CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION

tiser note: Code change proposals to sections preceded by the designation [F] will be considered by the International tiser note: Code Development Cycle. See explanation on page iv.

SECTION 301 GENERAL

MILL Scope. The provisions of this chapter shall control the classification of all buildings and structures as to use and occupancy.

SECTION 302 CLASSIFICATION

302.1 General. Structures or portions of structures shall be classified with respect to occupancy in one or more of the groups listed in this section. A room or space that is intended to be occupied at different times for different purposes shall comply with all of the requirements that are applicable to each of the purposes for which the room or space will be occupied. Structures with multiple occupancies or uses shall comply with Section 508. Where a structure is proposed for a purpose that is not specifically provided for in this code, such structure shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard involved.

- 1. Assembly (see Section 303): Groups A-1, A-2, A-3, A-4 and A-5.
 - 2. Business (see Section 304): Group B.
 - 3. Educational (see Section 305): Group E.
- 4. Factory and Industrial (see Section 306): Groups F-1 and F-2.
 - 5. High Hazard (see Section 307): Groups H-1, H-2, H-3, H-4 and H-5.
 - 6. Institutional (see Section 308): Groups I-1, I-2, I-3 and I-4.
 - 7. Mercantile (see Section 309): Group M.
 - 8. Residential (see Section 310): Groups R-1, R-2, R-3 and R-4.
 - 9. Storage (see Section 311): Groups S-1 and S-2.
- tú. Utility and Miscellaneous (see Section 312): Group U.

SECTION 303 ASSEMBLY GROUP A

303.1 Assembly Group A. Assembly Group A occupancy includes, among others, the use of a building or structure, or a portion thereof, for the gathering of persons for purposes such as civic, social or religious functions; recreation, food or drink consumption or awaiting transportation.

303.1.1 Small buildings and tenant spaces. A building or tenant space used for assembly purposes with an *occupant load* of less than 50 persons shall be classified as a Group B occupancy.

303.1.2 Small assembly spaces. The following rooms and spaces shall not be classified as Assembly occupancies:

- A room or space used for assembly purposes with an occupant load of less than 50 persons and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.
- 2. A room or space used for assembly purposes that is less than 750 square feet (70 m²) in area and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.

303.1.3 Associated with Group E occupancies. A room or space used for assembly purposes that is associated with a Group E occupancy is not considered a separate occupancy.

303.1.4 Accessory to places of religious worship. Accessory religious educational rooms and religious auditoriums with *occupant loads* of less than 100 per room or space are not considered separate occupancies.

303.2 Assembly Group A-1. Group A-1 occupancy includes assembly uses, usually with fixed seating, intended for the production and viewing of the performing arts or motion pictures including, but not limited to:

Motion picture theaters
Symphony and concert halls
Television and radio studios admitting an audience
Theaters

303.3 Assembly Group A-2. Group A-2 occupancy includes assembly uses intended for food and/or drink consumption including, but not limited to:

Banquet halls Gaşinos (gaming areas)

Nightclubs

Restaurants, cafeterias and similar dining facilities (including associated commercial kitchens)

Taverns and bars

303.4 Assembly Group A-3. Group A-3 occupancy includes assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A including, but not limited to:

Amusement arcades
Art galleries
Bowling alleys
Community halls

USE AND OCCUPANCY CLASSIFICATION

Courtrooms

Dance halls (not including food or drink consumption)

Exhibition halls

Funeral parlors

Gymnasiums (without spectator seating)

Indoor swimming pools (without spectator seating)

Indoor tennis courts (without spectator seating)

Lecture halls

Libraries

Museums

Places of religious worship

Pool and billiard parlors

Waiting areas in transportation terminals

303.5 Assembly Group A-4. Group A-4 occupancy includes assembly uses intended for viewing of indoor sporting events and activities with spectator seating including, but not limited

Arenas Skating rinks Swimming pools

Tennis courts

303.6 Assembly Group A-5. Group A-5 occupancy includes assembly uses intended for participation in or viewing outdoor activities including, but not limited to:

Amusement park structures Bleachers Grandstands Stadiums

SECTION 304 BUSINESS GROUP B

304.1 Business Group B. Business Group B occupancy includes, among others, the use of a building or structure, or a portion thereof, for office, professional or service-type transactions, including storage of records and accounts. Business occupancies shall include, but not be limited to, the following:

Airport traffic control towers

Ambulatory care facilities

Animal hospitals, kennels and pounds

Banks

Barber and beauty shops

Car wash

Civic administration

Clinic, outpatient

Dry cleaning and laundries: pick-up and delivery stations and self-service

Educational occupancies for students above the 12th grade

Electronic data processing

Food processing establishments and commercial kitchens not associated with restaurants, cafeterias and similar dining facilities not more than 2,500 square feet (232 m²) in area.

Laboratories: testing and research

Motor vehicle showrooms

Post offices

Print shops

Professional services (architects, attorneys, dentists, physicians, engineers, etc.)

Radio and television stations

Telephone exchanges

Training and skill development not in a school or academic program (this shall include, but not be limited to, tutoring centers, martial arts studios, gymnastics and similar uses regardless of the ages served, and where not classified as a Group A occupancy).

304.2 Definitions. The following terms are defined in Chap-

AMBULATORY CARE FACILITY. CLINIC, OUTPATIENT.

SECTION 305 EDUCATIONAL GROUP E

305.1 Educational Group E. Educational Group E occupancy includes, among others, the use of a building or structure, or a portion thereof, by six or more persons at any one time for educational purposes through the 12th grade.

305.1.1 Accessory to places of religious worship. Religious educational rooms and religious auditoriums, which are accessory to places of religious worship in accordance with Section 303.1.4 and have occupant loads of less than 100 per room or space, shall be classified as Group A-3 occupancies.

305.2 Group E, day care facilities. This group includes buildings and structures or portions thereof occupied by more than five children older than 21/2 years of age who receive educational, supervision or personal care services for fewer than 24 hours per day.

305.2.1 Within places of religious worship. Rooms and spaces within places of religious worship providing such day care during religious functions shall be classified as part of the primary occupancy.

305.2.2 Five or fewer children. A facility having five of fewer children receiving such day care shall be classified as part of the primary occupancy.

305.2.3 Five or fewer children in a dwelling unit. facility such as the above within a dwelling unit and have ing five or fewer children receiving such day care shall be classified as a Group R-3 occupancy or shall comply will the International Residential Code.

SECTION 306 FACTORY GROUP F

306.1 Factory Industrial Group F. Factory Industrial Gro F occupancy includes, among others, the use of a building structure, or a portion thereof, for assembling, disassembling fabricating, finishing, manufacturing, packaging, repair processing operations that are not classified as a Group hazardous or Group S storage occupancy.

306.2 Moderate-hazard factory industrial, Group F Factory industrial uses that are not classified as Factory ndustrial F-2 Low Hazard shall be classified as F-1 Moderte Hazard and shall include, but not be limited to, the follow-

Aircraft (manufacturing, not to include repair)

Appliances

Athletic equipment

Automobiles and other motor vehicles

Bakeries

Beverages: over 16-percent alcohol content

Bicycles

Boats

Brooms or brushes

Business machines

Cameras and photo equipment

Canvas or similar fabric

Carpets and rugs (includes cleaning)

Clothing

Construction and agricultural machinery

Disinfectants

Dry cleaning and dyeing

Electric generation plants

Electronics

Engines (including rebuilding)

Food processing establishments and commercial kitchens not associated with restaurants, cafeterias and similar dining facilities more than 2,500 square feet (232 m²) in area.

Furniture

Hemp products

lute products

Laundries

Leather products

Machinery

Metals

Millwork (sash and door)

Motion pictures and television filming (without

spectators)

Musical instruments

Optical goods

Paper mills or products

Photographic film

Plastic products

Printing or publishing

Recreational vehicles

Refuse incineration

Shoes

Soups and detergents lexiles

Tobacco

Frailers

Upholstering

Woods distillation

Woodworking (cabinet)

Most Low hazard factory industrial, Group F-2. Factory inclusion buses that involve the fabrication or manufacturing of noneombustible materials that during finishing, packing or those sing do not involve a significant fire hazard shall be classified as IF-2 occupancies and shall include, but not be limited the following:

Beverages: up to and including 16-percent alcohol content

Brick and masonry

Ceramic products

Foundries

Glass products

Gypsum

Ice

Metal products (fabrication and assembly)

SECTION 307 HIGH-HAZARD GROUP H

[F] 307.1 High-hazard Group H. High-hazard Group H occupancy includes, among others, the use of a building or structure, or a portion thereof, that involves the manufacturing, processing, generation or storage of materials that constitute a physical or health hazard in quantities in excess of those allowed in control areas complying with Section 414, based on the maximum allowable quantity limits for control areas set forth in Tables 307.1(1) and 307.1(2). Hazardous occupancies are classified in Groups H-1, H-2, H-3, H-4 and H-5 and shall be in accordance with this section, the requirements of Section 415 and the International Fire Code. Hazardous materials stored, or used on top of roofs or canopies, shall be classified as outdoor storage or use and shall comply with the International Fire Code.

[F] 307.1.1 Uses other than Group H. An occupancy that stores, uses or handles hazardous materials as described in one or more of the following items shall not be classified as Group H, but shall be classified as the occupancy that it most nearly resembles.

- 1. Buildings and structures occupied for the application of flammable finishes, provided that such buildings or areas conform to the requirements of Section 416 and the International Fire Code.
- 2. Wholesale and retail sales and storage of flammable and combustible liquids in mercantile occupancies conforming to the International Fire Code.
- 3. Closed piping system containing flammable or combustible liquids or gases utilized for the operation of machinery or equipment.
- Cleaning establishments that utilize combustible liquid solvents having a flash point of 140°F (60°C) or higher in closed systems employing equipment listed by an approved testing agency, provided that this occupancy is separated from all other areas of the building by 1-hour fire barriers constructed in accordance with Section 707 or 1hour horizontal assemblies constructed in accordance with Section 711, or both.
- 5. Cleaning establishments that utilize a liquid solvent having a flash point at or above 200°F (93°C).
- 6. Liquor stores and distributors without bulk storage.
- 7. Refrigeration systems.

- The storage or utilization of materials for agricultural purposes on the premises.
- Stationary batteries utilized for facility emergency power, uninterruptable power supply or telecommunication facilities, provided that the batteries are provided with safety venting caps and ventilation is provided in accordance with the International Mechanical Code.
- Corrosive personal or household products in their original packaging used in retail display.
- 11. Commonly used corrosive building materials.
- 12. Buildings and structures occupied for aerosol storage shall be classified as Group S-1, provided that such buildings conform to the requirements of the *International Fire Code*.
- 13. Display and storage of nonflammable solid and nonflammable or noncombustible liquid hazardous materials in quantities not exceeding the maximum allowable quantity per *control area* in Group M or S occupancies complying with Section 414.2.5.
- 14. The storage of black powder, smokeless propellant and small arms primers in Groups M and R-3 and special industrial explosive devices in Groups B, F, M and S, provided such storage conforms to the quantity limits and requirements prescribed in the International Fire Code.

[F] 307.1.2 Hazardous materials. Hazardous materials in any quantity shall conform to the requirements of this code, including Section 414, and the *International Fire Code*.

[F] 307.2 Definitions. The following terms are defined in Chapter 2:

AEROSOL

Level 1 aerosol products.

Level 2 aerosol products.

Level 3 aerosol products.

AEROSOL CONTAINER.

BALED COTTON.

BALED COTTON, DENSELY PACKED.

BARRICADE.

Artificial barricade.

Natural barricade.

BOILING POINT.

CLOSED SYSTEM.

COMBUSTIBLE DUST.

COMBUSTIBLE FIBERS.

COMBUSTIBLE LIQUID.

Class II.

Class IIIA.

Class IIIB.

COMPRESSED GAS.

CONTROL AREA.

CORROSIVE.

CRYOGENIC FLUID.

DAY BOX.

DEFLAGRATION.

DETONATION.

DISPENSING.

EXPLOSION.

EXPLOSIVE.

High explosive.

Low explosive.

Mass-detonating explosives.

UN/DOTn Class 1 explosives.

Division 1.1.

Division 1.2.

Division 1.3.

Division 1.4.

Division 1.5.

Division 1.6.

FIREWORKS.

Fireworks, 1.3G.

Fireworks, 1.4G.

FLAMMABLE GAS.

FLAMMABLE LIQUEFIED GAS.

FLAMMABLE LIQUID.

Class IA.

Class IB.

Class IC.

FLAMMABLE MATERIAL.

FLAMMABLE SOLID.

FLASH POINT.

HANDLING.

HAZARDOUS MATERIALS.

HEALTH HAZARD.

HIGHLY TOXIC.

INCOMPATIBLE MATERIALS.

INERT GAS.

OPEN SYSTEM.

OPERATING BUILDING.

ORGANIC PEROXIDE.

Class I.

Class II.

Class III.

Class IV.

Class V.

Unclassified detonable.

OXIDIZER.

Class 4.

Class 3.

Class 2.

Class 1.

OXIDIZING GAS.

PHYSICAL HAZARD.

PYROPHORIC.

PYROTECHNIC COMPOSITION.

TOXIC.

UNSTABLE (REACTIVE) MATERIAL.

Class 4.

Class 3.

Class 2.

Class 1.

WATER-REACTIVE MATERIAL.

Class 3.

Class 2.

Class 1.

[F] 307.3 High-hazard Group H-1. Buildings and structures containing materials that pose a detonation hazard shall be classified as Group H-1. Such materials shall include, but not be limited to, the following:

Detonable pyrophoric materials

Explosives:

Division 1.1

Division 1.2

Division 1.3

Division 1.4

Division 1.5

Division 1.6

Organic peroxides, unclassified detonable

Oxidizers, Class 4

Unstable (reactive) materials, Class 3 detonable and Class 4

TABLE 307.1(1)

MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A PHYSICAL HAZARD®, LINE-OPEN SYSTEMS®

	GROUP WHEN	STORAGE®			USE-CL	OSED SYS	USE-OPEN SYSTEMS			
MATERIAL	CLASS	THE MAXIMUM ALLOWABLE QUANTITY IS EXCEEDED	Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas cubic feet at NTP	· Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas cubic feet at NTP	Solid pounds (cubic feet)	Liquid gallons (pounds
ombustible dust	NA	H-2	See Note q	NA	NA	See Note q	NA	NA	See Note q	NA
ombustible fiber ^a	Loose Baled ^o	H-3	(100) (1,000)	NA	NA	(100) (1,000)	NA	ŊA	(20) (200)	NA
ambustible-liquid ^{e, t}	II IIIA IIIB	H-2 or H-3 H-2 or H-3 NA	NA	120 ^{d, c} 330 ^{d, c} 13,200 ^{e, f}	NA _	NA	120 ^d 330 ^d 13,200 ^f	NA	- NA	30 ^d 80 ^d 3,300 ^f
onsumer fireworks	1.4G	H-3	· 125 ^{e,1} .	NA.	NA	NA.	NA	NA	NA	NA
Typenic flammable	NA	H-2	NA	45 ^d	NA	ΝA	45 ^d	NA	NA	10 ^d
ryogenic inert	NA	NA.	NA	NA	NL	NA	NA	NL	NA	NA
-Yogenic oxidizing	NA NA	H-3	NA NA	45 ^d	NA NA	NA	45 ^d	NA	NA	10 ^d
Spleanes	Division 1.1 Division 1.2 Division 1.3 Division 1.4 Division 1.4G Division 1.5 Division 1.6	H-1 H-1 H-1 or H-2 H-3	1°.8 1°.8 5°.8 50°.8 125 ^{d.e.i} 1°.8	(1) ^{e, g} (1) ^{e, g} (5) ^{e, g} (50) ^{e, g} NA (1) ^{e, g}	NA	0.25 ^g 0.25 ^g 1 ^g 50 ^g NA 0.25 ^g	(0.25) ^g (0.25) ^g (1) ^g (50) ^g NA (0.25) ^g NA	NA	0.25 ^g 0.25 ^g 1 ^g NA NA 0.25 ^g NA	(0.25) (0.25) (1) ^g NA NA (0.25) NA
Namendale gus	Gaseous Liquefied	H-2	NA	NA (150) ^{d, c}	1,000 ^{d, e} NA	NA	NA (150) ^{d, e}	1,000 ^{d, e} NA	NA	NA
i kumulahe diguidi	IA IB and IC	H-2 or H-3	NA	30 ^{d, e} 120 ^{d, e}	NA	NA	30 ^d 120 ^d	NA	NA	10 ^d 30 ^d
Hemmabia liquid, combinanco (13, 18,16)	NA	H-2 or H-3	NA	120 ^{d, c, h}	NA	NA	120 ^{d, h}	NA	NA	30 ^{d, h}

(continued)

TABLE 307.1(1)—continued MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A PHYSICAL HAZARDALINARIA

		TV DED CONT	BOL AREA	OF HAZA	RDOUS M	ATERIALS F	OSING A	PHIODA		
MAXIMUM ALLOW	STORAGE ^b			USE-CLOSED SYSTEMS ^b			USE-OPEN SYSTEMS			
WATERIAL		THE MAXIMUM ALLOWABLE OUANTITY IS	Solid pounds (cubic feet)	Liquid galions (pounds)	Gas cubic feet at NTP	Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas cubic feet at NTP	Solid pounds (cubic feet)	Liquid gallons (pounds)
1		EXCEEDED	125 ^{d, c}	NA	NA	125 ^d	NA	NA	25 ^d	NA
Flammable solid	NA	H-3		NA NA	NL	NA	NA	NL	NA	NA
	Gaseous	NA NA	NA NA	NA NA	NL	NA	NA	NL	NA 0.058	NA (O. C. T. T.
Inert gas	Liquefied	NA	1°, g	(1) ^{e, g}		0.25 ^g	$(0.25)^{g}$		0.25 ^g	(0.25) ^g (1) ^d
	UD I	H-1 H-2	5 ^{d, c}	(5)d, e		1 ^d 50 ^d	(1) ^d (50) ^d	NA	10 ^d	(10) ^d
1	$\hat{\mathbf{n}}$	H-3	50 ^{d, e} 125 ^{d, e}	(50) ^{d, e}	NA	125 ^d	$(125)^{d}$	25) ^d 1021	25 ^d NL	(25) ^d NL
Organic peroxide	Ш	H-3 NA	NL	NL		NL	NL NL		NL	NL
	IV V	NA	NL	NL	<u> </u>	NL 0.255	$(0.25)^g$	 	0.25g	(0.25)
Oxidizer	4 3 ^k 2	H-1 H-2 or H-3 H-3	1g 10 ^{d, c} 250 ^{d, e}	(1) ^{e, g} (10) ^{d, e} (250) ^{d, e}	NA	0.25 ^g 2 ^d 250 ^d 4,000 ^f	(2) ^d (250) ^d (4,000) ^f	ΝA	2 ^d 50 ^d 1,000 ^f	(2) ^d (50) ^d (1,000) ^f
Oxidizes	1	NA	4,000 ^{e, f}		1,500 ^{d, e}		NA	1,500 ^{d, c}		NA
Oxidizing gas	Gaseous	H-3	NA	NA (150) ^{d, e}	NA NA	NA	(150) ^{d, e}			0
Oxidizing gas	Liquefied	H-2	4e, g	(4)e, g	50 ^{e, g}	1 ^g	(1) ^g	10 ^{e, g}	0	. 17,739
Pyrophoric	NA	H-1	1e, g	(1) ^{e, g}	10 ^{e, g}	0.25g	(0.25) ^g	2°, g 10 ^{d, e}	0.25 ^g	(0.25) [§]
Unstable (reactive)	4 3	H-1 or H-2	5 ^{d, c}	(50) ^{d, e}	50 ^{d, e} 750 ^{d, e}	1 ^d 50 ^d	(1) ^d (50) ^d	750 ^{d, e}	10 ^d NL	(10) ⁴ NL
	2 1	H-3 NA	NL	NL	NL	NL	NL	NL	14L	(1)
	3	H-2	5 ^{d, e}	(5) ^{d, o}	774	5 ^d 50 ^d	(5) ^d (50) ^d	NA	10^{6}	(10) ^d
Water reactive	2	H-3	50 ^{d, e}	(50) ^{d, e} NL	NA	NL	NL	<u> </u>	NL	NL NL
	1	NA	NL 2.795			_l				

For SI: 1 cubic foot = 0.028 m^3 , 1 pound = 0.454 kg, 1 gallon = 3.785 L.

NL = Not Limited; NA = Not Applicable; UD = Unclassified Detonable.

- a. For use of control areas, see Section 414.2.
- b. The aggregate quantity in use and storage shall not exceed the quantity listed for storage.
- c. The quantities of alcoholic beverages in retail and wholesale sales occupancies shall not be limited provided the liquids are packaged in individual contained. not exceeding 1.3 gallons. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs or consumer products, and cosmetics contains not more than 50 percent by volume of water-miscible liquids with the remainder of the solutions not being flammable, shall not be limited, provided by
- d. Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with a contract of the contra Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.
- Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausting the contract of the con enclosures or in listed safety cans in accordance with Section 5003.9.10 of the International Fire Code. Where Note d also applies, the increase for bothmes
- f. Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
- g. Allowed only in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
- h. Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.
- i. The maximum allowable quantity shall not apply to fuel oil storage complying with Section 603.3.2 of the International Fire Code.
- Quantities in parenthesis indicate quantity units in parenthesis at the head of each column.
- k. A maximum quantity of 200 pounds of solid or 20 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purpose.
- 1. Net weight of the pyrotechnic composition of the fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 ps. of the gross weight of the fireworks, including packaging, shall be used.
- m. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the International Fire Code.
- n. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(2)
- o. Densely packed baled cotton that complies with the packing requirements of ISO 8115 shall not be included in this material class.
- p. The following shall not be included in determining the maximum allowable quantities:

 - 1. Liquid or gaseous fuel in fuel tanks on vehicles. 2. Liquid or gaseous fuel in fuel tanks on motorized equipment operated in accordance with the International Fire Code.
 - 3. Gaseous fuels in piping systems and fixed appliances regulated by the International Fuel Gas Code.

 - 5. Alcohol-based hand rubs classified as Class I or II liquids in dispensers that are installed in accordance with Sections 5705.5 and 5705.51 International Fire Code. The location of the alcohol-based hand rub (ABHR) dispensers shall be provided in the construction documents.
- q. Where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on information and conditions create a fire or explosion hazard based on the condition of the c prepared in accordance with Section 414.1.3.

[F] TABLE 307.1(2) MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIAL POSING A HEALTH HAZARDOUS MATERIAL POSING A HEALTH HAZARDOUS

UMIXAM	W ALLOWAI	3LE QUANTITY	PER CONTROL ARE	USE-CLOSED S	YSTEMS ^b	USE-OPEN SYSTEMS ^b		
MATERIAL	Soliu Figure gament		Gas cubic feet at NTP (pounds) ^d	Solid pounds ^d			Solid pounds ^d	Liquid gallons (pounds) ^d
Corrosives	pounds ^{d, e} 5,000	500	Gaseous 810° Liquefied (150)	5,000	500	Gaseous 810° Liquefied (150)	1,000	100
Highly	10	(10)	Gaseous 20 ^g Liquefied (4) ^g	10	(10)	Gaseous 20 ^g Liquefied (4) ^g	3	(3)
Toxic	500	(500)	Gaseous 810° Liquefied (150)°	500	(500)	Gaseous 810 ^e Liquefied (150) ^e	125	(125)
TOXIC	ļ		Liquida (m. /		L			

For SI: 1 cubic foot = 0.028 m³, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

3. For use of control areas, see Section 414.2.

b. The aggregate quantity in use and storage shall not exceed the quantity listed for storage.

c. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids and with the remainder of the solutions not being flammable, shall not be limited, provided that such materials are packaged

d. Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

E. Maximum allowable quantities shall be increased 100 percent where stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in the International Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(1) and

Allowed only where stored in approved exhausted gas cabinets or exhausted enclosures as specified in the International Fire Code.

h. Quantities in parenthesis indicate quantity units in parenthesis at the head of each column.

For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the International Fire Code.

[6] 307.3.1 Occupancies containing explosives not classified as H-1. The following occupancies containing explosive materials shall be classified as follows:

- 1. Division 1.3 explosive materials that are used and maintained in a form where either confinement or configuration will not elevate the hazard from a mass fire to mass explosion hazard shall be allowed in H-2 occupancies.
- 2. Articles, including articles packaged for shipment, that are not regulated as a Division 1.4 explosive under Bureau of Alcohol, Tobacco, Firearms and Explosives regulations, or unpackaged articles used improcess operations that do not propagate a detonation or deflagration between articles shall be allowed in H-3 occupancies.

[18] 307-3-High-hazard Group H-2. Buildings and structures sometimes materials that pose a deflagration hazard or a hazattlifrom accelerated burning shall be classified as Group H-2. Such materials shall include, but not be limited to, the fol-

Class I, Il or IIIA flammable or combustible liquids that or stored in normally open containers or Seigns, or in closed containers or systems pressurized demone than 15 pounds per square inch gauge (103.4

Combinitible dusts where manufactured, generated or used in such a manner that the concentration and conditions greate a fire or explosion hazard based on information Peparetain accordance with Section 414.1.3.

Coogenie finids, flammable, Planmable gases.

Chame peroxides, Class I.

Oxidizers, Class 3, that are used or stored in normally open containers or systems, or in closed containers or systems pressurized at more than 15 pounds per square inch gauge (103 kPa).

Pyrophoric liquids, solids and gases, nondetonable. Unstable (reactive) materials, Class 3, nondetonable.

Water-reactive materials, Class 3.

[F] 307.5 High-hazard Group H-3. Buildings and structures containing materials that readily support combustion or that pose a physical hazard shall be classified as Group H-3. Such materials shall include, but not be limited to, the following:

Class I, II or IIIA flammable or combustible liquids that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103.4 kPa) or less.

Combustible fibers, other than densely packed baled cotton, where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.

Consumer fireworks, 1.4G (Class C, Common)

Cryogenic fluids, oxidizing

Flammable solids

Organic peroxides, Class II and III

Oxidizers, Class 2

Oxidizers, Class 3, that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103 kPa) or less

Oxidizing gases

Unstable (reactive) materials, Class 2

Water-reactive materials, Class 2

307.5.1 High-hazard group H-3. Consumer fireworks 1.4G (class C common) Consumer fireworks 1.4G facilities shall meet the requirements of this code and those requirements of this code and those requirements referenced in section 427.1.

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[F] 307.6 High-hazard Group H-4. Buildings and structures containing materials that are health hazards shall be classified as Group H-4. Such materials shall include, but not be limited to, the following:

Corrosives Highly toxic materials Toxic materials

[F] 307.7 High-hazard Group H-5. Semiconductor fabrication facilities and comparable research and development areas in which hazardous production materials (HPM) are used and the aggregate quantity of materials is in excess of those listed in Tables 307.1(1) and 307.1(2) shall be classified as Group H-5. Such facilities and areas shall be designed and constructed in accordance with Section 415.11.

[F] 307.8 Multiple hazards. Buildings and structures containing a material or materials representing hazards that are classified in one or more of Groups H-1, H-2, H-3 and H-4 shall conform to the code requirements for each of the occupancies so classified.

SECTION 308 INSTITUTIONAL GROUP I

308.1 Institutional Group I. Institutional Group I occupancy includes, among others, the use of a building or structure, or a portion thereof, in which care or supervision is provided to persons who are or are not capable of self-preservation without physical assistance or in which persons are detained for penal or correctional purposes or in which the liberty of the occupants is restricted. Institutional occupancies shall be classified as Group I-1, I-2, I-3 or I-4.

308.2 Definitions. The following terms are defined in Chapter 2:

24-HOUR BASIS.

CUSTODIAL CARE.

DETOXIFICATION FACILITIES.

FOSTER CARE FACILITIES.

HOSPITALS AND PSYCHIATRIC HOSPITALS.

INCAPABLE OF SELF-PRESERVATION.

MEDICAL CARE.

NURSING HOMES.

308.3 Institutional Group I-1. Institutional Group I-1 occupancy shall include buildings, structures or portions thereof for more than 16 persons, excluding staff, who reside on a 24-hour basis in a supervised environment and receive custodial care. Buildings of Group I-1 shall be classified as one of the occupancy conditions specified in Section 308.3.1 or 308.3.2. This group shall include, but not be limited to, the following:

Alcohol and drug centers
Assisted living facilities
Congregate care facilities
Group homes
Halfway houses
Residential board and care facilities
Social rehabilitation facilities

308.3.1 Condition 1. This occupancy condition shall include buildings in which all persons receiving custodial care who, without any assistance, are capable of responding to an emergency situation to complete building evacuation.

308.3.2 Condition 2. This occupancy condition shall include buildings in which there are any persons receiving custodial care who require limited verbal or physical assistance while responding to an emergency situation to complete building evacuation.

308.3.3 Six to 16 persons receiving custodial care. A facility housing not fewer than six and not more than 16 persons receiving custodial care shall be classified as Group R-4.

308.3.4 Five or fewer persons receiving custodial care. A facility with five or fewer persons receiving custodial care shall be classified as Group R-3 or shall comply with the International Residential Code provided an automatic sprinkler system is installed in accordance with Section 903.3.1.3 or Section P2904 of the International Residential Code.

308.4 Institutional Group I-2. Institutional Group I-2 occupancy shall include buildings and structures used for *medical care* on a 24-hour basis for more than five persons who are incapable of self-preservation. This group shall include, but not be limited to, the following:

Foster care facilities Detoxification facilities Hospitals Nursing homes Psychiatric hospitals

308.4.1 Occupancy conditions. Buildings of Group 12 shall be classified as one of the occupancy conditions specified in Section 308.4.1.1 or 308.4.1.2.

308.4.1.1 Condition 1. This occupancy condition shall include facilities that provide nursing and medical charbut do not provide emergency care, surgery, obsterior or in-patient stabilization units for psychiatric or detorification, including but not limited to nursing home and foster care facilities.

308.4.1.2 Condition 2. This occupancy condition slip include facilities that provide nursing and medical call and could provide emergency care, surgery, obstetor or in-patient stabilization units for psychiatric or details iffication, including but not limited to hospitals.

308.4.2 Five or fewer persons receiving medical carefacility with five or fewer persons receiving medical sa shall be classified as Group R-3 or shall comply within International Residential Code provided an automos sprinkler system is installed in accordance with Sector 903.3.1.3 or Section P2904 of the International Residential Code. 308.5 Institutional Group I-3. Institutional Group I-3 occupancy shall include buildings and structures that are inhabited by more than five persons who are under restraint or security. A Group I-3 facility is occupied by persons who are generally incapable of self-preservation due to security measures not under the occupants' control. This group shall include, but not be limited to, the following:

Correctional centers
Detention centers
Jails
Prerelease centers
Prisons
Reformatories

Buildings of Group I-3 shall be classified as one of the occupancy conditions specified in Sections 308.5.1 through 308.5.5 (see Section 408.1).

308.5.1 Condition 1. This occupancy condition shall include buildings in which free movement is allowed from sleeping areas, and other spaces where access or occupancy is permitted, to the exterior via means of egress without restraint. A Condition 1 facility is permitted to be constructed as Group R.

308.5.2 Condition 2. This occupancy condition shall include buildings in which free movement is allowed from sleeping areas and any other occupied *smoke compartment* to one or more other *smoke compartments*. Egress to the exterior is impeded by locked *exits*.

308.5.3 Condition 3. This occupancy condition shall include buildings in which free movement is allowed within individual smoke compartments, such as within a residential unit comprised of individual sleeping units and group activity spaces, where egress is impeded by remotecontrolled release of means of egress from such a smoke compartment to another smoke compartment.

308.5.4 Condition 4. This occupancy condition shall include buildings in which free movement is restricted from an occupied space. Remote-controlled release is provided to permit movement from sleeping units, activity spaces and other occupied areas within the smoke compariments other smoke compartments.

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308.6 Institutional Group I-4, day care facilities. Institutional Group I-4, day care facilities. Institutional Group I-4, occupancy shall include buildings and structurars occupied by more than five persons of any age who receive available parents or guardians, relatives by blood, marnage of adoption, and in a place other than the home of the in, the fellowing

Adult des eure Chidd day care 308.6.1 Classification as Group E. A child day care facility that provides care for more than five but not more than 100 children 2¹/₂ years or less of age, where the rooms in which the children are cared for are located on a *level of exit discharge* serving such rooms and each of these child care rooms has an *exit* door directly to the exterior, shall be classified as Group E.

308.6.2 Within a place of religious worship. Rooms and spaces within places of religious worship providing such care during religious functions shall be classified as part of the primary occupancy.

308.6.3 Five or fewer persons receiving care. A facility having five or fewer persons receiving *custodial care* shall be classified as part of the primary occupancy.

308.6.4 Five or fewer persons receiving care in a dwelling unit. A facility such as the above within a dwelling unit and having five or fewer persons receiving custodial care shall be classified as a Group R-3 occupancy or shall comply with the International Residential Code.

SECTION 309 MERCANTILE GROUP M

309.1 Mercantile Group M. Mercantile Group M occupancy includes, among others, the use of a building or structure or a portion thereof for the display and sale of merchandise, and involves stocks of goods, wares or merchandise incidental to such purposes and accessible to the public. Mercantile occupancies shall include, but not be limited to, the following:

Department stores
Drug stores
Markets
Motor fuel-dispensing facilities
Retail or wholesale stores
Sales rooms

309.2 Quantity of hazardous materials. The aggregate quantity of nonflammable solid and nonflammable or noncombustible liquid hazardous materials stored or displayed in a single *control area* of a Group M occupancy shall not exceed the quantities in Table 414.2.5(1).

SECTION 310 RESIDENTIAL GROUP R

310.1 Residential Group R. Residential Group R includes, among others, the use of a building or structure, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I or when not regulated by the *International Residential Code*.

310.2 Definitions. The following terms are defined in Chapter 2:

BOARDING HOUSE.

CONGREGATE LIVING FACILITIES.

DORMITORY.

GROUP HOME.

GUEST ROOM.

LODGING HOUSE.

PERSONAL CARE SERVICE.

TRANSIENT.

310.3 Residential Group R-1. Residential Group R-1 occupancies containing sleeping units where the occupants are primarily transient in nature, including:

Boarding houses (transient) with more than 10 occupants Congregate living facilities (transient) with more than 10 occupants

Hotels (transient)

Motels (transient)

310.4 Residential Group R-2. Residential Group R-2 occupancies containing sleeping units or more than two dwelling units where the occupants are primarily permanent in nature, including:

Apartment houses

Boarding houses (nontransient) with more than 16 occupants

Congregate living facilities (nontransient) with more than 16 occupants

Convents

Dormitories

Fraternities and sororities

Hotels (nontransient)

Live/work units

Monasteries

Motels (nontransient)

Vacation timeshare properties

- 310.5 Residential group R-3. Residential occupancies where the occupants are primarily permanent in nature and not classified as group R-1, R-2, R-4, or I, including any of the following:
 - (a) Adult foster care family homes or adult foster care small group homes licensed per the adult foster care facility licensing act, 1979 PA 218, MCL 400.701 to 400.737, that provide accommodations for 6 or fewer persons receiving care.
 - (b) Buildings that do not contain more than 2 dwelling units.
 - (c) Boarding houses (nontransient) with 16 or fewer occupants.
 - (d) Boarding houses (transient) with 10 or fewer occupants.
 - (e) Congregate living facilities (nontransient) with 16 or fewer occupants.
 - Congregate living facilities (transient) with 10 or fewer occupants.
 - Foster family homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for not more than 4 minor children.
 - (h) Foster care family group homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 4 but fewer than 7 minor children.

- 310.5.1 Care facilities within a dwelling. Care facilities that are located within a single- family dwelling may comply with the Michigan residential code if 1 of the following conditions is met:
 - (a) Adult foster care family homes or adult foster care small group homes for 6 or fewer persons receiving care that are within a single-family dwelling and licensed in accordance with the adult foster care facility licensing act, 1979 PA 218, MCL 400.701 to 400.737.
 - (b) Family child care homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for fewer than 7 minor children.
 - Group child care homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 6 but not more than 12 minor children.
 - (d) Foster family homes licensed per the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for not more than 4 minor children.
 - Foster care family group homes licensed per the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 4 but fewer than 7 minor children.

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310.5.2 Lodging houses. Owner-occupied lodging houses with five or fewer guest rooms shall be permitted to be constructed in accordance with the International Residen tial Code.

310.6 Residential Group R-4. Residential Group R-4 occo pancy shall include buildings, structures or portions there for more than five but not more than 16 persons, excluding staff, who reside on a 24-hour basis in a supervised results tial environment and receive custodial care. Buildings Group R-4 shall be classified as one of the occupancy comtions specified in Section 310.6.1 or 310.6.2. This group ala include, but not be limited to, the following:

Alcohol and drug centers Assisted living facilities Congregate care facilities Group homes Halfway houses Residential board and care facilities Social rehabilitation facilities

Group R-4 occupancies shall meet the requirements construction as defined for Group R-3, except as office provided for in this code.

310.6.1 Condition 1. This occupancy condition include buildings in which all persons receiving engine care, without any assistance, are capable of responding an emergency situation to complete building evacuate

310.6.2 Condition 2. This occupancy condition include buildings in which there are any persons received custodial care who require limited verbal or physicals tance while responding to an emergency situation to complete building evacuation.

SECTION 311 STORAGE GROUP S

311.1 Storage Group S. Storage Group S occupancy includes, among others, the use of a building or structure, or a portion thereof, for storage that is not classified as a hazardous occupancy.

311.1.1 Accessory storage spaces. A room or space used for storage purposes that is less than 100 square feet (9.3 m²) in area and accessory to another occupancy shall be classified as part of that occupancy. The aggregate area of such rooms or spaces shall not exceed the allowable area limits of Section 508.2.

311.2 Moderate-hazard storage, Group S-1. Storage Group S-1 occupancies are buildings occupied for storage uses that are not classified as Group S-2, including, but not limited to, storage of the following:

Aerosols, Levels 2 and 3

Aircraft hangar (storage and repair)

Bags: cloth, burlap and paper

Bamboos and rattan

Baskets

Belting: canvas and leather

Books and paper in rolls or packs

Boots and shoes

Buttons, including cloth covered, pearl or bone

Cardboard and cardboard boxes

Clothing, woolen wearing apparel

Cordage

Dry boat storage (indoor)

Furniture

Glues, mucilage, pastes and size

Horns and combs, other than celluloid

Leather

Lindeum

Lumber -

Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials listed in Table 307.1(1) (see Section 406.8)

Photo engravings

Resilient flooring

Silks

Soans

Sugar

Tires bulk storage of

Jobacos, eigars, eigarettes and snuff

Upholshery and mattresses Wax candles

3113 Taow-hazard storage, Group S-2. Storage Group S-2 excupancies include, among others, buildings used for the Morage of noncombustible materials such as products on wood patters or in paper cartons with or without single thickicas distribus, or in paper wrappings. Such products are permined to have a negligible amount of plastic trim, such as

knobs, handles or film wrapping. Group S-2 storage uses shall include, but not be limited to, storage of the following:

Beverages up to and including 16-percent alcohol in metal, glass or ceramic containers

Cement in bags

Chalk and crayons

Dairy products in nonwaxed coated paper containers

Dry cell batteries

Electrical coils

Electrical motors

Empty cans

Food products

Foods in noncombustible containers

Fresh fruits and vegetables in nonplastic trays or

containers

Frozen foods

Glass

Glass bottles, empty or filled with noncombustible liquids

Gypsum board

Inert pigments

Ivory

Meats

Metal cabinets

Metal desks with plastic tops and trim

Metal parts

Metals

Mirrors

Oil-filled and other types of distribution transformers

Parking garages, open or enclosed

Porcelain and pottery

Stoves

Talc and soapstones

Washers and dryers

SECTION 312 UTILITY AND MISCELLANEOUS GROUP U

312.1 General. Buildings and structures of an accessory character and miscellaneous structures not classified in any specific occupancy shall be constructed, equipped and maintained to conform to the requirements of this code commensurate with the fire and life hazard incidental to their occupancy. Group U shall include, but not be limited to, the following:

Agricultural buildings

Aircraft hangars, accessory to a one- or two-family residence (see Section 412.5)

Barns

Carports

Fences more than 6 feet (1829 mm) in height

Grain silos, accessory to a residential occupancy

Greenhouses

Livestock shelters

Private garages

Retaining walls

Sheds

Stables

Tanks

Towers