Proposed Amendments (added text to the code is: <u>underlined</u>, deleted text to the code is: ~~struck through~~)

ITEM NUMBER	ARTICLE	SUMMARY	PROPONENT	ACTION
IMC-2024-1	**Scope**	*Add 'Scope' to read as follows: **SCOPE:** The provisions of the *Georgia State Minimum Standard Mechanical Code* shall regulate the design, installation, maintenance, *alteration* and inspection of mechanical systems that are permanently installed and utilized to provide control of environmental conditions and related processes within buildings. This code shall also regulate those mechanical systems, system components, *equipment* and appliances specifically addressed herein. The installation of fuel gas distribution piping and *equipment*, fuel gas-fired appliances and fuel gas-fired *appliance* venting systems shall be regulated by the *Georgia State Minimum Standard Gas Code (International Fuel Gas Code with Georgia Amendments*.) **Exception:** Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories above grade with separate means of egress and their accessory structures shall comply with *Georgia State Minimum Standard One- and Two-Family Dwelling Code* (*the International Residential Code for One- and Two-Family Dwellings with Georgia State Amendments).*	2020	**CF**
IMC-2024-2	**Scope**	*Add 'Code Reference Guide' as an Exception to 'Scope' as follows: **Exception:** The following table titled 'Codes Reference Guide' establishes specific primary and supplementary code applications and is to be applied by the authority having jurisdiction.	2020	**CF**

CODES REFERENCE GUIDE

Area	Primary	Supplement
Occupancy Classification	LSC	IBC

Building Construction Types Including allowable height, allowable building areas, and the requirements for sprinkler protection related to minimum building construction types.	IBC	LSC
Means of Egress	LSC	NONE
Standpipes	IBC	IFC
Interior Finish	LSC	NONE
HVAC Systems	IMC	NONE
Vertical Openings	LSC	NONE
Sprinkler Systems minimum construction standard	LSC	NONE
Fire Alarm Systems	LSC	NONE
Smoke Alarms and Smoke Detection Systems	State Statute and LSC	NONE
Portable Fire Extinguishers	IFC	NONE
Cooking Equipment	LSC and NFPA 96	NONE
Fuel Fired Appliances	IFGC	NFPA 54
Liquid Petroleum Gas	NFPA 58	NFPA 54
Compressed Natural Gas	NFPA 52	NONE

IMC-2024-3	**Scope**	The State's minimum requirements for boilers/water heaters and pressure vessels over 200,000 BTU/h (58.61 kW), 210 degrees Fahrenheit or 120 gallons capacity shall be established by O.C.G.A. Title 25, Chapter 15 and the Rules and Regulations of the Office of Insurance and Safety Fire Commissioner.	2020	**CF**
IMC-2024-4	**Chapter 1**	*Delete Chapter 1 'Administration' without substitution. Chapter 1 to remain in the Code as a reference and guide for local governments in the development of their own *Administrative Procedures*.	2020	**CF**
IMC-2024-5	**301.1**	*Revise Section 301.1 'Scope' to read as follows: **301.1 Scope.** This chapter shall govern the approval and installation of all equipment and appliances that comprise parts of the building mechanical systems regulated by this code ~~in accordance with Section 101.2.~~	2020	**CF**
IMC-2024-6	**301.2**	*Revise Section 301.2 'Energy utilization' to read as follows: **301.2 Energy utilization.** Heating, ventilating and air-conditioning systems of all structures shall be designed and installed for efficient utilization of energy in accordance with the *International Energy Conservation Code*. <u>Cooling towers installed in new construction shall be in compliance with ASHRAE, Standard 90.1.</u>	2020	**CF**
IMC-2024-7	**301.7**	*Revise Section 301.7 'Listed and labeled' to read as follows: **301.7 Listed and labeled.** Appliances regulated by this code shall be *listed* and *labeled* for the application in which they are installed and used, unless otherwise approved ~~in accordance with Section 104.~~ **Exception** to remain unchanged.	2020	**CF**
IMC-2024-8	**301.19**	*Add new Section 301.19 'Related Fire Codes' to read as follows: <u>**301.19 Related fire codes.** Any reference to the *International Fire Code* and/or NFPA standards in any chapter of this code shall be to the latest edition as adopted and amended by the Georgia Insurance and Safety Fire Commissioner.</u>	2020	**CF**

IMC-2024-9	**306.3**	*Revise Section 306.3 'Appliances in attics' to add new Exception #3 to read as follows **Exceptions:** 3. In Residential Occupancies, attics containing appliances or mechanical equipment service shall be accessible by pull down stairs or other permanent steps and at a minimum be sized to allow the removal of the largest appliance.	2020	**CF**
IMC – 2024 -10	**401.2**	*Revise section 401.2 'Ventilation required' to read as follows: **401.2 Ventilation required.** Every occupied space shall be ventilated by natural means in accordance with Section 402 or by mechanical means in accordance with Section 403. ~~Dwelling units complying with the air leakage requirements of the International Energy Conservation Code or ASHRAE 90.1 shall be ventilated by mechanical means in accordance with Section 403.~~ Where the air infiltration rate in a dwelling unit is less than 3 air changes per hour when tested with a blower door at a pressure of 0.2-inch water column (50 Pa) in accordance with the Georgia State Minimum Standard Energy Code, the dwelling unit shall be ventilated by mechanical means in accordance with Section 403. Ambulatory care facilities and Group I-2 occupancies shall be ventilated by mechanical means in accordance with Section 407.	Task Force	**A**
IMC-2024-11	**401.7**	*Add new Section 401.7 'Alternative ventilation procedures' to read as follows: **401.7 Alternative ventilation procedures.** As an alternative to Chapter 4, the following shall be permitted: 1. Ventilation Rate Procedure, Natural Ventilation Procedure or Indoor Air Quality Procedure, as prescribed by ASHRAE 62.1. Software programs to calculate outdoor ventilation air may be used to demonstrate ASHRAE 62.1 compliance, as approved by authority having jurisdiction. 2. A combination of ASHRAE 62.1 and ANSI/ASHRAE/ASHE Standard 170 may be utilized for different occupancy types within a single building.	2020	**CF**

IMC-2024-12	**501.3**	*Revise Section 501.3 'Exhaust discharge' Exception #1 to read as follows: Exceptions: 1. Whole-house ventilation-type attic fans shall be permitted to discharge into the ventilated attic space of *dwelling units* having private attics, provided the installed system meets paragraph 501.4 requirements for pressure equalization.	2020	**CF**
IMC-2024-13	**505.3.1**	*Add new Section 505.3.1 'Exhaust ducts for domestic range hoods installed in commercial applications' to read as follows **505.3.1 Exhaust Ducts for domestic range hoods installed in commercial applications.** Exhaust ducts for domestic range hoods installed in commercial applications including I-1 and I-2 occupancies shall be vented to the outside and shall be constructed of (a) Type B vent, or (b) smooth wall duct constructed of galvanized or stainless steel with a minimum duct thickness of 0.0157 inches (0.40 mm) or constructed of aluminum or copper with a minimum duct thickness of 0.023 inches (0.58mm).	2020	**R**
IMC-2024-14	**505.9**	*Add new Section 505.9 **'**Commercial installations of domestic systems' to read as follows: **505.9 Commercial installations of domestic systems.** Commercial installations of domestic systems shall comply with the current Life Safety Code NFPA 101 and 96 standards as adopted and amended by the Georgia Insurance and Safety Fire Commissioner.	2020	**R**
IMC-2024-15	**506.1**	*Delete Section 506.1 'General' and substitute the following: **506.1 General.** The State's minimum requirements for Type I commercial kitchen hood ventilation system ducts and exhaust equipment shall be designed, constructed and installed in accordance with the Life Safety Code NFPA 101 and NFPA 96 as adopted and amended by the Georgia Insurance and Safety Fire Commissioner. Other commercial kitchen hood ventilation system ducts and exhaust equipment shall comply with the requirements of this section.	2020	**CF**

IMC-2024-16	**507.1**	*Delete Section 507.1 'General' and substitute the following: **507.1 General.** The State's minimum requirements for Type I commercial kitchen hoods shall be designed, constructed and installed in accordance with the Life Safety Code NFPA 101 and NFPA 96 as adopted and amended by the Georgia Insurance and Safety Fire Commissioner. Other commercial kitchen hoods shall comply with the requirements of this section.	2020	**CF**
IMC-2024-17	**507.1.2**	*Delete Section 507.1.2 'Domestic cooking appliances used for commercial purposes' without substitution.	2020	**CF**
IMC-2024-18	**507.2.11**	*Delete Section 507.2.11 'Fire suppression systems' and substitute the following: **507.2.11 Fire suppression systems.** The State's minimum requirements for fire suppression systems for commercial cooking equipment shall be established by the Life Safety Code NFPA 101 and NFPA 96 as adopted and amended by the Georgia Insurance and Safety Fire Commissioner.	2020	**R**
IMC-2024-19	**606.2.1**	*Rename Section 606.2.1 'Return air systems' and revise to read as follows: **606.2.1 Supply air systems**. Smoke detectors shall be installed in ~~return~~ supply air systems with a design capacity greater than 2,000 cfm($0.9m^3/s$), in the ~~return~~ supply air duct ~~or plenum upstream of any filters, exhaust air connections, outdoor air connections, or decontamination equipment and appliances.~~ downstream of any filters, fan motors, outdoor air connections, and upstream of any branch connections or decontamination equipment and appliances. **Exception:** Smoke detectors are not required in the ~~return~~ supply air system where all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with ~~the International Fire Code~~ NFPA 72. The area smoke detection system shall comply with Section 606.4.	2020	**CF**
IMC-2024-20	**606.2.2**	*Revise Section 606.2.2 'Common supply and return air systems' to read as follows: **606.2.2 Common supply and return air systems.** Where multiple air-handling systems share common supply or return air ducts or plenums with a combined design capacity greater than 2,000 cfm ($0.9m^3/s$), the ~~return~~ supply air system shall be provided with smoke detectors in accordance with Section 606.2.1.	2020	**R**

		Exception: Individual smoke detectors shall not be required for each fan-powered unit, provided that such units do not have an individual design capacity greater than 2,000(0.9m^3/s) cfm and will be shut down by activation of one of the following; 1. Smoke detectors required by Sections 606.2.1 and 606.2.3. 2. An approved area smoke detector system located in the ~~return air~~ common plenum(s) serving such units. 3. An area smoke detector system as prescribed in the exception to Section 606.2.1. In all cases, the smoke detectors shall comply with sections 606.4 and 606.4.1.		
IMC-2024-21	**606.4.1**	*Revise Section 606.4.1 'Supervision' first sentence to read as follows: **606.4.1 Supervision.** The duct smoke detectors shall be connected to a fire alarm system where a fire alarm system is required by ~~Section 907.2 of the International Fire Code~~ the Life Safety Code NFPA 101 and NFPA 72 as adopted and amended by the Georgia Insurance and Safety Fire Commissioner.	2020	**R**
IMC-2024-22	**908.1**	* Revise Section 908.1 'General' to read as follows: **908.1 General.** A cooling tower used in conjunction with an air-conditioning appliance shall be installed in accordance with the manufacturer's installation instructions. Factory-built cooling towers shall be listed in accordance with UL 1995 or UL/CSA 60335-2-40. The standards related to high efficiency cooling towers shall include without limitation the minimum standards prescribed by the ASHRAE, Standard 90.1.	2020	**CF**
IMC-2024-23	**917.1**	*Revise Section 917.1 'Cooking appliances' to add new Exception to read as follows: **Exception**: *Listed* and *labeled* commercial cooking appliances may be installed in *dwelling units* and domestic kitchens when such installation is designed by a Georgia Licensed Professional Engineer and accepted by the local authority having jurisdiction.	2020	**CF**
IMC-2024-24	**917.2**	*Delete Section 917.2 'Domestic appliances' without substitution.	2020	**CF**

IMC-2024-25	**1001.1**	*Revise Section 1001.1 'Scope' to add the following at the end of first paragraph: **1001.1 Scope.** …and pressure vessels. The State's minimum requirements for boilers/water heaters and pressure vessels over 200,000 BTU/h (58.61 kW), 210 degrees Fahrenheit or 120 gallons capacity shall be established by O.C.G.A. Title 25, Chapter 15 and the as adopted and amended Rules and Regulations of the Office of Insurance and Safety Fire Commissioner.	2020	**CF**
IMC – 2024 – 26	**1101.1.1**	* Delete section 1101.1.1 'Refrigerants other than ammonia' and substitute the following: **1101.1.1 Refrigerants other than ammonia.** Refrigeration systems using a refrigerant other than ammonia shall comply with this chapter, the International Fire Code, and either ASHRAE 15 or ASHRAE 15.2, as applicable. Refrigeration systems containing carbon dioxide as the refrigerant shall also comply with IIAR CO2.	Jake Hill	**A**
IMC-2024-27	**1105.3**	*Renumber Section [F] 1105.3 'Refrigerant detector' as 1105.3 and revise to read as follows: **1105.3 Refrigerant detector.** Refrigerant detectors in machinery rooms shall be provided as required ~~by sections 608.9 and 608.18 of the international Fire Code.~~ in accordance with ASHRAE 15.	2020	**CF**
IMC-2024-28	**1106.5**	*Renumber Section [F] 1106.5 'Remote controls' as 1106.5 and revise to read as follows: **1106.5 Remote controls.** Remote control of the mechanical equipment and appliances located in the machinery room shall ~~comply with Sections 1106.5.1 and 1106.5.2~~ be provided as required in accordance with ASHRAE 15.	2020	**R**
IMC-2024-29	**1106.6**	*Renumber Section [F] 1106.6 'Emergency signs and labels' as 1106.6 and revise to read as follows: **1106.6 Emergency signs and labels.** Refrigeration units and systems shall be provided with *approved* ~~emergency~~ signs, charts and labels in accordance with ~~the International Fire Code~~ ASHRAE 15.	2020	**R**

IMC-2024-30	**1107.4**	*Revise 1107.4 'Piping materials standards' to read as follows: **1107.4 Piping materials standards**. Refrigerant pipe shall conform to one or more of the standards listed in Table 1107.4. For refrigeration systems used in residential occupancies serving only a single dwelling unit or sleeping unit, refrigerant piping and tubing shall be limited to aluminum, copper, and copper alloy. The exterior of the pipe shall be protected from corrosion and degradation.	Task Force	**A**
IMC-2024-31	**1107.5**	*Revise 1107.5 'Pipe fittings' to read as follows: **1107.5 Pipe fittings.** Refrigerant pipe fittings shall be approved for installation with the piping materials to be installed, and shall conform to one of more of the standards listed in Table 1107.5 or shall be listed and labeled as complying with UL 207. For refrigeration systems used in residential occupancies serving only a single dwelling unit or sleeping unit, refrigerant fittings shall be limited to aluminum, copper, copper alloys, stainless steel, and steel.	Task Force	**A**
IMC-2024-32	**IMC - 1109**	* Revise IMC 1109.3.2 'Shaft ventilation' to read as follows: **1109.3.2 Shaft ventilation.** ~~Refrigerant~~ Required refrigerant pipe shafts with systems using Group A2L or B2L refrigerant shall be naturally or mechanically ventilated. Refrigerant pipe shafts with one or more systems using any Group A2, A3, B2 or B3 refrigerant shall be continuously mechanically ventilated and shall include a refrigerant detector. The shaft ventilation exhaust outlet shall comply with Section 501.3.1. Naturally ventilated shafts shall have a pipe, duct or conduit not less than 4 inches (102 mm) in diameter that connects to the lowest point of the shaft and extends to the outdoors. The pipe, duct or conduit shall be level or pitched downward to the outdoors. Mechanically ventilated shafts shall have a minimum airflow velocity in accordance with Table 1109.3.2. The mechanical ventilation shall be continuously operated or activated by a refrigerant detector. Systems utilizing a refrigerant detector shall activate the mechanical ventilation at a maximum refrigerant concentration of 25 percent of the lower flammable limit of the refrigerant. The detector, or a sampling tube that draws air to the detector, shall be located in an area where refrigerant from a leak will concentrate. The shaft shall not be required to be ventilated for double-wall refrigerant pipe where the interstitial space of the double-wall pipe is vented to the outdoors. For refrigeration systems used in residential occupancies serving only a single dwelling unit or sleeping unit, shaft ventilation shall not be required where the pipe or tube is continuous without fittings in the shaft.	Greg Johnson	**A**

IMC-2024-33	**IMC - 1109**	* Revise section 1109.2.5 'Refrigerant pipe shaft' Exception 1 and 2 to read as follows: **1109.2.5 Refrigerant pipe shafts.** Refrigerant piping that penetrates two or more floor/ceiling assemblies shall be enclosed in a fire-resistance-rated shaft enclosure. The fire-resistance-rated shaft enclosure shall comply with Section 713 of the *International Building Code*. **Exceptions:** 1. *Refrigeration* systems using R-718 refrigerant (water). 2. Piping in a direct refrigeration system ~~using Group A1 refrigerant~~ where the refrigerant quantity does not exceed the limits of Table 1103.1 for the smallest occupied space through which the piping passes. 3. Piping located on the exterior of the *building* where vented to the outdoors.	Greg Johnson	**A**
IMC-2024-34	**1301.1**	*Revise Section 1301.1 'Scope' to add the following at the end of the paragraph: **1301.1 Scope.** …International Fire Code. The State's minimum requirements for fuel oil piping and storage shall be as established by the Georgia State Minimum Fire Safety Standards and the as adopted and amended Rules and Regulations of the Georgia Insurance and Safety Fire Commissioner. Any areas not addressed by the Georgia State Minimum Fire Safety Standards shall be regulated by this chapter.	2020	**CF**
IMC-2024-35	**1402.4**	*Revise Section 1402.4 'Protection from freezing' to revise the first sentence to read as follows: **1402.4 Protection from freezing**. System Components shall be protected from damage by freezing of heat transfer liquids at the lowest ambient temperatures that will be encountered ~~during the operation of the system~~. Freeze… (Remainder of paragraph to remain unchanged)	2020	**CF**
IMC-2024-36	**1403.2.1**	*Add new Section 1403.2.1 'Protection of drains' to read as follows: **1403.2.1 Protection of drains.** Drains serving heat transfer fluids over 140°F (60°C) or which are toxic or corrosive shall be protected in accordance with the requirements of t*he International Plumbing Code.*	2020	**CF**

IMC-2024-37	**IMC – Reference**	**ASHRAE** 15.2 2022	Safety Standards for Refrigeration Systems in Residential Applications	1101.1.1 , GA Amendment	Task Force	**A**