#### PROPOSED CODE AMENDMENTS 2024 Code Amendments

ITEM NUMBER	ARTICLE	SUMMARY	PROPON ENT	ACTION
		Proposed		
IFC – 2023 - 1	IFC - 202	Revise Section 202 to read as follows         DESCRIPTION:         IFC Section 202         FLAMMABLE GAS. A material which is a gas at 68°F (20°C) or less at 14.7 pounds per square inch atmosphere (psia) (101 kPa) of pressure [a material that has a boiling point of 68°F (20°C) or less at 14.7 psia (101 kPa)] which subdivided as follows:         1.4: Category 1A         4. 4: A gas which is ignitable at 14.7 psia (101 kPa) when in a mixture of 13 percent or less by volume with air; or         2. Has-A gas with a flammable range at 14.7 psia (101 kPa) with air of not less than 12 percent, regardless of the lower         Iimit.limit, unless data shows compliance with Category 1B         2. Category 1B.         A gas which meets the flammability criteria for Category 1A, is not pyrophoric or chemically unstable, and meets one or more of the following:         1. A lower flammability limit of more than 6% by volume of air; or         2. A fundamental burning velocity of less than 3.9 in/s (10 cm/s).         The limits specified shall be determined at 14.7 psi (101 kPa) of pressure and a temperature of 68°F (20°C) in accordance with ASTM E681.         Where not otherwise specified, the term "flammable gas" includes both Category 1A and 1B.	Mary Koban	Forward SFM

\*Note: These amendments are "proposed only" and have not been adopted by the Department of Community Affairs.

#### PROPOSED CODE AMENDMENTS 2024 Code Amendments

IEC 2022 2			Mama	
IFC – 2023 - 2	IFC – 608	Revise the following sections to read as follows	Mary	
			Koban	
		IFC		
		Revise as follows:		
		608.9 Refrigerant detection. Machinery rooms shall be provided with a refrigerant detector with an audible and		
		visible alarm. Where ammonia is used as the refrigerant, detection shall comply with IIAR 2. For refrigerants other		
		than ammonia, refrigerant detection shall comply with Section 608.9.1. A detector, or a sampling tube that draws		
		air to a detector, shall be provided at an approved location where refrigerant from a leak is expected to		
		accumulate. The system shall be designed to initiate audible and visible alarms inside of and outside each entrance		
		to the refrigerating machinery room and transmit a signal to an approved location where the concentration of		
		refrigerant detected exceeds the lesser of the following:		
		1. The corresponding TLV-TWA values shown in the International Mechanical Code for the refrigerant classification.		
		2. Twenty-five percent of the lower flammable limit (LFL).		
		Detection of a refrigerant concentration exceeding the upper detection limit or 25 percent of the lower flammable		
		limit (LFL), whichever is lower, shall		
		stop refrigerant equipment in the machinery room in accordance with Section 608.10.1.		
				Forward to
		Delete without substitution:		SFM
		608.9.1 Refrigerants other than ammonia. A detector, or a sampling tube that draws air to a detector, shall be		
		provided at an approved location where refrigerant from a leak is expected to accumulate. The system shall be		
		designed to initiate audible and visible alarms inside of and outside each entrance to the refrigerating machinery		
		room and transmit a signal to an approved location where the concentration of refrigerant detected		
		exceeds the lesser of the following:		
		1. The corresponding TLV-TWA values shown in the International Mechanical Code for the refrigerant classification.		
		2. Twenty five percent of the lower flammable limit (LFL).		
		Detection of a refrigerant concentration exceeding the upper detection limit or 25 percent of the lower flammable		
		limit (LFL), whichever is lower, shall		
		stop refrigerant equipment in the machinery room in accordance with Section 608.10.1.		
		Revise as follows:		
		<b>608.11 Emergency pressure control system.</b> Permanently installed refrigeration systems in machinery rooms		
		containing more than 6.6 pounds (3		
		kg) of flammable, toxic or highly toxic refrigerant or ammonia shall be provided with an emergency pressure		
		control system in accordance with Sections 608.11.1 and 608.11.2.		
		Sections 000.11.1 and 000.11.2.		
		608.13 Discharge and termination of pressure relief and purge systems. Pressure relief devices, fusible plugs and		
L		Doorto Discharge and termination of pressure relief and purge systems. Pressure relief devices, fusible plugs and	II	

\*Note: These amendments are "proposed only" and have not been adopted by the Department of Community Affairs.

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# PROPOSED CODE AMENDMENTS 2024 Code Amendments

purge systems discharging       to the atmosphere from erfigeration systems containing flammable, toxic or highly toxic refrigerants or ammonia shall comply with Sections 608.13.2         through 608.13.2 Flammable refrigerants. Systems containing more than 6.6 pounds (3 kg) of flammable refrigerants having a density equal to or greater         than the density of air shall discharge vapor to the atmosphere only through an approved treatment system in accordance with Section 608.13.6         508.13.4 or a flaring system in accordance with Section 608.13.6.         508.13.4 or a flaring system in accordance with Section 608.13.6.         508.13.4 or a flaring system in accordance with Section 608.13.6.         508.13.4 or a flaring system in accordance with Section 608.13.6.         508.13.4 or a flaring system in accordance with Section 608.13.6.         508.13.4 or a flaring system in accordance with Section 608.13.6.         508.13.4 or a flaring system in accordance with Section 608.13.6.         508.13.4 or a flaring system in accordance with Section 608.13.5.         508.13.4 or a flaring system in accordance with Section 608.13.5.         508.13.4 or a flaring system in accordance with Section 608.13.5.         508.13.4 or a flaring system in accordance with Section 608.13.5.         508.13.4 or a flaring system in accordance with Section 608.13.5.         508.13.4 or a flaring system in accordance with section 608.13.5.         508.13.4 or a flaring system in accordance with Section 608.13.5.         508.13.4 or a flaring system in	 
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608.13.4 or a flaring system in accordance with Section 608.13.6.       608.13.5.         Delete without substitution:       608.13.4 Ammonia refrigerant. Systems containing more than 6.6 pounds (3 kg) of ammonia refrigerant shall discharge vapor to the atmosphere         in accordance with one of the following methods:       1. Directly to atmosphere where the fire code official determines, on review of an analysis prepared in accordance with Section 104.8.2, that a	
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1. Directly to atmosphere where the fire code official determines, on review of an analysis prepared in accordance with Section 104.8.2, that a	
with Section 104.8.2, that a	
health hazard would not result from atmospheric discharge of ammonia.	
2. Through an approved treatment system in accordance with Section 608.13.5.	
3. Through a flaring system in accordance with Section 608.13.6.	5 5 7
4. Through an approved ammonia diffusion system in accordance with Section 608.13.7.	5 II
5. By other approved means.	,
Exception: Ammonia/water absorption systems containing less than 22 pounds (10 kg) of ammonia and for which	
the ammonia circuit is located	
entirely outdoors.	entirely outdoors.
Revise as follows:	Revise as follows:

\*Note: These amendments are "proposed only" and have not been adopted by the Department of Community Affairs.

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IFC – 2023 - 3	IFC – 608.17	Revise Section 608 to read as follows IFC Section 608	Mary Koban	Forward to SFM
IFC – 2023 - 3	IFC – 608.17	automatic upon initiation of discharge, shall be designed to prevent blowback and shall not expose structures or materials to threat of fire. Standby fuel, such as LP-gas, and standby power shall have the capacity to operate for one and one-half the required time for complete incineration of refrigerant in the system. Standby electrical power, where required to complete the incineration process, shall be in accordance with Section 1203. <b>Delete without substitution:</b> <b>608.13.7</b> Ammonia diffusion systems. Ammonia diffusion systems shall include a tank containing 1 gallon of water for each pound of ammonia (8.3 L of water for each 1 kg of ammonia) that will be released in 1 hour from the largest relief device connected to the discharge pipe. The water shall be prevented from freezing. The discharge pipe from the pressure relief device shall distribute ammonia in the bottom of the tank, but not lower than 33 feet (10 058 mm) below the maximum liquid level. The tank shall contain the volume of water and ammonia without overflowing. <b>Revise as follows:</b> <b>608.14 Mechanical ventilation exhaust.</b> Exhaust from mechanical ventilation systems serving refrigeration machinery rooms containing flammable, toxic or highly toxic refrigerants, <del>other than ammonia,</del> capable of exceeding 25 percent of the LFL or 50 percent of the IDLH shall be equipped with approved treatment systems to reduce the discharge concentrations to those values or lower. <b>Exception:</b> Refrigeration systems containing Group A2L complying with Section 608.18. Revise Section 608 to read as follows		
		<ul> <li>608.13.4 608.13.5 Treatment systems. Treatment systems shall be designed to reduce the allowable discharge concentration of the refrigerant gas to not more than 50 percent of the IDLH at the point of exhaust. Treatment systems shall be in accordance with Chapter 60.</li> <li>608.13.5 608.13.6 Flaring systems. Flaring systems for incineration of flammable refrigerants shall be designed to incinerate the entire discharge. The products of refrigerant incineration shall not pose health or environmental hazards. Incineration shall be</li> </ul>		

\*Note: These amendments are "proposed only" and have not been adopted by the Department of Community Affairs.

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		defined in shall confi NFPA 70. Exception <del>1. Ammor Section 1: Code.</del> 2. Machin with vent	the In orm to <del>s</del> : <del>hia mad 101.1.2</del> ery roc ilation	ternational Mec the Class I, Divis chinery rooms th 2, Exception 1 of oms for systems in accordance w	Where refrigerant of Groups A2, A3, B2 and B3, as hanical Code, are used, refrigeration machinery rooms sion 2, hazardous location classification requirements of hat are provided with ventilation in accordance with the International Mechanical containing Group A2L refrigerants that are provided ith Section 608.18.		
IFC – 2023 - 4	IFC – Table 911.1	DESCRIPT	FION	1 to read as follow SION CONTROL REQ shown remain uncha	UIREMENTS	Mary Koban	
					EXPLOSION CONTROL METHODS		
		MATERIAL	CLASS	Barricade construction	Explosion (deflagration) venting or explosion (deflagration) prevention systems		
					Hazard Category		Forward to
		Flammable gas	Gaseous	Not required	Required <sup>h</sup>		SFM
			Liquefied	Not required	Required <sup>b</sup>		
		concentrat accordance b. Storage c. In open d. Rooms c	ion and e with S or use. use or d containi	d conditions create Section 104.8.2. Se dispensing. Ing dispensing and	ectured, generated or used in such a manner that the e a fire or explosion hazard based on information prepared in the definition of "Combustible dust" in Chapter 2. Use of hazardous materials where an explosive environment stics or nature of the hazardous materials or as a result of the		

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	dispensing or use process.
	e. A method of explosion control shall be provided where Class 2 water-reactive materials can
	form potentially explosive mixtures.
	f. Explosion venting is not required for Group H-5 Fabrication Areas complying with Chapter 27
	and the International Building Code.
	g. Where explosion control is required in Section 1207.6.3.
	h. Not required for Category 1B Flammable Gases having a burning velocity not exceeding 3.9 in/s
	(10 cm/s).
	<b>3307.2.1 Pipe cleaning and purging.</b> The cleaning and purging of flammable gas piping systems,
	including cleaning new or existing piping systems, purging piping systems into service and purging
	piping systems out of service, shall comply with NFPA 56.
	Exceptions:
	1. Compressed gas piping systems other than fuel gas piping systems where in accordance with
	Chapter 53.
	2. Piping systems regulated by the International Fuel Gas Code.
	3. Liquefied petroleum gas systems in accordance with Chapter 61.
	4. Cleaning and purging of refrigerant piping systems shall comply with the International
	Mechanical Code.

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#### PROPOSED CODE AMENDMENTS 2024 Code Amendments

DCA Staff: Jimmy Reynolds Phone: (404) 679-3104 Date Revised: 12/15/2022

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