

# 2018 IFC Update

*Based on the 2018 International Fire Code,® (IFC®)*

ICC LEARNING CENTER

The *International Fire Code*® (IFC®), establishes minimum regulations for fire safety.

This handout will identify important changes in the IFC from 2015 to 2018 edition. Participants will be presented with those changes that will most impact their use of the code when they adopt these I-Codes. The learner will receive an overview of the most important code changes.

## Goal

Participants will be able to use this document to identify changes between the 2015 and 2018 IFC allowing them to apply these code requirements to design, plan submittals and/or inspection.

The lecture and activity format allows participants to discuss the changes, reasons for the changes, and answer knowledge review questions. Information presented will allow participants to apply these new code requirements to design, plan review, and/or inspection.

## Objectives

Upon completion, participants will be better able to:

- Identify the most significant differences between the 2015 and the 2018 IFC.
- Explain the differences between the current and previous edition.
- Identify changes in organization and code requirements.
- Identify the applicability of design, plan review and inspection requirements.

## Content

Chapters of the IFC included in this handout:

- Chapter 3, General Requirements
- Chapter 4, Emergency Planning and Preparedness
- Chapter 5, Fire Service Features
- Chapter 6, Building Services and Systems
- Chapter 7, Fire and Smoke Protection Features
- Chapter 8, Interior Finish, Decorative Materials and Furnishings
- Chapter 9, Fire Protection and Life Safety Systems
- Chapter 10, Means of Egress
- Chapter 11, Construction Requirements for Existing Buildings
- Chapter 12 Energy Systems
- Chapter 22, Combustible Dust-Producing Operations
- Chapter 23, Motor Fuel-Dispensing Facilities and Repair Garages
- Chapter 24, Flammable Finishes
- Chapter 28, Motor Fuel-Dispensing Facilities and Repair Garages
- Chapter 31, Tents, Temporary Special Event Structures and Other Membrane Structures
- Chapter 32, High-Piled Combustible Storage
- Chapter 33, Fire Safety During Construction and Demolition
- Chapter 38, Higher Education Laboratories
- Chapter 39, Processing and Extraction Facilities
- Chapter 50, Hazardous Materials—General Provisions
- Chapter 51, Aerosols
- Chapter 53, Compressed Gases
- Chapter 57, Flammable and Combustible Liquids
- Chapter 61, Liquefied Petroleum Gases
- Appendix E, Hazard Categories

2018 IFC Chapter 3: General Requirements			
Code Section		Section Title	Description of Change
2018	2015		
Section 314 Modification	Section 314	<b>Indoor Displays</b>	This section is revised to clarify it applies to both liquid-fueled vehicles and gaseous-fueled vehicles. Additionally, it has been modified to allow the Fire Code Official the ability to determine the best method of safeguarding the vehicle regarding the battery and electrical system.
Section 315.3.1 Modification	Section 315.3.1	<b>Ceiling Clearance for Indoor Storages</b>	Exceptions have been added which allow an increase in the height of storage along walls in sprinklered and nonsprinklered buildings.
315.7 Addition		<b>Outdoor Pallet Storage</b>	Requirements are added to the code to height limitation and separation to buildings and property lines for the outdoor storage of idle pallets constructed of wood or plastic. See also Significant Change to Section 2810 for pallet storage at pallet recycling and manufacturing facilities.

2018 IFC Chapter 4: Emergency Planning and Preparedness			
Code Section		Section Title	Description of Change
2018	2015		
403.12.3 Modification		<b>Crowd Managers</b>	The threshold for crowd managers dropped from 1,000 to 500 people for certain events.
404.2.3 Addition		<b>Lockdown Plans</b>	Updates and prescribes details for facility lockdown plans.

2018 IFC Chapter 5: Fire Service Features			
Code Section		Section Title	Description of Change
2018	2015		
510 Modification		<b>Emergency Responder Radio Coverage</b>	Requirements for emergency responder radio coverage have been revised to address industry and equipment enhancements with a new reference to NFPA 1221.

2018 IFC Chapter 6: Building Services and Systems																			
Code Section		Section Title	Description of Change																
2018	2015																		
603.3 Modification	603.3	<b>Fuel-fired Appliances</b>	<p>Fuel oil storage allowances in Section 603 have been revised to clarify applicability to internal combustion engines, such as generators and fire pumps. Fuel oil storage is increased to 1,320 gallons if the building is sprinklered and the tank is listed to UL 142.</p> <p><b>TABLE 603-1</b> Maximum Capacity of Fuel Oil Based on Type of Tank and Automatic Sprinkler System Design</p> <table border="1"> <thead> <tr> <th>TANK DESIGN</th> <th>NONSPRINKLERED BUILDING</th> <th>FIRE SPRINKLERS PROVIDED IN THE ROOM</th> <th>FIRE SPRINKLERS PROVIDED IN THE BUILDING</th> </tr> </thead> <tbody> <tr> <td>UL 80</td> <td>660 gallons</td> <td>660 gallons</td> <td>660 gallons</td> </tr> <tr> <td>UL 142</td> <td>660 gallons</td> <td>660 gallons</td> <td>1,320 gallons</td> </tr> <tr> <td>UL 2085</td> <td>660 gallons</td> <td>3,000 gallons</td> <td>3,000 gallons</td> </tr> </tbody> </table>	TANK DESIGN	NONSPRINKLERED BUILDING	FIRE SPRINKLERS PROVIDED IN THE ROOM	FIRE SPRINKLERS PROVIDED IN THE BUILDING	UL 80	660 gallons	660 gallons	660 gallons	UL 142	660 gallons	660 gallons	1,320 gallons	UL 2085	660 gallons	3,000 gallons	3,000 gallons
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605.13 Addition		<b>Refrigerants with Lower Flammability Hazards</b>	Adds requirements regarding safety concerns for lower flammability refrigerant gases.																
608.3 Modification	608.3	<b>Non-metallic Cooking Oil Storage Tanks</b>	Provide listing and capacity requirements for cooking oil storage.																

2018 IFC Chapter 8: Interior Finish, Decorative Materials and Furnishings			
Code Section		Section Title	Description of Change
2018	2015		
807.1 Modification	807.1	<b>Combustible Decorative Materials</b>	The limitations on decorative combustible materials are clarified as to where they apply.
807.4 Modification	807.4	<b>Combustible Decorative Materials</b>	The limitations on decorative combustible materials are clarified as to where they apply.

2018 IFC Chapter 9: Fire Protection and Live Safety Systems			
Code Section		Section Title	Description of Change
2018	2015		
901.4.6 Addition		<b>Fire Pump and Fire Sprinkler Riser Rooms</b>	Additional requirements have been added for automatic sprinkler system riser rooms and fire pump rooms.
901.6.2 Addition		<b>Integrated Fire Protection System Testing</b>	Test criteria has been added to the code with a reference to NFPA 4 to ensure that where multiple fire protection systems or life safety systems are integrated, that the acceptance process and subsequent testing must evaluate the all of the integrated systems as a whole.
901.8.2 Modification	901.8.2	<b>Removal of Occupant Use Hoselines</b>	Authorizes code official to allow the removal occupant use hoselines.
903.2.1 Clarification	903.2.1	<b>Sprinklers in Group A Occupancies</b>	Clarifies the requirements for fire sprinkler protection in Group A occupancies.
903.2.3 Modification	903.2.3	<b>Sprinklers in Group E Occupancies</b>	Provides occupant load threshold for automatic sprinkler system requirements in Group E occupancies.
903.3.1.1.2 Modification	903.3.1.1.2	<b>Sprinklers in Bathrooms in Group R-4 Occupancies</b>	Removes fire sprinklers requirements from small bathrooms in Group R-4 occupancies.
903.3.1.2.1 Modification	903.3.1.2.1	<b>Sprinklers Beneath Balconies</b>	Correlates automatic sprinkler system requirements in Chapter 9 with Chapter 7 for exterior balconies of Group R occupancies.
903.3.1.2.3 Modification	903.3.1.2.3	<b>Attics</b>	Provides fire protection options for attics in multi-family occupancies
903.3.3 Modification	903.3.3	<b>Sprinkler Obstructions</b>	The code now directs the user to the sprinkler design standard to address sprinkler obstructions.
904.12 Modification	904.12	<b>Commercial Cooking Operations</b>	Directs users to NFPA standards to address sprinkler obstructions.
904.13 Modification	904.13	<b>Domestic Cooking in Institutional Occupancies</b>	Requires automatic fire-extinguishing system to protect domestic cooking appliances in care facilities.

2018 IFC Chapter 9: Fire Protection and Live Safety Systems, Continued			
Code Section		Section Title	Description of Change
2018	2015		
904.14 Modification	904.14	<b>Aerosol Fire-extinguishing System Maintenance</b>	Requires automatic fire suppression in domestic cooking systems in care facilities.
905.3.1 Modification	905.3.1	<b>Class III Standpipes</b>	Establishes standpipe requirements based on stories and addresses standpipes in Groups B and E occupancies.
905.4 Modification	905.4	<b>Class I Standpipe Hose Connections</b>	Allows a modification of hose connection locations for Class I standpipes serving open stairways.
905.11 Modification	905.11	<b>Locking Caps on Standpipe Outlets</b>	This revision authorizes the code official to require locking caps on dry standpipe hose connection outlets.
906.1 Modification	906.1	<b>Portable Fire Extinguishers</b>	Provides schools options for fire extinguisher placement.
907.1.2 Modification	907.1.2	<b>Fire Alarm Construction Documents</b>	Aligns requirements for fire alarm plans and documentation requirements with NFPA 72.
907.2.1 Modification	907.2.1	<b>Fire Alarms in Group A Occupancies</b>	A new fire alarm threshold has been added for Group A occupancies where an occupant load of 100 or more is located on a level other than the level of exit discharge.
907.2.10 Deletion	907.2.10	<b>Group R-4 Fire Alarm System</b>	Fire alarm systems are no longer required in Group R-4 occupancies.
907.5.2.2.4 Modification	907.5.2.2.4	<b>Emergency Voice/Alarm Communication System Captions</b>	Requires automatic fire suppression in domestic cooking systems in care facilities.
910.5 Modification	910.5	<b>Maintenance of Smoke and Heat Removal Equipment</b>	Maintenance and testing frequencies for smoke and heat vents and mechanical smoke removal are specified in the code.
916 Modification	916	<b>Gas Detection Systems</b>	Requirements for gas detection systems are clarified and consolidated in a new Section 916.

2018 IFC Chapter 10: Means of Egress			
Code Section		Section Title	Description of Change
2018	2015		
1004.8 Modification	1004.8	<b>Occupant Load Calculation in Concentrated Business Use Area</b>	The method of calculating occupant load in business areas is revised, which allows for larger occupant loads.
1006.2.1, Table 1006.2.1 Modification	1006.2.1, Table 1006.2.1	<b>1006.2.1, Table 1006.2.1 Spaces with One Exit or Exit Access Doorway</b>	Determination of cumulative occupant loads is clarified and correlated with other code requirements
1006.2.2.6, Table 1006.2.1, Table 1017.2 Addition		<b>Groups R-3 and R-4 Protected with NFPA 13D Sprinkler System</b>	Exit access travel distances are provided for Groups R-3 and R-4 when sprinklered with NFPA 13D sprinkler systems.
1006.3, 1006.3.1 Modification	1006.3, 1006.3.1	<b>Exits on Adjacent Stories</b>	Determining egress requirements has been clarified when the occupants travel to an adjacent story to reach the exit.
1008.2.3 Addition		<b>Illumination of the Exit Discharge</b>	Illumination of exit discharge can now terminate at a safe dispersal area.
1008.3.5, 1008.2.2 Modification	1008.3.5, 1008.2.2	<b>Emergency Illumination in Group I-2</b>	Emergency lighting must meet minimum illumination levels even when one lamp fails in a single luminaire.
1009.7.2 Modification	1009.7.2	<b>Protection of Exterior Areas of Assisted Rescue</b>	The 1-hour fire-resistance-rated separation between an exterior of assisted rescue and the building is not required if the building is protected with an automatic sprinkler system designed to NFPA 13 or 13R.
1010.1.1 Clarification	1010.1.1	<b>Size of Doors</b>	The requirements for the door size are revised to correlate with ICC A117.1.
1010.1.4.4, 1010.1.4.4.1 Modification	1010.1.4.4, 1010.1.4.4.1	<b>Locking Arrangements in Educational Occupancies</b>	Guidance is provided to allow enhanced security measures yet still meet egress requirements on classroom doors.
1010.1.9.8, 1010.1.9.8.1 Modification	1010.1.9.8, 1010.1.9.8.1	<b>Delayed Egress</b>	Guidance is provided to allow enhanced security measures yet still meet egress requirements on classroom doors.
1010.1.9.9, 1010.1.9.10 Clarification	1010.1.9.9, 1010.1.9.10	<b>Electrically Locked Egress Doors</b>	Criteria for electrically locked egress doors have been clarified and correlated.
1010.1.9.12 Modification	1010.1.9.12	<b>Locks on Stairway Doors</b>	The limitation is removed which prohibited locking doors on the stairway side when the stairway was more than four stories, but less than a high-rise.

2018 IFC Chapter 10: Means of Egress, Continued			
Code Section		Section Title	Description of Change
2018	2015		
1010.1.10 Modification	1010.1.10	<b>Panic Hardware and Fire Exit Hardware</b>	Sensor release of electrically locked doors is now allowed on egress doors in Groups A and E. Also, the section is clarified to state that panic hardware or fire exit hardware are only required on swinging doors.
1010.3, 1010.3.1, 1010.3.1.1, 1010.3.2, 1010.3.3,  1010.3.4 Modification	1010.3, 1010.3.1, 1010.3.1.1, 1010.3.2, 1010.3.3,  1010.3.4	<b>Turnstiles</b>	This new section allows security turnstiles, or similar barriers, in the means of egress path.
1011.6 Clarification	1011.6	<b>Stairway Landings</b>	The method of determining the required width and depth of a stairway landing is clarified.
1013.2 Modification	1013.2	<b>Floor Level Exit Signs in Group R-1</b>	The location of low-level exit signs can now be 18 inches above the floor.
1015.6, 1015.7 Modification	1015.6, 1015.7	<b>Fall Arrest for Rooftop Equipment</b>	The specific criteria in the code on fall arrest systems are removed and the ANSI/ASSE Z395.1 standard now governs the installation.
1017.3, 202 Clarification	1017.3, 202	<b>Common Path of Egress Travel</b>	Common path of egress travel must be applied to each room or space on every story.
1023.3.1 Modification	1023.3.1	<b>Stairway Extension</b>	Fire-resistance-rated separation is not required between an interior exit stairway and exit passageways if stairway pressurization is provided.
1023.5, 1024.6 Modification	1023.5, 1024.6	<b>Exit Stairway and Exit Passageway Penetrations</b>	Security system and two-way communication system components are allowed to penetrate the fire-resistant rated enclosure of exit passageways and interior exit stairways and ramps.
1025.1 Modification	1025.1	<b>Luminous Egress Path Marking in Group I Occupancies</b>	Luminous egress path marking is no longer required in high-rise buildings classified as Groups I-2, I-3, and I-4.
1026.4, 1026.4.1 Modification	1026.4, 1026.4.1	<b>Refuge Areas for Horizontal Exits</b>	Guidance is provided to allow enhanced security measures yet still meet egress requirements on classroom doors.
1029.6, 1029.6.3, 1029.7, 202 Modification	1029.6, 1029.6.3, 1029.7, 202	<b>Open-air Assembly Seating</b>	A new term and definition is added for open-air assembly seating.
1029.9.1 Modification	1029.9.1	<b>Minimum Aisle Width</b>	Minimum aisle widths are clarified with a reference added for minimum widths for accessible routes.

2018 IFC Chapter 10: Means of Egress, Continued			
Code Section		Section Title	Description of Change
2018	2015		
1030.1 Modification	1030.1	<b>Emergency Escape and Rescue Openings</b>	Emergency escape and rescue openings are required in Groups R-3 and R 4, and Group R-2 provided with only one means of egress from a story. Also, it is possible to eliminate some, or all, emergency escape and rescue openings from a sprinklered basement.
1030.1.1 Addition		<b>Operation of Emergency Escape and Rescue Openings</b>	Fall prevention devices are allowed on emergency escape and rescue openings provided they comply with ASTM F2090.
1031.1, 1031.10.1, 1031.10.2 Modification	1031.1, 1031.10.1, 1031.10.2	<b>Inspection and Testing of Emergency Egress Lighting</b>	Inspection and testing requirements for emergency egress lighting are relocated into the Chapter 10 Means of Egress and revised to allow self-diagnostics.
1031.2.2 Addition		<b>Locking Arrangements in Existing Educational Occupancies</b>	Guidance is provided to allow enhanced security measures yet still meet egress requirements on classroom doors.
1031.4 Modification	1031.4	<b>Exit Signs in Existing Buildings</b>	The application of exit sign requirements in existing buildings has been clarified for both installation and maintenance.

2018 IFC Chapter 11: Construction Requirements for Existing Buildings			
Code Section		Section Title	Description of Change
2018	2015		
1103.5.1 Addition		<b>Fire Sprinklers in Existing Group A-2 Occupancies</b>	A section has been added to Chapter 11 which requires the retrofit installation of a fire sprinkler system in existing Group A-2 occupancies where alcoholic beverages are consumed if the occupant load is 300 or more.
1103.9 Modification	1103.9	<b>Carbon Monoxide Alarms in Existing Buildings</b>	Carbon monoxide alarms are no longer required to be retroactively installed in existing Groups I-1, I-2, I-4, and R based on occupancy classification. The retroactive installation of carbon monoxide alarms is only required in existing sleeping rooms and dwelling units.
1104.16.2 Modification	1104.16.2	<b>Wall Openings Adjacent to Fire Escapes</b>	Door and window openings within 10 feet of a fire escape must be protected with ¾-hour opening protectives unless the building is sprinklered.
1105.5.4 Addition		<b>Fire-protection-rated Doors in Existing Group I-2</b>	Fire protection rated doors in existing Group I-2 occupancies have three options for automatic closing operations.



2018 IFC Chapter 12: Energy Systems			
Code Section		Section Title	Description of Change
2018	2015		
Chapter 12 Addition		<b>Energy Systems</b>	This chapter is new.
Section 1204.5 Addition		<b>Rapid Shutdown for Solar Photovoltaic Power Systems</b>	Rapid shutdown is required on solar photovoltaic systems to reduce the shock hazard to emergency responders.
1206.2 Modification	1206.2	<b>Stationary Storage Battery Systems</b>	This revision moves the stationary battery storage system requirements from Section 608 to Section 1206.2 and includes new battery technologies and required safety features.

2018 IFC Chapter 22: Combustible Dust-Producing Operations			
Code Section		Section Title	Description of Change
2018	2015		
Chapter 22 Modification		<b>Combustible Dust</b>	Reference to the new NFPA 652, "Standard on the Fundamentals of Combustible Dust", is added to provide guidance and criteria when evaluating combustible dust hazards.

2018 IFC Chapter 23: Motor Fuel-Dispensing Facilities and Repair Garages			
Code Section		Section Title	Description of Change
2018	2015		
2303.2.1 Addition		<b>Height of Emergency Disconnect Switch</b>	This new section provides specific height limitations for emergency disconnect switches for fuel dispensing operations.
2306.7.3.1 Addition		<b>Protection from Vehicle Impact</b>	The fire code official has the authority to require additional vehicle impact protection at fuel dispensing facilities.
2309.6, 2309.6.1 Modification	2309.6, 2309.6.1	<b>Defueling of Hydrogen Fueled Vehicles</b>	The requirements for repairing vehicles fueled by compressed or liquefied compressed gas have been updated to address current technologies and processes.
2311.6 Addition	2311.6	<b>Repair of Vehicles Fueled by CNG and LNG</b>	The requirements for repairing vehicles fueled by compressed or liquefied compressed gas have been updated to address current technologies and processes.
2311.8 Modification	2311.8	<b>Repair of Vehicles Fueled by Lighter-than-air Fuels</b>	The requirements for repairing vehicles fueled by compressed or liquefied compressed gas have been updated to address current technologies and processes.

2018 IFC Chapter 24: Flammable Finishes			
Code Section		Section Title	Description of Change
2018	2015		
2403.2.1.3 Modification	2403.2.1.3	<b>Classified Electrical Areas Around Spray Booths</b>	The size of the classified area around spray booth openings is reduced to 3 feet.
2404.2, 2404.3.1, 2404.3.1.1, 202, 914.9 Modification	2404.2, 2404.3.1, 2404.3.1.1, 202, 914.9	<b>Spray Rooms and Spray Booths</b>	Requirements for spray booths and spray operations are correlated between the IFC and IBC.

2018 IFC Chapter 28: Motor Fuel-Dispensing Facilities and Repair Garages			
Code Section		Section Title	Description of Change
2018	2015		
2810 Addition		<b>Outdoor Storage of Pallets at Pallet Manufacturing and Recycling Facilities</b>	This new section adds criteria for outdoor pallet storage at pallet manufacturing facilities and pallet recycling facilities. It provides specific height limits and separation to property lines and buildings, but also allows for the distances to be modified based on providing additional fire protection features.

2018 IFC Chapter 31: Tents, Temporary Special Event Structures and Other Membrane Structures			
Code Section		Section Title	Description of Change
2018	2015		
Chapter 31 Clarification		<b>Umbrella Structures</b>	A new definition is added for umbrella structures which results in regulation of umbrella structures when they exceed 400 square feet.
3103.3.1 Addition		<b>Tents and Membrane Structures Used as Special Amusement Buildings</b>	Special amusement buildings located in temporary tents are required to be equipped with an automatic sprinkler system.
3103.6, 3103.9, 3103.9.1, 3103.9.2, 3103.9.3 Modification	3103.6, 3103.9, 3103.9.1, 3103.9.2, 3103.9.3	<b>Structural Stability of Tents</b>	Temporary tents and membrane structures are required to provide construction documents which address their structural stability and load carrying capacity. Larger tents and membrane structures have been added to the list of temporary facilities which must comply.
3104.2 Addition		<b>Fabrics for Tents and Membrane Structures</b>	The application of testing criteria for flame spread of tent and membrane structures has been clarified.
3105, 202, 105.6.47, 105.7.22 Addition		<b>Temporary Special Event Structures</b>	The requirements for temporary stage structures are expanded to include all temporary structures greater than 400 square feet when used at special events.
Section 3106 Addition		<b>Outdoor Assembly Events</b>	This section adds requirements specific to outdoor public gatherings and improves the correlation of requirements in the IBC and IFC.
3107.3, 3107.13.1, 3107.13.2, 3107.13.3 Modification		<b>LP-gas Containers and Tanks Adjacent to Tents and Membrane Structures</b>	Requirements for the use and separation of LPgas containers in and around tents and membrane structures have been revised.

2018 IFC Chapter 32: High-Piled Combustible Storage			
Code Section		Section Title	Description of Change
2018	2015		
Modification		<b>Chapter 32 High-piled Combustible Storage</b>	The requirements in the chapter have been updated to correlate with current NFPA 13 requirements and recent FM Global fire tests.

2018 IFC Chapter 33: Fire Safety During Construction and Demolition			
Code Section		Section Title	Description of Change
2018	2015		
3304.5, 3308, 3309.1 Modification	3304.5, 3308, 3309.1	<b>Fire Watch During Construction and Demolition</b>	Criteria for requiring fire watch has been added to the code along with clarification to the functions and duties of the fire watch personnel.

2018 IFC Chapter 38: Higher Education Laboratories			
Code Section		Section Title	Description of Change
2018	2015		
Chapter 38 Addition		<b>Outdoor Assembly Events</b>	A new chapter has been added to the IFC to specifically regulate college and university laboratories. Correlating sections have been added to a new Section 427 in the IBC.

2018 IFC Chapter 39: Processing and Extraction Facilities			
Code Section		Section Title	Description of Change
2018	2015		
Chapter 39 Addition		<b>Plant Processing and Oil Extraction Facilities</b>	A new chapter has been added to the IFC to specifically regulate the process of extracting oils from plant material.

2018 IFC Chapter 50: Hazardous Materials—General Provisions			
Code Section		Section Title	Description of Change
2018	2015		
Table 5003.1.1, Section 202 Modification	Table 5003.1.1, Section 202	<b>Consumer Fireworks</b>	Addresses the explosive nature of Division 1.4G explosives and removes the 100% increase credit for sprinklers where these items are stored.
Table 5003.1.1(1), Table 5003.11.1, Section 6303.1.1.2 Modification	Table 5003.1.1(1), Table 5003.11.1, Section 6303.1.1.2	<b>Maximum Allowable Quantity for Class 3 Oxidizers</b>	The maximum allowable quantity for Class 3 oxidizers is increased by about 10 percent in control areas and Groups M and S occupancies.
5003.8.3.4 Modification	5003.8.3.4	<b>Control Area Construction</b>	Includes Type IV construction in control area fire resistance rating requirements.
5005.1.12 Modification	5005.1.12	<b>Protection of Hazardous Materials Piping Systems</b>	Requirements for leak detection and emergency shutoff for high hazard gases and liquids only applies when the maximum allowable quantity per control area is exceeded.

2018 IFC Chapter 51: Aerosols			
Code Section		Section Title	Description of Change
2018	2015		
5103.2, 5103.2.1, 5103.2.3, 5104.1.2, 5104.2.2 Modification	5103.2, 5103.2.1, 5103.2.3, 5104.1.2, 5104.2.2	<b>Aerosol Products in Plastic Containers</b>	Limitations on aerosol products in plastic containers is revised and the use of Plastic Aerosol X products is prohibited in higher life hazard occupancies.
5104.8, 5140.8.1, 5104.8.2, 5103.2.2, 5104.3.3, 5106.2.2 Addition		<b>Aerosol Cooking Spray Products</b>	Specific fire protection requirements are added to address aerosol cooking spray products.

2018 IFC Chapter 53: Compressed Gases			
Code Section		Section Title	Description of Change
2018	2015		
5306.1, 5306.2, 5306.2.1, 5306.2.2, 5306.2 Modification	5306.1, 5306.2, 5306.2.1, 5306.2.2, 5306.2	<b>Medical Gas Storage</b>	Requirements for construction and ventilation of interior medical gas rooms and gas cabinets are revised.
5307.1, 5307.3, 5307.3.1, 5307.3.2 Modification	5307.1, 5307.3, 5307.3.1, 5307.3.2	<b>Liquid Carbon Dioxide Systems for Beverage Dispensing</b>	Requirements for liquefied CO2 in beverage dispensing applications have been correlated with requirements for gas detection systems.
5307.4, 5307.4.1, 5307.4.2, 5307.4.3, 5307.4.4, 5307.4.5, 5307.4.6, 5307.4.7 Addition		<b>Carbon Dioxide Enrichment Systems</b>	Carbon dioxide enrichment systems area regulated by the Fire Code when the system contains more than 100 pounds of CO2, or when the refill connection is remote from the tank or vessel.

2018 IFC Chapter 57: Mobile Fueling Operations			
Code Section		Section Title	Description of Change
2018	2015		
5707 Addition		<b>Mobile Fueling Operations</b>	On-demand mobile fueling is allowed to occur at approved locations and under the control of a permit issued by the fire code official.

2018 IFC Chapter 61: Liquefied Petroleum Gases			
Code Section		Section Title	Description of Change
2018	2015		
Table 6104.3 Modification	Table 6104.3	<b>Location of LP-gas Containers</b>	New Footnote g specifies separations between above-ground LP-gas containers and public ways.

2018 IFC Appendix E Hazard Categories			
Code Section		Section Title	Description of Change
2018	2015		
E102.7.1 Modification	E102.7.1	<b>Hazard Classification of Oxidizers</b>	This change revised the oxidizer classification of sodium dichloro-s-triazinetrione anhydrous (sodium dichloroisocyanurate anhydrous).