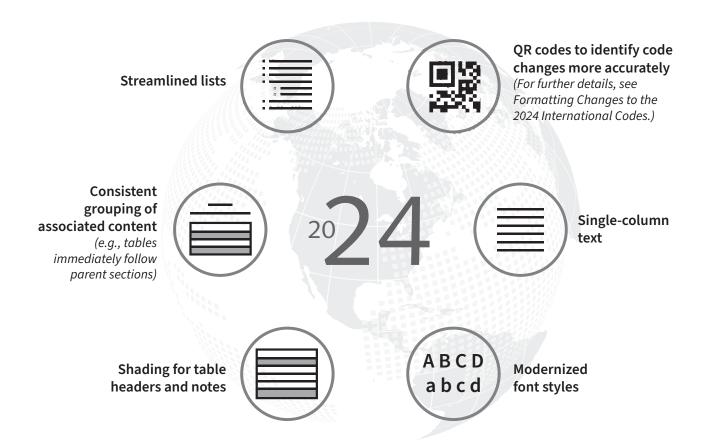


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The 2024 International Codes® (I-Codes®) have undergone substantial formatting changes as part of the digital transformation strategy of the International Code Council® (ICC®) to improve the user experience. The resulting product better aligns the print and PDF versions of the I-Codes with the ICC's Digital Codes® content.

The changes, promoting a cleaner, more modern look and enhancing readability and sustainability, include:



More information can be found at iccsafe.org/design-updates.



PREFACE

FORMATTING CHANGES TO THE 2024 INTERNATIONAL CODES

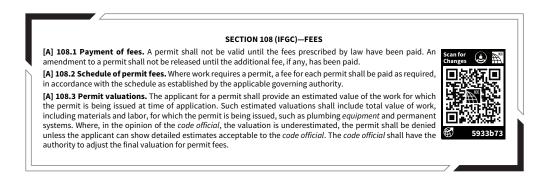
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Replacement of Marginal Markings with QR Codes

Through 2021, print editions of the I-Codes identified technical changes from prior code cycles with marginal markings [solid vertical lines for new text, deletion arrows (➡), asterisks for relocations (*)]. The 2024 I-Code print editions replace the marginal markings with QR codes to identify code changes more precisely.

A QR code is placed at the beginning of any section that has undergone technical revision. If there is no QR code, there are no technical changes to that section.

In the following example from the 2024 International Fuel Gas Code® (IFGC®), a QR code indicates there are changes to Section 108 from the 2021 IFGC. Note that the change may occur in the main section or in one or more subsections of the main section.



To see the code changes, the user need only scan the QR code with a smart device. If scanning a QR code is not an option, changes can be accessed by entering the 7-digit code beneath the QR code at the end of the following URL: qr.iccsafe.org/ (in the above example, "qr.iccsafe.org/5933b73"). Those viewing the code book via PDF can click on the QR code.

All methods take the user to the appropriate section on ICC's Digital Codes website, where technical changes from the prior cycle can be viewed. Digital Codes Premium subscribers who are logged in will be automatically directed to the Premium view. All other users will be directed to the Digital Codes Basic free view. Both views show new code language in blue text along with deletion arrows for deleted text and relocation markers for relocated text.

Digital Codes Premium offers additional ways to enhance code compliance research, including revision histories, commentary by code experts and an advanced search function. A full list of features can be found at codes.iccsafe.org/premium-features.

ACCESSING ADDITIONAL FEATURES VIA REGISTRATION OF BOOK

Beginning with the 2024 International Mechanical Code® (IMC®) and the 2024 International Plumbing Code® (IPC®), users will be able to validate the authenticity of their book and register it with the ICC to receive incentives. Digital Codes Premium (codes.iccsafe.org) provides advanced features and exclusive content to enhance code compliance. To validate and register, the user will tap the ICC tag (pictured here and located on the front cover) with a near-field communication (NFC) compatible device. Visit iccsafe.org/nfc for more information and troubleshooting tips regarding NFC tag technology.



ABOUT THE I-CODES

The 2024 I-Codes, published by the ICC, are 15 fully compatible titles intended to establish provisions that adequately protect public health, safety and welfare; that do not unnecessarily increase construction costs; that do not restrict the use of new materials, products or methods of construction; and that do not give preferential treatment to particular types or classes of materials, products or methods of construction.

The I-Codes are updated on a 3-year cycle to allow for new construction methods and technologies to be incorporated into the codes. Alternative materials, designs and methods not specifically addressed in the I-Code can be approved by the building official where the proposed materials, designs or methods comply with the intent of the provisions of the code.

The I-Codes are used as the basis of laws and regulations in communities across the US and in other countries. They are also used in a variety of nonregulatory settings, including:

- Voluntary compliance programs.
- The insurance industry.
- Certification and credentialing for building design, construction and safety professionals.

- · Certification of building and construction-related products.
- Facilities management.
- "Best practices" benchmarks for designers and builders.
- College, university and professional school textbooks and curricula.
- Reference works related to building design and construction.

Code Development Process

The code development process regularly provides an international forum for building professionals to discuss requirements for building design, construction methods, safety, performance, technological advances and new products. Proposed changes to the I-Codes, submitted by code enforcement officials, industry representatives, design professionals and other interested parties, are deliberated through an open code development process in which all interested and affected parties may participate.

Openness, transparency, balance, due process and consensus are the guiding principles of both the ICC Code Development Process and OMB Circular A-119, which governs the federal government's use of private-sector standards. The ICC process is open to anyone without cost. Remote participation is available through cdpAccess®, the ICC's cloud-based app.

In order to ensure that organizations with a direct and material interest in the codes have a voice in the process, the ICC has developed partnerships with key industry segments that support the ICC's important public safety mission. Some code development committee members were nominated by the following industry partners and approved by the ICC Board:

- American Gas Association (AGA)
- · American Institute of Architects (AIA)
- American Society of Plumbing Engineers (ASPE)
- International Association of Fire Chiefs (IAFC)
- National Association of Home Builders (NAHB)
- National Association of State Fire Marshals (NASFM)
- National Council of Structural Engineers Association (NCSEA)
- National Multifamily Housing Council (NMHC)
- Plumbing Heating and Cooling Contractors (PHCC)
- Pool and Hot Tub Alliance (PHTA) formerly The Association of Pool and Spa Professionals (APSP)

Code development committees evaluate and make recommendations regarding proposed changes to the codes. Their recommendations are then subject to public comment and council-wide votes. The ICC's governmental members—public safety officials who have no financial or business interest in the outcome—cast the final votes on proposed changes.

The I-Codes are subject to change through future code development cycles and by any governmental entity that enacts the code into law. For more information regarding the code development process, contact the Codes and Standards Development Department of the ICC at iccsafe.org/products-and-services/i-codes/code-development/.

While the I-Code development procedure is thorough and comprehensive, the ICC, its members and those participating in the development of the codes expressly disclaim any liability resulting from the publication or use of the I-Codes, or from compliance or noncompliance with their provisions. NO WARRANTY OF ANY KIND, IMPLIED, EXPRESSED OR STATUTORY, IS GIVEN WITH RESPECT TO THE I-CODES. The ICC does not have the power or authority to police or enforce compliance with the contents of the I-Codes.

Code Development Committee Responsibilities (Letter Designations in Front of Section Numbers)

In each cycle, proposed changes are considered by the Code Development Committee assigned to a specific code or subject matter. Committee Action Hearings result in recommendations regarding a proposal to the voting membership. Where changes to a code section are not considered by that code's own committee, the code section is preceded by a bracketed letter designation identifying a different committee. Bracketed letter designations for the I-Code committees are:

- [A] = Administrative Code Development Committee
- [BE] = IBC—Egress Code Development Committee
- [BF] = IBC—Fire Safety Code Development Committee
- [BG] = IBC—General Code Development Committee
- [BS] = IBC—Structural Code Development Committee
- [E] = Developed under the ICC's Standard Development Process
- [EB] = International Existing Building Code Development Committee
- [F] = International Fire Code Development Committee
- [FG] = International Fuel Gas Code Development Committee
- [M] = International Mechanical Code Development Committee
- [P] = International Plumbing Code Development Committee

[SP] = International Swimming Pool and Spa Code Development Committee

For the development of the 2027 edition of the I-Codes, the ICC Board of Directors approved a standing motion from the Board Committee on the Long-Term Code Development Process to revise the code development cycle to incorporate two committee action hearings for each code group. This change expands the current process from two independent 1-year cycles to a single continuous 3-year cycle. There will be two groups of code development committees and they will meet in separate years. The current groups will be reworked. With the energy provisions of the *International Energy Conservation Code®* (IECC®) and Chapter 11 of the *International Residential Code®* (IRC®) now moved to the Code Council's Standards Development Process, the reduced volume of code changes will be distributed between Groups A and B.

Code change proposals submitted for code sections that have a letter designation in front of them will be heard by the respective committee responsible for such code sections. Because different committees hold Committee Action Hearings in different years, proposals for most codes will be heard by committees in both the 2024 (Group A) and the 2025 (Group B) code development cycles. It is very important that anyone submitting code change proposals understands which code development committee is responsible for the section of the code that is the subject of the code change proposal.

Please visit the ICC website at iccsafe.org/products-and-services/i-codes/code-development/current-code-development-cycle for further information on the Code Development Committee responsibilities as it becomes available.

Coordination of the I-Codes

The coordination of technical provisions allows the I-Codes to be used as a complete set of complementary documents. Individual codes can also be used in subsets or as stand-alone documents. Some technical provisions that are relevant to more than one subject area are duplicated in multiple model codes.

Italicized Terms

Words and terms defined in Chapter 2, Definitions, are italicized where they appear in code text and the Chapter 2 definitions apply. Although care has been taken to ensure applicable terms are italicized, there may be instances where a defined term has not been italicized or where a term is italicized but the definition found in Chapter 2 is not applicable. For example, Chapter 2 of the *International Building Code*® (IBC®) contains a definition for "*Listed*" that is applicable to equipment, products and services. The term "listed" is also used in that code to refer to a list of items within the code or within a referenced document. For the latter, the Chapter 2 definition would not be applicable.

Adoption of International Code Council Codes and Standards.

The International Code Council maintains a copyright in all of its codes and standards. Maintaining copyright allows the Code Council to fund its mission through sales of books in both print and digital format. The Code Council welcomes incorporation by reference of its codes and standards by jurisdictions that recognize and acknowledge the Code Council's copyright in the codes and standards, and further acknowledge the substantial shared value of the public/private partnership for code development between jurisdictions and the Code Council. By making its codes and standards available for incorporation by reference, the Code Council does not waive its copyright in its codes and standards.

The Code Council's codes and standards may only be adopted by incorporation by reference in an ordinance passed by the governing body of the jurisdiction. "Incorporation by reference" means that in the adopting ordinance, the governing body cites only the title, edition, relevant sections or subsections (where applicable), and publishing information of the model code or standard, and the actual text of the model code or standard is not included in the ordinance (see graphic, "Adoption of International Code Council Codes and Standards"). The Code Council does not consent to the reproduction of the text of its codes or standards in any ordinance. If the governing body enacts any changes, only the text of those changes or amendments may be included in the ordinance.



every three years.

Step 2

The International Code Council publishes the code both in print and online.

Step 4

The adoption timeframe is set.

Step 5

The adoption timeframe working on projects.

The Code Council also recognizes the need for jurisdictions to make laws accessible to the public. Accordingly, all I-Codes and I-Standards, along with the laws of many jurisdictions, are available to view for free at codes.iccsafe.org/codes/i-codes. These documents may also be purchased, in both digital and print versions, at shop.iccsafe.org.

To facilitate adoption, some I-Code sections contain blanks for fill-in information that needs to be supplied by the adopting jurisdiction as part of the adoption legislation. For example, the IFGC contains:

Section 101.1. Insert: [NAME OF JURISDICTION]

Section 113.4. Insert: [SPECIFIC OFFENCE, AMOUNT, NUMBER OF DAYS]

For further information or assistance with adoption, including a sample ordinance, jurisdictions should contact the Code Council at incorporation@iccsafe.org.

For a list of frequently asked questions (FAQs) addressing a range of foundational topics about the adoption of model codes by jurisdictions and to learn more about the Code Council's code adoption resources, scan the QR code or visit iccsafe.org/code-adoption-resources.



INTRODUCTION TO THE INTERNATIONAL FUEL GAS CODE

The International Fuel Gas Code® (IFGC®) establishes minimum requirements for fuel gas systems and gas-fired appliances using prescriptive and performance-related provisions. It is founded on broad-based principles that make possible the use of new materials and new fuel gas system and appliance designs.

The IFGC is a model code that regulates the design and installation of fuel gas distribution piping and systems, appliances, appliance venting systems, combustion air provisions, gaseous hydrogen systems and motor vehicle gaseous-fuel-dispensing stations. The definition of "Fuel gas" includes natural, liquefied petroleum and manufactured gases and mixtures of these gases.

The purpose of the code is to establish the minimum acceptable level of safety and to protect life and property from the potential dangers associated with the storage, distribution and usage of fuel gases and the byproducts of combustion of such fuels. The code also protects the personnel that install, maintain, service and replace the systems and appliances addressed by this code.

With the exception of Section 401.1.1, the IFGC does not address utility-owned piping and equipment (i.e., anything upstream of the point of delivery). See the definition of "Point of delivery" and Section 501.8 for other code coverage exemptions.

The IFGC is primarily a specification-oriented (prescriptive) code with some performance-oriented text. For example, Section 503.3.1 is a performance statement, but Chapter 5 contains prescriptive requirements that will cause Section 503.3.1 to be satisfied.

The IFGC applies to all occupancies, including one- and two-family dwellings and townhouses. The *IRC* is referenced for coverage of one- and two-family dwellings and townhouses; however, in effect, the IFGC provisions are still applicable because the fuel gas chapter in the IRC (Chapter 24) is composed entirely of text extracted from the IFGC. Therefore, whether using the IFGC or the *IRC*, the fuel gas provisions will be identical.

Alternative materials, designs and methods of construction not specifically addressed in this code may be approved by the code official where the proposed materials, designs and methods of construction comply with the intent of the provisions of this code (see Section 104.2.3).

ARRANGEMENT AND FORMAT OF THE 2024 IFGC

The format of the IFGC allows each chapter to be devoted to a particular subject with the exception of Chapter 3, which contains general subject matters that are not extensive enough to warrant their own independent chapter.

The following table shows how the IFGC is divided. The chapter synopses detail the scope and intent of the provisions of the IFGC.

CHAPTER TOPICS				
Chapters	Subjects			
1 and 2	Administration and Definitions			
3	General Regulations			
4	Gas Piping Installations			
5	Chimneys and Vents			
6	Specific Appliances			
7	Gaseous Hydrogen			
8	Referenced Standards			
Appendix A	Gas Piping Capacities and Sizing			
Appendix B	Venting System Sizing			
Appendix C	Safety Inspection of Existing Appliances			
Appendix D	Board of Appeals			

Chapter 1 Scope and Administration.

Chapter 1 establishes the limits of applicability of the code and describes how the code is to be applied and enforced. The provisions of Chapter 1 establish the authority and duties of the code official appointed by the authority having jurisdiction and also establish the rights and privileges of the design professional, contractor and property owner.

Chapter 2 Definitions.

Chapter 2 is the repository of the definitions of terms used in the body of the code. The user of the code should be familiar with and consult this chapter because the definitions are essential to the correct interpretation of the code and because the user may not be aware that a term is defined.

Chapter 3 General Regulations.

Chapter 3 contains broadly applicable requirements related to appliance location and installation, appliance and systems access, protection of structural elements and clearances to combustibles, among others. This chapter also covers combustion air provisions for gas-fired appliances.

Chapter 4 Gas Piping Installations.

Chapter 4 covers the allowable materials for gas piping systems and the sizing and installation of such systems. It also covers pressure regulators, appliance connections and overpressure protection devices. Gas piping systems are sized to supply the maximum demand while maintaining the supply pressure necessary for safe operation of the appliances served.

Chapter 5 Chimneys and Vents.

Chapter 5 regulates the design, construction, installation, maintenance, repair and approval of chimneys, vents, venting systems and their connections to gas-fired appliances. Properly designed chimneys, vents and venting systems are necessary to conduct to the outdoors the flue gases produced by the combustion of fuels in appliances. The provisions of this chapter are intended to minimize the hazards associated with high temperatures and potentially toxic and corrosive combustion gases. This chapter addresses all of the factory-built and site-built chimneys, vents and venting systems used to vent all types and categories of appliances. It also addresses direct-vent appliances, integral vent appliances, side-wall mechanically vented appliances and exhaust hoods that convey the combustion byproducts from cooking and other process appliances.

Chapter 6 Specific Appliances.

Chapter 6 addresses specific appliances that the code intends to regulate. Each main section applies to a unique type of gas-fired appliance and specifies the product standards to which the appliance must be listed. The general requirements found in Chapters 1 through 5 also apply and the sections in Chapter 6 add the special requirements that are specific to each type of appliance.

Chapter 7 Gaseous Hydrogen Systems.

Chapter 7 is specific to gaseous hydrogen generation, storage, distribution and utilization systems, appliances and equipment. Note that hydrogen is not within the definition of "Fuel gas," but it is, nonetheless, commonly used as a fuel for fuel-cell power generation and fuel-cell powered motor vehicles. The scope of Chapter 7 is not limited to any particular use of hydrogen (see Sections 633 and 634). Hydrogen systems have unique potential hazards because of the specific gravity of the gas, its chemical effect on materials and the fact that it is not odorized.

Chapter 8 Referenced Standards.

Chapter 8 lists all of the product and installation standards and codes that are referenced throughout Chapters 1 through 7 and includes identification of the promulgators and the section numbers in which the standards and codes are referenced. As stated in Section 102.8, these standards and codes become an enforceable part of the code (to the prescribed extent of the reference) as if printed in the body of the code.

Appendix A Sizing and Capacities of Gas Piping.

This appendix is informative and not part of the code. It provides design guidance, useful facts and data and multiple examples of how to apply the sizing tables and sizing methodologies of Chapter 4.

Appendix B Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category I Appliances and Appliances Listed for Use with Type B Vents.

This appendix is informative and not part of the code. It contains multiple examples of how to apply the vent and chimney tables and methodologies of Chapter 5.

Appendix C Recommended Procedure for Safety Inspection of an Existing Appliance Installation.

Appendix C is informative and not part of the code. It provides recommended procedures for testing and inspecting an appliance installation to determine if the installation is operating safely and if the appliance is in a safe condition.

Appendix D Board of Appeals.

Appendix D contains the provisions for appeal and the establishment of a board of appeals. The provisions include the application for an appeal, the makeup of the board of appeals and the conduct of the appeal process.

RELOCATION OF TEXT OR TABLES

The following table indicates relocation of sections and tables in the 2024 edition of the IFGC from the 2021 edition.

RELOCATION				
2024 LOCATION	2021 LOCATION			
104.2.2.4	105.3, 105.3.1			
104.2.3	105.2			
104.2.3.5	105.3.2			
104.2.3.6	105.2.1			
104.2.4	105.1			
104.7.4	105.3.3			
104.9	105.4			
104.9.1	105.5			
105	106			
106	107			
107	108			
108	109			
109	110			
110	111			

PREFACE

RELOCATION—continued				
2024 LOCATION	2021 LOCATION			
111	112			
112	113			
113	115			
114	116			

CONTENTS

CHAPTER 1	SCOPE AND ADMINISTRATION11	504 (IFGS)	Sizing of Category I Appliance Venting
101 (IFGC)	Scope and General Requirements11		Systems
102 (IFGC)	Applicability	505 (IFGC)	Direct-Vent, Integral Vent, Mechanical Vent
103 (IFGC)	Code Compliance Agency		and Ventilation/Exhaust Hood Venting 151
104 (IFGC)	Duties and Powers of the Code Official 13	506 (IFGC)	· · · · · · · · · · · · · · · · · · ·
105 (IFGC)	Permits	, ,	· · · · · · · · · · · · · · · · · · ·
106 (IFGC)	Construction Documents16	CHAPTER 6	SPECIFIC APPLIANCES 152
107 (IFGC)	Notice of Approval17	601 (IFGC)	
108 (IFGC)	Fees	602 (IFGC)	Decorative Appliances for Installation in
109 (IFGC)	Service Utilities	002 (11 00)	Fireplaces
110 (IFGC)	Temporary Uses, Equipment and Systems 18	603 (IFGC)	Log Lighters
111 (IFGC)	Inspections and Testing	604 (IFGC)	<u> </u>
112 (IFGC)	Means of Appeals	004 (11 00)	Appliances)
112 (IFGC)	Violations	605 (IFGC)	Vented Gas Fireplace Heaters
113 (IFGC)	Stop Work Order20		Incinerators and Crematories
114 (IFGC)	Stop work Order20	606 (IFGC)	
CHARTER	DEFINITIONS	607 (IFGC)	Commercial-Industrial Incinerators 152
CHAPTER 2	DEFINITIONS	608 (IFGC)	Vented Wall Furnaces
201 (IFGC)	General	609 (IFGC)	Floor Furnaces
202 (IFGC)	General Definitions21	610 (IFGC)	Duct Furnaces
		611 (IFGC)	Nonrecirculating Direct-Fired Industrial
CHAPTER 3	GENERAL REGULATIONS30		Air Heaters
301 (IFGC)	General	612 (IFGC)	•
302 (IFGC)	Structural Safety		Heaters
303 (IFGC)	Appliance Location	613 (IFGC)	Clothes Dryers
304 (IFGS)	Combustion, Ventilation and Dilution Air 32	614 (IFGC)	Clothes Dryer Exhaust
305 (IFGC)	Installation	615 (IFGC)	Sauna Heaters
306 (IFGC)	Access and Service Space	616 (IFGC)	Engine and Gas Turbine-Powered
307 (IFGC)	Condensate Disposal		Equipment 157
308 (IFGS)	Clearance Reduction	617 (IFGC)	Pool and Spa Heaters
309 (IFGC)	Electrical	618 (IFGC)	Forced-Air Warm-Air Furnaces 157
310 (IFGS)	Electrical Bonding42	619 (IFGC)	Conversion Burners
		620 (IFGC)	Unit Heaters
CHAPTER 4	GAS PIPING INSTALLATIONS43	621 (IFGC)	Unvented Room Heaters
401 (IFGC)	General43	622 (IFGC)	Vented Room Heaters
402 (IFGS)	Pipe Sizing43	623 (IFGC)	Cooking Appliances
403 (IFGS)	Piping Materials91	624 (IFGC)	Water Heaters
404 (IFGC)	Piping System Installation94	625 (IFGC)	Refrigerators
405 (IFGS)	Piping Bends and Changes in Direction 96	626 (IFGC)	Gas-Fired Toilets
406 (IFGS)	Inspection, Testing and Purging96	627 (IFGC)	Air-Conditioning Appliances 160
407 (IFGC)	Piping Support99	628 (IFGC)	Illuminating Appliances 160
408 (IFGC)	Drips and Sloped Piping99	629 (IFGC)	Small Ceramic Kilns161
409 (IFGC)	Shutoff Valves100	630 (IFGC)	Infrared Radiant Heaters 161
410 (IFGC)	Flow Controls101	631 (IFGC)	Boilers
411 (IFGC)	Appliance and Manufactured Home	632 (IFGC)	Equipment Installed in Existing Unlisted
	Connections		Boilers
412 (IFGC)	Liquefied Petroleum Gas Motor Vehicle	633 (IFGC)	Stationary Fuel-Cell Power Systems 161
	Fuel-Dispensing Facilities102	634 (IFGC)	Gaseous Hydrogen Systems
413 (IFGC)	Compressed Natural Gas Motor Vehicle	635 (IFGC)	Outdoor Decorative Appliances 161
	Fuel-Dispensing Facilities104		
414 (IFGC)	Supplemental and Standby Gas Supply 106	CHAPTER 7	GASEOUS HYDROGEN SYSTEMS 162
415 (IFGS)	Piping Support Intervals106	701 (IFGC)	General
416 (IFGS)	Overpressure Protection Devices106	702 (IFGC)	General Definitions 162
, 7	•	703 (IFGC)	General Requirements
CHAPTER 5	CHIMNEYS AND VENTS108	704 (IFGC)	Piping, Use and Handling
501 (IFGC)	General	705 (IFGC)	Testing of Hydrogen Piping Systems 164
502 (IFGC)	Vents	706 (IFGC)	Location of Gaseous Hydrogen Systems 165
503 (IFGS)	Venting of Appliances110	707 (IFGC)	Operation and Maintenance of Gaseous
,/	3 11	(50)	Hydrogen Systems
			, , , , , , , , , , , , , , , , , , , ,

CONTENTS

708 (I	FGC) Design of Liquefied Hydrogen Systems
	Associated with Hydrogen Vaporization
	Operations165
СНАРТЕ	R 8 REFERENCED STANDARDS (IFGC/IFGS) 166
APPEND	IX A—SIZING AND CAPACITIES OF GAS
PIPIN	IG (IFGS)172
A101	General Piping Considerations172
A102	Description Of Tables
A103	Use of Capacity Tables175
A104	6 1
A105	r
A106	Examples of Piping System Design and Sizing 179
APPEND	IX B—SIZING OF VENTING SYSTEMS SERVING
APPL	IANCES EQUIPPED WITH DRAFT HOODS,
	GORY I APPLIANCES AND APPLIANCES LISTED
FOR U	JSE WITH TYPE B VENTS (IFGS)
B101	· · ·
B102	Examples Using Common Venting Tables188
APPEND	IX C—RECOMMENDED PROCEDURE FOR
SAFE	TY INSPECTION OF AN EXISTING APPLIANCE
INST	ALLATION (IFGS)
C101	General
C102	Occupant and Inspector Safety
C103	
C104	
	Not Operating200
C105	The same of the sa
	Operating201
C106	Appliance-Specific Inspections202
APPEND	IX D—BOARD OF APPEALS (IFGC) 205
D101	General205
INDEX	207

10