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REVISOR

## 1.1 **Department of Labor and Industry**

## 1.2 Adopted Permanent Rules Adopting the International Fire Code

### 1.3 **7511.0090 CODES AND STANDARDS INCORPORATED BY REFERENCE.**

Subpart 1. International Fire Code. For purposes of this chapter, "IFC" means the 1.4 2012 edition of the International Fire Code as promulgated by the International Code 1.5 Council, Inc., Washington, D.C. The IFC is incorporated by reference and made a part of 1.6 Minnesota Rules pursuant to statutory authority, subject to the alterations and amendments 1.7 in this chapter. Portions of this chapter reproduce text and tables from the IFC. The IFC is 1.8 not subject to frequent change and is available at the office of the commissioner of the 19 Department of Labor and Industry and at the State Law Library, 25 Rev. Dr. Martin 1.10 Luther King Jr. Blvd., St. Paul, Minnesota 55155. The IFC is copyright 2011 by the 1.11 International Code Council, Inc. All rights reserved. 1.12

1.13 Subp. 2. [See repealer.]

### 1.14 **7511.0102 SECTION 102, APPLICABILITY.**

1.15 Subpart 1. **IFC section 102.1.** IFC section 102.1 is amended, and sections added, to 1.16 read:

1.17 **102.1 Construction and design provisions.** The construction and design provisions of
1.18 this code shall apply to:

1.19 1. Structures, facilities, and conditions arising after the adoption of this code.

- 1.202. Existing structures, facilities, and conditions when identified in specific sections1.21of this code.
- 1.22 3. Existing structures, facilities, and conditions that, in the opinion of the code1.23 official, constitute a distinct hazard to life and property.

1.24 102.1.1 Existing building features - application. Existing construction and design
1.25 features that exceed the requirements for existing structures or facilities but are equal
1.26 to or less than the requirements for new structures or facilities shall not be further

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2.1	diminished. Existing cons	struction and design features	that exceed the req	luirements
2.2	for new structures or faci	lities are allowed to be remo	ved. (See Section	901.6
2.3	concerning maintenance of	of fire protection systems.)		
2.4	Subp. 2. IFC section 102	<b>2.2.</b> IFC section 102.2 is amer	ided by adding a sec	ction to read:
2.5	102.2.1 Operational pro	visions - defined. The opera	tional provisions of	f this code
2.6	are those operations defin	ed in Sections 105.6.1 throug	gh 105.6.46.	
2.7	Subp. 3. IFC section 102	<b>2.7.3.</b> IFC section 102.7 is an	nended by adding a	a section to
2.8	read:			
2.9	102.7.3 References to IC	<b>CC codes.</b> The references to	the codes and stand	dards
2.10	promulgated by the Intern	national Code Council (listed	under ICC in Cha	pter 80)
2.11	are modified as follows:			
2.12	1. Wherever this cod	e references the ICC Electric	al Code, it means t	he Electrical
2.13	Code, Minnesota Ru	les, chapter 1315.		
2.14	2. Wherever this cod	e references the International	l Building Code, it	means the
2.15	Minnesota State Buil	ding Code adopted pursuant	to Minnesota Statu	tes, section
2.16	326B.106, subdivisio	on 1.		
2.17	3. Wherever this coc	le references the Internationa	l Fuel Gas Code, in	t means
2.18	the Minnesota State	Mechanical Code adopted pu	rsuant to Minnesot	a Statutes,
2.19	section 326B.106.			
2.20	4. Wherever this cod	le references the Internationa	l Mechanical Code	, it means
2.21	the Minnesota State 1	Mechanical Code adopted pu	rsuant to Minnesot	a Statutes,
2.22	section 326B.106.			
2.23	5. Wherever this cod	e references the International	l Plumbing Code, i	t means the
2.24	Minnesota Plumbing	Code, Minnesota Rules, cha	pter 4715.	
2.25	6. Wherever this cod	le references the Internationa	l Residential Code,	, it means
2.26	the Minnesota Reside	ential Code adopted pursuant	to Minnesota Statu	utes, section
2.27	326B.106, subdivisio	on 1.		

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3.1	7. Wherever this code	references the Internationa	ll Existing Building	g Code,
3.2	it means the Minnesot	a Conservation Code for E	xisting Buildings a	dopted
3.3	pursuant to Minnesota	Statutes, section 326B.106	, subdivision 1.	
3.4	Subp. 4. IFC section 102.	IFC section 102 is amende	d by adding section	ns to read:
3.5	102.13 Standards for existing			
3.6	existing Group I-2 occupancies,			
3.7	and correctional facilities, shall	be in accordance with the	applicable provisio	ns of the
3.8	Life Safety Code, ANSI/NFPA	101, referred to as Standard	d No. 101, publish	ed by the
3.9	National Fire Protection Associa	ation (Quincy, Massachuse	tts, 2000). Standard	d No. 101 is
3.10	incorporated by reference, is no	t subject to frequent change	e and is available a	t the State
3.11	Law Library, 25 Rev. Dr. Marti	n Luther King Jr. Blvd., Sa	int Paul, Minnesota	a 55155.
3.12	Construction provisions of	Standard No. 101 that are	more restrictive that	an those
3.13	found in the Building Code shall	ll not be applicable. For the	e purposes of Section	on 102.13,
3.14	construction provisions shall inc	clude those relating to type	of construction, au	itomatic
3.15	fire-extinguishing and standpipe	e systems, fire alarm and de	etection systems, vo	ertical
3.16	opening protection, escape wind	lows, exits, smoke barriers,	, accessibility for p	ersons with
3.17	disabilities and hazardous area	separations.		
3.18	102.13.1 Standard 101 m	odified. Sections 23.3.7 thr	ough 23.3.7.3 of S	tandard
3.19	No. 101 are deleted.			
3.20	<b>102.14 Mixed occupancies.</b> W	here a building is occupied	for two or more u	ses not
3.21	included in the same occupancy	, the building or portion the	ereof shall be class	ified as a
3.22	mixed occupancy. The mixed of	ccupancy shall be further c	lassified as either no	onseparated
3.23	uses or separated uses according	g to the Building Code. Are	as of Group H shal	ll only be as
3.24	separated uses as permitted by t	he Building Code.		
3.25	102.14.1 Separated uses. 1	Each portion of the building	g shall be individua	lly classified
3.26	as to use. Each fire area sh	all comply with the Fire Co	ode based on the us	se of that

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4.1 space. Provisions for egress between different occupancies shall be in accordance
4.2 with Chapter 10.

4.3 102.14.2 Nonseparated uses. Each portion of the building shall be individually
4.4 classified as to use. The most restrictive provisions of the Fire Code shall apply to
4.5 the nonseparated uses. Provisions for egress between different occupancies shall be
4.6 in accordance with Chapter 10.

# 4.7 **7511.0104 SECTION 104, GENERAL AUTHORITY AND RESPONSIBILITIES.**

4.8 IFC section 104.9 is amended by adding sections to read:

104.9.3 Performance-based fire and life safety design. The code official is 4.9 authorized to approve performance-based fire and life safety designs where the code 4.10 official finds that the proposed design has been conducted by an approved method. 4.11 Approved performance-based designs shall be deemed as evidence of compliance 4.12 with the intent of this code. Approvals under the authority herein contained shall be 4.13 subject to the approval of the building code official whenever the design involves 4.14 matters regulated by the Building Code. Sections 104.9.3.1 through 104.9.3.4 shall 4.15 apply to performance-based designs. 4.16

104.9.3.1 Goals, objectives and acceptance criteria. Design goals, objectives 4.17 and performance criteria shall be approved by the code official prior to the 4.18 submission of a performance-based design report, calculations or analysis 4.19 results. As a minimum, an approved performance-based design shall address 4.20 the following objectives: life safety of occupants, firefighter safety, property 4.21 protection, continuity of operations and safeguarding of the environment. 4.22 **104.9.3.2 Peer review.** To determine the acceptability of the performance-based 4.23 design, the code official is authorized to request technical assistance in 4.24 accordance with Section 104.7.2. 4.25

4.26 **104.9.3.3 Engineer of record.** Performance-based designs shall be prepared by,
4.27 and bear the stamp of, a licensed design professional competent in the area of

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5.13 **7511.0105 SECTION 105, PERMITS.** 

5.14 IFC section 105.7.13 is deleted.

# 5.15 **7511.0109 SECTION 109, VIOLATIONS.**

5.16 IFC section 109.4 is amended to read:

5.17 **109.4 Violation penalties.** A person who violates a provision of this code shall be guilty5.18 of a misdemeanor.

# 5.19 **7511.0202 SECTION 202, GENERAL DEFINITIONS.**

5.20 IFC section 202 is amended by adding or amending definitions to read:

5.21 ADULT DAY CARE CENTER. A facility, licensed by the Department of Human

5.22 Services under Minnesota Rules, parts 9555.9600 to 9555.9730, that provides a program of

adult day care services to functionally impaired adults for periods of less than 24 hours per

5.24 day in a setting other than a participant's home or the residence of the facility's operator.

# 5.25 **AERIAL LUMINARIES.** Aerial luminaries, sky lanterns, and similar devices are an

5.26 unmanned type of balloon made from lightweight materials, which require a flame, candle,

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6.1	fuel cell, or other open flame to devel	op lift and propel then	n. When released,	there is no
6.2	way to control the flight path, altitude	e, or landing area.		
6.3	AMBULATORY CARE FACILITY	. Buildings or portion	s of buildings used	to provide
6.4	medical, surgical, psychiatric, nursing	g, or similar care on a	less than 24-hour	basis to
6.5	individuals who are rendered incapab	le of self-preservation	by the services pro	ovided. For
6.6	the purposes of this chapter, federally	certified end-stage ren	nal disease facilitie	es (kidney
6.7	dialysis facilities) located on the level	of exit discharge shall	l not be considered	l ambulatory
6.8	care facilities.			
6.9	AISLE. That portion of an exit that co	onnects an aisle access	way to an exit acce	ess doorway,
6.10	corridor, or an exit.			
6.11	APPROVED. "Approved" means ap	proval by the fire code	e official, pursuant	to the
6.12	Minnesota State Fire Code, by reason	of:		
6.13	A. Inspection, investigation, or to	esting;		
6.14	B. Accepted principles;			
6.15	C. Computer simulations;			
6.16	D. Research reports; or			
6.17	E. Testing performed by either a	licensed engineer or b	by a locally or nati	onally
6.18	recognized testing laboratory.			
6.19	AUTHORITY HAVING JURISDIC	<b>CTION.</b> Any municipation	al fire code official	l serving
6.20	within their appointed jurisdiction or	the state fire marshal	or any of their auth	horized
6.21	representatives.			
6.22	BUILDING CODE. The Minnesota	State Building Code a	dopted pursuant to	Minnesota
6.23	Statutes, section 326B.106, subdivision	on 1.		
6.24	CARE FACILITY. Occupancies use	d as care facilities sha	Ill be classified int	to the
6.25	occupancy group category identified i	in the following table.		
6.26	Care F	acility Classifications	5	

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7.1 7.2 7.3	Туре о	f Licensed Facility	Number or Type of Residents	IBC Occupancy Classification
7.4 7.5	Child Care (Day Care)	Family Child Care Home	10 occupants maximum with $\leq 6$ below school age	R-3 Dwelling Unit
7.6 7.7		Group Child Care Home < 24 hours per day	11-14 occupants maximum	R-3 Dwelling Unit
7.8 7.9 7.10 7.11		Child Care Center < 24 hours per day	$> 5$ but $\le 100$ children $< 2.5$ years of age and each room at, and with, an exit at the level of exit discharge	Ε
7.12 7.13		Child Care Center < 24 hours per day	More than 5 children > 2.5 years of age	Е
7.14 7.15		Child Care Center < 24 hours per day	More than 5 children $\leq 2.5$ years of age	I-4
7.16 7.17	Adult Day Care	Family Adult Day Services	$\leq$ 8 impaired adults	R-3 Dwelling Unit
7.18 7.19 7.20		Adult Day Care Center < 24 hours per day	6 or more occupants, all may or may not be capable of self-preservation	I-4
7.21 7.22 7.23 7.24 7.25		Adult Day Care Center < 24 hours per day	6 or more occupants, but having no more than 50 percent of the occupants who are not capable of self-preservation	Ε
7.26 7.27 7.28	Supervised Living Facilities	Class A-1	6 or fewer residents; all of whom are capable of self-preservation	R-3 Dwelling Unit
7.29 7.30 7.31		Class A-2	7 to 16 residents; all of whom are capable of self-preservation	R-4
7.32 7.33 7.34		Class A-2	More than 16 residents; all of whom are capable of self-preservation	I-1

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8.1 8.2 8.3		Class B-1	6 or fewer residents; all of whom may not be capable of self-preservation	R-3
8.4 8.5 8.6		Class B-2	7 to 16 residents; all of whom may not be capable of self-preservation	R-4
8.7 8.8 8.9		Class B-3	More than 16 residents; all of whom may not be capable of self-preservation	I-2
8.10	Hospice	Residential Hospice Facility	1-5 terminally ill persons	R-3
8.11		Residential Hospice Facility	6-12 terminally ill persons	R-4
8.12 8.13	Adult Foster Care	Adult Foster Care Home	1-5 impaired adults	R-3 Dwelling Unit
8.14 8.15 8.16	Child Foster Care	Foster Care	1-6 foster children without severe disability or assisted medical technology	R-3 Dwelling Unit
8.17 8.18 8.19		Foster Care	1-4 foster children with medical or special care services	R-3 Dwelling Unit
8.20 8.21 8.22 8.23 8.24	Housing with Services Facility	Housing with Services Establishment Housing with Services Establishment Providing Assisted Living Services	1-5 adult residents $\geq 80$ percent 55 years of age or older unless registered under MN Statutes, section 144D.025	R-3 Dwelling Unit
8.25 8.26 8.27 8.28 8.29		Housing with Services Establishment Housing with Services Establishment Providing Assisted Living Services	6-16 adult residents $\geq 80$ percent 55 years of age or older unless registered under MN Statutes, section 144D.025	R-4
<ul><li>8.30</li><li>8.31</li><li>8.32</li><li>8.33</li><li>8.34</li></ul>		Housing with Services Establishment Housing with Services Establishment Providing Assisted Living Services	> 16 adult residents $\ge$ 80 percent 55 years of age or older unless registered under MN Statutes, section 144D.025	I-1

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9.1 9.2	Boarding Care	Boarding Care Home	< 5 residents		R-3 Dwelling Unit
9.3		Boarding Care Home	6-16 residents		R-4
9.4		Boarding Care Home	> 16 residents		I-1
9.5 9.6	Boarding and Lodging	Boarding and Lodging	$\leq$ 16 residents in rooms or $\leq$ 2 dwe		R-3
9.7 9.8		Boarding and Lodging	> 16 residents in rooms or > 2 dwe		R-2
9.9 9.10 9.11 9.12		Boarding and Lodging < 30 days	Bed and Breakfas more sleeping un Boarding houses occupants	its	R-1
9.13 9.14 9.15 9.16		Boarding and Lodging < 30 days	Bed and Breakfast fewer sleeping un Boarding houses occupants	nits	R-3 Dwelling Unit
9.17 9.18	Senior Housing	Senior Housing (See IBC 310)	More than 2 dwe in one building	lling units	R-2
9.19 9.20		Senior Housing (See IBC 310)	2 family dwelling one building	g units in	R-3
9.21 9.22		Senior Housing (See IBC 310)	1 dwelling unit		R-3 Dwelling Unit
9.23 9.24	Congregate Residence	Congregate Residence	$\leq$ 16 residents		R-3
9.25		Congregate Residence	17 or more reside	ents	R-2
9.26	Day Services	Day Services Facility	Adult (over 18)		I-4
9.27		Day Services Facility	Ages 13-18		I-4
9.28 9.29 9.30 9.31	Chemical Dependency Treatment Programs	Chemical Dependency Treatment Program - Outpatient (< 24 hrs.)	Not regulated		В

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10.1 10.2 10.3	Chemical Dependency Treatment Program - Residential	< 5 residents		R-3 Dwelling Unit
10.4 10.5 10.6	Chemical Dependency Treatment Program - Residential	6-16 residents		R-4
10.7 10.8 10.9	Chemical Dependency Treatment Program - Residential	> 16 residents		I-1

10.10 CHIEF. See FIRE CHIEF.

10.11 **CORRIDOR.** An interior passageway having a length at least three times its width,

10.12 having walls, partitions, or other obstructions to exit travel over 6 feet (1,829 mm) in

10.13 height on two opposing sides and having openings from rooms or similar spaces.

**DECORATIVE MATERIALS.** Combustible materials used for decorative effects such as 10.14 curtains; draperies; streamers; surface coverings applied over building interior finishes for 10.15 decorative, acoustical or other effect; cloth; cotton batting; paper; plastics; vegetation; hay; 10.16 split bamboo; straw; vines; leaves; trees; moss; and similar materials used for decorative 10.17 effect. Decorative materials do not include educational materials that are displayed in an 10.18 approved manner, ordinary window shades, floor coverings, interior finish materials used 10.19 10.20 as surface coverings (See Chapter 8 for regulations of such materials) and materials 1/28 inch (0.9 mm) or less in thickness applied directly to a noncombustible backing. 10.21 FAMILY ADULT DAY SERVICES. A program providing services for up to eight 10.22 functionally impaired adults for less than 24 hours per day in the license holder's primary 10.23 residence in accordance with Minnesota Statutes, section 245A.143. This includes 10.24 programs located in residences licensed by the Department of Human Services for 10.25 adult foster care, provided not more than eight adults, excluding staff, are present in 10.26 the residence at any time. 10.27

FAMILY DAY CARE HOME. A residence, licensed by the Department of Human
Services under Minnesota Rules, parts 9502.0315 to 9502.0445, in which no more than

11.1	ten children at any one time receive care, maintenance and supervision by other than their
11.2	relatives or legal guardians for less than 24 hours per day.
11.3	FIRE CHIEF. The chief officer of the fire department serving the jurisdiction or the
11.4	chief's authorized representatives.
11.5	FIRE CODE OFFICIAL. The state fire marshal, the state fire marshal's authorized
11.6	representative, fire chief, fire department representatives authorized by the fire chief, or
11.7	other authority specifically designated by ordinance or regulation that is charged with the
11.8	administration and enforcement of the code. The appointing authority shall ensure that
11.9	the fire code official is competent by virtue of certification as a fire inspector, training, or
11.10	experience in fire prevention inspections and enforcement.
11.11	FIRE DEPARTMENT. A regularly organized fire department, fire protection district,
11.12	or fire company regularly charged with the responsibility of providing firefighting or fire
11.13	protection services to the state or a political subdivision.
11.14	GROUP DAY CARE HOME. A residence, licensed by the Department of Human
11.15	Services under Minnesota Rules, parts 9502.0315 to 9502.0445, in which at least 11 but
11.16	not more than 14 children receive care, maintenance and supervision by other than their
11.17	relatives or legal guardians for less than 24 hours per day.
11.18	GUEST ROOM. A room or a group of rooms used or intended to be used for purposes of
11.19	lodging by guests.
11.20	<b>INTERMEDIATE BULK CONTAINER.</b> A storage container meeting the requirements
11.21	of and containing products authorized by the United States Department of Transportation
11.22	Hazardous Materials Regulations, Code of Federal Regulations, title 49, or by Part 6 of
11.23	the United Nations Recommendations on the Transport of Dangerous Goods for classes
11.24	31H1, 31H2, and 31HZ1.
11.25	MECHANICAL CODE. The Minnesota State Mechanical Code as adopted pursuant
11.26	to Minnesota Statutes, section 326B.106.

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12.1	MUNICIPALITY. Any statutor	ry or home rule charter cit	y, county or town 1	meeting the
12.2	requirements of Minnesota State	utes, section 368.01, subd	ivision 1, the Univ	ersity of
12.3	Minnesota, or the state for public	ic buildings.		
12.4	OCCUPANCY CLASSIFICA	<b>FION.</b> Except as modified	l by this part, for th	e purposes of
12.5	this code, certain occupancies an	nd uses are defined. All of	ther subdefinitions	not modified
12.6	in this definition still apply:			
12.7	Institutional Group I.			
12.8	Group I-1. This occup	pancy shall include buildi	ngs, structures, or j	portions
12.9	thereof for more than s	sixteen persons who resid	e, on a 24-hour bas	sis, in a
12.10	supervised environmer	nt and receive custodial ca	re services. Examp	ples of this
12.11	group include the follo	owing:		
12.12	Alcohol and drug	centers		
12.13	Assisted living set	rvices		
12.14	Boarding care hor	nes		
12.15	Congregate care f	acilities		
12.16	Convalescent faci	lities		
12.17	Group homes			
12.18	Halfway houses			
12.19	Housing with serv	vices establishment		
12.20	Residential board	and care facilities		
12.21	Social rehabilitation	on facilities		
12.22	Supervised living	facilities Class A-2		
12.23	A facility such as the a	bove with five or fewer p	ersons receiving su	ch care shall
12.24	be classified as Group	R-3.		
12.25	A facility such as the a	above housing at least six	and not more than	sixteen

12.26 persons receiving such care shall be classified as Group R-4.

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13.1		Group I-2. This occupancy shall include buildings and structures used for
13.2		medical care on a 24-hour basis for more than five persons who are incapable of
13.3		self-preservation. Examples of this group include the following:
13.4		Detoxification facilities
13.5		Foster care facilities
13.6		Hospitals
13.7		Nursing homes
13.8		Psychiatric hospitals
13.9		Supervised living facilities Class B-3
13.10		A facility such as the above with five or fewer persons receiving care shall be
13.11		classified as Group R-3.
13.12		Group I-4, Day care facilities. This group shall include buildings and structures
13.13		occupied by more than five persons of any age who receive custodial care for
13.14		less than 24 hours per day by persons other than parents or guardians, relatives
13.15		by blood, marriage, or adoption, and in a place other than the home of the person
13.16		eared for receiving care. This group shall include, but not be limited to, the
13.17		following:
13.18		Adult day care
13.19		Child day care
13.20	Cla	ssification as Group E. A child day care facility that provides care for more than
13.21	five	but no more than 100 children 2-1/2 years or less of age, where the rooms in
13.22	whi	ch the children are cared for are located on a level of exit discharge serving such
13.23	roo	ns and each of these child care rooms has an exit door directly to the exterior,
13.24	sha	l be classified as Group E.
13.25	Wi	hin a place of religious worship. Rooms and spaces within places of religious
13.26	WO	ship providing such care during religious functions shall be classified as part of
13.27	the	primary occupancy.

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14.1	Five or fewer occupants rec	ceiving care. A facility l	naving five or fewe	er persons
14.2	receiving custodial care shall	be classified as part of t	he primary occupat	ncy.
14.3	Five or fewer occupants rec	ceiving care in a dwellin	ng unit. A facility	such as the
14.4	above within a dwelling unit	and having five or fewer	r persons receiving	custodial
14.5	care shall be classified as a C	Froup R-3 occupancy.		
14.6	<b>Residential Group R.</b>			
14.7	Residential Group I	R includes, among others	s, the use of a build	ding or
14.8	structure, or a portion	on thereof, for sleeping p	ourposes when not o	classified as
14.9	an Institutional Grou	up I. Residential occupar	icies shall include t	he following:
14.10	R-1. Residential occupa	ncies containing sleeping	g units where the o	ccupants are
14.11	primarily transient in na	ture, including:		
14.12	Bed and breakfast fa	acilities with six or more	guest rooms. A fa	acility with
14.13	less than six guest re	ooms shall be classified a	as a Group R-3 occ	supancy
14.14	Boarding houses (tr	ansient) with more than	ten occupants	
14.15	Congregate living fa	acilities (transient) with 1	more than ten occu	pants
14.16	Hotels (transient)			
14.17	Motels (transient)			
14.18	<b>R-2.</b> Residential occupa	incies containing sleepin	g units or more that	an two
14.19	dwelling units where the	occupants are primarily	permanent in natur	re, including:
14.20	Apartment houses			
14.21	Boarding houses (no	ot transient) with more th	nan sixteen occupar	nts
14.22	Congregate living fa	acilities (nontransient) w	ith more than sixted	en occupants
14.23	Convents			
14.24	Dormitories			
14.25	Fraternities and sore			
14.26	Hotels (not transien	t)		
14.27	Monasteries			

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15.1		Motels (not transient)			
15.2		Vacation time-share prop	erties		
15.3	R	<b>R-3.</b> Residential occupancies	where the occupat	nts are primarily per	manent in
15.4	n	ature and not classified as R-	1, R-2, R-4 or I, in	ncluding:	
15.5		Assisted living services			
15.6		Buildings that do not con	tain more than two	dwelling units	
15.7		Boarding care homes			
15.8		Boarding houses (nontrar	sient) with sixteer	n or fewer occupants	
15.9		Boarding houses (transien	nt) with ten or few	er occupants	
15.10		Care facilities that provid	le accommodation	s for five or fewer p	ersons
15.11		receiving care			
15.12		Congregate living faciliti	es (nontransient) w	with sixteen or fewer	occupants
15.13		Congregate living faciliti	es (transient) with	ten or fewer occupa	nts
15.14		Dwelling units in mixed	occupancy buildin	gs	
15.15		Family adult foster home			
15.16		Foster care			
15.17		Housing with services es	tablishment		
15.18		Residential hospice with	five or fewer occu	pants	
15.19	R	<b>R-4.</b> This occupancy shall inc	clude buildings, str	ructures or portions t	hereof for
15.20	n	nore than five but not more th	nan sixteen occupa	nts, excluding staff,	who reside
15.21	0	n a 24-hour basis in a superv	ised residential en	vironment and receiv	ve custodial
15.22	C	are. The persons receiving c	are are capable of	self-preservation. E	xamples
15.23	0	f this group include the follo	wing:		
15.24		Alcohol and drug centers			
15.25		Assisted living services			
15.26		Boarding care homes			
15.27		Congregate care facilities	5		

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16.1	Group homes
16.2	Halfway houses
16.3	Housing with services establishment
16.4	Residential board and care facilities
16.5	Residential hospice with twelve or fewer occupants
16.6	Social rehabilitation facilities
16.7	Group R-4 occupancies shall meet the requirements for construction as defined
16.8	for Group R-3 except as otherwise provided for in this code.
16.9	OUTPATIENT CLINIC. Buildings or portions thereof used to provide medical care on
16.10	a less than 24-hour basis to persons who are not rendered incapable of self-preservation
16.11	by the services provided, including federally certified end-stage renal disease facilities
16.12	(kidney dialysis facilities) not classified as an ambulatory care facility.
16.13	PERFORMANCE-BASED DESIGN. An engineering approach to design elements of a
16.14	building based on agreed-upon performance goals and objectives, engineering analysis
16.15	and quantitative assessment of alternatives against the design goals and objectives using
16.16	accepted engineering tools, methodologies and performance criteria.
16.17	POWER TAP. A device that is connected to an electrical receptacle, has built-in
16.18	overcurrent protection and allows connection of one or more electrical plugs to supply
16.19	electricity to other devices and equipment.
16.20	<b>REQUIRED BY THE FIRE CHIEF.</b> Determined by the fire chief to be directly related
16.21	to safeguarding life and property from the hazards of fire, and uniform for each class or
16.22	kind of building, structure or property covered.
16.23	<b>RESIDENTIAL HOSPICE FACILITY.</b> A facility located in a residential area that
16.24	directly provides 24-hour residential and support services in a home-like setting for not
16.25	more than 12 persons who have been diagnosed as terminally ill with a probable life
16.26	expectancy of under one year.

03/02/16 REVISOR SS/NB AR4148 **ROOM.** A space or area bounded by any obstructions over 6 feet in height which at 17.1 any time enclose more than 80 percent of the perimeter of the area. In computing the 17.2 unobstructed perimeter, openings less than 3 feet in clear width and less than 6 feet 8 inches 17.3 high shall not be considered. Aisles and corridors shall not be construed to form rooms. 17.4SMALL HOSE CONNECTION. "Small hose connection" means a 1 1/2-inch connection 17.5 supplied inside of a building for firefighting overhaul operations in sprinkler-protected 17.6 structures. 177 STATE FIRE MARSHAL. The Minnesota state fire marshal or the state fire marshal's 17.8 authorized representatives. 17.9 SUPERVISED LIVING FACILITY. A facility in which supervision, lodging, meals, 17.10 and, in accordance with the rules of the Department of Human Services and the 17.11 Department of Health, counseling and developmental habilitative or rehabilitative services 17.12 are provided to persons who are chemically dependent, adult mentally ill, or physically or 17.13 developmentally disabled. 17.14 17.15 **Class A-1 supervised living facility.** A supervised living facility for six or fewer ambulatory or mobile disabled persons who are capable of taking appropriate action 17.16 for self-preservation under emergency conditions as determined by program licensure 17.17 provisions. 17.18 Class A-2 supervised living facility. A supervised living facility for more than 17.19 17.20 six ambulatory or mobile disabled persons who are capable of taking appropriate action for self-preservation under emergency conditions as determined by program 17.21 licensure provisions. 17.22 Class B-1 supervised living facility. A supervised living facility for six or fewer 17.23 ambulatory or nonambulatory, mobile or nonmobile persons who are not mentally or 17.24 physically capable of taking appropriate action for self-preservation under emergency 17.25 conditions as determined by program licensure provisions. 17.26

18.1	Class B-2 supervised living facility. A supervised living facility for seven to 16
18.2	ambulatory or nonambulatory, mobile or nonmobile persons who are not mentally or
18.3	physically capable of taking appropriate action for self-preservation under emergency
18.4	conditions as determined by program licensure provisions.
18.5	Class B-3 supervised living facility. A supervised living facility for 17 or more
18.6	ambulatory or nonambulatory, mobile or nonmobile persons who are not mentally or
18.7	physically capable of taking appropriate action for self-preservation under emergency
18.8	conditions as determined by program licensure provisions.
18.9	7511.0304 SECTION 304, COMBUSTIBLE WASTE MATERIAL.
18.10	Subpart 1. IFC section 304.3.2. IFC section 304.3.2 is deleted.
18.11	Subp. 2. IFC section 304.3.4. IFC section 304.3.4 is deleted.
18.12	7511.0307 SECTION 307, OPEN BURNING AND RECREATIONAL FIRES.
18.13	Subpart 1. IFC sections 307.1 through 307.2.1 and 307.4 through 307.4.1. IFC
18.14	sections 307.1 through 307.2.1 and IFC sections 307.4 through 307.4.1 are deleted.
18.15	Subp. 2. IFC section 307.3. IFC section 307.3 is amended to read as follows:
18.16	307.3 Extinguishment authority. When open burning, a recreational fire or a portable
18.17	outdoor fireplace creates or adds to a hazardous situation, or a required permit has not
18.18	been obtained, the fire code official is authorized to order extinguishment.
18.19	Subp. 3. IFC section 307.4.3. IFC section 307.4.3 is amended by deleting the
18.20	exception.
18.21	7511.0308 SECTION 308, OPEN FLAMES.
18.22	Subpart 1. IFC section 308.1.4. IFC section 308.1.4 is deleted.
18.23	Subp. 2. IFC section 308.1.9. IFC section 308.1 is amended by adding a section to
18.24	read:
18.25	<b>308.1.9 Aerial luminaries.</b> The use of aerial luminaries is prohibited.

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## 19.1 **7511.0315 SECTION 315, GENERAL STORAGE.**

Subpart 1. IFC section 315.3.1. IFC section 315.3.1 is amended to read: 19.2 **315.3.1 Ceiling clearance.** Storage shall be maintained 2 feet (610 mm) or more 19.3 below the ceiling in nonsprinklered areas of buildings or a minimum of 18 inches 19.4 (457 mm) below sprinkler head deflectors in sprinklered areas of buildings. Where 19.5 more restrictive clearances between sprinkler head deflectors and storage are required 19.6 by the sprinkler listing or NFPA 13, the more restrictive clearances shall apply. 19.7 Subp. 2. IFC section 315.3.3. IFC section 315.3.3 is amended, and sections added, 19.8 19.9 to read: **315.3.3 Equipment rooms.** Combustible storage in boiler rooms, mechanical rooms, 19.10 electrical equipment rooms and elevator equipment rooms shall be in accordance 19.11 19.12 with Sections 315.3.3.1 through 315.3.3.4. Storage not in conformance with these sections shall be removed or the condition abated. For purposes of Sections 315.3.3.1 19.13 19.14 through 315.3.3.4, storage does not include materials necessary for the construction, maintenance, or operation of the equipment. 19.15 315.3.3.1 Mechanical equipment, boiler, and furnace rooms. Storage in 19.16 mechanical equipment rooms, boiler rooms, and furnace rooms shall be neat and 19.17 orderly and arranged to provide immediate access to equipment. Clearances 19.18 between equipment and storage shall be at least 36 inches, or as required by the 19.19 manufacturer, whichever is greater. When in the opinion of the code official, the 19.20 type, amount, arrangement, or location of storage creates a hazard, the code 19.21 official is authorized to order its removal. 19.22 **315.3.3.2 Electrical vaults and equipment rooms.** Electrical vaults and rooms 19.23 or areas solely dedicated to main electrical distribution equipment shall not 19.24 contain storage. 19.25

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20.1	315.3.3.3 Elevator equi	pment rooms. No comb	ustible storage or a	any other type
20.2	of storage shall be allow	ed in elevator equipmen	t rooms or elevato	r machine
20.3	rooms.			
20.4	315.3.3.4 Shafts. No con	mbustible storage shall b	e allowed in mech	anical rooms
20.5	such as penthouses with	shafts open to multiple f	floors.	
20.6 20.7	7511.0316 SECTION 316, CLE STRUCTURES. [RENUMBER			
20.8	7511.0318 SECTION 318, LAU	NDRY CARTS.		
20.9	IFC section 318 is deleted in	its entirety.		
20.10 20.11	7511.0319 SECTION 319, CLE STRUCTURES. [MOVED FRO		TATION FROM	
20.12	IFC chapter 3 is amended by	adding a section to read	:	
20.13		SECTION 319		
20.14	CLEARANCE OF	F VEGETATION FROM	STRUCTURES	
20.15	<b>319.1 General.</b> Land that is cover	ed with grass, grain, brus	sh, or forest, wheth	er privately or
20.16	publicly owned, which is so situate	ed or is of such inaccessit	ole location that a f	ire originating
20.17	upon the land would present an ab	onormally difficult job of	f suppression or wo	ould result in
20.18	great and unusual damage through	fire or resulting erosion	shall comply with S	Section 319.2.
20.19	319.2 Fire breaks. Persons owni	ng, leasing, controlling,	operating or main	taining
20.20	buildings or structures in, upon or	r adjoining land covered	with grass, grain,	brush or
20.21	forest, and persons owning, leasing	ng or controlling land ad	jacent to such buil	dings or
20.22	structures, shall comply at all time	es with all of the following	ng requirements:	
20.23	1. Maintain an effective fire	break by removing and	clearing away flan	nmable
20.24	vegetation and combustible g	growth from areas within	30 feet (9, 144 m	m) of such
20.25	buildings or structures.			

21.1	Exception: Single specimens of trees, ornamental shrubbery or similar plants
21.2	used as ground covers, provided they do not form a means of rapidly transmitting
21.3	fire from the native growth to any structure.
21.4	2. Maintain additional fire protection or firebreak by removing brush, flammable
21.5	vegetation and combustible growth located from 30 feet to 100 feet (9, 144 mm to 30,
21.6	480 mm) from such buildings or structures, when required by the fire chief because
21.7	of extrahazardous conditions causing a firebreak of only 30 feet (9, 144 mm) to be
21.8	insufficient to provide reasonable fire safety.
21.9	Exception: Grass and other vegetation located more than 30 feet (9, 144 mm)
21.10	from buildings or structures and less than 18 inches (457 mm) in height above
21.11	the ground need not be removed where necessary to stabilize the soil and prevent
21.12	erosion.
21.13	3. Remove portions of trees that extend within 10 feet (3, 048 mm) of the outlet
21.14	of a chimney.
21.15	4. Maintain trees adjacent to or overhanging a building free of deadwood.
21.16	5. Maintain the roof of a structure free of leaves, needles or other dead vegetative
21.17	growth.
21.18	7511.0401 SECTION 401, UNPLANNED EVACUATION.
21.19	IFC section 401.7 is deleted.
21.20	7511.0503 SECTION 503, FIRE APPARATUS ACCESS ROADS.
21.21	Subpart 1. IFC section 503.1.1. IFC section 503.1.1 is amended to read as follows:
21.22	503.1.1 Buildings and facilities. Approved fire apparatus access roads shall be
21.23	provided for every facility, building, or portion of a building hereafter constructed or
21.24	moved into or within the jurisdiction. The fire apparatus access road shall comply
21.25	with the requirements of this section and shall extend to within 150 feet (45,720
21.26	mm) of all portions of the facility and all portions of the exterior walls of the first

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22.1	story of the building as	measured by an approved rout	te around the exter	rior of the
22.2	building or facility.			
22.3	Exception: Fire ap	oparatus access roads need not	be provided where	e there are
22.4	two or fewer Grou	p R-3 or Group U occupancy b	ouildings.	
22.5	503.1.1.1 Increase	es allowed. The 150-foot distant	nce shall be permit	tted to be
22.6	increased for the fo	ollowing:		
22.7	1. When the b	uilding is equipped throughout	t with an approved	l automatic
22.8	sprinkler syste	em installed in accordance with	Section 903.3.1.1	, 903.3.1.2,
22.9	or 903.3.1.3.			
22.10	2. For Group	R occupancies equipped throu	ghout with an app	proved
22.11	automatic spri	nkler system installed in accor	dance with Section	n 903.3.1.1,
22.12	903.3.1.2, or 9	003.3.1.3, the fire apparatus acc	ess road shall exte	end to within
22.13	600 feet (183	m).		
22.14	3. Where fire	apparatus access roads cannot	be installed becaus	se of location
22.15	on property, to	ppography, waterways, nonnego	otiable grades, or o	other similar
22.16	conditions, and	d an approved alternative mear	is of fire protection	n is provided,
22.17	the fire appara	tus access road shall extend to	within 300 feet (9	1.4 m).
22.18	Subp. 2. IFC section	<b>503.2.1.</b> IFC section 503.2.1 is	s amended by addi	ing an
22.19	exception as follows:			
22.20	Exception: Where	e the road serves Group R buil	dings that are equi	ipped
22.21	throughout with an	approved automatic sprinkler	system installed in	n accordance
22.22	with Section 903.1	.1, 903.1.2, or 903.1.3, the min	nimum unobstructe	ed width
22.23	can be reduced to	16 feet (4,877 mm).		
22.24	Subp. 3. IFC section	<b>503.2.5.</b> IFC section 503.2.5 is	s amended by addi	ing an
22.25	exception as follows:			
22.26	Exception: Where	the dead-end road serves Grou	p R buildings that	are equipped
22.27	throughout with an	approved automatic sprinkler	system installed in	n accordance

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23.1	with Section 903.3.1.1,	903.3.1.2, or 903.3.1.3, tl	he maximum dead	-end length
23.2	distance is permitted to	be increased up to 300 fe	et (91.4 m).	

#### 7511.0506 SECTION 506, KEY BOXES. 23.3

IFC section 506.1 is amended to read: 23.4

**506.1 Where required.** Where access to or within a structure or an area is unduly difficult 23.5

because of secured openings or where immediate access is necessary for life-saving or 23.6

firefighting purposes, the fire code official is authorized to require a key box to be installed 23.7

in an approved location. The key box shall be of an approved type and shall contain keys 23.8

to gain necessary access as required by the fire code official. 23.9

**Exception:** One- and two-family dwellings need not be provided with lock boxes. 23.10

#### 7511.0507 SECTION 507, FIRE PROTECTION WATER SUPPLIES. 23.11 [RENUMBERED FROM PART 7511.0508] 23.12

23.13 Subpart 1. IFC section 507.3. IFC section 507.3 is amended and sections added to read: 23.14

507.3 Fire flow. Fire flow requirements for buildings or portions of buildings and facilities 23.15 23.16 shall be determined by an approved method. If no municipal water supply exists, the minimum water flow and duration requirements for new buildings, portions of buildings 23.17 hereafter constructed, or buildings moved into or within the jurisdiction shall be as 23.18

specified in Table 507.3. 23.19

507.3.1 Fire flow for Group R-3 or Group U occupancies. No minimum fire flows 23.20 are required for Group R-3 occupancies or Group U occupancies with less than 5,000 23.21 square feet of floor area (465  $m^2$ ). 23.22

- 23.23
  - MINIMUM FIRE FLOW REQUIREMENTS
- Hazard 23.25 Classification 23.26

23.24

23.27

**Unsprinklered** or partially sprinklered Duration [Note 1] Sprinklered Building [Note 2] building (minutes)

TABLE 507.3

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24.1 24.2	Light Hazard	100 gpm available for fire department use	250 gpm available for fire department use	30	
24.3 24.4	Ordinary Hazard	250 gpm available for fire department use	500 gpm available for fire department use	60	
24.5 24.6	Extra Hazard	500 gpm available for fire department use	750 gpm available for fire department use	90	
24.7 24.8 24.9 24.10	High Piled Combustible Storage	Hose stream demand from sprinkler installation standard (NFPA 13) or 500 gpm, whichever is larger	1,000 gpm available for fire department use	120	
24.11 24.12 24.13 24.14 24.15	Other Group H Occupancies	Hose stream demand from sprinkler installation standard (NFPA 13, MSFC Chapter 57, etc.) or 500 gpm, whichever is larger	1,000 gpm available for fire department use	120	
24.16	[ Note 1: Light, c	ordinary, and extra hazard are as	defined in NFPA 13, Standa	rd for the	
24.17	Installation of Automatic Sprinkler Systems.]				
24.18	[ Note 2: In sprin	klered buildings, when a fixed w	ater supply is used for the sp	orinklers, the	
24.19	hose stream availa	able for fire department need not	come from the fixed source	(i.e. tank).]	
24.20	Subp. 2. IFC	C section 507.5.1. IFC section 5	07.5.1 is amended to read:		
24.21	507.5.1 Whe	ere required. Where a portion of	of the facility or building her	reafter	
24.22	constructed of	or moved into or within the juris	diction is more than 300 feet	t (91.5 m)	
24.23	from a hydra	nt on a fire apparatus access roa	d, as measured by an approv	red route	
24.24	around the exterior of the facility or building, on-site fire hydrants and mains shall be				
24.25	provided whe	ere required by the fire code offi	cial.		
24.26	Exception	ons:			
24.27	1. For G	Froup R-3 and Group U occupan	cies, the distance requirement	nt shall be	
24.28	400 feet	(122 m).			

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25.1	2. For buildings equippe	ed throughout with an ap	proved automatic s	prinkler		
25.2	system installed in accordance with Section 903.3.1.1 or 903.3.1.2, the threshold					
25.3	for requiring on site fire h	nydrants and mains shall	be increased to 400	feet (122 m).		
25.4	3. For Group R-3 building	ngs equipped throughout	with an automatic	sprinkler		
25.5	system installed in accor	dance with Section 903.	3.1.1, 903.3.1.2, or	903.3.1.3,		
25.6	the threshold for requirir	ng on site fire hydrants an	nd mains shall be ir	ncreased to		
25.7	600 feet (183 m).					
25.8 25.9	7511.0508 SECTION 508, FIR [RENUMBERED TO PART 75		`ER SUPPLIES.			
25.10	7511.0510 SECTION 510, EME	RGENCY RESPONDI	ER RADIO COVE	ERAGE.		
25.11	IFC section 510 is deleted en	tirely.				
25.12	7511.0601 SECTION 601, GEN	ERAL.				
25.13	IFC section 601.2 is amended	d to read as follows:				
25.14	601.2 Permits. Permits shall be o	btained for refrigeration	systems and batter	y systems,		
25.15	as set forth in Sections 105.6 and	105.7.				
25.16	7511.0603 SECTION 603, FUE	L-FIRED APPLIANCI	ES.			
25.17	Subpart 1. IFC section 603.	<b>5.</b> IFC section 603.5 is an	mended, and section	ns added, to		
25.18	read:					
25.19	603.5 Heating appliances. Heati	ng appliances shall be lis	sted and shall comp	oly with		
25.20	this section.					
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- 25.21 **Exception:** Unlisted appliances may be installed where permitted by the fire code
- 25.22 official, provided clearance from combustibles is maintained in accordance with the25.23 Mechanical Code.
- 25.24 **603.5.1 Guard against contact.** The heating element or combustion chamber shall
  25.25 be permanently guarded so as to prevent accidental contact by persons or material.

03/02/16 REVISOR SS/NB AR4148 603.5.2 Heating appliance installation and maintenance. Heating appliances shall 26.1 be installed and maintained in accordance with the manufacturer's instructions and 26.2 the Minnesota State Building Code. 26.3 603.5.3 Heating appliance clearance to combustible materials. Clearances 26.4between heat-producing appliances and combustibles shall be in accordance with this 26.5 section. Where specific manufacturer's instructions or listings allow a reduction 26.6 from the distances specified in this section, those distances are allowed. Clearance 267reductions permitted by the Mechanical Code are allowed. 26.8 603.5.3.1 Gas or fuel-oil heaters. A minimum of 18 inches (457 mm) shall be 26.9 maintained between gas or fuel-oil heat-producing appliances and combustible 26.10 materials. 26.11 603.5.3.2 Solid fuel-burning heaters. A minimum of 36 inches (914 mm) shall 26.12 be maintained between solid fuel-burning appliances and combustible materials. 26.13 Subp. 2. IFC section 603.8. IFC section 603.8 and all subsections are deleted. 26.14 7511.0604 SECTION 604, EMERGENCY AND STANDBY POWER SYSTEMS. 26.15 Subpart 1. IFC section 604.2.1. IFC section 604.2.1 is deleted. 26.16 Subp. 2. IFC section 604.2.18.3. IFC section 604.2.18.3 is amended to read as 26.17 follows: 26.18 **604.2.18.3 Two or more elevators.** Where two or more elevators are controlled 26.19 by a common operating system, all elevators shall automatically transfer to 26.20 standby power within 60 seconds after failure of normal power where the 26.21 standby power source is of sufficient capacity to operate all elevators at the same 26 22 time. Where the standby power source is not of sufficient capacity to operate 26.23 26.24 all elevators at the same time, the elevators shall operate according to ASME A17.1 2004/CSA B44-2010 2.27.2. 26.25 Subp. 3. IFC section 604.5.2. IFC section 604.5.2 is amended to read as follows: 26.26

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27.1	604.5.2 Power test. Fo	or battery-powered emergency	lighting, a power t	test of the
27.2	emergency lighting equ	ipment shall be completed and	nually. The power	test shall
27.3	operate the emergency	lighting for a minimum of 30 r	ninutes. All emerg	ency lighting
27.4	shall remain sufficientl	y illuminated for the duration of	of the test.	
27.5 27.6	7511.0605 SECTION 605 HAZARDS.	, ELECTRICAL EQUIPME	NT, WIRING AN	ĪD
27.7	Subpart 1. IFC section	<b>1 605.10.4.</b> IFC Section 605.10	).4 is deleted.	
27.8	Subp. 2. IFC section	605.11. IFC section 605.11 is a	mended to read as	follows:
27.9	605.11 Solar photovoltaic	power systems. Solar photovo	oltaic power system	ns shall be
27.10	installed in accordance with	the Minnesota State Building	Code. Solar photo	voltaic power
27.11	systems shall be maintained	l in accordance with the Minne	sota State Building	g Code and
27.12	the Electrical Code.			
27.13 27.14	7511.0611 SECTION 611, TUNNELS.	PEDESTRIAN WALKWAY	'S AND PEDEST	RIAN
27.15	IFC Chapter 6 is amen	ded by adding a section 611 to	read:	
27.16		<b>SECTION 611</b>		
27.17	PEDESTRIAN WALKV	WAYS, PEDESTRIAN TUNN	IELS, AND MEZ	ZANINES
27.18	611.1 Installation and mai	ntenance. New pedestrian wa	lkways and tunnel	s shall be
27.19	constructed and maintained	in conformance with the Build	ling Code. Existing	g pedestrian
27.20	walkways and pedestrian tu	nnels shall comply with the fo	llowing:	
27.21	1. Unless all buildings	connected to them are protect	ed throughout by a	upproved
27.22	automatic fire-extingui	shing systems, pedestrian walk	ways and pedestri	an tunnels
27.23	shall, at a minimum, b	e separated from the interior o	f buildings by wal	ls and
27.24	self-closing doors cons	tructed to form a barrier to lim	it the transfer of sr	noke.
27.25	2. The unobstructed wi	dth of pedestrian walkways an	d pedestrian tunnel	ls shall not be
27.26	less than 44 inches (1,	118 mm).		

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28.1	3. Combustible materials or decorations shall not be located in pedestrian walkways
28.2	or pedestrian tunnels. Interior wall, ceiling, and floor finishes shall comply with
28.3	Chapter 8.
28.4	4. Pedestrian walkways and pedestrian tunnels that serve as required means of egress
28.5	from attached buildings shall comply with Sections 1030 and 1104.
28.6	5. Pedestrian walkways and pedestrian tunnels exceeding 400 feet (122 m) in length
28.7	shall be provided with means of egress so arranged that the maximum length of exit
28.8	access travel to reach an exit does not exceed 200 feet (60,960 mm).
28.9	6. Means of egress from pedestrian walkways and pedestrian tunnels shall not be
28.10	locked unless provisions for emergency egress are provided.
28.11	611.2 Mezzanines. Mezzanines in buildings shall conform to the requirements of the
28.12	Building Code.
28.13 28.14	7511.0806 SECTION 806, DECORATIVE VEGETATION IN NEW AND EXISTING BUILDINGS.
28.15	IFC section 806.1 and its subsections are deleted entirely and replaced with the
28.16	following:
28.17	806.1.1 Natural or resin-bearing trees. The use, display, or storage of natural or
28.18	resin-bearing trees for use or decoration inside buildings shall be in accordance with
28.19	Sections 806.1.1 through 806.1.1.5.
28.20	806.1.1.1 Group R occupancies. The use and display of natural or resin-bearing
28.21	trees inside dwelling units of Group R-2 and R-3 occupancies is permitted.
28.22	806.1.1.2 Sprinkler protected areas. Trees located in areas protected by an
28.23	approved automatic sprinkler system installed in accordance with Section
28.24	903.3.1.1 or 903.3.1.2 in all occupancies except Group I are permitted.
28.25	806.1.1.3 Where allowed. Trees without open flames or electric lights are
28.26	allowed in Group A used for worship purposes, Group B, E, and M occupancies.

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29.1	80	06.1.1.4 Restricted. Trees u	used inside building	gs for other occupant	cies or
29.2	со	onditions are not allowed.			
29.3	80	06.1.1.5 Location. The use	and display of natu	ral or resin-bearing t	rees shall
29.4	nc	ot be placed in a location that	t would obstruct eg	gress, fire protection	systems and
29.5	eq	uipment, and shall not be al	lowed to accumula	te inside a building.	In buildings
29.6	wl	here more than one tree is lo	ocated, they shall b	e separated by at lea	st 20 feet
29.7	as	measured from the tree bra	nches.		
29.8	806.1.2	<b>2 Support devices.</b> The sup	port device that ho	lds the tree in an upri	ght position
29.9	shall b	e of a type that is stable and	that meets all of th	ne following criteria:	
29.10	1.	The device shall hold the tr	ee securely and be	of adequate size to a	void tipping
29.11	OV	ver of the tree.			
29.12	2.	The device shall be capable	of containing a mi	nimum two-day supp	oly of water.
29.13	3.	The water level, when full	, shall cover the tre	e stem at least 2 incl	hes (51
29.14	m	m). The water level shall be	e maintained above	the fresh cut and ch	ecked at
29.15	lea	ast once daily.			
29.16	806.1.3	<b>3 Dryness.</b> The tree shall be	e removed from the	building whenever t	the needles
29.17	or leav	ves fall off readily when a tre	ee branch is shaken	or if the needles are	brittle and
29.18	break v	when bent between the thun	nb and index finger	The tree shall be c	hecked
29.19	daily for	for dryness.			
29.20	806.1.4	4 Decorative natural veget	ation. The use, dis	play, or storage of w	reaths, hay
29.21	bales, o	corn stalks, and other cut na	tural decorative ve	getation shall be in a	lecordance
29.22	with Se	ections 806.1.4.1 through 80	06.1.4.4.		
29.23	80	06.1.4.1 Occupancies. Limi	ted quantities of cu	it natural decorative	vegetation
29.24	sh	all be permitted where the fi	re code official det	ermines that adequate	e safeguards
29.25	ar	e provided based on the qua	ntity and nature of	the combustible veg	etation.
29.26	80	06.1.4.2 Group I occupance	ies. Cut, natural, d	ecorative vegetation	is not
29.27	pe	ermitted in Group I occupan	cies.		

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30.1	806.1.4.3 Group M occupanc	ies. The use and	d display of decorative	natural
30.2	vegetation for resale in Group	M occupancies	is permitted.	
30.3	806.1.4.4 Location. The use a	nd display of cu	t natural decorative ve	getation
30.4	shall not obstruct aisles, egress	s, or exit paths, l	block access to fire pro	otection
30.5	systems or equipment, and sha	ll not accumulat	e inside a building.	
30.6	(Sections 806.2, 806.3, 806.4, and	806.5 still apply	)	
30.7 30.8	7511.0807 SECTION 807, DECORA DECORATIVE VEGETATION IN N			
30.9	[For text of s	subps 1 to 3, see	e M.R.]	
30.10	Subp. 3a. IFC section 807.4.3.2.	FC section 807.	4.3.2 is amended by a	dding an
30.11	exception to read:			
30.12	Exception: Artwork and t	eaching materia	lls shall not exceed 50	percent of
30.13	the wall area when the built	lding is protected	ed throughout with an	approved
30.14	automatic sprinkler system	n in accordance	with Section 903.3.1.1	
30.15	[For text of	of subp 4, see M	I.R.]	
30.16	Subp. 5. IFC section 807.4.4.2. If	FC section 807.4	4.4.2 is amended by ad	ding an
30.17	exception to read as follows:			
30.18	Exception: Artwork and t	eaching materia	lls shall not exceed 50	percent of
30.19	the wall area when the built	lding is protecte	ed throughout with an	approved
30.20	automatic sprinkler system	n in accordance	with Section 903.3.1.1	
30.21	Subp. 6. IFC section 807.5. IFC s	ection 807 is an	nended by adding a se	ction to
30.22	read as follows:			
30.23	807.5 Combustible decorations in Gro	oup I-2 occupar	ncies. Combustible dec	corations
30.24	shall be prohibited in any Group I-2 occ	upancy, unless c	one of the following cri	teria is met:
30.25	1. The decorations are flame-retard	ant or are treate	d with approved fire-re	etardant
30.26	coating that is listed and labeled for	application to t	he material to which it	is applied;

03/02/16 REVISOR SS/NB AR4148 2. The decorations meet the requirements of NFPA 701, Standard Methods of Fire 31.1 Tests for Flame Propagation of Textiles and Films; 31.2 3. The decorations exhibit a heat release rate not exceeding 100 kW when tested 31.3 in accordance with NFPA 289, Standard Method of Fire Test for Individual Fuel 31.4 Packages, using the 20 kW ignition source; 31.5 4. Decorations, such as photographs, paintings, and other art, are attached directly to 31.6 the walls, ceiling, and non-fire-rated doors are limited to: 31.7 4.1. (a) 20 percent of the wall, ceiling, and door areas inside any room or space of 31.8 a smoke compartment that is not protected throughout by an automatic sprinkler 31.9 system, or (b) 30 percent of the wall, ceiling, and door areas inside any room 31.10 or space of a smoke compartment that is protected throughout by an approved 31.11 supervised automatic sprinkler system in accordance with Section 903.3.1.1 or 31.12 903.3.1.2; or 31.13 4.2. 50 percent of the wall, ceiling, and door areas inside patient sleeping rooms, 31.14 having a capacity not exceeding four persons, in a smoke compartment that is 31.15 protected throughout by an approved, supervised automatic sprinkler system in 31.16 accordance with Section 903.3.1.1 or 903.3.1.2; and 31.17 4.3. Decorations do not interfere with the operation or latching of any door; or 31.18 5. Decorations, such as photographs and paintings, are in such limited quantities that 31.19 31.20 a hazard of fire development or spread is not present. 7511.0901 SECTION 901, GENERAL. 31.21 Subpart 1. IFC section 901.6.1. IFC section 901.6.1 is amended by adding an 31.22 exception to read: 31.23 **Exception:** Fire alarm and automatic fire-extinguishing systems shall be 31.24 inspected and tested at least annually. Inspections and testing shall be conducted 31.25 in accordance with the procedures specified in the referenced standards listed 31.26

in Table 901.6.1. As part of the annual inspection required by this section,

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32.1	all weekly, monthly, o	quarterly, semiannual, and an	nual inspections,	tests, and	
32.2	maintenance requirements in the listed standards shall be conducted and shall				
32.3	note any problems ob	served.			
32.4	Subp. 2. IFC section 901	.11. IFC section 901 is amen	ded by adding sec	tions to read:	
32.5	901.11 Fire sprinklers and fir	<b>e detectors - ceilings.</b> In bui	ldings protected b	y automatic	
32.6	sprinklers or automatic fire det	ectors, suspended or remova	ble ceiling tiles sh	nall be	
32.7	maintained in place to prevent the delay in sprinkler or detector activation.				
32.8	Exception: When additional sprinklers or detectors are installed in the space above				
32.9	the suspended ceiling.				
32.10	901.11.1 Open-grid ceilings. Open-grid ceilings shall not be installed beneath				
32.11	sprinklers.				
32.12	Exception: Open-gri	d ceilings are allowed when t	he requirements c	of NFPA 13	
32.13	for open-grid ceilings	are met.			
32.14	901.11.2 Drop-out ceilings. Drop-out ceilings shall be permitted to be installed				
32.15	beneath sprinklers when all requirements of NFPA 13 for drop-out ceilings have				
32.16	been met.				
32.17	7511.0903 SECTION 903, A	UTOMATIC SPRINKLER	SYSTEMS.		
32.18	Subpart 1. IFC section 9	<b>03.2.8.</b> IFC section 903.2.8 is	s amended, and su	lbsections	
32.19	added, to read:				
32.20	903.2.8 Group R. An auto	omatic sprinkler system shall	be provided in ac	cordance	
32.21	with Section 903.3 in Gro	up R occupancies and townho	ouses as follows:		
32.22	1. All Group R-4 occupar	ncies.			
32.23	2. Group R-1 multiunit re	sort buildings as defined in N	Iinnesota Statutes	, section	
32.24	157.15, and licensed by th	e Department of Health shall	comply with cha	pter 1305,	
32.25	the Minnesota Building C	ode.			

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33.1	3. In other than R-1	multiunit resort buildings, Gr	oup R-1 occupancies sh	nall comply	
33.2	with chapter 1305, the Minnesota Building Code.				
33.3	4. R-2 occupancies shall comply with chapter 1305, the Minnesota Building Code.				
33.4	5. Townhouses shall	comply with chapter 1309, th	ne Minnesota Residentia	al Code.	
33.5	For the purposes of this section, fire walls, party walls, or attached multiple				
33.6	fire-resistive exterior walls shall only create separate buildings where providing separation				
33.7	from occupancies other	han Group R.			
33.8	903.2.8.1 Grou	p R-3 or R-4 congregate res	idences. An automatic	sprinkler	
33.9	system installed	in accordance with Section 9	903.3.1.3 shall be perm	itted in	
33.10	Group R-3 or R	-4 congregate residences with	16 or fewer residents.		
33.11	903.2.8.2 State	licensed facilities. Group R-	3 or R-4 occupancies c	ontaining	
33.12	facilities license	d by Minnesota shall be prov	ided with an automatic	sprinkler	
33.13	system as requi	red by the applicable licensin	g provisions or this sec	ction,	
33.14	whichever is m	ore restrictive.			
33.15	903.2.8.3 Resid	ential hospice facilities. An a	automatic sprinkler syst	tem installed	
33.16	in accordance v	ith NFPA 13 shall be provide	d throughout all building	ngs with a	
33.17	Group R-3 or C	roup R-4 fire area containing	a residential hospice fa	cility.	
33.18	Exception	An automatic sprinkler syste	em installed in accordan	nce with	
33.19	Section 90	3.3.1.2 or 903.3.1.3 shall be al	llowed, provided that al	ll habitable	
33.20	spaces and	closets are sprinklered.			
33.21	Subp 2 IEC socie	<b>n 903.2.11.4.</b> IFC section 903	32114 is amended to t	raad	
	*	protection for exhaust syste			
33.22 33.23		echanical Code, automatic sp	-	-	
33.24 33.24		pross-sectional area of 75 squa			
	-	mable or combustible compo			
33.25	-	•		•	
33.26		residue build-up on the insid			
33.27	instaned, mean	shall be provided to prevent	water accumulation in	the duct of	

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34.1	the flow of water bac	ck to a process where the app	lication of water c	constitutes
34.2	a serious life or fire	hazard.		
34.3	*	<b>03.3.1.</b> IFC section 903.3.1 i		
34.4	-	nkler systems shall be design		
34.5		nless otherwise permitted by		
34.6	_	ters of this code, as applicable	_	-
34.7	installed in state-licensed	or state-registered facilities	shall be installed in	n accordance
34.8	with this code and by the appropriate applicable licensing or registration provisions			
34.9	of Minnesota.			
34.10		[For text of subp 3, see M.R	]	
34.11	Subp. 4. IFC section 90	<b>3.3.1.</b> IFC section 903.3.1 is	amended by addin	g sections to
34.12	read:			
34.13	903.3.1.4 Buildings	of undetermined use. When	n fire sprinkler sys	tems are
34.14	required in buildings	of undetermined use, they sl	hall be designed an	d installed to
34.15	have a sprinkler dens	sity of not less than that requ	ired for an Ordina	ry Hazard
34.16	Group 2 use with a n	ninimum design area of 3,00	0 square feet (279	m <sup>2</sup> ). Use is
34.17	considered undetermined if not specified at the time a permit is issued. Where a			
34.18	subsequent occupant	cy requires a system with gre	ater capability, it s	hall be the
34.19	responsibility of the	owner to upgrade the system	to the required de	nsity for the
34.20	new hazard, use or o	occupancy.		
34.21	903.3.1.5 Special sp	rinkler design criteria. Wh	en fire sprinkler sy	stems are
34.22	required in areas cor	ntaining the following uses, t	hey shall be design	ned and
34.23	installed to have a sp	prinkler density of not less that	an that required for	an Ordinary
34.24	Hazard Group 2 uses	:		
34.25	1. Chemistry la	bs; or		
34.26	2. Wrestling or	gymnastic rooms.		

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35.1		903.3.1.6 Modifications to	o sprinkler standard	s. The sprinkler insta	allation	
35.2		standards as referenced in	Sections 903.3.1.1, 9	03.3.1.2, and 903.3.1	.3 are	
35.3		modified as follows:				
35.4		903.3.1.6.1 Hose strea	am requirements. W	hen, in the opinion c	of the fire	
35.5		chief, an adequate alte	rnate water supply fo	r hose stream require	ements is	
35.6		provided or available, the water supply requirements for the sprinkler system				
35.7		hose stream demands may be modified.				
35.8		903.3.1.6.2 Elevator s	hafts and equipmen	t. Sprinkler protection	on shall not	
35.9		be installed in elevator	shafts, elevator pits	or elevator machine r	cooms.	
35.10		Exception: Healt	h care occupancies re	quired to have NFPA	13 systems	
35.11		and are licensed b	by the Minnesota Dep	partment of Health or	r that	
35.12		participate in Title	e XVIII (Medicare) o	r Title XIX (Medicai	d) of the	
35.13		Social Security A	ct.			
35.14		903.3.1.6.3 Swimming	<b>g pools.</b> Sprinkler pro	otection need not be	provided	
35.15		on the ceiling of room	s containing swimming	ng pools when the po	ol area is	
35.16		used exclusively for sv	wimming purposes an	d when sprinklers are	e provided	
35.17		around the perimeter of the pool area.				
35.18		903.3.1.6.4 NFPA 13	modifications. Secti	ons 8.15.8.2, 8.17.2.5	5, and	
35.19		22.2.1.1 of NFPA 13 a	are amended to read:			
35.20		8.15.8.2 Linen closets	and pantries. Sprin	klers are not required	d in linen	
35.21		closets and pantries wi	thin dwelling units th	at meet the following	; conditions:	
35.22		1. The area of the	space does not excee	ed 12 square feet (1.1	$m^2$ ).	
35.23		2. The least dime	nsion does not exceed	1 3 feet (0.9 m).		
35.24		3. The walls and r	materials are surfaced	with noncombustibl	e or limited	
35.25		combustible mate	rials.			
35.26		4. The closet or p	antry contains no me	chanical equipment,	electrical	
35.27		equipment or elec	etrical appliances.			

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36.1		8.17.2.5 Valves.			
36.2		8.17.2.5.1 Fire deg	partment connection	I. A listed check va	alve shall be
36.3		installed in each fire department connection.			
36.4		<b>8.17.2.5.1.1 Maximum pipe length.</b> There shall be a maximum of 25			
36.5		feet (7.6 m) of pipe between the check valve and the fire department			
36.6		connection inlet.			
36.7		Exception: This maximum shall not apply to the check valve			
36.8		serving a free-standing fire department connection.			
36.9	8.17.2.5.1.2 Check valve location. The check valve shall be located to				
36.10		minimize freezing	potential.		
36.11	22.2.1.1 Water supply capacity information. Where a waterflow test is				
36.12	used for the purposes of system design, the test shall be conducted no more				
36.13		than 36 months prior to the working plan submittal.			
36.14		903.3.1.6.5 Vestibules. Sprinkler protection is not required in vestibules that			
36.15		meet all of the following conditions:			
36.16		1. The vestibule is	225 square feet or le	ss in floor area;	
36.17		2. The vestibule is of noncombustible or limited combustible			
36.18		construction;			
36.19		3. The vestibule ha	s glazing allowing v	ision into vestibule	•
36.20		4. The vestibule's of	only purpose is ingre	ss and egress; and	
36.21		5. The vestibule c	ontains no fueled equ	uipment, flammable	e or
36.22		combustible liquid	s, or furniture. Incide	ntal combustible st	torage in the
36.23		vestibule is limited	to five cubic feet of	material.	
36.24		903.3.1.6.6 NFPA 13D	sprinkler systems.	Automatic sprinkle	er systems
36.25		installed in Group R-3 a	and R-4 congregate r	esidences and town	houses shall
36.26		be permitted to be insta	lled throughout in ac	cordance with NFI	PA 13D.
36.27		Attached garages in tov	vnhouse buildings are	e required to have o	one dry head

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37.1	sprinkler located with	in 5 linear feet of each	door installed in th	ne common
37.2	wall separating the dy	welling unit and the att	ached garage.	
37.3	Subp. 4a. IFC section 903.3.8	R IFC section 903 3 is	amended by adding	a section to
37.4	read:		unified by adding	, a section to
37.5	903.3.8 Sprinkler system des	ign nressure safety m	argin For new spi	rinkler
37.6	systems or additions to existing		-	
37.7	exceed the sprinkler system de			
37.8	psi (0.34 bars) or more.	mand, meruding the n	se stream requirem	ients, by 5
		ems installed in accord	ana with socian 0	02212
37.9	Exception. 15D Syste		ance with section y	05.5.1.5.
37.10	[For tex	t of subps 5 to 7, see M	И.R.]	
37.11	Subp. 8. [See repealer.]			
37.12 37.13	7511.0904 SECTION 904, ALTE SYSTEMS.	RNATIVE AUTOMA	TIC FIRE-EXTIN	GUISHING
37.14	IFC section 904.1 is amended	to read:		
37.15	904.1.1 Certification of servi	ce personnel for fire-e	extinguishing equip	pment.
37.16	Service personnel installing, pr	roviding, or conducting	g maintenance on a	utomatic
37.17	fire-extinguishing systems, oth	er than automatic sprin	nkler systems, shall	possess
37.18	a valid certificate issued by an	approved organization	for the type of sys	tem and
37.19	work performed.			
37.20	7511.0905 SECTION 905, STAN	DPIPE SYSTEMS.		
37.21	[For tex	t of subps 1 to 3, see N	И.R.]	
37.22	Subp. 4. IFC section 905.3. II	FC section 905.3 is amo	ended by adding sec	tions to read:
37.23	905.3.9 Detention and correc	tional facilities. Rega	rdless of the height	of the
37.24	building or number of stories, e	every building in a Gro	up I-3 detention and	l correctional
37.25	facility, where 50 or more pers	ons are under restraint	or security under C	Occupancy

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38.1	Condition 3, 4 or 5, shall be p	provided with a Class III	automatic wet or se	emiautomatic	
38.2	dry standpipe system.				
38.3	Exception: Combined s	ystems meeting the prov	visions of Section 9	05.2 may	
38.4	be used.				
38.5	When acceptable to the fire c	hief, fire department con	nections may be lo	cated inside	
38.6	all security walls or fences of	n the property.			
38.7	Standpipes shall be located in	n accordance with Sectio	n 905. In addition,	standpipes	
38.8	shall be located so that it wil	I not be necessary to exte	end hose lines throu	ugh smoke	
38.9	barriers. When located in ce	ll complexes, standpipes	may be located in	secured	
38.10	pipe chases.				
38.11	905.3.10 Group R-2 occupa	ncies; small hose conne	ctions. Small hose	connections	
38.12	shall be installed in Group R-	-2 occupancies three or n	nore stories in heig	ht where any	
38.13	portion of the building's inter	fior area is more than 20	0 feet (60,960 mm)	) of travel,	
38.14	4 vertically or horizontally, from the nearest point of fire department vehicle access.				
38.15	Small hose connections requi	red by this section shall	comply with the fo	llowing:	
38.16	1. Supply one 1 <sup>1</sup> / <sub>2</sub> -inch (	38 mm) fire hose valve a	t each floor level or	intermediate	
38.17	stair landing in each req	uired and enclosed stairv	vay.		
38.18	2. The water for the sma	ll hose connections shall	be supplied separa	ately from the	
38.19	sprinkler system protect	ng that area so that the s	mall hose connecti	ons are still	
38.20	functional if the water su	upply to the sprinkler sys	tem is shut down for	ollowing fire	
38.21	extinguishment.				
38.22	3. The piping shall be a	minimum of $1 \frac{1}{2}$ -inch (3)	8 mm).		
38.23	4. The water shall be sup	oplied from a wet-pipe sp	prinkler system onl	y.	
38.24	5. The piping shall be co	omprised of metallic pipi	ng and hose valve	connections.	
38.25	Permanent signage shall be r	equired which reads "Fir	e Department Over	rhaul Hose	
38.26	Connection" at each connect	ion in the building. If a s	separate standpipe	system is	
38.27	provided, a sign shall also be	provided at the exterior	fire department cor	nnection.	

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39.1	Subp. 5. IFC section 905.5.1.	IFC section 905.5.1 is	s deleted.	
39.2	7511.0906 SECTION 906, PORT	ABLE FIRE EXTING	GUISHERS.	
39.3	Subpart 1. IFC section 906.1.	IFC section 906.1 is a	mended to read:	
39.4	906.1 Where required. Portable fi	re extinguishers shall b	be installed in the f	following
39.5	locations:			
39.6	1. In all Group A, B, E, F, H, I	, M, R-1, R-2, R-4 and	IS occupancies.	
39.7	<b>Exception:</b> In Group E of	ccupancies equipped th	nroughout with an a	approved
39.8	automatic sprinkler system	n installed in accordance	ce with Section 903	3.3.1.1, fire
39.9	extinguishers shall be requ	uired only in laundry ro	ooms, boiler and fu	rnace rooms,
39.10	mechanical and electrical	rooms, garages, stages	, projection booths	s, shops,
39.11	laboratories, kitchens, loc	ker rooms, custodial cl	osets, trash-collect	ion rooms,
39.12	storage rooms greater than	n 100 square feet, and s	similar areas.	
39.13	2. Within 30 feet (9, 144 mm)	of commercial cooking	g equipment.	
39.14	3. In areas where flammable or	r combustible liquids a	re stored, used or d	ispensed.
39.15	4. On each floor of structures u	under construction, exc	ept Group R-3 occ	upancies, in
39.16	accordance with Section 3315.	1.		
39.17	5. Where required by the secti	ons indicated in Table	906.1.	
39.18	6. Special-hazard areas, includ	ling but not limited to	laboratories, compu	uter rooms
39.19	and generator rooms, where re	quired by the fire code	official.	
39.20	7. R-3 occupancies used as far	nily day care, group fai	mily day care, foste	er care, adult
39.21	family day services and reside	ntial hospices.		
39.22	Subp. 2. IFC section 906.2. I	FC section 906.2 is am	nended to read:	
39.23	906.2 General requirements.	Portable fire extinguis	hers shall be select	ed, installed,
39.24	and maintained in accordance	with this section and N	FPA 10. Section 7.	1.2 of NFPA
39.25	10 is deleted.			
39.26	(The exceptions are unchanged	l and still apply.)		

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40.1	Subp. 3. IFC section 906.2. I	FC section 906.2.1 is a	amended to read:	
40.2	906.2.1 Certification of servi	ce personnel for porta	ble fire extinguishe	ers. Service
40.3	personnel providing or conduc	ting maintenance on po	ortable fire extinguis	hers shall
40.4	possess a valid certificate issue	ed by an approved orga	inization for the type	e of work
40.5	performed.			
40.6	7511.0907 SECTION 907, FIRE	ALARM AND DETE	CTION SYSTEMS	y .
40.7	Subpart 1. [See repealer.]			
40.8	[For	text of subp 2, see M.H	ζ.]	
40.9	Subp. 3. IFC section 907.2.1.	IFC section 907.2.1 is	s amended, and secti	ons added,
40.10	to read:			
40.11	907.2.1 Group A, general. A	fire alarm system shall	be installed in accord	rdance with
40.12	Sections 907.2.1 through 907.2	2.1.3 in Group A occup	pancies having an oc	cupant
40.13	load of 300 or more.			
40.14	Exceptions:			
40.15	1. Assembly areas us	ed solely for worship p	purposes.	
40.16	2. A fire alarm system	n is not required in bui	ldings with an occup	pant load
40.17	less than 1,000 when	an approved automatic	fire sprinkler system	n is installed
40.18	throughout the buildi	ng.		
40.19	3. Assembly uses loc	ated inside Group E oc	cupancies shall have	e alarms as
40.20	required for the Grou	p E occupancy.		
40.21	4. Group A-5 occupa	ncies. See also Section	n 907.2.11.	
40.22	907.2.1.1 Initiation. Initi	ation of the fire alarm	system shall be by a	utomatic
40.23	means. Approved automa	tic fire detectors shall l	be installed in laund	ry rooms,
40.24	boiler and furnace rooms,	mechanical and electr	ical rooms, shops, k	itchens,
40.25	trash-collection rooms, sto	orage rooms and simila	ır areas.	

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41.1	907.2.1.2 N	otification. The required fire alarm	system shall activate	an audible			
41.2	and visible notification appliance at a constantly attended location within the						
41.3	building for	the purposes of initiating emergency	y action. A presignal	feature and			
41.4	positive alar	m sequencing in accordance with N	FPA 72 are permitted	1.			
41.5	Occupant notific	ation shall be by means of voice an	nouncements, either	live or			
41.6	prerecorded, initiated	by the person in the constantly atte	nded location.				
41.7	Except	ion: Where no constantly attended	location exists, an au	tomatic			
41.8	fire alar	m system providing a general evacu	uation signal or an ap	proved			
41.9	emerge	ncy voice/alarm communications sy	stem is permitted.				
41.10	907.2.1.3 Sy	vstem initiation in Group A occup	ancies with occupan	it load of			
41.11	1,000 or mo	ore. Activation of the fire alarm sys	tem in Group A occu	ipancies			
41.12	with an occupant load of 1,000 or more shall immediately initiate an approved						
41.13	prerecorded message announcement using an approved emergency voice/alarm						
41.14	communications system in accordance with NFPA 72.						
41.15	Except	ion: Where approved, the prerecord	led announcement is	allowed to			
41.16	be man	ually deactivated for a period of time	e, not to exceed three	minutes, for			
41.17	the sole	purpose of allowing a live voice an	inouncement from an	approved,			
41.18	constan	tly attended location.					
41.19	Subp. 4. IFC se	ction 907.2.2. IFC section 907.2.2 i	is amended, and secti	ons added,			
41.20	to read:						
41.21	907.2.2 Group I	<b>B, general.</b> A fire alarm system shal	l be installed in accor	rdance with			
41.22	Sections 907.2.2	through 907.2.2.3 in Group B occu	pancies if:				
41.23	1. The build	ling has an occupant load of 500 or	more persons;				
41.24	2. The build	ling has an occupant load of more th	an 100 persons abov	e or below			
41.25	the lowest le	evel of exit discharge; or					
41.26	3. The build	ling contains an ambulatory care fac	cility.				

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42.1	When automatic spri	nkler systems or automatic fire c	letectors are installe	ed in	
42.2	ambulatory care facil	ities, such systems or detectors sl	nall be connected to	the building	
42.3	fire alarm system.				
42.4	Exception: In o	ther than ambulatory care faciliti	es, a fire alarm syst	em is not	
42.5	required when a	n approved automatic fire-exting	uishing system is ir	stalled	
42.6	throughout the b	uilding.			
42.7	907.2.2.1 Initiat	ion. Initiation of the fire alarm s	ystem shall be by a	utomatic	
42.8	means. Approved automa	tic fire detectors shall be provide	d in boiler and furn	ace rooms,	
42.9	shops, kitchens, mechanic	cal and electrical rooms, trash-co	llection rooms, stor	age rooms	
42.10	and similar areas. In amb	ulatory care facilities, initiation of	of the fire alarm syst	tem shall	
42.11	also be by manual means				
42.12	907.2.2.2 Notifie	cation. Activation of the fire alar	m system shall initia	ate a general	
42.13	evacuation signa	ıl.			
42.14	Exception:	In lieu of audible notification ap	pliances, visible no	tification	
42.15	appliances shall be permitted to be used in patient care areas.				
42.16	907.2.2.3 Ambu	latory care facilities. Corridors	and rooms or space	es open to	
42.17	corridors within	an ambulatory care facility shall	be protected by an	automatic	
42.18	smoke-detection	system.			
42.19	Subp. 5. IFC section	n 907.2.3. IFC section 907.2.3 is	amended, and secti	ons added,	
42.20	to read:				
42.21	907.2.3 Group 1	E, general. A fire alarm system s	shall be installed in a	accordance	
42.22	with Sections 90	7.2.3 through 907.2.3.3 in Group	p E occupancies hav	ving an	
42.23	occupant load of	50 or more.			
42.24	907.2.3.1 Initiat	ion. Initiation of the fire alarm s	ystem shall be by m	nanual and	
42.25	automatic means	Approved automatic fire detect	ors shall be provide	ed in laundry	
42.26	rooms, boiler an	d furnace rooms, mechanical and	d electrical rooms, s	shops,	

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43.1	]	aboratories, kitchens, locker roor	ns, custodial closets	, trash-collection ro	ooms,	
43.2	S	storage rooms, lounges and simila	ar areas.			
43.3		Exceptions:				
43.4		1. In buildings protected	l throughout by an a	approved fire sprink	cler	
43.5		system, manual fire alarr	n boxes are only req	uired in the main of	ffice and	
43.6		in a custodial area.				
43.7		2. Where all corridors ar	e protected by an ap	proved automatic fi	re alarm	
43.8		system having smoke de	etection with alarm v	verification, manual	l fire	
43.9		alarm boxes are only req	uired near exits serv	ving shops, chemist	try and	
43.10		physics laboratories, boi	ler rooms, industrial	technology and inc	dustrial	
43.11		arts rooms, kitchens, cus	stodian's offices and	main offices.		
43.12	907.2.3.2 Travel through adjoining rooms. Where the only means of egress					
43.13	1	travel from an interior room or ro	oms having an aggr	egate occupant load	d of	
43.14	more than ten occupants is through an adjoining or intervening room, automatic					
43.15	smoke detectors shall be installed throughout the common atmosphere through					
43.16	which the path of egress travel passes.					
43.17		<b>Exception:</b> In buildings that	are protected throu	ghout by an approv	/ed	
43.18		automatic sprinkler system in	nstalled in accordance	e with Section 903	.3.1.1,	
43.19		smoke detectors are not requi	ired in intervening o	r adjoining rooms.		
43.20		907.2.3.3 Notification. Activation	n of the fire alarm sy	stem or automatic s	sprinkler	
43.21	S	system shall initiate a general eva	cuation signal.			
43.22		[For text of s	subp 6, see M.R.]			
42.22	C1	7 150				
43.23	_	7. <b>IFC section 907.2.5.</b> IFC se	ction 907.2.5 is ame	inded, and sections	added,	
43.24	to read:	Course II coursed A fire alor				
43.25		<b>2.5 Group H, general.</b> A fire alar				
43.26	Secti	ons 907.2.5 through 907.2.5.2 in	Group H-5 occupan	cies, occupancies u	sea for	
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44.1	the manufacture	of organic coatings and, when requi	ired by Chapters 60, 6	52, and
44.2	63, at the follow	ing locations:		
44.3	1. Rooms o	r areas where highly toxic compress	ed gases are stored or	used;
44.4	2. Rooms c	r areas where Class I, II or III organi	ic peroxides are stored	l; and
44.5	3. Liquid a	nd solid oxidizer storage areas.		
44.6	907.2.5.1 I	itiation. Initiation of the fire alarm	system in Group H-5 c	occupancies
44.7	and in occu	pancies used for the manufacture of	organic coatings shal	l be by
44.8	manual mea	ns. Initiation of fire alarm systems i	installed for highly to	kic gases,
44.9	organic per	oxides and oxidizers shall be by auto	omatic means, as spec	ified in
44.10	Chapters 60	, 62, and 63.		
44.11	907.2.5.2 N	otification. Activation of the fire al	arm system in Group	H-5
44.12	occupancie	and in occupancies used for the ma	unufacture of organic of	coatings
44.13	shall initiat	e a general evacuation signal. Activa	ation of the automatic	detection
44.14	systems ins	alled for highly toxic gases, organic	peroxides and oxidiz	ers shall
44.15	sound a loc	al alarm.		
44.16	Subp 8 IFC s	ection 907.2.6. IFC section 907.2.6 a	and all subsections are	deleted in
44.10	-	laced with the following:	ind an subsections are	
44.18		, general. A fire alarm system shall	be installed in accord	lance with
44.19	-	through 907.2.6.4.2 in Group I occu		
44.20		roup I-1 occupancies, general. A r		fire alarm
44.21		be installed in Group I-1 occupance		
44.22	-	through 907.2.6.1.3.		
44.23		<b>.1.1 Initiation.</b> Initiation of the fire	alarm system shall be	by manual
44.24	and au	omatic means. Approved automatic	fire detectors shall be	installed
44.25	in laun	dry and soiled linen rooms, boiler ar	nd furnace rooms, me	chanical
44.26	and ele	ctrical rooms, shops, laboratories, ki	itchens, locker rooms,	custodial
44.27	closets	trash-collection rooms, storage roo	ms, lounges, gift shop	os and

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45.1	similar a	reas. Automatic smoke detectors	shall be provided in a	corridors	
45.2	and areas	s that are open to corridors.			
45.3	Exc	eption: Manual fire alarm boxes i	n patient sleeping are	eas of Group	
45.4	I-1 o	occupancies shall not be required a	at exits if located at a	ll nurses'	
45.5	stati	ons or other constantly attended st	taff locations, provide	ed such fire	
45.6	alar	n boxes are visible and continuou	sly accessible, if trav	el distances	
45.7	requ	ired by Section 907.4.2 are not ex	ceeded.		
45.8	907.2.6.1	.2 Notification. Activation of the	fire alarm system or	automatic	
45.9	sprinkler	system shall initiate a general eva	acuation signal. In a	ddition,	
45.10	activatio	n of the fire alarm system shall im	mediately transmit ar	n alarm to an	
45.11	approved	central station or remote station s	service.		
45.12	Exc	eptions:			
45.13		1. In lieu of audible notification a	appliances, visible no	tification	
45.14	appliances shall be allowed to be used in critical care areas.				
45.15	2. Where occupants are incapable of evacuating themselves				
45.16		because of age, physical/mental d	lisabilities or physica	l restraint,	
45.17		only the attendants or other perso	onnel required to eva	cuate	
45.18		occupants from a zone, area, floor	r or building shall be	required to	
45.19		be notified. This notification shall	include means to rea	adily identify	
45.20		the zone, area, floor or building in	n need of evacuation.		
45.21	907.2.6.1	.3 Sleeping room smoke alarms	. Smoke alarms shall	be installed	
45.22	in reside	nt sleeping rooms in accordance w	vith Section 907.2.11.	.1.	
45.23	907.2.6.2 Gr	oup I-2 occupancies, general. A	manual and automati	c fire alarm	
45.24	system shall	be installed in Group I-2 occupance	eies in accordance wi	th Sections	
45.25	907.2.6.2 three	ough 907.2.6.2.4.			
45.26	907.2.6.2	<b>2.1 Initiation.</b> Initiation of the fire	alarm system shall b	e by manual	
45.27	and auto	matic means. Approved automatic	c fire detectors shall b	be installed	

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46.1		in laundry and soiled liner	n rooms, boiler an	d furnace rooms, me	echanical
46.2		and electrical rooms, shop	s, laboratories, kit	chens, locker rooms	, custodial
46.3		closets, trash-collection ro	oms, storage roor	ns, lounges, gift sho	ps, and
46.4		similar areas. Hospitals, n	ursing homes (bot	h intermediate care	and skilled
46.5		nursing facilities), board a	nd care homes, ar	d detoxification faci	lities shall
46.6		be provided with smoke de	etection throughout	at the corridor and an	reas open to
46.7		the corridors, other than n	urse's stations.		
46.8		Exceptions:			
46.9		1. Corridor smol	ke detection shall	not be required whe	ere the
46.10		sleeping room sn	noke detectors req	uired in Section 907	.2.6.2.3 are
46.11		connected to an a	pproved fire alarr	n system and activat	e a general
46.12		evacuation signal	l.		
46.13		2. Manual fire al	arm boxes shall n	ot be required at exi	its from
46.14		patient sleeping a	areas if located at	all nurses' stations of	or other
46.15		constantly attend	ed staff locations,	provided such fire a	larm boxes
46.16		are visible and co	ontinuously access	sible and that travel	distances
46.17		horizontally, on t	he same floor sha	ll not exceed 200 fee	et to reach
46.18		a manual fire alar	rm box.		
46.19		907.2.6.2.2 Notification.	Activation of the	fire alarm system or	automatic
46.20		sprinkler system shall initi	ate a signal that is	distinctive from au	dible signals
46.21		used for other purposes in	the same building	g. Such signal is inte	ended to
46.22		notify staff and need not n	neet the minimum	sound pressure leve	ls required
46.23		for general evacuation fire	alarm notification	n. In addition, activa	tion of the
46.24		fire alarm system shall imp	nediately transmit	an alarm to an appr	oved central
46.25		station or remote station s	ervice.		
46.26		Exceptions:			

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47.1		1. In lieu of au	udible notification a	ppliances, visible no	otification
47.2		appliances sha	ll be allowed to be	used in critical care a	areas.
47.3		2. Where occu	pants are incapable	e of evacuating them	iselves
47.4		because of age	, physical/mental d	isabilities, or physica	al restraint,
47.5		only the attend	lants or other perso	nnel required to eva	cuate
47.6		occupants from	n a zone, area, floor	, or building shall be	required to
47.7		be notified. Th	is notification shall	include means to rea	adily identify
47.8		the zone, area,	floor, or building in	n need of evacuation	
47.9		3. Where total	evacuation of occu	upants is impractical	due to
47.10		building config	guration, only the o	ccupants in the affec	ted zones
47.11		shall be initiall	y notified. Provisio	ons shall be made to	selectively
47.12		notify occupan	ts in other zones to	afford orderly evac	uation of
47.13		the entire build	ling.		
47.14		907.2.6.2.3 Patient roo	m smoke detector	s. Smoke detectors s	shall be
47.15		installed in patient sleep	oing rooms of hospi	tals and nursing hon	nes. Such
47.16		detector's primary powe	r shall be other that	n battery power. Act	tuation of
47.17		such detectors shall cause	se a visual display o	on the corridor side of	of the room
47.18		where the detector is loo	cated and shall caus	se a distinct audible a	and visual
47.19		alarm at the nurse's stati	on attending the roc	om. Such detectors m	nay be part of
47.20		the facility's fire alarm s	ystem, nurse's call	system, or a standald	one system.
47.21		907.2.6.2.3.1 Integ	ral smoke detector	rs for automatic do	or-closing
47.22		devices. Integral sn	noke detectors for a	utomatic door-closin	ng devices on
47.23		sleeping room door	rs can meet the requ	irement for patient r	oom smoke
47.24		detectors found in s	section 907.2.6.2.3	provided they perfor	m all the
47.25		required alerting fu	nctions found in se	ction 907.2.6.2.3.	

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- 48.1907.2.6.2.4 Sleeping room smoke alarms. For Group I-2 facilities, other48.2than hospitals and nursing homes, single station smoke alarms shall be48.3installed in resident sleeping rooms.
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  48.4
  48.5
  48.5
  48.6
  907.2.6.3 Group I-3 occupancies, general. A manual and automatic fire alarm system shall be installed in Group I-3 occupancies in accordance with Sections
  48.6
  907.2.6.3 through 907.2.6.3.4.
- 907.2.6.3.1 Initiation. Initiation of the fire alarm system shall be by 487 manual and automatic means. Approved automatic fire detectors shall 48.8 be installed in laundry and soiled linen rooms, boiler and furnace rooms, 48.9 mechanical and electrical rooms, shops, laboratories, kitchens, locker 48.10 rooms, custodial closets, trash-collection rooms, storage rooms, lounges, 48.11 48.12 gift shops, commissaries and similar areas. Actuation of an automatic fire-extinguishing system, a manual fire alarm box or a fire detector shall 48.13 initiate an approved fire alarm signal, which automatically notifies staff. 48.14 Presignal systems shall not be used. 48.15
- 48.16
  907.2.6.3.2 Manual fire alarm boxes. Manual fire alarm boxes are not
  48.17
  48.17
  48.18
  48.18
  boxes are provided at staff-attended locations having direct supervision over
  48.19
  areas where manual fire alarm boxes have been omitted.
- 48.20 Manual fire alarm boxes are permitted to be locked in areas occupied by detainees,
  48.21 provided that staff members are present within the subject area and have keys readily
  48.22 available to operate the manual fire alarm boxes.
- 48.23
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  907.2.6.3.3 Smoke detectors. An approved automatic smoke-detection
  48.26
  48.26
  48.26
  48.26
  48.26
- 48.27 Exceptions:

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49.1		1. Other appro	oved smoke-detection	on arrangements prov	viding	
49.2		equivalent prof	tection, such as place	ing detectors in exha	aust ducts	
49.3		from cells or b	ehind protective gri	lls, are allowed when	n necessary	
49.4		to prevent dam	age or tampering.			
49.5		2. Smoke dete	ctors are not require	ed in sleeping rooms	with four	
49.6		or fewer occup	ants in smoke com	partments that are ec	luipped	
49.7		throughout wit	h an approved auto	matic sprinkler syste	m.	
49.8	907	.2.6.3.4 Notification	Activation of the	fire alarm system or	automatic	
49.9	spri	nkler system shall in	iitiate a signal that i	s distinctive from au	dible signals	
49.10	used for other purposes in the same building. Such signal is intended to					
49.11	notify staff and need not meet the minimum sound pressure levels required					
49.12	for general evacuation fire alarm notification. In addition, activation of the					
49.13	fire alarm system shall immediately transmit an alarm to an approved central					
49.14	station or remote station service.					
49.15	907.2.6.	4 Group I-4 occupa	ncies, general. A r	nanual and automatic	e fire alarm	
49.16	system s	hall be installed in C	Group I-4 occupance	ies in accordance wit	h Sections	
49.17	907.2.6.	4.1 through 907.2.6.	4.2.			
49.18	907	.2.6.4.1 Initiation. I	nitiation of the fire	alarm system shall b	e by manual	
49.19	and	automatic means. A	approved automatic	fire detectors shall b	e installed	
49.20	in la	aundry and soiled lir	nen rooms, boiler ar	nd furnace rooms, me	echanical	
49.21	and	electrical rooms, she	ops, laboratories, ki	tchens, locker rooms	, custodial	
49.22	clos	sets, trash-collection	rooms, storage roo	ms, lounges, gift sho	ps, and	
49.23	sim	ilar areas. Automation	c smoke detectors s	hall be provided in c	orridors	
49.24	and	areas that are open	to corridors.			
49.25	907	.2.6.4.2 Notification	Activation of the	fire alarm system or	automatic	
49.26	spri	nkler system shall ir	nitiate a general eva	cuation signal. In ac	ldition,	

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50.1	activation of the fire ala	rm system shall imi	nediately transmit a	an alarm	
50.2	signal to an approved ce	entral station or rem	ote station service.		
50.3	[For tex	t of subp 9, see M.	R.]		
50.4	Subp. 10. IFC section 907.2.8.	IFC section 907.2.8	and all subsections	are deleted	
50.5	in their entirety and replaced with the	following:			
50.6	907.2.8 Group R-1, general. A	fire alarm system sh	all be installed in a	ccordance	
50.7	with Sections 907.2.8 through 90	7.2.8.3 in Group R-	1 occupancies.		
50.8	Exceptions:				
50.9	1. A fire alarm system i	s not required in bu	ildings not over two	stories in	
50.10	height where all individ	ual sleeping units a	nd contiguous attic	and crawl	
50.11	spaces are separated from each other and public or common areas by at				
50.12	least one-hour fire partitions and each sleeping unit has an exit directly to a				
50.13	public way, exit court or yard.				
50.14	2. Buildings containing	five or fewer sleepi	ng units shall be all	owed to be	
50.15	equipped with approved	l multiple-station sm	oke alarms installed	d as required	
50.16	for Group R-3 occupant	cies. Installation sha	ll be in accordance	with Section	
50.17	907.2.11.				
50.18	907.2.8.1 Initiation. Initiation	on of the fire alarm	system shall be by a	automatic	
50.19	means. Approved automatic	fire detectors shall I	be provided in boile	r and furnace	
50.20	rooms, shops, laundry rooms	s, mechanical and el	ectrical rooms, trasl	h-collection	
50.21	rooms, storage rooms, gift sl	hops, locker rooms	and similar areas. A	utomatic	
50.22	smoke detectors shall be pro	vided in all commo	n areas and interior	corridors	
50.23	serving as required means or	f egress.			
50.24	Exception: System fire	and smoke detector	as are not required v	when an	
50.25	approved automatic fire-	-extinguishing syste	m is installed in acc	ordance with	
50.26	Section 903.3.1.1 or 903	3.3.1.2 and a manua	l fire alarm box is p	rovided at	

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51.1	a constantly	attended location. When a const	antly attended loc	ation is not	
51.2	provided, the	e manual fire alarm box shall be	provided at the ma	ain exit.	
51.3	907.2.8.2 Notific:	ation. Activation of the fire alarr	n system or autom	atic sprinkler	
51.4	system shall initia	ate a general evacuation signal.			
51.5	907.2.8.3 Sleepin	ig unit smoke alarms. Sleeping	unit smoke alarm	s required by	
51.6	Section 907.2.11	shall not be connected to a fire a	larm system.		
51.7	Exception: (	Connection of such alarms for ar	nunciation only.		
51.8	Subp. 11. IFC sectio	<b>n 907.2.9.</b> IFC section 907.2.9	is amended, and s	ections	
51.9	added, to read:				
51.10	907.2.9 Group R-2, g	general. A fire alarm system sha	ll be installed in a	ccordance	
51.11	with Sections 907.2.9	through 907.2.9.2 in Group R-2	occupancies when	re:	
51.12	1. Any sleeping u	unit or dwelling unit is located tw	vo or more stories	above the	
51.13	story containing the lowest level of exit discharge;				
51.14	2. Any sleeping unit or dwelling unit is located more than one story below the				
51.15	highest level of e	xit discharge of exits serving the	dwelling unit;		
51.16	3. The building c	ontains more than 16 dwelling u	nits or sleeping ur	nits; or	
51.17	4. The building i	s used as a congregate living fac	cility, dormitory, c	onvent,	
51.18	monastery, fratern	nity, sorority, group home, or she	elter and has an oc	cupant load	
51.19	of 20 or more.				
51.20	Exception:	A fire alarm system is not requir	ed in buildings no	t over two	
51.21	stories in hei	ght where all dwelling units and	contiguous attic a	and crawl	
51.22	spaces are se	parated from each other and put	olic or common ar	eas by at	
51.23	least one-hou	ar fire partitions and each dwelli	ng unit has an exi	t directly	
51.24	to a public w	yay, exit court or yard.			
51.25	907.2.9.1 Initiati	on. Initiation of the fire alarm s	ystem shall be by	automatic	
51.26	means. Automati	c fire detectors shall be provided	l in boiler and furr	nace rooms,	
51.27	trash-collection re	ooms, shops, laundry rooms, me	chanical and elect	rical rooms,	

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52.1	sto	rage rooms and similar area	s. Automatic smoke d	etectors shall be pro	ovided in
52.2	all	common areas and interior	corridors serving as a	required means of e	egress.
52.3		Exception: System fire a	nd smoke detectors ar	e not required when	n an
52.4		approved automatic fire-ex	xtinguishing system is	installed througho	ut the
52.5		building.			
52.6	90′	7.2.9.2 Notification. Activat	tion of the fire alarm s	ystem or automatic	sprinkler
52.7	sys	stem shall initiate a general of	evacuation signal.		
52.8	90′	7.2.9.3 Dwelling unit smok	e alarms. Dwelling u	nit smoke alarms re	equired
52.9	by	Section 907.2.11 shall not b	e connected to the bui	ilding fire alarm sys	stem.
52.10		Exception: Connection of	f such alarms for annu	inciation only.	
50.11	Sector 1		C		6.11
52.11		1a. IFC section 907.2.10.1			
52.12		0 Group R-4, general. A fi	-		ordance
52.13		ections 907.2.10 through 907	2.2.10.3 in Group R-4	occupancies.	
52.14	Ex	ceptions:			
52.15		1. A fire alarm system is a	not required in buildir	ngs two stories or le	ess in
52.16		height where all individua	l sleeping units and co	ontiguous attic and	crawl
52.17		spaces to those units are se	eparated from each ot	her and public or co	ommon
52.18		areas by at least one-hour	fire partitions and eac	h sleeping unit roor	n has an
52.19		exit directly to a public wa	ay, exit court, or yard.		
52.20		2. Buildings containing five	ve or fewer sleeping u	nits shall be allowe	d to be
52.21		equipped with approved m	ultiple-station smoke	alarms installed as	required
52.22		for Group R-3 occupancie	s. Installation shall be	in accordance with	Section
52.23		907.2.11.			
52.24	90′	7.2.10.1 Initiation. Initiatio	n of the fire alarm sys	tem shall be by aut	omatic
52.25	me	eans. Approved automatic fir	e detectors shall be pr	ovided in boiler an	d furnace
52.26	roc	oms, shops, laundry rooms, i	nechanical and electri	cal rooms, trash-co	llection
52.27	roc	oms, storage rooms, gift sho	ps, locker rooms, and	similar areas. Auto	omatic

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53.1	smoke detectors shall be	provided in all commor	areas and interior	corridors
53.2	serving as required mean	ns of egress.		
53.3	<b>Exception:</b> System	fire and smoke detector	s are not required w	when an
53.4	approved automatic	fire-extinguishing system	n is installed in acc	ordance with
53.5	section 903.3.1.1, 90	03.3.1.2, or 903.3.1.3.		
53.6	907.2.10.2 Notification.	Activation of the fire a	larm system or auto	matic
53.7	sprinkler system shall ini	itiate a general evacuation	on signal.	
53.8	907.2.10.3 Smoke alarn	ns. Single and multistati	ion smoke alarms sl	hall be
53.9	installed in accordance w	with Section 907.2.11.		
53.10	Subp. 12. [See repealer.]			
53.11	Subp. 13. IFC section 907.2	<b>.11.4.</b> IFC section 907.2	.11.4 is amended by	y numbering
53.12	the existing exception and adding	a new exception, so that	the exceptions read	l as follows:
53.13	Exceptions:			
53.14	1. Smoke alarm	as are not required to be	equipped with batte	ry backup in
53.15	Group R-1 whe	re they are connected to	an emergency elect	rical system.
53.16	2. Smoke alarm	as are not required to be	equipped with batte	ry backup in
53.17	Group R-2 occu	pancies equipped throug	hout with an autom	atic sprinkler
53.18	system installed	l in accordance with Sec	tion 903.3.1.1 or 90	)3.3.1.2.
53.19	3. Smoke alarm	ns installed in sleeping re	ooms of Group R-3	buildings
53.20	equipped throug	ghout with an automatic	sprinkler system in	stalled in
53.21	accordance with	n Section 903.3.1.1, 903	.3.1.2, or 903.3.1.3	are allowed
53.22	to be battery-po	owered.		
53.23	Subp. 14. [See repealer.]			
53.24	[For	text of subp 15, see M.I	R.]	
53.25	Subp. 15a. IFC section 907.	<b>3.</b> IFC section 907.3 is a	mended and section	is added to
53.26	read:			

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907.3 Fire safety functions. Automatic fire detectors required by Section 907.2 and 54.1 Chapter 11 are to activate notification appliances in accordance with those sections. When 54.2 automatic fire detectors are installed for other fire safety functions, they shall perform the 54.3 intended function upon activation. When automatic detectors are installed for fire safety 54.4 functions and the building has a fire alarm system, the detectors shall activate supervisory 54.5 signals at the fire alarm control panel or at a constantly attended location. When the 54.6 building does not have a fire alarm system, the detectors shall activate a visual and audible 547 supervisory signal at an approved location, which shall indicate the source of the signal. 54.8

54.9 907.3.1 Air distribution and air-handling systems. Smoke detectors installed to
54.10 shut down the air distribution or air-handling system shall, upon activation, perform
54.11 the intended function. Air distribution or air-handling equipment that is part of a
54.12 smoke-control system shall switch to smoke-control mode upon activation of a
54.13 detector.

54.14**907.3.1.1 Fire alarm system interface.** Smoke detectors that are installed in54.15air distribution or air-handling systems for shutdown purposes and that are54.16connected to a fire alarm system shall not sound a general evacuation signal.

54.17 907.3.2 Elevator control functions. Smoke detectors that are installed to control or
54.18 recall elevators or to control doors for elevators, elevator lobbies, or elevator shafts
54.19 and that are connected to a fire alarm system shall not sound a general evacuation
54.20 signal. Elevator recall and firefighter's emergency operation for elevators shall only
54.21 be controlled by elevator smoke detectors and shall not initiate upon other building
54.22 fire detectors or evacuation signals.

907.3.3 Door hold-open functions. Smoke detectors that are installed to hold open
fire doors under nonemergency conditions and that are connected to a fire alarm
system shall sound a general evacuation signal when the doors being held open are
part of the means of egress corridor or stair system. Door hold-open smoke detectors
are not required to activate a visual or audible signal.

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55.1	Subp. 15b. IFC section 907.6.5. IFC section 907.6.5 is deleted.
55.2	Subp. 16. [See repealer.]
55.3	Subp. 17. [See repealer.]
55.4	Subp. 18. [See repealer.]
55.5	Subp. 19. [See repealer.]
55.6	Subp. 20. [See repealer.]
55.7	Subp. 21. [See repealer.]
55.8	Subp. 22. [See repealer.]
55.9	Subp. 23. [See repealer.]
55.10	Subp. 24. [See repealer.]
55.11	Subp. 25. IFC section 907.8.2. IFC section 907.8.2 is amended to read:
55.12	907.8.2 Testing. Fire alarm systems shall be inspected and tested at least annually in
55.13	accordance with NFPA 72 or more frequently where required by the code official.
55.14	Exception: Devices or equipment that are inaccessible for safety considerations
55.15	shall be tested during scheduled shutdowns where approved by the code official,
55.16	but not less than every 18 months.
55.17	7511.0908 SECTION 908, EMERGENCY ALARM SYSTEMS.
55.18	IFC section 908.7 is deleted.
55.19	7511.0909 SECTION 909, SMOKE CONTROL SYSTEMS.
55.20	Subpart 1. [See repealer.]
55.21	Subp. 1a. IFC section 909.1. IFC section 909.1 is amended to read as follows:
55.22	909.1 Scope and purpose. This section applies to mechanical or passive smoke control
55.23	systems when they are required for new buildings or portions thereof by provisions of

this section or Minnesota Rules, chapter 1305. The purpose of this section is to establish

minimum requirements for the design, installation, and acceptance testing of smoke 56.1 control systems that are intended to provide a tenable environment for the evacuation or 56.2 relocation of occupants and for fire suppression and overhaul efforts. These provisions are 56.3 not intended for the preservation of contents or the timely restoration of operations. 56.4 Subp. 1b. IFC section 909.4.6. IFC section 909.4.6 is amended to read as follows: 56.5 909.4.6 Duration of operations. All portions of the active or passive smoke control 56.6 system shall be capable of continued operation after detection of the fire event 56.7 for a period of not less than 20 minutes. System design shall be for 20 minutes; 56.8 however fans shall continue to operate after 20 minutes and shall continue to operate 56.9 automatically for suppression efforts for a minimum of 5 minutes for every 10 feet of 56.10 height of the protected space. 56.11 56.12 Subp. 1c. IFC section 909.4.7. IFC section 909.4 is amended by adding a section to read as follows: 56.13 909.4.7 Door opening force. With any of the design methods allowed by Section 56.14 909, the door opening force, latch release, and set-in-motion force shall comply with 56.15 Section 1008.1.3 requirements when the system is in smoke control mode. 56.16 Subp. 1d. IFC section 909.20. IFC section 909.20 is amended and a section added to 56.17 read: 56.18 909.20 Maintenance. Smoke control systems and post-fire smoke exhaust systems shall 56.19 be maintained to ensure to a reasonable degree that the system is capable of controlling 56.20 smoke for the duration required. The system shall be maintained in accordance with the 56.21 manufacturer's instructions and Sections 909.20.1 through 909.20.6. 56.22 (Sections 909.20.1 to 909.20.5 remain unchanged) 56.23 909.20.6 Qualifications. Special inspection agencies for smoke control shall have 56.24 expertise in fire protection engineering, mechanical engineering, and certification as 56.25 56.26 air balancers.

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57.1	Subp. 2. IFC section 909.21. IFC section 909.21.	ection 909 is amended	by adding a section	to read:
57.2	909.21 High-rise and covered mall smo	oke-exhaust systems.	High-rise building	s, not
57.3	provided with a smoke control or a post-	fire smoke exhaust sy	stem, shall be equip	pped
57.4	with a smoke removal system installed as			•
57.5	Code. Covered mall buildings exceeding	50,000 square feet (4	$4,645 \text{ m}^2$ ) in floor a	rea,
57.6	excluding anchor stores, and not provide	d with a smoke contro	l system, shall be e	quipped
57.7	with a post-fire smoke exhaust system in	stalled and maintained	d in accordance wit	h the
57.8	Building Code.			
57.9	7511.0910 SECTION 910, SMOKE A	ND HEAT VENTS.		
57.10	[For text of	f subp 1, see M.R.]		
57.11	Subp. 2. IFC section 910.4. IFC se	ction 910.4 is amende	ed to read:	
57.12	910.4 Mechanical smoke exhaust. Mec	hanical smoke exhaus	t shall be in accord	ance
57.13	with Sections 910.4.1 through 910.4.7.			
57.14	Subp. 3. IFC section 910.4.3. IFC	section 910.4.3 is ame	ended to read:	
57.15	910.4.3 Operation. Mechanical smo	oke exhaust fans shall	be manually activa	ated.
57.16	Individual manual controls of each f	an unit shall also be p	rovided.	
57.17	[For text of	f subp 4, see M.R.]		
57.18	Subp. 5. IFC section 910.5. IFC se	ction 910 is amended	by deleting section	910.5
57.19	and replacing it with the following:			
57.20	910.5 Calculated engineering design of	f mechanical smoke of	exhaust. Calculate	d
57.21	engineering design of mechanical smoke	exhaust shall be in ac	cordance with Sec	tions
57.22	910.5.1 through 910.5.5.			
57.23	910.5.1 Methodology. Mechanical	smoke exhaust system	is shall be designed	l to
57.24	remove smoke after a fire is extingu	ished and to assist the	fire department du	ring
57.25	suppression operations or during ma	rginal sprinkler contro	ol situations. They	are not
57.26	considered life safety systems and an	re not designed for occ	cupant safety.	

910.5.2 Calculation method. Volumetric flow rate calculations shall demonstrate
that the system will provide at least three air changes per hour for the space required
to be provided with smoke exhaust. When only a portion of a space is used for
high-piled storage requiring smoke exhaust, the volume to be extracted shall be based
on the ceiling height multiplied by the actual gross floor area for storage.

910.5.3 Operation. Mechanical smoke exhaust fans shall be manually activated. In
addition, individual manual controls of each fan unit shall also be provided.

**910.5.4 Supply air.** Supply air for exhaust fans shall be sized to provide a minimum 58.8 of 50 percent of the required exhaust. Air velocity at each supply air opening shall 58.9 not exceed an average of 200 feet per minute when measured 4 feet (1219 mm) in 58.10 front of the opening. Openings for supply air shall be uniformly distributed around 58.11 the periphery of the area served and be located or ducted to a position not more 58.12 than one-half the storage height above the floor. Supply air openings shall open 58.13 automatically upon operation of the smoke exhaust system and shall not require a 58.14 manual action at each supply opening for operation. Supply air openings shall be kept 58.15 clear of storage or obstructions to airflow for at least 4 feet (1219 mm) in front of 58.16 the opening. Supply air openings shall be separated from exhaust fans and exterior 58.17 combustibles to prevent introduction of smoke into the building. 58.18

58.19910.5.5 Equipment. Wiring and controls shall be as required in Section 910.4.4.58.20Interlocks shall be as required in Section 910.4.6. Exhaust fans shall be uniformly58.21spaced and each fan shall have a maximum individual capacity of 30,000 cfm (85058.22 $m^3/min$ ).

Subp. 6. IFC section 910.6. IFC section 910.6 is amended as follows:
910.6 Testing and maintenance. Mechanical smoke exhaust systems shall be tested and
maintained as required in Sections 910.6.1 through 910.6.4.

58.26 910.6.1 Acceptance testing. Mechanical smoke exhaust systems shall be acceptance
58.27 tested as required by Sections 909.18 and 909.19.

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- system, including verification of override from the firefighter's control panelwhen systems are equipped for automatic activation.
- 59.6 910.6.2 Special inspections. Special inspections for mechanical smoke exhaust shall
  59.7 be conducted according to Section 909.18.8.
- 59.8 910.6.3 Maintenance. Mechanical smoke exhaust systems, including exhaust fans,
  59.9 supply air openings and controls, shall be maintained and unobstructed.

910.6.4 Operational testing. Operational testing of the smoke exhaust system shall
include all equipment such as initiating devices, fans, dampers, controls and supply
air openings. Mechanical smoke exhaust systems shall be operated and tested under
each control sequence at least annually.

59.14 Subp. 7. IFC section 910.7. IFC section 910.7 is amended to read:

59.15 910.7 Maintenance. Smoke and heat vents shall be maintained in an operative condition
59.16 in accordance with NFPA 204. Fusible links shall be promptly replaced whenever fused,
59.17 damaged, or painted. Smoke and heat vents shall not be modified.

59.18 **7511.1001 SECTION 1001, ADMINISTRATION.** 

59.19 Subpart 1. **IFC section 1001.1.** IFC section 1001.1 is amended by adding a section 59.20 to read:

59.21 1001.1 General. Buildings or portions thereof shall be provided with a means of egress
59.22 system as required by this chapter. The provisions of this chapter shall control the design,
59.23 construction, and arrangement of means of egress components required to provide an
approved means of egress from structures and portions thereof. Sections 1003 through
1029 and Section 1030 shall apply to new construction. Sections 1001, 1002, 1030, and
59.26 1104 shall apply to existing buildings.

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60.1	1001.1.1 Compliance options.	Means of egress ins	talled and maintaine	d in
60.2	accordance with the Minnesota	Residential Code or I	Minnesota Building (	Code, when
60.3	applicable, shall be deemed to o	comply with this chap	oter.	
60.4	Subp. 1a. IFC section 1001.1.	IFC section 1001.1	is amended by deleti	ng the
60.5	exception.			
60.6	Subp. 2. IFC section 1001.3.	IFC section 1001 is a	mended by adding a	section to
60.7	read:			
60.8	1001.3 Special exiting provisions f	or younger students	. Rooms in Group E	occupancies
60.9	used by preschool, kindergarten, first	st- or second-grade pu	pils, latchkey, child	care, early
60.10	childhood family education, teen pa	rent, or similar progra	ams shall be located a	as required
60.11	by the Building Code.			
60.12	7511.1008 SECTION 1008, DOO	RS, GATES AND TI	URNSTILES.	
60.13	Subpart 1. IFC sections 1008.	1.9.1, 1008.1.9.2, and	d 1008.1.9.3. IFC se	ctions
60.14	1008.1.9.1, 1008.1.9.2, and 1008.1.9	9.3 are amended to re	ad:	
60.15	<b>1008.1.9.1 Hardware.</b> Exc	cept as permitted by S	Section 1008.1.9.3, do	oor handles,
60.16	pulls, latches, locks and ot	her operating devices	on doors shall only	require a
60.17	single operation to release	the door from the egr	ess side.	
60.18	1008.1.9.2 Hardware heig	<b>ht.</b> Door handles, pu	Ills, latches, locks, ar	nd other
60.19	operating devices shall be	installed 34 inches (80	64 mm) minimum an	d 48 inches
60.20	(1219 mm) maximum abov	ve the finished floor.	Locks used only for	security
60.21	purposes and not used for n	normal operation are	permitted at any heig	sht.
60.22	1008.1.9.3 Locks and latc	hes. Locks and latche	es shall be permitted	to prevent
60.23	operation of doors where a	ny of the following e	xists:	
60.24	1. Places of detention	or restraint.		
60.25	2. In buildings in occu	pancy Group A having	ng an occupant load	of 300 or
60.26	less, Groups B, F, M,	and S and in places o	f religious worship, f	the main

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61.1		exterior door or doors are	permitted to be equ	uipped with key-op	erated
61.2		locking devices from the	egress side, provide	d:	
61.3		2.1 The locking device	ce is readily distingu	ishable as locked.	
61.4		2.2 A readily visible	durable sign is post	ed on the egress sid	le on or
61.5		adjacent to the door s	tating: THIS DOOI	R TO REMAIN UN	LOCKED
61.6		WHEN BUILDING	IS OCCUPIED. The	sign shall be in let	ters 1 inch
61.7		(25 mm) high on a co	ontrasting backgroun	nd.	
61.8		2.3 The use of the key	y-operated locking	device is revocable	by the fire
61.9		code official for due	cause.		
61.10		3. Where egress doors are	used in pairs, appro	oved automatic flush	n bolts shall
61.11	be permitted to be used, provided that the door leaf having the automatic				
61.12	flush bolts has no doorknob or surface-mounted hardware.				
61.13	4. Doors from individual dwelling or sleeping units of Group R occupancies				
61.14	having an occupant load of ten or less are permitted to be equipped with a				ed with a
61.15		night latch, dead bolt or se	ecurity chain, provid	led such devices are	e openable
61.16		from the inside without th	e use of a key or to	ol.	
61.17		5. Fire doors after the mit	nimum elevated ten	perature has disabl	ed the
61.18		unlatching mechanism in	accordance with list	ed fire door test pro	ocedures.
61.19		6. Delayed egress locks,	installed and mainta	ined in conformance	e with
61.20		Section 1008.1.9.7.			
61.21		7. Special locking arrange	ements installed and	maintained in conf	formance
61.22		with Section 1008.1.9.6 an	e allowed in Group	R-3 and Group R-4	congregate
61.23		care facilities and in Grou	p I occupancies.		
61.24		8. Electromagnetically lo	cked egress doors in	stalled and maintai	ined in
61.25		accordance with Section	1008.1.9.9.		

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62.1		9. In rooms, other than ce	ells, where occupants a	re being restrained	for safety
62.2		or security reasons, speci	al detention arrangeme	ents that comply wi	th the
62.3		requirements of Section 1	1008.1.11 are permitted	1.	
62.4	Subp.	1a. IFC section 1008.1.9.6	• IFC section 1008.1.9.	6 is amended to rea	ıd:
62.5	10	08.1.9.6 Special locking a	rrangements in Grouj	o I-1, I-2, R-3, or	R-4
62.6	oc	cupancies. Approved speci	ial locking arrangemen	ts shall be permitte	d in a
62.7	Gr	coup I-1, I-2, R-3, or R-4 oc	cupancy where the clin	nical needs of the p	ersons
62.8	rec	ceiving care require such lo	cking. Special locking	arrangements shall	l be
62.9	pe	rmitted in such occupancies	s where the building is	equipped throughout	ut with
62.10	an	approved automatic sprink	ler system in accordance	ce with Section 903	.3.1.1
62.11	an	d either an approved autom	atic smoke or heat dete	ection system instal	led in
62.12	ac	cordance with Section 907,	provided that doors are	e installed and oper	ate in
62.13	ac	cordance with items 1 throu	gh 10. Items 1 through	4 shall not apply to	o doors to
62.14	are	eas where persons, because	of clinical needs, requi	re restraint or conta	inment
62.15	as	part of the function of a psy	ychiatric treatment area	<b>1</b> .	
62.16		1. The doors unlock upon	n actuation of the autor	natic sprinkler syst	em or
62.17		automatic fire detection s	ystem.		
62.18		2. The doors unlock upo	n loss of power contro	lling the lock or lo	ck
62.19		mechanism.			
62.20		3. The door locks shall have	ave the capability of be	ing unlocked from	a signal
62.21		from the fire command co	enter, a nursing station,	or other approved	location.
62.22		4. A building occupant sl	hall not be required to p	pass through more t	han one
62.23		door with a special egress	s lock before entering a	an exit.	
62.24		5. The procedures to ope	rate the unlocking syst	em shall be describ	ed and
62.25		approved as part of the en	mergency planning and	preparedness requi	ired by
62.26		Chapter 4.			

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63.1		6. All clinical staff shall h	ave keys, codes, or ot	her means necessa	ry to
63.2		operate the locking device			
63.3		7. Emergency lighting sha	ll be provided at the d	oor.	
63.4		8. 24-hour resident or patie	ent supervision is prov	vided within the loc	cked area.
63.5		9. Locking devices are des	signed to fail in the op	en position.	
63.6		10. Floor levels within the	e building or portion of	f the building with	special
63.7		locking arrangements shal	l be divided into at lea	st two compartme	nts by
63.8		smoke barriers meeting the	e requirements of the S	State Building Cod	le.
63.9		Exception to item 10	: In existing Group R	-3 occupancies wh	ere the
63.10		construction of smoke	e barrier compartmenta	ation is not practic	al, an
63.11		existing sleeping roor	n provided with smok	e tight construction	n and
63.12		having an escape wind	dow complying with S	Section 1029 is allo	owed.
(2.12	Suba 2	IEC continue 1009 1 0 7 1	EC agatian 1009 1 0 7	is amonded to use	4.
63.13	*	. IFC section 1008.1.9.7. I			
63.14		08.1.9.7 Delayed egress doo			
63.15		ll be permitted to be installe	c		•
63.16		sembly Group A occupancie	-		
63.17	and	l assembly uses within Educ	cational Group E occu	pancies. Delayed	egress
63.18	loc	ks shall be installed only in	buildings that are equ	ipped throughout v	with an
63.19	aute	omatic sprinkler system in a	ccordance with Section	on 903.3.1.1 or an a	approved
63.20	smo	oke detection system install	ed in the means of egr	ess system serving	g the
63.21	loc	ked area, provided that the c	loors unlock in accord	ance with Items 1	through
63.22	4. 4	A building occupant shall no	ot be required to pass t	hrough more than	one door
63.23	equ	ipped with a delayed egress	s lock before entering	an exit.	
63.24		1. The doors unlock upon	actuation of the auton	natic sprinkler syst	tem or
63.25		automatic fire detection sy	vstem.		
63.26		2. The doors unlock upon	loss of power control	lling the lock or lo	ck
63.27		mechanism.			

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64.1		3. The door locks have the factor of the second sec	he capability of bein	ng unlocked by a si	gnal from the	
64.2		fire command center.				
64.3		4. The door locks shall in	nclude an irreversit	ble process that will	release the	
64.4		latch in not more than 15	seconds when a fo	orce of not more that	n 15 pounds	
64.5		(66 N) is applied for one	e second to the relea	ase device. Initiatic	on of the	
64.6		irreversible process shall	activate an audible	e signal in the vicin	ity of the	
64.7		door. Once the door lock	has been released	by the application c	of force to the	
64.8		releasing device, relocking	ng shall be by manu	ual means only.		
64.9		Exception: Where a	approved, a delay c	of not more than 30	seconds	
64.10		shall be permitted.				
64.11	Do	ors that have been equipped	ed with delayed egr	ess locks shall also	comply	
64.12	wit	th items 1 to 3 below.				
64.13		1. A sign shall be provid	ed on the door loca	ted above and with	in 12 inches	
64.14		(305 mm) of the release device reading: PUSH UNTIL ALARM SOUNDS.				
64.15		DOOR CAN BE OPENH	ED IN 15 SECONE	DS.		
64.16		2. Emergency lighting sh	hall be provided at	the door.		
64.17		3. Delayed egress locks	shall be maintained	and tested in accor	dance with	
64.18		this code.				
64.19	Subp. 2	a. IFC section 1008.1.9.1	<b>1.</b> IFC section 100	8.1.9.11 is amended	l to read:	
64.20	10	08.1.9.11 Stairway doors.	Interior stairway n	neans of egress doo	rs shall be	
64.21	ope	enable from both sides with	hout the use of a ke	y or special knowle	dge or effort.	
64.22		Exceptions:				
64.23		1. Stairway discharg	ge doors shall be op	enable from the egr	ress side and	
64.24		shall only be locked	from the opposite	side.		
64.25		2. This section shall	l not apply to doors	arranged in accord	lance with	
64.26		Section 403.5.3 of the	he International Bu	ilding Code.		

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65.1		3. In stairways servin	g not more than four	stories, doors are pe	ermitted
65.2		to be locked from the	side opposite the egre	ess side. The exit d	loor is
65.3		permitted to be locked	d but shall be openabl	e from the egress si	de.
65.4		4. Stairway exit door	s shall be openable fr	om the egress side	and
65.5		shall only be locked f	rom the opposite side	in Group B, F, M,	and S
65.6	occupancies where the only interior access to the tenant space is from a				
65.7	single exit stair where permitted in Section 1021.2.				
65.8	5. Stairway exit doors shall be openable from the egress side and shall				
65.9	only be locked from the opposite side in Group R-2 occupancies where				
65.10		the only interior access	ss to the dwelling unit	is from a single ex	tit stair
65.11		where permitted in Se	ection 1021.2.		
65.12	Subp. 3. IF	C section 1008.1. IFC	section 1008.1 is ame	nded by adding sec	tions to
65.13	read:				
65.14	1008.1.11 S	pecial detention arran	gements. Special dete	ention arrangements	s meeting
65.15	the requiren	nents of Sections 1008.1	.11 through 1008.1.1	1.4 are permitted fo	or rooms,
65.16	other than c	ells, where the occupan	ts are being restrained	1 for safety or secu	rity
65.17	reasons. The	e use of Sections 1008.1	1.11 through 1008.1.1	1.4 may be revoked	l by the
65.18	fire chief or	fire code official for du	e cause.		
65.19	1008.1.	11.1 Locking hardwar	e. Locking devices sh	all release upon an	y of the
65.20	followi	ng conditions:			
65.21	1.	Activation of the autom	atic sprinkler system.		
65.22	2.	Activation of any auton	natic fire detection de	vice.	
65.23	3.	Activation of an automa	atic fire alarm system.		
65.24	4.	Loss of electrical power	to the locking device	or the fire alarm sy	ystem.
65.25	5.	Activation of the fire al	arm trouble signal.		
65.26	6.	Operation of a manual s	switch located in an ap	pproved location.	

All locking devices shall be designed to fail in the open position. Following the
release of the locking devices for any of the conditions specified in Items 1 through 6,
relocking the devices shall be by manual means only at the door.

- 66.4 1008.1.11.2 Fire-extinguishing system. When special locking arrangements are
  66.5 used, the room or area being secured must be protected with quick-response
  66.6 sprinklers.
- 66.7**1008.1.11.3 Fire alarm and detection.** When special locking arrangements66.8are used, the room or area and spaces between the room or area and an outside66.9exit door shall be protected with automatic smoke detection connected to the66.10building's fire alarm system. If the walls of the room or area do not extend to66.11the ceiling, automatic smoke detection can be provided in the adjacent room66.12or area, provided that there are no substantial obstructions to delay activation66.13of the smoke detection.
- 66.14 **1008.1.11.4 Door swing.** Doors separating detention rooms from other spaces
  66.15 must swing in the direction of egress travel from the detention room.

66.16

7511.1009 SECTION 1009, STAIRWAYS.

66.17 Subpart 1. IFC section 1009.13.

66.18 IFC section 1009.13 is amended to read:

66.19**1009.13 Alternating tread devices.** Alternating tread devices are limited to an element66.20of a means of egress in buildings of Groups F, H, and S from a mezzanine not more66.21than 250 square feet  $(23 \text{ m}^2)$  in area and which serves not more than five occupants; in66.22buildings of Groups I-3 from a guard tower, observation station, or control room not66.23more than 250 square feet  $(23 \text{ m}^2)$  in area and for access to unoccupied roofs. Access to66.24mechanical equipment or appliances on a roof shall be in accordance with IBC section66.251209.3.1 and the Minnesota Mechanical Code.

(IFC sections 1009.13.1, 1009.13.2, and the exception still apply.)

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67.1	Subp. 2. IFC section 1009.14. IF	°C section 1009.14	is amended to read:			
67.2	1009.14 Ships ladders. Ships ladders constructed in accordance with Minnesota Rules,					
67.3	part 1305.1209, shall be permitted to b	part 1305.1209, shall be permitted to be used as a means of egress component at the				
67.4	following locations:					
67.5	1. Ships ladders are permitted to be used in Group I-3 occupancies for means of					
67.6	egress at control rooms or elevated facility observation stations not more than 250					
67.7	square feet $(23 \text{ m}^2)$ in floor area.					
67.8	2. Ships ladders are permitted to be used as a component for means of egress at					
67.9	recessed or elevated floors or platforms when the area served has an occupant load of					
67.10	five or fewer, and the space meets all of the following criteria:					
67.11	2.1 Access to the area served is limited to building facilities staff, maintenance					
67.12	staff, employees, or other authorized personnel;					
67.13	2.2 Required access to the area served is limited and periodic;					
67.14	2.3 The area served is used for building maintenance service functions, or for					
67.15	equipment access or monitoring;					
67.16	2.4 The area served is not required to have a second means of egress by other					
67.17	provisions of this code; and					
67.18	2.5 The area served is not classified as a Group H occupancy.					
67.19	3. Ships ladders are permitted to be used for access to unoccupied spaces in					
67.20	accordance with Minnesota Rules,	, part 1305.1209.				
67.21	7511.1013 SECTION 1013, GUARD	S.				
67.22	Subpart 1. IFC section 1013.2. I	FC section 1013.2	is amended by addir	ig an		
67.23	exception as follows:					
67.24	Exception:					
67.25	8. In accordance with the Min	nnesota Bleacher S	Safety Act, Minnesota	Statutes,		
67.26	section 326B.112, guards are r	not required on ble	achers 55 inches or le	ss in height.		

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68.1 Subp. 2. IFC section 1013.3. IFC section 1013.3 is amended by modifying
68.2 exception 4 to read as follows:

4. The guard height in assembly seating areas shall be in accordance with section
1028.14 and the Minnesota Bleacher Safety Act, Minnesota Statutes, section
326B.112.

68.6 Subp. 3. IFC section 1013.8. IFC section 1013.8 is amended to read:

1013.8 Window sills. In occupancy groups R-1, R-2, R-3, one- and two-family, 68.7 multiple-family dwellings, and townhouses, where the lowest part of the opening of 68.8 an operable window is located more than 72 inches (1,829 mm) above the finished 68.9 grade or other surface below, the lowest part of the window opening shall be at a 68.10 height not less than 36 inches (914 mm) above the finished floor surface of the room 68.11 in which the window is located. Operable sections of windows shall not permit 68.12 openings that allow passage of a 4-inch-diameter (102 mm) sphere where such 68.13 openings are located within 36 inches (914 mm) of the finished floor. 68.14

68.15 **Exceptions:** 

68.16
1. Operable windows where the lowest part of the opening is located more than
68.17
75 feet (22,860 mm) above the finished grade or other surface below and that are
68.18
68.18
68.19
2. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere

- to pass through the opening when the window is in its largest opened position.
- 68.2168.2268.2268.2268.2268.2268.22
- 4. Windows that are provided with window opening control devices that complywith section 1013.8.1.
- 68.25
  5. Replacement windows for occupancy groups R-1, R-2, R-3, one- and
  68.26
  68.27
  two-family, multifamily dwellings, and townhouses located on or below the
  68.27

03/02/16 REVISOR SS/NB AR4148 1013.8.1 Window opening control devices. Window opening control devices 69.1 shall comply with ASTM F 2090. The window opening control device, after 69.2 operation to release the control device allowing the window to fully open, shall 69.3 not reduce the minimum net clear opening area of the window unit to less than 69.4 the area required by section 1029.2. 69.5 7511.1014 SECTION 1014, EXIT ACCESS. [RENUMBERED TO PART 7511.1017] 69.6 7511.1015 SECTION 1015, EXIT AND EXIT ACCESS DOORWAYS. 69.7 IFC section 1015.1 is amended to read: 69.8 1015.1 Exit or exit access doorways required from spaces. Two exits or exit access 69.9 doorways from any space shall be provided where one of the following conditions exists: 69.10 69.11 1. The occupant load of the space exceeds the values in Table 1015.1. **Exceptions:** 69.12 a. In Groups R-2 and R-3 occupancies, one means of egress is permitted 69.13 within and from individual dwelling units with a maximum occupant load of 69.14 20 if the dwelling unit is equipped throughout with an automatic sprinkler 69.15 system in accordance with Section 903.3.1.1 or 903.3.1.2. 69.16 b. Care suites in Group I-2 occupancies complying with section 407.4.3 of 69.17 chapter 1305, the Minnesota Building Code. 69.18 2. The common path of egress travel exceeds the limitations of Section 1014.3. 69.19 3. Where required by Sections 1015.3, 1015.4, 1015.5, and 1015.6. 69.20 4. When located in buildings used for educational purposes, laboratories and prep 69.21 rooms that exceed 500 square feet in area and contain hazardous materials. 69.22 Where a building contains mixed occupancies, each individual occupancy shall comply 69.23 with the applicable requirements for that occupancy. Where applicable, cumulative 69.24 occupant loads from adjacent occupancies shall be considered in accordance with the 69.25 provisions of Section 1004.1. 69.26

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## 70.1 **7511.1017 SECTION 1017, AISLES. [RENUMBERED FROM PART 7511.1014]**

IFC section 1017 and all subsections are deleted and replaced with the following: **1017.1 Aisles and aisle accessways.** Aisles and aisle accessways serving as a portion
of the exit access in the means of egress system shall comply with the requirements of
this section. Aisles and aisle accessways shall be provided from all occupied portions of
the exit access. Aisles and aisle accessways serving assembly areas, other than seating at
tables, shall comply with Section 1028. Aisles and aisle accessways serving reviewing
stands, grandstands, and bleachers shall comply with Section 1028.

1017.2 Width determination. Where tables or counters are served by fixed seats, the 70.9 width of the aisle or aisle accessway shall be measured from the back of the seat. Where 70.10 seating is located at a table or counter and is adjacent to an aisle or aisle accessway, the 70.11 measurement of required clear width of the aisle or aisle accessway shall be made to a 70.12 line 19 inches (483 mm) away from and parallel to the edge of the table or counter. The 70.13 19-inch (483 mm) distance shall be measured perpendicular to the side of the table or 70.14 70.15 counter. In the case of other side boundaries for aisle or aisle accessways, the clear width shall be measured to walls, tread edges, or other obstructions. The required width of aisles 70.16 and aisle accessways shall be unobstructed. 70.17

Exception: Doors, when fully opened, and handrails shall not reduce the required
width by more than 7 inches (178 mm). Doors in any position shall not reduce the
required width by more than one-half. Other nonstructural projections such as trim
and similar decorative features are permitted to project into the required width 1.5
inches (38 mm) from each side.

1017.2.1 Minimum aisle accessway width. Aisle accessways shall provide a
minimum 12 inches (305 mm) of width plus 0.5 inch (12.7 mm) of width for each
additional 1 foot (305 mm), or fraction thereof, beyond 12 feet (3, 658 mm) of aisle
accessway length.

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71.1	Exception: Portions of an aisle accessway having a length not exceeding 6 feet					
71.2	and used by a total of not more than four persons.					
71.3	1017.2.2 Minimum aisle width. The minimum clear width shall be determined by					
71.4	Section 1005.1 for the occupant load served, but shall not be less than 36 inches					
71.5	(914 mm).	(914 mm).				
71.6	Exception: Nonpublic aisles serving fewer than 50 people need not exceed					
71.7	28 inches (711 mm) in width.					
71.8	1017.3 Length.					
71.9	1017.3.1 Aisle accessway. The length of travel along the aisle accessway shall not					
71.10	exceed 30 feet (9, 144 mm) to an aisle or exit access doorway.					
71.11	1017.3.2 Aisle. The length of travel along an aisle or combination aisle accessway					
71.12	and aisle to a point where a person has a choice of two or more paths of egress travel					
71.13	to separate exits or exit access doorways shall not exceed that permitted by Section					
71.14	1014.3 for common path of egress travel.					
71.15	7511.1018 SECTION 1018, CORRIDORS.					
71.16	Subpart 1. IFC Table 1018.1. IFC Table 1018.1 is amended as follows:					
71.17	<b>TABLE 1018.1</b>					
71.18	<b>CORRIDOR FIRE-RESISTANCE RATING</b>					
71.19 71.20			REQUIRED FIRE-RE (how		RATING	
71.21		OCCUPANT		XX.7.	(1	
71.22 71.23	OCCUPANCY	LOAD SERVED BY CORRIDOR	Without sprinkler sys		th sprinkler system <sup>c</sup>	
71.24	H-1, H-2, H-3	All	Not permitted		1	
71.25	H-4, H-5	Greater than 30	Not permitted		1	
71.26	A, B, E, F, M, S		1		0	
71.27 71.28	U R	Greater than 30 Greater than 10	1		0 0.5	
/1.28	IX.		1		0.5	

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72.1	I-2 <sup>a</sup> , I-4	All	Not permitt	ed	0		
72.2	I-1, I-3	All	Not permitt		1 <sup>b</sup>		
72.3	a. For requirements for occupancies in Group I-2, see IBC sections 407.2 and 407.3.						
72.4	-	uction in the fire-resistanc	-				
72.5		section 408.8.					
72.6	c. Buildings	c. Buildings equipped throughout with an automatic sprinkler system in accordance with					
72.7	section 903.3.1.1 or 903.3.1.2, where allowed.						
72.8	Subp. 2. IFC section 1018.6. IFC section 1018.6 is amended by modifying the						
72.9	exceptions to read as follows:						
72.10	Exceptions:						
72.11	1. Foyers, lobbies, or reception rooms constructed as required for corridors shall						
72.12	not be construed as intervening rooms if the aggregate area of these spaces does						
72.13	not exceed 1,000 square feet per floor.						
72.14	2. Foyers, lobbies, or reception rooms that are more than 1,000 square feet per						
72.15	floor in aggregate area and other rooms or spaces that are constructed as required						
72.16	for corridors shall not be construed as intervening rooms when the rooms or						
72.17	spaces meet the following:						
72.18		(a) The spaces are not oc	ccupied as dwelling u	inits, sleeping uni	ts, incidental		
72.19		uses or hazardous uses.					
72.20		(b) The rooms, spaces, o	or corridors are protect	cted by an automa	atic smoke		
72.21		detection system that ini	tiates alarm notificat	ion devices in all	normally		
72.22		occupied rooms or space	es that use the corrido	or for a means of e	egress.		
72.23		(c) The room or space is	arranged so that it d	oes not obstruct a	ccess to the		
72.24		required exits.					
72.25		(d) Group R occupancies	s shall be provided w	with an automatic	sprinkler		
72.26		system throughout to all	ow the use of except	ion #2.			

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#### 73.1 7511.1022 SECTION 1022, INTERIOR EXIT STAIRWAYS AND RAMPS.

73.2 IFC section 1022.5 is amended to read as follows:

**1022.5 Penetrations.** Penetrations into and openings through interior exit stairways and 73.3 ramps are prohibited except for required exit doors, equipment, and ductwork necessary 73.4 for independent ventilation or pressurization, sprinkler piping, standpipes, electrical 73.5 raceway for fire department communications systems, and electrical raceway serving the 73.6 interior exit stairway or ramp and terminating at a steel box not exceeding 16 square 73.7 inches (0.010 m<sup>2</sup>). Such penetrations shall be protected in accordance with Section 714 73.8 of the International Building Code. There shall be no penetrations or communicating 73.9 openings, whether protected or not, between any other interior exit stairways and ramps. 73.10 (The exception is deleted.) 73.11

### 73.12 **7511.1023 SECTION 1023, EXIT PASSAGEWAYS.**

73.13 IFC section 1023.6 is amended to read as follows:

**1023.6 Penetrations.** Penetrations into and openings through an exit passageway 73.14 are prohibited except for required exit doors, equipment, and ductwork necessary for 73.15 independent pressurization, sprinkler piping, standpipes, electrical raceway for fire 73.16 department communication systems, and electrical raceway serving the exit passageway 73.17 and terminating at a steel box not exceeding 16 square inches  $(0.010 \text{ m}^2)$ . Such 73.18 penetrations shall be protected in accordance with section 714 or the International 73.19 Building Code. There shall be no penetrations or communicating openings, whether 73.20 protected or not, between any other exit passageway. 73.21

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#### 7511.1025 SECTION 1025, ASSEMBLY. [RENUMBERED TO PART 7511.1028, 74.1 AS SUBPARTS 2, 3, AND 4] 74.2 7511.1028 SECTION 1028, MAINTENANCE OF THE MEANS OF EGRESS. 74.3 74.4 [RENUMBERED TO PART 7511.1030] 7511.1028 SECTION 1028, ASSEMBLY. [SUBPARTS 2, 3, AND 4 MOVED FROM 74.5 PART 7511.1025] 74.6 Subpart 1. IFC section 1028.1.1. IFC section 1028.1.1 is amended to read as follows: 74.7 **1028.1.1 Bleachers.** Bleachers, grandstands, and folding and telescopic seating, that 74.8 are not building elements, shall comply with International Code Council (ICC) 300, 74.9 with the following amendments to ICC 300: 74.10 a. ICC 300 section 404.5 is amended by adding an exception as follows: 74.11 **Exception:** Aisles shall not be required to be more than 66 inches (1,676) 74.12 mm) in width when the following are satisfied: 74.13 74.14 1. the seating area served by such aisles is composed entirely of bleachers; 2. the row-to-row dimension is 28 inches (71 cm) or less; and 74.15 3. front egress is not limited. 74.16 b. ICC 300 section 405.1 is amended to read as follows: 74.17 **405.1** Aisles. The minimum width of aisles shall be in accordance with section 404.5, 74.18 but not less than that required by this section. An aisle is not required in seating facilities 74.19 where all of the following conditions exist: 74.20 1. Seats are without backrest. 74.21 2. The rise from row to row does not exceed 6 inches (152 mm) per row. 74.22 Exception: Bleachers 55 inches or less in height. 74.23 3. The row-to-row spacing does not exceed 28 inches (711 mm) unless the seat 74.24 boards and footboards are at the same elevation. 74.25 4. The number of rows does not exceed 16 rows in height. 74.26

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75.1	5. The first	seat board is not more than 12 inches	s (305 mm) above t	he ground	
75.2	floor or a cr	oss aisle.			
75.3	Except	on: Bleachers 55 inches or less in h	neight.		
75.4	6. Seat boar	ds have a continuous flat surface.			
75.5	7. Seat boar	ds provide a walking surface with a	minimum width of	11 inches	
75.6	(279 mm).				
75.7	8. Egress fr	om seating is not restricted by rails, g	guards, or other obs	tructions.	
75.8	c. ICC	300 section 405.6 is amended by add	ling an exception as	s follows:	
75.9	3.	Aisles serving bleachers in complian	nce with section 404	1.5.	
75.10	d. ICC 300 section 408.1, item 1, is amended by modifying the exceptions				
75.11	to read as follows:				
75.12	Ex	ceptions:			
75.13	1. Tiered seating that is located adjacent to a wall and the space between				
75.14	the wall and the tiered seating is less than 4 inches (102 mm) is not				
75.15	required to have a guard.				
75.16	2.	In accordance with the Minnesota B	leacher Safety Act,	Minnesota	
75.17	Sta	tutes, section 326B.112:			
75.18		(a) bleachers must have vertical per	rimeter guards or ot	her approved	
75.19		guards that address climbability ar	nd are designed to p	prevent	
75.20		accidents; and			
75.21		(b) guards are not required on blea	achers 55 inches (1,	397 mm)	
75.22		and less in height.			
75.23	e. ICC	300 section 408.3 is amended to read	d as follows:		
75.24	408.3 Guard design	Guards and their attachment shall b	be designed to resist	the loads	
75.25	indicated in section 3	03. Bleachers must have vertical per	rimeter guards or oth	her approved	
75.26	guards that address c	imbability and are designed to preve	ent accidents, in acc	ordance with	
75.27	the Minnesota Bleach	er Safety Act, Minnesota Statutes, s	ection 326B.112.		

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76.1	f. ICC 300 chapter 5 is de	leted and replaced wit	h the following:			
76.2	All bleachers or bleacher open spaces over 55 inches (1,397 mm) above grade or the					
76.3	floor below, and all bleacher guardrails,	if any part of the gua	rdrail is over 30 ind	ches		
76.4	(762 mm) above grade or the floor below	w, must be certified to	conform with the	safety		
76.5	requirements contained in Minnesota St	atutes, section 326B.1	12.			
76.6	(IFC Section 1028.1.1.1 still applie	s.)				
76.7	Subp. 2. IFC section 1028.6.4. IF	C section 1028.6 is an	nended by adding a	section		
76.8	to read:					
76.9	1028.6.4 Width of means of egres	s for bleacher facilit	es. Aisles for blead	chers		
76.10	shall not be required to be more that	in 66 inches (167 cm)	in width when calc	ulated		
76.11	in accordance with Section 1028.6.	1 or 1028.6.3 when th	e following conditi	ons are		
76.12	satisfied:					
76.13	1. The seating area served by s	such aisles is compose	d entirely of bleach	ers;		
76.14	2. The row-to-row dimension is 28 inches (71 cm) or less; and					
76.15	3. Front egress is not limited.					
76.16	Subp. 3. IFC section 1028.9.5. IF	C section 1028.9.5 is	amended by adding	g an		
76.17	exception to read:					
76.18	5. Aisles serving bleachers in o	compliance with Secti	on 1028.6.4.			
76.19	Subp. 4. IFC section 1028.14. IFC	C section 1028.14 is an	mended to read:			
76.20	1028.14 Assembly guards. Assembly g	guards shall comply w	vith Sections 1028.1	4.1		
76.21	through 1028.14.3.					
76.22	Exception: In accordance with the	Minnesota Bleacher	Safety Act, Minnes	ota		
76.23	Statutes, section 326B.112:					
76.24	1. Guards are not required on bleac	hers 55 inches and les	s in height; and			
76.25	2. Bleachers must have vertical per	rimeter guards or othe	r approved guards	that		
76.26	address climbability and are design	ed to prevent accident	S.			

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#### 77.1

7511.1029 SECTION 1029, EMERGENCY ESCAPE AND RESCUE.

Subpart 1. IFC section 1029.1. IFC section 1029.1 is amended to read as follows: 77.2 **1029.1 General.** In addition to the means of egress required by this chapter, provisions 77.3 shall be made for emergency escape and rescue openings in Group R occupancies. 77.4 Basements and sleeping rooms below the fourth story above grade plane shall have at least 77.5 one exterior emergency escape and rescue opening in accordance with this section. Where 77.6 basements contain one or more sleeping rooms, emergency egress and rescue openings 77.7 shall be required in each sleeping room, but shall not be required in adjoining areas of 77.8 the basement. Such opening shall open directly into a public way, public alley, or to a 77.9 yard or court that opens to a public way. 77.10

#### **Exceptions:** 77.11

1. In other than Group R-2 occupancies in accordance with Table 1021.2(1), 77.12

77.13 Stories with One Exit or Access to One Exit for R-2 Occupancies, and Table

1021.2(2), Stories with One Exit or Access to One Exit for Other Occupancies, 77.14

and Group R-3 occupancies as applicable in Section 101.2, buildings equipped 77.15 throughout with an approved automatic sprinkler system in accordance with 77.16

Section 903.3.1.1 or 903.3.1.2. 77.17

2. In other than Group R-3 occupancies as applicable in Section 101.2, sleeping 77.18 rooms provided with a door to a fire-resistance-rated corridor having access to 77.19 two remote exits in opposite directions. 77.20

3. The emergency escape and rescue opening is permitted to open onto a balcony 77.21 within an atrium in accordance with the requirements of IBC Section 404, 77.22

- provided the balcony provides access to an exit and the dwelling unit or sleeping 77.23
- unit has a means of egress that is not open to the atrium. 77.24
- 4. High-rise buildings in accordance with IBC Section 403. 77.25

03/02/16 REVISOR SS/NB AR4148 5. Emergency escape and rescue openings are not required from basements or 78.1 sleeping rooms which have an exit door or exit access door that opens directly into 78.2 a public way, or to a yard, court, or exterior exit balcony that opens to a public way. 78.3 6. Basements without habitable spaces and having no more than 200 square feet 78.4  $(18.6 \text{ m}^2)$  in area shall not be required to have emergency escape windows. 78.5 7. Basements or basement bedrooms in Group R-3 occupancies when the 78.6 building is protected by an automatic sprinkler system installed in accordance 78.7 with section 903.3. 78.8 8. Basements in Group R-3 occupancies used only to house mechanical 78.9 equipment and not exceeding total floor area of 200 square feet ( $18.58 \text{ m}^2$ ). 78.10 9. Basements or basement bedrooms in Group R-3 occupancies that comply 78.11 with all of the following conditions: 78.12 a. constructed prior to August 1, 2008; 78.13 b. undergoing an alteration or repair; 78.14 78.15 c. the entire basement area, when all portions of the means of egress to the level of exit discharge, and all areas on the level of exit discharge that are 78.16 open to the means of egress, is protected with an automatic sprinkler system 78.17 in accordance with section 903.3. 78.18 Subp. 2. IFC section 1029.4. IFC section 1029.4 is amended to read as follows: 78.19 **1029.4 Operational constraints.** Emergency escape and rescue openings shall be 78.20 operational from the inside of the room without the use of keys or tools. Bars, grilles, 78.21 grates, or similar devices are permitted to be placed over emergency escape and rescue 78.22 openings provided the minimum net clear opening size complies with section 1029.2 78.23 and such devices shall be releasable or removable from the inside without the use of a 78.24 key, tool, or force greater than that which is required for normal operation of the escape 78.25

and rescue opening. Where such bars, grilles, grates, or similar devices are installed in

existing buildings, smoke alarms shall be installed in accordance with section 907.2.11 79.1 regardless of the valuation of the alteration. 79.2 **Exception:** Window opening control devices approved and installed in accordance 79.3 with ASTM F 2090 that do not require the use of keys or tools to operate. 79.4 Subp. 3. IFC section 1029.6. IFC section 1029 is amended by adding the following 79.5 subsection to read as follows: 79.6 **1029.6 Replacement windows.** Replacement windows installed in buildings regulated by 79.7 the International Building Code shall be exempt from the minimum size and maximum sill 79.8 height requirements of Sections 1029.2, 1029.2.1, and 1029.3, if the replacement window 79.9 is the manufacturer's largest standard size window that will fit within the existing frame 79.10 or existing rough opening. The replacement window shall be the same operating style 79.11 as the existing window or a style that provides for an equal or greater window opening 79.12 79.13 area than the existing window. 1029.6.1 Licensed facilities. Windows in rooms used for foster care or day care 79.14 licensed or registered by the state of Minnesota shall comply with the provisions of 79.15 Section 1029.6 or all of the following conditions, whichever is more restrictive: 79.16 (a) Minimum of 20 inches in clear opening width 79.17 (b) Minimum of 20 inches in clear opening height 79.18 (c) Minimum of 648 square inches (4.5 square feet) clear opening 79.19 (d) Maximum of 48 inches from the floor to the sill height. 79.20 7511.1030 SECTION 1030, MAINTENANCE OF THE MEANS OF EGRESS. 79.21 [MOVED FROM PART 7511.1028] 79.22 Subpart 1. IFC section 1030.2. IFC section 1030.2 is amended to read: 79.23 1030.2 Reliability. Required exit accesses, exits or exit discharges shall be continuously 79.24 maintained free from obstructions or impediments to full instant use in the case of fire or 79.25 79.26 other emergency. Security devices affecting means of egress shall be subject to approval of the fire code official. 79.27

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1030.2.1 Security devices and egress locks. Security devices affecting means
of egress shall be subject to approval of the fire code official. Special locking
arrangements including access-controlled egress doors, security grills, locks and
latches, electromagnetically locked egress doors, and delayed egress locks shall
be installed and maintained as required by this chapter part or IFC Chapter 11,
as amended.

- 1030.2.2 Inspection and testing. Special locking arrangements, including
   access-controlled egress doors, delayed egress locks, and electromagnetically locked
   egress doors shall be tested as follows:
- 1. The primary release functions shall be tested monthly for operability.
- 80.112. Fire alarm and sprinkler system interconnects and other failsafe release80.12functions shall be tested at least annually for operability.
- 3. Testing shall be done by individuals who can demonstrate knowledge and
  understanding of the operating components of the door being tested.
- 80.154. Deficiencies shall be corrected without delay. Written records of inspection80.16and testing shall be kept and available to the fire code official.
- 80.17 Subp. 2. IFC section 1030.3. IFC section 1030.3 is amended to read:

1030.3 Obstructions. A means of egress shall be free from obstructions that would
prevent its use, including the accumulation of snow and ice. Means of egress shall remain
free of any material or matter where its presence would obstruct or render the means of
egress hazardous. No combustible storage is allowed in corridors or exit stairs.

Subp. 3. IFC section 1030.7. IFC section 1030.7 is amended to read:
1030.7 Emergency escape openings. Required emergency escape openings shall be
maintained in accordance with the following: required emergency escape and rescue
openings shall be operational from the inside of the room without the use of keys or tools.
Bars, grilles, grates or similar devices are allowed to be placed over emergency escape and
rescue openings provided the minimum net clear opening size complies with this code

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81.1	and such devices shall be releasabl	e or removable from th	e inside without the	e use of a
81.2	key, tool or force greater than that	which is required for n	ormal operation of	the escape
81.3	and rescue opening.			
81.4	<b>Exception:</b> Window fall prote	ection required by the b	uilding code.	
81.5	7511.1101 SECTION 1101, GEN	ERAL.		
81.6	IFC section 1101 is amended a	and sections added to re	ead:	
81.7	<b>1101.1 Scope.</b> The provisions of I	FC Chapter 11, as ame	nded, shall apply to	existing
81.8	buildings constructed prior to the a	doption of this code.		
81.9	1101.2 Intent. The intent of IFC C	hapter 11, as amended,	is to provide a min	imum degree
81.10	of fire and life safety to persons oc	cupying existing build	ings by providing m	ninimum
81.11	construction requirements.			
81.12	1101.3 Permits. Permits shall be re-	equired as set forth in S	Sections 105.6 and 1	105.7.
81.13	1101.4 Owner notification. When	a building is found to	be in noncomplianc	e with IFC
81.14	Chapter 11, as amended, the code	official shall duly notif	y the owner of the b	ouilding.
81.15	Upon receipt of such notice, the ov	wner shall, subject to th	e following time lin	mits, take
81.16	necessary actions to comply with t	he provisions of this ch	apter.	
81.17	1101.4.1 Construction docum	nents. Construction do	cuments necessary	to comply
81.18	with IFC Chapter 11, as amen	ded, shall be completed	and submitted wit	hin a time
81.19	schedule approved by the code	e official.		
81.20	1101.4.2 Completion of work	. Work necessary to co	omply with IFC Cha	apter 11, as
81.21	amended, shall be completed w	within a time schedule a	approved by the cod	le official.
81.22	1101.4.3 Extension of time.	The code official is aut	horized to grant nec	cessary
81.23	extensions of time when it can	n be shown that the spe	cified time periods	are not
81.24	physically practical or pose an	undue hardship. The g	granting of an exten	sion of time
81.25	for compliance shall be based	on the showing of good	d cause and subject	to the filing
81.26	of an acceptable systematic pl	an of correction with th	e code official.	

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82.1	1101.5 Compliance option. Existing	buildings that meet	t the requirements of N	NFPA 101
82.2	(Life Safety Code) or chapter 1309, th	e Minnesota Resid	ential Code, or chapte	r 1305, the
82.3	Minnesota Building Code, when appli	cable, shall be deer	med as evidence of co	mpliance
82.4	with IFC Chapter 11, as amended.			
82.5	1101.6 Previous codes. Protection fea	atures in existing b	ouildings that comply	with
82.6	previous editions of the Fire Code or E	Building Code shall	be considered as com	plying with
82.7	IFC Chapter 11, as amended, if, in the	opinion of the fire	code official, such co	onditions
82.8	do not constitute a distinct hazard to l	ife unless the fire c	code official issues a w	vritten
82.9	determination listing the conditions th	at constitute a disti	nct hazard to life.	
82.10 82.11	7511.1103 SECTION 1103, FIRE SA BUILDINGS.	AFETY REQUIR	EMENTS FOR EXIS	STING
82.12	Subpart 1. IFC section 1103.1. I	FC section 1103.1	is amended to read:	
82.13	1103.1 Required construction. Exist	ing buildings shall	comply with the mini	imum
82.14	provisions specified in Sections 1103.2	2 through 1106.3.2	.1.	
82.15	Table 1103.1 is deleted.			
82.16	Subp. 2. IFC section 1103.2. IF	C section 1103.2 is	deleted.	
82.17	Subp. 3. IFC section 1103.3. IF	C section 1103.3 is	deleted.	
82.18	Subp. 4. IFC section 1103.4. IFC	C section 1103.4 is	amended and sections	s added to
82.19	read:			
82.20	1103.4 Vertical openings. Interior ver	tical shafts, includi	ing stairways, elevator	hoistways,
82.21	and service and utility shafts, that con	nect two or more s	tories of a building, sl	hall be
82.22	enclosed or protected as specified in S	ection 1103.4.1 and	d Table 1103.4.	
82.23	1103.4.1 Fire-resistive-rated cor	struction. Where	one-hour fire-resistive	e rated
82.24	construction is required by IFC C	hapter 11, as amen	ded, it includes equiva	lent ratings
82.25	for openings in that construction.	When openings a	re required to be prote	ected,
82.26	opening protectives shall be main	tained self-closing	or automatic-closing l	by smoke

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detection. Exis	sting fusible-link-type automatic door-closi	ng devices are permitted	lif
the fusible link	x rating does not exceed 135° F (57° C).		
	<b>TABLE 1103.4</b>		
VI	ERTICAL OPENING PROTECTION R	EQUIRED	
OCCUPANCY CLASSIFI- CATION	CONDITIONS	PROTECTION REQUIRED	
Group I	Vertical openings connecting two or more stories	1-hour protection	
All, other than Group I	Vertical openings connecting two stories	No protection required <sup>a,</sup>	,b
All, other than Group I	Vertical openings connecting three to five stories	1-hour protection or automatic sprinklers throughout <sup>a,b</sup>	
All, other than Group I	Vertical openings connecting more than five stories	1-hour protection <sup>a,b</sup>	
All	Mezzanines open to the floor below	No protection required <sup>a,</sup>	,b
All, other than Group I	Atriums and covered mall buildings	1-hour protection or automatic sprinklers throughout	
All, other than Groups B and M	Escalator openings connecting four or less stories in a sprinklered building. Openings must be protected by a draft curtain and closely spaced sprinklers in accordance with NFPA 13.	No protection required	
Group B and M	Escalator openings in a sprinklered building protected by a draft curtain and closely spaced sprinklers in accordance with NFPA 13.	No protection required	

<sup>a</sup> Vertical opening protection is not required for Group R-3 occupancies.

<sup>b</sup> Vertical opening protection is not required for open parking garages and ramps.

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84.1	Subp. 5. IFC section 1103. IFC s	subsections 1103.4	4.2, 1103.4.3, 1103.4.	.4, 1103.4.5,
84.2	1103.4.6, and 1103.4.7 are deleted.			
84.3	Subp. 6. IFC section 1103.5. IF	C section 1103.5	is amended by adding	g new
84.4	subsections to read:			
84.5	1103.5.3 Basement access or spri	nkler protection	. An approved autom	atic sprinkler
84.6	system shall be provided in the fo	llowing occupanc	ies located in baseme	ents when
84.7	such areas exceed 2,500 square fee	et $(232.3 \text{ m}^2)$ in si	ize and do not have 2	0 square feet
84.8	$(1.86 \text{ m}^2)$ of opening entirely above	ve the adjoining g	round level in each 5	0 lineal feet
84.9	(15,240 mm) or fraction thereof of	f exterior wall on	at least one side of th	e building:
84.10	1. Group A occupancies used	as commercial du	rinking and dining est	tablishments.
84.11	2. Group A occupancies used	l as bowling alley	S.	
84.12	3. Group E occupancies used	for student occup	pancy.	
84.13	4. Group I occupancies.			
84.14	5. Group R-1 and R-2 occupation	ncies having dwe	lling units or guest ro	ooms.
84.15	Openings required by this section	shall have a mini	mum dimension of 3	0 inches
84.16	(762 mm).			
84.17	If any portion of the basement is l	ocated more than	75 feet (22.86 m) fro	m required
84.18	openings, the basement shall be p	rovided with an a	pproved automatic sp	orinkler
84.19	system throughout.			
84.20	1103.5.4 Existing rubbish and lin	nen chutes. Exist	ing rubbish and linen	chutes that
84.21	connect three or more stories shall	be protected with	h automatic sprinkler	s installed
84.22	and maintained in conformance w	ith Section 903.2.	.11.2.	
84.23	Subp. 7. IFC section 1103.7. IFC	C section 1103.7 i	s deleted and replace	d with the
84.24	following:			
84.25	1103.7 Fire alarm systems. An appro-	ved fire alarm sys	tem shall be installed	l in existing
84.26	buildings and structures in accordance	with Sections 110	)3.7.1 through 1103.7	'.7.

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03/02/16 REVISOR SS/NB AR4148 In buildings containing mixed occupancies that are designed as separated uses 85.1 (see Section 102.11), fire alarm and detection systems need only be installed in those 85.2 occupancies where required by this section. 85.3 In areas protected by an approved, supervised automatic sprinkler system installed 85.4 in accordance with Section 903.3.1.1 or 903.3.1.2, automatic fire detectors required by 85.5 Section 1103.7 need not be provided. Where Section 1103.7 requires smoke detectors, 85.6 such protection shall be installed. 85.7 1103.7.1 Group A, general. A fire alarm system shall be installed in accordance with 85.8 Sections 1103.7.1 through 1103.7.1.3.1 in existing Group A occupancies having an 85.9 occupant load of 300 or more. 85.10 **1103.7.1.1 Exemptions for Group A.** A fire alarm system is not required in 85.11 85.12 Group A occupancies having the following conditions: 1. Assembly areas used solely for worship purposes. 85.13 2. A fire alarm system is not required when an approved automatic 85.14 85.15 fire-sprinkler system is installed throughout the building. 3. Assembly uses located inside Group E occupancies shall have alarms as 85.16 required for the Group E occupancy. 85.17 4. A-5 occupancies. 85.18 **1103.7.1.2 Initiation.** Initiation of the fire alarm system shall be by automatic 85.19 85.20 means. Approved automatic fire detectors shall be installed in laundry rooms, boiler and furnace rooms, mechanical and electrical rooms, shops, kitchens, 85.21 trash-collection rooms, storage rooms, and similar areas. 85.22 **1103.7.1.3** Notification. The required fire alarm system shall activate an audible 85.23 and visible notification appliance at a constantly attended location within the 85.24 building for the purposes of initiating emergency action. A presignal feature 85.25 and positive alarm sequencing in accordance with NFPA 72 are permitted. 85.26

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86.1	Occupant notification shall	be by means of voice	announcements, e	ither live or
86.2	prerecorded, initiated by the	e person in the constant	ntly attended locati	ion.
86.3	1103.7.1.3.1 Exemption	on for voice evacuati	on. Where no con	stantly
86.4	attended location exist	s, an automatic fire ala	arm system providi	ing a general
86.5	evacuation signal or ar	n approved emergency	voice/alarm comm	nunications
86.6	system is permitted.			
86.7	1103.7.2 Group E, general. A	fire alarm system shall	be installed in acc	cordance with
86.8	Sections 1103.7.2 through 1103	.7.2.4 in existing Grou	up E occupancies h	naving an
86.9	occupant load of 50 or more.			
86.10	1103.7.2.1 Exemption for	single classroom. A f	ire alarm system is	not required
86.11	for a building with a maxim	num area of 1,000 squ	are feet $(93 \text{ m}^2)$ th	at contains
86.12	a single classroom and is lo	ocated no closer than 2	20 feet (15,240 mr	n) from
86.13	another building.			
86.14	1103.7.2.2 Initiation. Initiation	ation of the fire alarm	system shall be by	/ manual
86.15	and automatic means. App	roved automatic fire d	etectors shall be pr	rovided in
86.16	laundry rooms, boiler and f	furnace rooms, mecha	nical and electrical	l rooms,
86.17	shops, laboratories, kitchen	ns, locker rooms, custo	dial closets, trash-	collection
86.18	rooms, storage rooms, loun	iges, and similar areas		
86.19	1103.7.2.2.1 Manual a	activation. The requir	ements for manual	fire alarm
86.20	pull boxes can be mod	lified as follows:		
86.21	1. In buildings eq	uipped throughout by	an approved, supe	rvised fire
86.22	sprinkler system, 1	manual fire alarm box	es are only require	d in the main
86.23	office and in a cus	stodial area.		
86.24	2. Where all corrie	dors are protected by a	n approved automa	atic fire alarm
86.25	system having sm	oke detection with ala	rm verification, m	anual fire
86.26	alarm boxes are of	nly required near exits	s serving shops, ch	emistry and

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87.1		physics laboratories	s, boiler rooms, indust	rial technology and	industrial
87.2	arts rooms, kitchens, custodian's offices, and main offices.				
87.3		1103.7.2.3 Travel through a	adjoining rooms. Wh	ere the only means of	of egress
87.4		travel from an interior room	or rooms having an a	ggregate occupant lo	oad of
87.5		more than ten occupants is the	nrough an adjoining o	intervening room, a	automatic
87.6		smoke detectors shall be inst	talled throughout the c	common atmosphere	through
87.7		which the path of egress trav	vel passes.		
87.8		1103.7.2.3.1 Sprinkler	protection. In buildi	ngs that are protecte	ed
87.9		throughout by an appro	ved automatic sprinkl	er system installed i	n
87.10		accordance with Section	n 903.3.1.1, smoke de	tectors are not requir	red in
87.11		intervening or adjoining	g rooms.		
87.12		1103.7.2.4 Notification. Ac	tivation of the fire ala	rm system or autom	atic
87.13	sprinkler system shall initiate a general evacuation signal.				
87.14	1103.7.3 Group I, general. A fire alarm system shall be installed in accordance with				
87.15	Sect	ions 907.2.6 through 907.2.6	.4.2 in existing Group	I occupancies.	
87.16	1103	8.7.4 Group R-1, general. A	fire alarm system sha	Il be installed in acc	ordance
87.17	with	Sections 1103.7.4 through 11	03.7.4.4.1 in existing	Group R-1 occupanc	eies where:
87.18		1. Any sleeping unit or dwe	lling unit is located tw	o or more stories ab	ove the
87.19		story containing the lowest l	evel of exit discharge.		
87.20		2. Any sleeping unit or dwel	lling unit is located me	ore than one story be	elow the
87.21		highest level of exit discharg	ge of exits serving the	dwelling unit.	
87.22		3. The building contains 20	or more guest rooms o	or dwelling units.	
87.23		4. The building is used as a	congregate living fac	ility, dormitory, con-	vent,
87.24		monastery, fraternity, sororit	y, group home, or she	lter and has an occuj	pant load
87.25		of 20 or more.			
87.26		1103.7.4.1 Direct exits to ex	<b>sterior.</b> A fire alarm s	system is not require	ed in
87.27		buildings that do not have in	terior corridors servir	g guest rooms and v	where

88.1	each guest room has an exit door opening directly to an exterior exit account	ess
88.2	that leads directly to the exits.	
88.3	1103.7.4.2 Initiation. Initiation of the fire alarm system shall be by autor	natic
88.4	means. Approved automatic fire detectors shall be provided in boiler and	furnace
88.5	rooms, shops, laundry rooms, mechanical and electrical rooms, trash-coll	ection
88.6	rooms, storage rooms, gift shops, locker rooms, and similar areas. Auton	natic
88.7	smoke detectors shall be provided in all common areas and interior corric	dors
88.8	serving as required means of egress.	
88.9	1103.7.4.2.1 Sprinkler protection. System fire and smoke detectors	are not
88.10	required when an approved automatic fire-extinguishing system is in	stalled
88.11	in accordance with Section 903.3.1.1 or 903.3.1 and a manual fire ala	ırm box
88.12	is provided at a constantly attended location. When a constantly atte	nded
88.13	location is not provided the manual fire alarm box shall be provided	at the
88.14	main exit.	
88.15	1103.7.4.3 Notification. Activation of the fire alarm system or automatic	С
88.16	sprinkler system shall initiate a general evacuation signal.	
88.17	1103.7.4.4 Guest room smoke alarms. Guest room smoke alarms requir	ed by
88.18	Section 1103.8 shall not be connected to a fire alarm system.	
88.19	1103.7.4.4.1 Annunciation allowed. Connection of such alarms for annua	nciation
88.20	is permitted.	
88.21	1103.7.5 Group R-2, general. A fire alarm system shall be installed in accord	lance
88.22	with Sections 1103.7.5 through 1103.7.5.3 in existing Group R-2 occupancies	where:
88.23	1. Any sleeping unit or dwelling unit is located two or more stories abov	e the
88.24	story containing the lowest level of exit discharge;	
88.25	2. Any sleeping unit or dwelling unit is located more than one story below	w the
88.26	highest level of exit discharge of exits serving the dwelling unit;	
88.27	3. The building contains more than 16 sleeping units or dwelling units; or	r

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89.1		4. The building is used as a congregate	living facility	, dormitory, conver	nt,	
89.2		monastery, fraternity, sorority, group ho	me, or shelter	and has an occupat	nt load	
89.3		of 20 or more.				
89.4		1103.7.5.1 Direct exits to exterior. A f	ire alarm syste	em is not required	in	
89.5		buildings that do not have interior corri-	dors serving g	uest rooms and wh	ere	
89.6		each dwelling unit has an exit door open	ning directly to	o an exterior exit a	ccess	
89.7		that leads directly to the exits.				
89.8		1103.7.5.2 Initiation. Initiation of the f	re alarm syste	m shall be by auto	matic	
89.9		means. Approved automatic fire detecto	rs shall be pro	vided in boiler and	furnace	
89.10		rooms, shops, laundry rooms, mechanic	al and electrication	al rooms, trash-col	lection	
89.11		rooms, storage rooms, and similar areas	. Automatic st	moke detectors sha	ıll be	
89.12		provided in all common areas and interi	or corridors se	rving as required r	neans	
89.13		of egress.				
89.14		1103.7.5.2.1 Sprinkler protection. System fire and smoke detectors are not				
89.15		required when an approved automatic fire-extinguishing system is installed				
89.16		throughout the building.				
89.17		1103.7.5.3 Notification. Activation of t	the fire alarm s	system or automati	c	
89.18		sprinkler system shall initiate a general	evacuation sig	nal.		
89.19		1103.7.5.4 Dwelling unit smoke alarm	s. Dwelling ur	nit smoke alarms re	equired	
89.20		by Section 1103.8 shall not be connected	d to the building	ng fire alarm syster	n.	
89.21		1103.7.5.4.1 Annunciation allowe	d. Connection	of such alarms fo	r	
89.22		annunciation is permitted.				
89.23	110	<b>3.7.6 Audible alarms.</b> Audible alarm no	tification appl	iances shall be pro	vided	
89.24	and	l sound a distinctive sound that is not to b	e used for any	purpose other than	that of	
89.25	a fii	re alarm. The audible alarm notification a	ppliances shal	l provide a sound p	pressure	
89.26	leve	el of 15 decibels (dBA) above the average	ambient soun	d level or 5 dBA al	bove the	
89.27	max	ximum sound level having a duration of a	t least 60 seco	nds, whichever is g	greater,	

in every occupied space within the building. The maximum sound pressure level			
for audible alarm notification appliances shall be 110 dBA at the minimum hearing			
distance from	n the audible appliance. Wh	here the average ambient noi	se is greater than
105 dBA, vi	sible alarm notification appl	iances shall be provided in a	accordance with
NFPA 72 an	d audible alarm notification	appliances shall not be requ	ired.
Subp. 8. IF	C section 1103.8. IFC secti	on 1103.8 is amended and se	ections added to
read:			
1103.8 Single- a	nd multiple-station smoke	alarms. Single- and multip	le-station smoke
-	-	1 and R occupancies in acc	
Table 1103.8.	istuniou în onisting Group I		
Table 1105.8.			
	TABLE	E 1103.8	
	SMOKE ALARM	REQUIREMENTS	
Condition:	Location:	Power Supply:	Interconnection Required:
Existing buildings that do not have any smoke alarms	In hallways outside sleeping rooms. In sleeping rooms. On each level of the building and in basements. On ceiling or	If constructed on or after 8/1/1989, smoke alarms are required to be hard-wired (120 volt). If constructed before	No interconnection is required for battery-powered alarms.
(same as new).	wall (less than 12 inches below ceiling). On center of ceiling above stairways.	8/1/1989, smoke alarms can be battery-powered.	

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91.1 91.2 91.3 91.4 91.5	Existing buildings (constructed before 8/1/1989).	In hallways outside sleeping rooms. On each level and in basements. On ceiling or wall (less than 12 inches below ceiling).	Smoke alarms ca battery-powered.	n be	No interconnection is required.
91.6 91.7 91.8 91.9 91.10 91.11 91.12	Replacement of smoke alarms in existing buildings.	Smoke alarms must be installed in same locations as originally installed.	Power supply mu same as the smok being replaced.		Interconnection must be provided if the smoke alarms being replaced were interconnected.
91.13	1103.8.1 Re	placement of smoke alarm	s. Single and mult	iple-statio	on smoke alarms
91.14	shall be repl	laced when:			
91.15	1. They	fail to respond to operabili	ty tests.		
91.16	2. They	v exceed ten years from the	date of manufactur	e.	
91.17	Smoke alarr	Smoke alarms shall be replaced with smoke alarms having the same type of power			
91.18	supply.				
91.19	Subp. 9. IF	C section 1103.9. IFC section	on 1103.9 is delete	ed and rej	placed with the
91.20	following:				
91.21	1103.9 Protectio	on of existing cooking equip	ment. Approved a	utomatic	fire-extinguishing
91.22	systems shall be	provided for the protection	of existing commo	ercial-typ	e cooking
91.23	equipment that p	roduces grease-laden vapors	s in accordance wit	h Sectior	n 904.
91.24	7511.1104 SEC	TION 1104, MEANS OF E	GRESS FOR EX	ISTING	BUILDINGS.
91.25	Subpart 1. 1	IFC section 1104.1. IFC sec	tion 1104.1 is ame	nded and	sections added to
91.26	read:				
91.27	1104.1 General.	Means of egress in existing	buildings shall co	mply wit	h the minimum
91.28	egress requireme	ents when specified in Section	ns 1104.1 through	1104.23.	

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92.1	1104.1.1 Occupant loads. The	number of occupant	s shall be determine	ed in			
92.2	accordance with Section 1004.						
92.3	1104.1.2 Egress width. The mir	nimum required egree	ss width shall be det	termined in			
92.4	accordance with Section 1005.1.						
92.5	1104.1.3 Ceiling height. The ceiling height in corridors shall be not less than 78						
92.6	inches (1,981 mm).						
92.7	1104.1.4 Special exiting provision	ions for younger stu	<b>idents.</b> Rooms in C	droup E			
92.8	occupancies used by preschool,	kindergarten, first- or	r second-grade pupi	ls, latchkey,			
92.9	child care, early childhood famil	y education, teen par	ent, or similar prog	rams shall be			
92.10	located as required by the Build	ing Code.					
92.11	Subp. 2. IFC section 1104.2. II	FC section 1104.2 is	amended to read:				
92.12	1104.2 Elevators, escalators, and me	oving walks. Elevato	ors, escalators, and n	noving walks			
92.13	can only be used as a component of a	required means of eg	gress where previous	sly approved.			
		50 / 1104.2 .	1 1 1	11 17			
92.14	Subp. 3. <b>IFC section 1104.3.</b> If	C section 1104.3 is	amended and sectio	ns added to			
92.15	read:						
92.16	<b>1104.3 Exit signs - general.</b> Exit sig	sns shall comply with	1 Sections 1104.3.1	through			
92.17	1104.3.5.						
92.18	<b>1104.3.1 Where required.</b> Exit		led where two or m	ore exits			
92.19	are required from a room, area,	·					
92.20	<b>1104.3.2 Locations.</b> Exits and ex	xit access doors shall	l be marked by an aj	pproved exit			
92.21	sign readily visible from any dir	ection of egress trave	el.				
92.22	1104.3.3 Main exits. Exit signs	need not be provided	l for main exterior ex	xit doors that			
92.23	are obviously and clearly identif	ìable as exits.					
92.24	1104.3.4 Certain occupancies e	<b>xempt.</b> Exit signs an	e not required in ho	ousing areas			
92.25	of Group I-3 occupancies; in slee	eping rooms or dwel	ling units in Group	R-1, R-2, or			
92.26	R-3 occupancies; and in Group	U occupancies.					

03/02/16 REVISOR SS/NB AR4148 **1104.3.5 Exit sign illumination.** Exit signs shall be internally illuminated, externally 93.1 illuminated, or self-luminous. The face of an exit sign illuminated from an external 93.2 source shall have an intensity of not less than 5 foot-candles (54 lux). Internally 93.3 illuminated signs shall provide equivalent luminance and be listed for the purpose. 93.4 Approved self-luminous signs that provide evenly illuminated letters shall have a 93.5 minimum luminance of 0.06 foot-lamberts ( $0.21 \text{ cd/m}^2$ ). 93.6 Subp. 4. IFC section 1104.5. IFC section 1104.5 is amended and sections added to 93.7 read: 93.8 1104.5 Illumination - general. Normal and emergency illumination of the means of 93.9 egress shall comply with Sections 1104.5.1 through 1104.5.3. 93.10 **1104.5.1 Illumination required.** The means of egress shall be illuminated at all 93.11 times that the building space served by the means of egress is occupied. Natural 93.12 93.13 lighting in the interior rooms or spaces can be used to satisfy this requirement during periods of daylight. 93.14 **1104.5.1.1 Group U occupancies.** Illumination is not required in Group U 93.15 occupancies. 93.16 1104.5.1.2 Aisle accessways. Illumination is not required for aisle accessways. 93.17 1104.5.1.3 Dwelling units and sleeping rooms. Illumination is not required for 93.18 dwelling units and sleeping rooms of Group I, R-1, R-2, and R-3 occupancies. 93.19 1104.5.2 Illumination level. Floors and other walking surfaces within the means of 93.20 egress shall be illuminated according to Sections 1104.5.2.1 and 1104.5.2.2: 93.21 1104.5.2.1 General. The means of egress illumination level shall not be less than 93.22 one foot-candle (11 lux) at the floor level. 93.23 **1104.5.2.2** Assembly performances. In assembly occupancies, the illumination 93.24 of the floors of exit access shall be at least 0.2 foot-candle (2.2 lux) during 93.25 periods of performances or projections involving directed light. 93.26

94.1	1104.5.3 Illumination emergency power. The power supply for means of egress
94.2	illumination shall normally be provided by the premises' electrical supply. In the
94.3	event of power supply failure, illumination shall be automatically provided from an
94.4	emergency system for the following occupancies where such occupancies require
94.5	two or more means of egress:
94.6	1. Group A having 50 or more occupants. Assembly occupancies used
94.7	exclusively as a place of worship and having an occupant load of less than 300
94.8	are not required to have emergency illumination.
94.9	2. Group B buildings three or more stories in height, buildings with 100 or more
94.10	occupants above or below the level of exit discharge, or buildings with 1,000 or
94.11	more total occupants.
94.12	3. Group E in interior stairs, corridors, windowless areas with student occupancy,
94.13	shops, and laboratories.
94.14	4. Group F having more than 100 occupants. Buildings used only during daylight
94.15	hours that are provided with windows for natural light are not required to have
94.16	emergency illumination.
94.17	5. Group I.
94.18	6. Group M buildings greater than 3,000 square feet $(2,879 \text{ m}^2)$ in gross sales
94.19	area or exceeding one story in height.
94.20	7. Group R-1. Where each guest room has direct access to the outside of the
94.21	building at grade, emergency illumination is not required.
94.22	8. Group R-2. Where each living unit has direct access to the outside of the
94.23	building at grade, emergency illumination is not required.
94.24	9. Group R-4. Where each sleeping room has direct access to the outside of the
94.25	building at ground level, emergency illumination is not required.

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95.1	The emergency power system	shall provide power fo	r not less than 30 m	ninutes and		
95.2	consist of storage batteries, un	nit equipment, or an on-	site generator. The	installation		
95.3	of the emergency power syste	m shall be in accordance	e with Section 604.			
95.4	Subp. 5. IFC section 1104.6	. IFC section 1104.6 is	amended and sectio	ons added to		
95.5	read:					
95.6	1104.6 Guards. Guards complyin	g with this section shall	be provided at the	open sides of		
95.7	means of egress that are more than	a 30 inches (762 mm) at	ove the floor or gra	ide below.		
95.8	Exception: Approved existin	g open guards.				
95.9	1104.6.1 Height of guards.	Guards shall form a prot	ective barrier not le	ess than 42		
95.10	inches (1,067 mm) high excep	ot for the following exis	ting guards:			
95.11	1. Existing guards on the	open side of stairs, wh	ich are permitted to	be not less		
95.12	than 30 inches (760 mm)	high.				
95.13	2. Existing guards within dwelling units, which are permitted to be not less					
95.14	than 36 inches (910 mm)	high.				
95.15	3. Existing guards in ass	embly areas.				
95.16	4. Existing guards on sta	irs and balconies of bui	ldings designated a	s historic		
95.17	structures, which are per	nitted to be not less that	n 24 inches (610 m	m) high.		
95.18	1104.6.2 Opening limitation	s. Open guards shall ha	ve balusters or orna	amental		
95.19	patterns such that a 6-inch (15	2 mm) diameter sphere	cannot pass through	any opening		
95.20	up to a height of 34 inches (864	4 mm) except when one	of the following con	nditions exist:		
95.21	1. At elevated walking su	urfaces for access to and	l use of electrical, r	nechanical		
95.22	or plumbing systems or e	equipment, guards shall	have balusters or b	e of solid		
95.23	materials such that a sphe	ere with a diameter of 2	1 inches (533 mm)	cannot pass		
95.24	through any opening.					
95.25	2. In occupancies in Grou	up I-3, F, H, or S, the cle	ar distance between	intermediate		
95.26	rails measured at right an	gles to the rails shall no	t exceed 21 inches	(533 mm).		

96.1

Subp. 6. IFC section 1104.7. IFC section 1104.7 is amended and sections added to read: 96.2

**1104.7 Doors - general.** Except where modified by Section 1008.1.2, doors shall be of the 96.3 side-hinged swing type. Doors shall swing in the direction of egress travel when serving 96.4 an occupant load of 50 or more persons. The minimum width of each door opening shall 96.5 be sufficient for the occupant load thereof. Locks and latches shall comply with Sections 96.6 1008.1.9 through 1008.1.11.4. 96.7

**1104.7.1 Size of doors.** Except where modified by this section, each required means 96.8 of egress door shall comply with the minimum dimensions specified herein. Doors 96.9 shall provide a clear width of not less than 28 inches (711 mm). Where this section 96.10 requires a minimum clear width of 28 inches (711 mm) and a door opening includes 96.11 two door leaves without a mullion, one leaf shall provide a clear opening width of 28 96.12 inches (711 mm). The maximum width of a swinging door leaf shall be 48 inches 96.13 (1,219 mm) nominal. The height of doors shall not be less than 80 inches (2,032 mm). 96.14 1104.7.1.1 Closets. Door openings to storage closets less than 10 square feet 96.15  $(0.93 \text{ m}^2)$  in area shall not be limited by the minimum width. 96.16 1104.7.1.2 Revolving doors. Width of door leafs in revolving doors shall not be 96.17 limited. 96.18 1104.7.1.3 Dwelling units. Door openings within a dwelling unit are permitted 96.19 96.20 to be 78 inches (1,981 mm) in height. **1104.7.1.4 Small rooms.** Exit access doors serving a room not larger than 70 96.21 square feet  $(6.5 \text{ m}^2)$  are permitted to be 24 inches (610 mm) in door width. 96.22

- 1104.7.1.5 Health care facilities. The minimum clear width for doors in the 96.23 means of egress from hospitals; nursing homes; limited care facilities; psychiatric 96.24 hospital sleeping rooms; and diagnostic and treatment areas, such as x-ray, 96.25
- surgery, or physical therapy, shall be not less than 32 inches (810 mm) wide. 96.26
- Existing 34-inch (865 mm) doors shall be permitted. Existing 28-inch (710 mm) 96.27

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97.1	corridor do	ors in facilities where the fire plans d	lo not require evacu	ation by bed,
97.2	gurney, or	wheelchair shall be permitted.		

97.3 Subp. 7. IFC section 1104.10. IFC section 1104.10 is amended and sections added97.4 to read:

97.5 1104.10 Stair dimensions for existing stairs. Existing stairs in buildings shall be
97.6 permitted to remain if the rise does not exceed 8.25 inches (210 mm) and the run is not
97.7 less than 9 inches (229 mm). Existing stairs are permitted to have a minimum width of 36
97.8 inches (914 mm) but not less than the width required for the number of occupants served
97.9 as determined by Section 1005.1. Existing stairs can be rebuilt.

97.10 **1104.10.1 Stair dimensions for replacement stairs.** The replacement of an existing
97.11 stairway in a structure shall not be required to comply with the new stairway
97.12 requirements of Section 1009 where the existing space and construction will not
97.13 allow a reduction in pitch or slope.

97.14 Subp. 8. **IFC section 1104.12.** IFC section 1104.12 is amended to read:

97.15 **1104.12 Circular stairways.** Existing circular stairs shall be allowed to continue in
97.16 use provided the minimum depth of tread at the outside of the stair is at least 10 inches
97.17 (254 mm).

97.18 Subp. 9. **IFC section 1104.16.** IFC section 1104.16 is amended and sections added 97.19 to read:

97.20 **1104.16 Fire escape stairs.** Fire escape stairs shall comply with Sections 1104.16.1
97.21 through 1104.16.7.

97.22 **1104.16.1 Existing means of egress.** Fire escape stairs shall be permitted in existing
97.23 buildings but shall not constitute more than 50 percent of the required exit capacity.

97.24 **1104.16.2 Protection of openings.** Openings within 10 feet (3,048 mm) of fire escape
97.25 stairs shall be protected by fire assemblies having a minimum 3/4-hour fire-resistance

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98.1	rating. In buildings equippe	d throughout with an app	roved automatic sp	orinkler			
98.2	system, opening protection	is not required.					
98.3	1104.16.3 Dimensions. Fire	e escape stairs shall meet t	he minimum width	n, capacity,			
98.4	riser height, and tread depth	as specified in Table 110	4.16.				
98.5	1104.16.4 Access. Access to	o a fire escape from a cor	ridor shall not be the	hrough			
98.6	an intervening room. Acces	s to a fire escape stair sha	ll be from a door o	r window			
98.7	meeting the criteria of Secti	on 1005.3.2. Access to a	fire escape stair sh	all be			
98.8	directly to a balcony, landing	g, or platform. These shal	l be no higher than	the floor or			
98.9	windowsill level and no low	ver than 8 inches (203 mm	i) below the floor lo	evel or 18			
98.10	inches (457 mm) below the	windowsill.					
98.11	1104.16.5 Materials and st	1104.16.5 Materials and strength. Components of fire escape stairs shall be					
98.12	constructed of noncombusti	constructed of noncombustible materials.					
98.13	Fire escape stairs and balcor	nies shall support the dead	load plus a live lo	ad of not less			
98.14	than 100 pounds per square	than 100 pounds per square foot (4.78 $kN/m^2$ ). Fire escape stairs and balconies shall					
98.15	be provided with a top and i	ntermediate handrail on e	ach side.				
98.16	The fire code official is auth	orized to require testing of	or other satisfactory	vevidence			
98.17	that an existing fire escape s	tair meets the requiremen	ts of this section.				
98.18	1104.16.6 Termination. Th	e lowest balcony shall no	t be more than 18 f	eet (5,486			
98.19	mm) from the ground. Fire	escape stairs shall extend	to the ground or be	e provided			
98.20	with counterbalanced stairs	reaching the ground. For	fire escape stairs se	erving ten or			
98.21	fewer occupants, an approve	ed fire escape ladder is all	owed to serve as the	e termination			
98.22	for fire escape stairs.						
98.23	1104.16.7 Maintenance. Fi	re escapes shall be kept c	lear and unobstruct	ted at all			
98.24	times and shall be maintained	ed in good working order.					
98.25		<b>TABLE 1104.16</b>					
98.26	<b>DIMENSIONS F</b>	OR EXISTING FIRE E	SCAPE STAIRS				

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99.1 99.2	Feature:	Serving More Than 10 Occupants	Serving 10 or Fewer Occupants
99.3	Minimum Width	22 inches	18 inches
99.4	Maximum Height of Risers	9 inches	12 inches
99.5	Minimum Tread Depth	9 inches	6 inches

Subp. 10. IFC section 1104.17. IFC section 1104.17 is amended and sectionsadded to read:

99.8 1104.17 Corridors. Corridors and the openings therein shall provide an effective barrier
99.9 to resist the movement of smoke. Corridors, common path of travel, and travel distance
99.10 shall comply with Sections 1104.17.1 through 1104.17.4.2. Corridors complying with
99.11 Section 1018.1 need not be fire-resistance rated.

99.12 **1104.17.1 Construction.** Corridors shall be fire-resistance rated in accordance
99.13 with this section and Table 1104.17.1. Existing walls surfaced with wood lath and
99.14 plaster in good condition or 1/2-inch gypsum wallboard are acceptable for corridor
99.15 walls and ceilings. Where Table 1104.17.1 allows a sprinkler system in lieu of
99.16 fire-resistance-rated construction, the building shall be protected throughout with an
99.17 automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.

- 99.18**1104.17.1.1 Existing places of religious worship.** In Group A occupancies used99.19as places of religious worship, existing corridor walls, ceilings, and opening99.20protection not in compliance with Section 1104.17.1 may be continued when99.21such buildings are protected with an approved automatic fire alarm system. The99.22fire alarm system shall include automatic smoke detection throughout the exit99.23system and approved detection in all boiler rooms, furnace rooms, mechanical99.24rooms, and storage rooms.
- 99.251104.17.1.2 Existing Group B occupancies. In office areas of Group B99.26occupancies not exceeding 10,000 square feet (929 m²) in size, existing corridor99.27walls, ceilings, and opening protection not in compliance with Section 1104.17.1

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100.1		may be continued when such bu	ildings are protected v	vith an approved auto	matic
100.2		fire alarm system. The fire alarm	system shall include	automatic smoke dete	ection
100.3		throughout the exit system and a	pproved detection in	all boiler rooms, furna	ace
100.4		rooms, mechanical rooms, and s	torage rooms.		
100.5		1104.17.1.3 Existing Group E o	occupancies. In Grou	p E occupancies, exis	ting
100.6		corridor walls, ceilings, and oper	ning protection not in	compliance with Sect	tion
100.7		1104.17.1 may be continued whe	en such buildings are	protected with an app	roved
100.8		automatic fire alarm system that	is monitored by a cen	tral, proprietary, or re	mote
100.9		station service. The fire alarm sy	ystem shall include au	tomatic smoke detect	ion
100.10		throughout the exit system and a	pproved detection in	all rooms and areas of	ther
100.11		than classrooms and offices.			
100.12		TABI	LE 1104.17.1		
100.13		CORRIDOR FIRE	-RESISTANCE RAT	FING	
		I	1		

100.14	Occupancy	<b>Occupant</b> Load	<b>Required Fire-Resis</b>	tance Rating (hours)
188:18		Served by Corridor	Without sprinkler	With sprinkler
100.17			system	system
100.18	A, B, E, F, H, M, S, U	Greater than 30	1	0
100.19	Ι	Greater than 10	1 (see Section	0
100.20			1104.17.2.3)	
100.21	R	Greater than 10	1	0

1104.17.2 Corridor openings. Openings into corridors shall comply with Sections 100.22 1104.17.2.1 through 1104.17.2.3. 100.23

1104.17.2.1 Doors. Doors opening into corridors required by Table 1104.17.1 to 100.24 be fire-resistance rated shall be protected by 20-minute fire assemblies or solid 100.25 wood doors not less than 1-3/4 inches (45 mm) thick. Where the existing frame 100.26 will not accommodate the 1-3/4 inches (45 mm) thick door, a 1-3/8 inches (35 100.27 mm) thick solid bonded wood core door or equivalent insulated steel door shall be 100.28 permitted. Doors shall be self-closing or automatic-closing by smoke detection. 100.29

03/02/16 REVISOR SS/NB AR4148 1104.17.2.2 Other openings. Openings with fixed wired glass set in steel frames 101.1 are permitted for corridor walls and ceilings. Transoms, louvers, and openings 101.2 other than doors from corridors to rooms shall be automatic-closing by smoke 101.3 detection or shall be covered with a minimum of 3/4-inch (19 mm) gypsum 101.4 wallboard or equivalent material on the room side. 101.5 1104.17.2.3 Existing Group I-2 and I-3 occupancies. Patient room doors 101.6 in corridors in Group I-2 occupancies and Group I-3 corridor doors need not 1017 be fire-resistance rated or self-closing where smoke barriers are provided in 101.8 accordance with the Building Code or NFPA 101. 101.9 **1104.17.3 Corridor width.** The minimum corridor width shall be in accordance with 101.10 Sections 1104.17.3.1 through 1104.17.3.2. 101.11 1104.17.3.1 Minimum width. The minimum corridor width shall be as 101.12 determined by the occupant load calculations in Section 1005.3 but not less 101.13 than 36 inches 101.14 101.15 1104.17.3.2 Minimum width in mechanical areas. The minimum corridor width is allowed to be reduced to 24 inches (610 mm) for spaces providing 101.16 access to electrical, mechanical, or plumbing systems. 101.17 1104.17.4 Dead ends. Where more than one exit or exit access doorway is required, 101.18 the exit access shall be arranged such that dead ends do not exceed the limits specified 101.19 101.20 in Sections 1104.17.4.1 through 1104.17.4.2 and Table 1104.17.4. 1104.17.4.1 Wide corridors and dead-end provisions. A dead-end passageway 101.21 or corridor shall not be limited in length where the length of the dead-end 101.22 passageway or corridor is less and 2.5 times the least width of the dead-end 101.23 passageway or corridor. 101.24 **TABLE 1104.17.4** 101.25 COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS (by occupancy) 101.26

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102.1 102.2	Occupancy	Common Path Limit		Dead-End Corridor Limit		Travel Dis	stance Limit
102.3 102.4		Unspr (feet)	Spr (feet)	Unspr (feet)	Spr (feet)	Unspr (feet)	Spr (feet)
102.5	Group A	20/75 <sup>a</sup>	20/75 <sup>a</sup>	$20^{\mathrm{b}}$	$20^{b}$	200	250
102.6	Group B	75	100	50	50	200	300
102.7	Group E	75	75	50	50	200	250
102.8 102.9	Groups F-1, S-1 <sup>d</sup>	75	100	50	50	200	250
102.10 102.11	Groups F-2, S-2 <sup>d</sup>	75	100	50	50	300	400
102.12	Group H-1	25	25	0	0	75	75
102.13	Group H-2	50	100	0	0	75	100
102.14	Group H-3	50	100	20	20	100	150
102.15	Group H-4	75	75	20	20	150	175
102.16	Group H-5	75	75	20	50	150	200
102.17	Group I-1	75	75	20	20	200	250
102.18 102.19 102.20	Group I-2 (Health Care)	N/R	N/R	N/R	N/R	150	200 <sup>°</sup>
102.21	Group I-3	100	100	N/R	N/R	150 <sup>c</sup>	200 <sup>c</sup>
102.22 102.23	Group I-4 (Day Care)	N/R	N/R	20	20	200	250
102.24 102.25 102.26	Group M (Covered Mall)	75	100	50	50	200	400
102.27 102.28	Group M (Mercantile)	75	100	50	50	200	250
102.29 102.30	Group R-1 (Hotels)	75	75	50	50	200	250
102.31 102.32 102.33	Group R-2 (Apart- ments)	75	75	50	50	200	250

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103.1 103.2	Groups R-3, R-4	N/R	N/R	N/R	N/R	N/R	N/R
103.3	Group U	75	100	20	50	300	400

103.4 "Unspr" means unsprinklered and "Spr" means sprinklered.

103.5 For SI: 1 foot = 304.8 mm.

a. 20 feet for common path serving more than 50 persons; 75 feet for common path

103.7 serving 50 or fewer persons.

b. See Section 1024.9.5 for dead-end aisles in Group A occupancies.

103.9 c. This dimension is for the total travel distance, assuming incremental portions have fully

103.10 utilized their allowable maximums. For travel distance within the room, and from the

103.11 room exit access door to the exit, see the appropriate occupancy chapter.

103.12 d. See the International Building Code for special requirements on spacing of doors

103.13 in aircraft hangers.

103.14 N/R = No requirements.

103.15 Subp. 11. IFC section 1104.18. IFC section 1104.18 is amended to read:

103.16 **1104.18 Exit access travel distance.** Exits shall be located so that the maximum length

103.17 of exit access travel, measured from the most remote point to an approved exterior

103.18 exit, vertical exit enclosure, horizontal exit, or exit passageway along the natural and

103.19 unobstructed path of egress travel, does not exceed the distances given in Table 1104.17.4.

103.20 Subp. 12. IFC section 1104.19. IFC section 1104.19 is amended to read:

103.21 1104.19 Common path of egress travel. The common path of egress travel shall not103.22 exceed the distances given in Table 1104.17.4.

103.23 Subp. 13. **IFC section 1104.20.** IFC section 1104.20 is amended to read:

103.24 **1104.20 Stairway discharge identification.** A stairway in an exit enclosure that continues
103.25 below the level of exit discharge shall be arranged and marked to make the direction of
103.26 egress to a public way readily identifiable. Stairs that continue one-half story beyond the

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104.1	level of exit discharge need not be provided with barrier	s where the exit discharge	is			
104.2	obvious.					
104.3	Subp. 14. <b>IFC section 1104.21.</b> IFC section 1104.2	21 is amended to read:				
104.4	1104.21 Exterior stairway protection. Exterior exit sta	irs shall be separated from	the			
104.5	interior of the building as required in Section 1026.6.					
104.6	Subp. 15. IFC section 1104.22. IFC section 1104.	22 is amended and section	IS			
104.7	added to read:					
104.8	1104.22 Minimum aisle width. The minimum clear wid	Ith of aisles and aisle acces	ssways			
104.9	shall be in accordance with this section and Table 1104.	22.				
104.10	1104.22.1 Aisle and aisle accessway width. Aisles	and aisle accessway width	is shall			
104.11	be as determined by the occupant load calculations in Section 1005.3, but not less					
104.12	than the widths shown in Table 1104.22.					
104.13	<b>TABLE 1104.22</b>					
104.14	MINIMUM AISLE AND AISLE ACCESSWAY WIDTHS					
104.15	Condition	Minimum Width (in i	nches)			
104.16 104.17	Aisle accessways serving seating areas having 50 or few seats, tables, or desks	ver 24 inches (610 m	m)			
104.18 104.19	Aisle accessways serving seating areas more than 50 sea tables, or desks	ats, 30 inches (760 m	m)			
104.20	Aisle accessways serving employee areas only	24 inches (610 m	m)			
104.21 104.22	Level or ramped aisles having seating on each side and serving 50 or fewer seats	36 inches (914 m	m)			
104.23 104.24	Level or ramped aisles having seating on each side and serving more than 50 seats	42 inches (1,067 m	ım)			
104.25 104.26	Level or ramped aisles having seating on one side and serving 60 or fewer seats	30 inches (760 m	m)			
104.27 104.28	Level or ramped aisles having seating on one side and serving more than 60 seats	36 inches (914 m	m)			
104.29 104.30	Aisle stairs having seating on each side and serving 50 fewer seats	or 36 inches (914 m	m)			

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Aisle stairs having seating of than 50 seats	on each side and serving more	42 inches (1	,067 mm)	
Aisle stairs having seating fewer seats	on one side and serving 60 or	30 inches (	(760 mm)	
Aisle stairs having seating than 60 seats	on one side and serving more	36 inches (	(914 mm)	
Aisle stair - distance betwee guard when the aisle is sub-	en seating and aisle handrail or divided	20 inches (	508 mm)	
Subp. 16. IFC section	<b>1104.23.</b> IFC section 1104.23 is	amended to rea	ad:	
1104.23 Stairway floor nu	<b>mber signs.</b> Existing stairs shall	be marked in a	ccordance	
with Section 1022.9.				
Subp. 17. IFC section	<b>1104.24.</b> IFC section 1104.24 is	amended and	sections	
added to read:				
1104.24 Number of means of egress or exits. The number of means of egress doors or				
exits from a room, area, story, or building shall be in accordance with Sections 1104.24.1				
through 1104.24.4 and Table 1104.24.				
Where two or more me	ans of egress doors or exits are re	quired from a 1	room or area,	
such doors shall be separate	ed from each other by a distance n	ot less than one	e-third of the	
length of the maximum ove	rall diagonal dimension of the are	a served.		
1104.24.1 Number bas	sed on capacity. Two means of e	gress doors or	exits are	
required from rooms, a	reas, stories, or buildings when the	ne number of o	ccupants	
exceeds the values show	wn in Table 1104.24.			
1104.24.1.1 Dorm	itories. Dormitory sleeping room	is having an ex	it doorway	
direct to the exterio	or are not required to have a secon	d exit or exit a	ccess doorway	
provided that:				
a. The room h	nas 16 or fewer occupants;			
b. The travel distance from any point in the room to the exit doorway does				
not exceed 30	feet;			

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06.1		c. The room is not located more than two stories above grade;						
06.2		d. The room is not located on a level below grade; and						
06.3		e. The room is provided with an emergency escape window in accordance						
06.4		with Sections 1029.2 through 1029.5 and the escape window is separated						
06.5		from the exit doorway in accordance with Section 1015.2.1.						
06.6	1104.24.2 Three egress doors or exits required. Three means of egress doors							
)6.7		or exits are required from rooms, areas, stories, or buildings when the number of						
06.8		occupants exceeds 501 persons.						
06.9		1104.24.3 Four egress doors or exits required. Four means of egress doors or						
)6.10	(	exits are required from rooms, areas, stories, or buildings when the number of						
06.11	(	occupants is 1,001 or more persons.						
6.12		1104.24.4 Group E laboratories. Group E science laboratories containing						
06.13	]	hazardous materials shall have two exits when exceeding 1,000 square feet (93						
6.14	]	$m^2$ ) in size.						
)6.15		<b>TABLE 1104.24</b>						
)6.16		TWO EGRESS DOORS OR EXITS REQUIRED						
06.17		Occupancy		Number of Occupar	nts			
06.18		A, B, E, F, M, S, U		50 occupants				
06.19		H, I, R		10 Occupants				
)6.20		R (dormitories)	16 0	Occupants (see 1104.2	(2311)			

106.21 Subp. 18. **IFC section 1104.25.** IFC section 1104.25 is amended and sections 106.22 added to read:

106.23 **1104.25 Escape windows.** In Group R and Group I-1 occupancies, escape windows shall
106.24 be provided, installed, and maintained in rooms used for sleeping below the fourth story.

106.25 A readily accessible escape window shall be provided from basement levels occupied as a

106.26 licensed family or group family child care home. Escape windows shall be in accordance

106.27 with this section.

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107.1	1104.25.1 Escape	windows not required. Emerger	ncy escape windows	are not			
107.2	required for the fo	lowing conditions:					
107.3	1. If the room	has a door that leads directly to the	he exterior of the bui	ilding.			
107.4	2. In dwellin	2. In dwellings and structures constructed prior to July 1, 1972, provided they					
107.5	are not licens	are not licensed by Minnesota or used for transient lodging.					
107.6	3. If the build	3. If the building is protected throughout by an approved, automatic sprinkler					
107.7	system.						
107.8	4. From roor	s of existing buildings having tw	o separate means of	escape,			
107.9	provided that	he means of escape are independ	ent of each other and	d they pass			
107.10	through only	one adjacent nonlockable room or	area.				
107.11	5. In Group I	hotels or motels constructed prio	or to April 11, 1983.				
107.12	1104.25.2 Minim	m size and dimensions. Escape	window openings sh	all have a			
107.13	minimum net clea	opening area of 4.5 square feet (	(648 square inches).	Opening			
107.14	height and width	imensions shall not be less than 2	20 inches.				
107.15	1104.25.3 Maxim	<b>Im height from floor.</b> The maxim	num height from the	floor to the			
107.16	window sill openi	g shall not exceed 48 inches.					
107.17	1104.25.4 Emerg	ncy escape windows under decl	ks and porches. Em	ergency			
107.18	escape windows a	e allowed to be installed under de	ecks and porches pro	wided the			
107.19	location of the de	k allows the emergency escape w	rindow to be fully op	ened and			
107.20	provides a path no	less than 36 inches in height to a	a yard or court.				
107.21	1104.25.5 Windo	wells. An escape window open	ing with a finished si	ill height			
107.22	below the adjacent	ground level shall be provided w	rith a window well in	accordance			
107.23	with Sections 110	.25.5 through 1104.25.5.2.					
107.24	1104.25.5.1 N	<b>inimum size.</b> The minimum hor	izontal area of the w	indow well			
107.25	shall be 9 squ	are feet, with a minimum dimensi	on of 36 inches. The	e area of the			
107.26	window well	hall allow the emergency escape	and rescue opening	to be fully			
107.27	opened.						

03/02/16 REVISOR SS/NB AR4148 1104.25.5.2 Ladders or steps. Window wells with a vertical depth of more 108.1 than 44 inches shall be equipped with an approved permanently affixed ladder 108.2 or steps. Ladders or rungs shall have an inside width of at least 12 inches, shall 108.3 project at least 3 inches from the wall and shall be spaced not more than 18 108.4 inches on center vertically for the full height of the window well. The ladder or 108.5 steps shall not encroach into the required dimensions of the window well by 108.6 more than 6 inches. The ladder or steps shall not be obstructed by the emergency 108 7 escape and rescue opening. Ladders or steps required by this section are exempt 108.8

108.9 from the stairway requirements of Section 1009.

## 108.10 7511.1106 SECTION 1106, SEPARATION OF OCCUPANCIES AND 108.11 HAZARDOUS AREAS.

108.12 IFC chapter 11 is amended by adding section 1106 to read:

108.13 **1106.1 General.** Mixed occupancies within the same building and hazardous areas shall
108.14 be separated in accordance with Sections 1106.2 through 1106.3.2.1.

108.15 1106.2 Occupancy separations. Occupancy separations shall be provided in buildings
108.16 containing Group I and Group R occupancies as specified in Sections 1106.2.1 through
108.17 1106.2.3. These separations shall be constructed and maintained in accordance with the
108.18 Building Code. Existing wood lath and plaster in good condition or 1/2-inch (12.7 mm)
108.19 gypsum wallboard is acceptable where one-hour occupancy separations are required.

108.20 1106.2.1 Door openings. Where one-hour fire-resistant construction is required,
openings shall be protected by listed fire doors, insulated steel doors, 1-3/8-inch thick
(35 mm) or 1-3/4-inch thick (45 mm) solid wood doors, or fixed wired glass set in
steel frames. Doors shall be self-closing or automatic-closing by smoke detection.

# 108.24 **1106.2.2 Group I-1 and Group I-2 occupancies.** Group I-1 and Group I-2 108.25 occupancies shall be separated from other occupancies as specified in the Building 108.26 Code.

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109.1	1106.2.3 Group I-3 occupancie	es. Group I-3 occupat	ncies shall be separa	ated from
109.2	other occupancies as specified in	n the Building Code.		
109.3	1106.2.3.1 Group I-3 com	pliance options. Occ	upancy separations	need not be
109.4	provided for Group I-3 occ	upancies in the follow	ving conditions:	
109.5	1. In buildings that are	e protected throughou	t by an approved au	utomatic
109.6	sprinkler system, one-h	nour fire-resistance-ra	ted construction is j	permitted.
109.7	2. In buildings that are	e protected throughou	t by an approved au	utomatic
109.8	sprinkler system, open	ings for the passage of	of materials betweer	n the Group
109.9	I-3 and adjacent occup	ancies are not require	d to be fire-resistar	nce rated
109.10	when such openings ar	re not more than 4 fee	et (1,219 mm) above	e the floor
109.11	and are provided with	a metal cover or door		
109.12	1106.2.4 Group R occupancies	Group R occupance	ies and the exits the	erefrom
109.13	shall be separated from Group A	A, B, M, S, and U occ	supancies by at least	t one-hour
109.14	fire-resistance-rated construction	n. Group R occupanc	ies shall be separate	ed from all
109.15	other occupancies as specified in	n the Building Code.		
109.16	1106.2.4.1 Group R comp	liance options. Occu	pancy separations n	need not be
109.17	provided for Group R occur	pancies in the followi	ng conditions:	
109.18	1. In buildings that are	e protected throughou	t by an approved at	utomatic
109.19	sprinkler system, one-ł	nour occupancy separ	ations need not be p	provided.
109.20	2. An occupancy separ	ration need not be pro	wided between Gro	oup A and
109.21	Group R occupancies i	if the building is prov	ided with a fire alar	m system
109.22	having automatic smok	ke detection througho	ut the Group A occu	upancy.
109.23	3. Fire-resistance-rated	d opening protection i	need not be provide	d between
109.24	Group A and Group R	occupancies when su	ich openings are de	signed to
109.25	resist the passage of sn	noke and the opening	s are protected by a	n approved
109.26	automatic sprinkler sys	stem.		

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4. An occupancy separation need not be provided where two or more 110.1 occupancies occur in the same building or structure and are so intermingled 110.2 that separations are impracticable provided that the exit provisions and 110.3 protection requirements for the more restrictive occupancy are provided. 110.4 5. An occupancy separation need not be provided between a Group R-3 110.5 occupancy with sleeping accommodations for ten or fewer persons and 110.6 Group B or Group M occupancies which are accessory if interconnected 1107 smoke alarms are provided. At least one smoke alarm shall be located in the 110.8 Group B or Group M occupancy and additional alarms may be needed in 110.9 accordance with manufacturer's instructions. Smoke alarms in the sleeping 110.10 areas shall be located as specified in Section 1103.8 and shall be audible 110.11 110.12 in all sleeping areas.

110.13 **1106.3 Incidental use areas.** Incidental use areas shall be separated from the rest of the building in accordance with this section. Incidental use areas are defined as shops, laboratories containing hazardous materials, storage rooms exceeding 100 square feet in size, laundry rooms exceeding 100 square feet in size, and rooms containing boilers or central heating plants where the largest piece of fuel equipment exceeds 400,000 BTU per hour input.

110.19 **1106.3.1 Separation required.** Incidental use areas in Groups A, B, E, F, H, I, M,
R-1, R-2, and S occupancies shall be separated from the rest of the building by not
less than a one-hour fire barrier. Existing wood lath and plaster in good condition or
1/2-inch (12.7 mm) gypsum wallboard is acceptable where one-hour fire barriers are
required. Storage rooms need not be separated in Groups F, M, or S occupancies.

110.24 **1106.3.2 Sprinkler protection in lieu of separation.** Incidental use areas in Groups
 A, B, E, F, H, M, and S occupancies need not be separated when the incidental use
 area is protected with automatic sprinklers.

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111.1**1106.3.2.1 Groups I and R occupancies.** Incidental use areas in Groups I and R111.2occupancies need not be separated when the incidental use area is protected with111.3automatic sprinklers and the construction of such areas is capable of resisting the111.4passage of smoke. Doors to such areas shall be a minimum of one-hour fire-rated,111.5solid-core wood doors or insulated steel doors. Doors shall be self-closing or

automatic-closing by smoke detection.

### 111.7 7511.1408 SECTION 1408, OWNER'S RESPONSIBILITY FOR FIRE 111.8 PROTECTION. [RENUMBERED TO PART 7511.3308]

### 111.9 7511.2206 SECTION 2206, FLAMMABLE AND COMBUSTIBLE LIQUID 111.10 MOTOR FUEL-DISPENSING FACILITIES. [RENUMBERED TO PART 7511.2306]

### 111.11 7511.2210 SECTION 2210, MARINE MOTOR FUEL-DISPENSING FACILITIES. 111.12 [RENUMBERED TO PART 7511.2310]

# 111.13 7511.2306 SECTION 2306, GENERAL FIRE PROTECTION AND LIFE SAFETY 111.14 FEATURES. [RENUMBERED TO PART 7511.3206]

# 111.15 7511.2306 SECTION 2306, FLAMMABLE AND COMBUSTIBLE LIQUID 111.16 MOTOR FUEL-DISPENSING FACILITIES. [MOVED FROM PART 7511.2206]

- 111.17 Subpart 1. **IFC section 2306.2.3.** IFC section 2306.2.3 is amended by adding
- 111.18 exceptions to Item 1 to read:

#### 111.19 Exceptions:

- 111.201. When approved by the fire chief, other aboveground tanks that comply111.21with Chapter 57 are allowed to be used for outside, above-grade storage and111.22dispensing of Class I liquids, provided the tanks are located in accordance111.23with Table 2306.2.3.
- 111.24 2. Existing nonprotected tanks designed, fabricated and constructed
- in accordance with Section 5704.2.7 and not exceeding 6,000 gallons
- individual capacity and 18,000 gallons aggregate capacity are allowed to belocated not less than 30 feet from the nearest dispenser and the nearest side

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112.1		of any public way, pr	operty line, building o	or combustible storag	ge located
112.2		on the same property			
112.3	Subp. 2	2. IFC section 2306.2.	<b>3.</b> IFC section 2306.2	.3 is amended by ad	ding an
112.4	exception to	o Item 2 to read:			
112.5		<b>Exception:</b> 2. Existi	ng nonprotected tanks	designed, fabricate	d and
112.6		constructed in accord	ance with Section 570	4.2.7 and not exceed	ding 10,000
112.7		gallons individual cap	pacity and 30,000 gall	ons aggregate capac	ity are
112.8		allowed to be located	not less than 30 feet f	from the nearest disp	benser and
112.9		the nearest side of an	y public way, property	line, building or co	mbustible
112.10		storage located on the	e same property.		
112.11	Subp. 3	3. IFC section 2306.2	<b>3.</b> IFC section 2306.2	3 is amended by add	ling Items 6
112.12	and 7 to rea				
112.13			open to the public and	d for resort operation	ns serving
112.14		-	, which dispense Class	-	-
112.15			ns (2, 120 L) or less, h	-	-
112.16		adjacent to the tank is	s permitted. Such tank	s shall be located in	accordance
112.17		with Table 2306.2.3.	-		
112.18		7. For operations not	open to the public and	d for resort operation	ns serving
112.19		registered guests only	, which dispense Class	s II liquids from two	tanks having
112.20		a capacity of up to 1,	000 gallons (3, 785 L)	) each, having the di	spenser
112.21		located on or adjacen	t to the tank is permitt	ed. Such tanks shall	be located
112.22		in accordance with Ta	able 2306.2.3.		
112.23	Subn	4. IFC Table 2306.2.3.	IEC Table 2306 2.3 is	amended by modify	ving footnote
112.23	"a" to read:		IFC Table 2500.2.5 IS	amended by modify	ing ioothote
112.24		When approved by the	fire chief dispensing	devices are permitte	ed to be
112.25		stalled on top of or adjag		-	
112.20	1115	surred on top of of adja			ns ill vaults.

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113.1 113.2	7511.2307 SECTION 2307, LIQUEFIED PETROLEUM GAS MOTOR FUEL-DISPENSING FACILITIES.
113.3	IFC section 2307. IFC section 2307 is deleted and replaced with the following:
113.4	2307.1 General. Motor fuel-dispensing facilities for liquefied petroleum gas (LP-gas) fuel
113.5	shall be constructed and installed in accordance with NFPA 58 and this section.
113.6	2307.2 Approvals. Storage vessels and equipment used for the storage or dispensing of
113.7	LP-gas shall be approved or listed in accordance with Sections 2307.2.1 and 2307.2.2.
113.8	2307.2.1 Approved equipment. Containers, pressure relief devices (including
113.9	pressure relief valves), pressure regulators, and piping for LP-gas shall be approved.
113.10	2307.2.2 Listed equipment. Hoses, hose connections, vehicle fuel connections,
113.11	dispensers, LP-gas pumps, and electrical equipment used for LP-gas shall be listed.
113.12	2307.3 Dispensing. Motor fuel-dispensing operations for LP-gas shall comply with
113.13	Section 2304 and NFPA 58.
113.14	In addition, the following requirements shall apply:
113.15	1. The filling of portable containers is prohibited.
113.16	2. The filling of tanks on recreational vehicles other than those used for engine fuel
113.17	systems is prohibited.
113.18	3. No smoking or open flame is permitted within 25 feet of any dispenser operations.
113.19	2307.4 Vehicle impact protection. Vehicle impact protection for LP-gas storage
113.20	containers, pumps, and dispensers shall be provided in accordance with Section 2306.7.3
113.21	or 312.
113.22	2307.5 Self-service fueling of motor vehicles. Self-service LP-gas dispensing systems
113.23	shall be controlled by key, code, or access card issued to trained persons and shall be
113.24	limited to the filling of permanently mounted fuel containers on LP-gas powered vehicles.
113.25	2307.6 Operational requirements. Self-service LP-gas dispensing systems shall comply
113.26	with the operational requirements of Section 2305.
113.27	2307.6.1 Training. The owner of the LP-gas motor fuel-dispensing facility shall
113.28	provide for the safe operation of the system and the training of users.

- 114.1 **2307.7 Emergency shutoff switch.** The LP-gas motor fuel-dispensing system shall be
- 114.2 provided with an emergency shutoff distinctly labeled as EMERGENCY LP-GAS FUEL
- 114.3 SHUTOFF installed in accordance with Section 2303.2.
- 114.4 **2307.8 Overfilling.** LP-gas containers shall not be filled in excess of the fixed outage
- installed by the manufacturer or the weight stamped on the tank.

# 114.6 7511.2310 SECTION 2310, MARINE MOTOR FUEL-DISPENSING FACILITIES. 114.7 [RENUMBERED FROM PART 7511.2210]

114.8 IFC section 2310.3.1 is deleted.

#### 114.9 **7511.2402 SECTION 2404, SPRAY FINISHING.**

114.10 IFC section 2404.2 is amended to read:

114.11 **2404.2 Location of spray-finishing operations.** Spray-finishing operations conducted

in buildings used for Group A, E, I, or R occupancies shall be located in a spray room

114.13 protected with an approved automatic sprinkler system installed in accordance with

114.14 Section 903.3.1.1 and separated vertically and horizontally from other areas in accordance

114.15 with the International Building Code. In other occupancies, spray-finishing operations

shall be conducted in a spray room, spray booth, or spraying space approved for such use.

114.17 **Exceptions:** 

114.18 1. Automobile undercoating spray operations and spray-on automotive lining

operations conducted in areas with approved natural or mechanical ventilation shall

be exempt from the provisions of Section 2404 when approved and where utilizingClass IIIA or IIIB combustible liquids.

- 114.22 2. In buildings other than Group A, I, or R occupancies, approved limited spraying
- space in accordance with Section 2404.9.
- 114.24 3. Resin application areas used for manufacturing of reinforced plastics complying
- with Section 2409 shall not be required to be located in a spray room, spray booth,or spraying space.

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#### 115.1 **7511.2701 SECTION 2701, GENERAL. [RENUMBERED TO PART 7511.5001]**

### 115.2 7511.2703 SECTION 2703, GENERAL REQUIREMENTS. [RENUMBERED TO 115.3 PART 7511.5003]

- 115.4 Subpart 1. [See repealer.]
- 115.5 Subp. 2. [Renumbered to part 7511.5003]

### 115.6 7511.3006 SECTION 3006, MEDICAL GAS SYSTEMS. [RENUMBERED TO 115.7 PART 7511.5306]

#### 115.8 **7511.3201 SECTION 3201, GENERAL. [RENUMBERED TO PART 7511.5501]**

### 115.9 7511.3206 SECTION 3206, GENERAL FIRE PROTECTION AND LIFE SAFETY 115.10 FEATURES. [MOVED FROM PART 7511.2306]

- 115.11 IFC section 3206.1 is amended to read:
- 115.12 **3206.1 General.** Fire-protection and life-safety features for high-piled storage areas shall

115.13 be in accordance with Section 3206. Nationally recognized standards or guidelines, as

applicable, are allowed to be used when approved by the fire chief.

- 115.15 **Exception:** Limited high-piled storage areas in Group M occupancies not exceeding
- five percent of the total square footage of the building or not exceeding 2,500 square
- feet  $(232 \text{ m}^2)$  in size, whichever is less, need not be separated by fire-resistance-rated
- 115.18 construction and need not comply with the smoke and heat removal and draft curtain
- requirements of this article when these buildings are protected throughout by an
- approved automatic sprinkler system.

#### 115.21 7511.3301 SECTION 3301, GENERAL. [RENUMBERED TO PART 7511.5601]

### 115.22 7511.3308 SECTION 3308, FIREWORKS DISPLAY. [RENUMBERED TO PART 115.23 7511.5608]

### 115.24 7511.3308 SECTION 3308, OWNER'S RESPONSIBILITY FOR FIRE 115.25 PROTECTION. [MOVED FROM PART 7511.1408]

115.26 IFC section 3308 is amended by adding a section to read:

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**3308.8 Construction barriers.** Where construction, remodeling or demolition is taking
place involving the use of cutting and welding, temporary heating with open flames, or

116.3 flammable-liquid-fueled equipment, such areas shall be separated from occupied areas

- of a building by materials that will resist the spread of fire and smoke as specified for
- 116.5 draft-stopping materials in the Building Code.

#### 116.6 **7511.3404 SECTION 3404, STORAGE. [RENUMBERED TO PART 7511.5704]**

# 116.7 7511.3406 SECTION 3406, SPECIAL OPERATIONS. [RENUMBERED TO PART 116.8 7511.5706]

# 116.9 7511.4600 CHAPTER 46 - ADULT DAY CARE, RESIDENTIAL HOSPICE 116.10 FACILITIES, AND SUPERVISED LIVING FACILITIES. [RENUMBERED TO 116.11 PART 7511.8100]

#### 116.12 7511.5001 SECTION 5001, GENERAL. [MOVED FROM PART 7511.2701]

116.13 IFC section 5001.1 is amended by adding a section to read:

116.14 **5001.1.2 Medical gases.** The storage, handling, transferring and use of medical gases

- 116.15 intended for inhalation or sedation at hospitals, nursing homes and similar facilities
- shall be in accordance with NFPA 99 and the general provisions of Sections 5001,
- 116.17 5003.2.6 through 5003.2.6.2, and 5003.9 through 5003.9.4. Compressed gases shall
- also comply with Chapter 53. Cryogenic fluids shall also comply with Chapter 55.

# 116.19 7511.5003 SECTION 5003, GENERAL REQUIREMENTS. [MOVED FROM PART 116.20 7511.2703, SUBPART 2]

116.21 IFC section 5003.8.3 is amended by adding a section to read:

### 116.22 **5003.8.3.6 Hazardous materials above the third floor in laboratories in**

### 116.23 Group B, E or I-2 occupancies. Control areas containing laboratories located

- above the third floor in Group B, E or I-2 occupancies may be exempted from
- the provisions of Sections 5003.8.3.1, 5003.8.3.3, and 5003.8.3.4 provided the
- 116.26 following conditions are met:

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117.1	1. The buildings con	taining the laboratories	are equipped thro	ughout with
117.2	automatic sprinkler p	rotection installed in acc	cordance with Sec	tion 903.3.1.1.
117.3	2. Control areas cont	taining laboratories loca	ated above the thir	d floor are
117.4	separated from each	other and other portions	s of the building by	y a fire barrier
117.5	having a fire-resistan	ce rating of not less that	n two hours.	
117.6	3. The maximum an	nount of hazardous mate	erials in storage a	nd use in
117.7	control areas contain	ing laboratories does no	ot exceed 10 perce	ent of the
117.8	maximum allowable	quantities listed in Tabl	es 5003.1.1(1) and	d 5003.1.1(2)
117.9	with all increases all	owed in the footnotes of	f those tables.	
117.10	4. The maximum num	mber of control areas co	ontaining laborator	ries shall not
117.11	exceed 5 per floor.			

# 117.12 7511.5306 SECTION 5306, MEDICAL GAS SYSTEMS. [MOVED FROM PART 117.13 7511.3006]

117.14 IFC section 5306.4 is amended to read:

117.15 **5306.4 Medical gases.** The storage, handling, transferring and use of medical gases in

117.16 portable cylinders and containers and medical gas systems including distribution piping,

117.17 supply manifolds, connections, pressure regulators, and relief devices and valves, shall

117.18 comply with NFPA 99 and the general provisions of IFC Chapter 53, as amended.

### 117.19 7511.5501 SECTION 5501, GENERAL. [MOVED FROM PART 7511.3201]

117.20 IFC section 5501.1 is amended by adding a section to read:

5501.1.1 Medical gases. The storage, handling, transferring and use of oxidizing
cryogenic fluids used as medical gases shall comply with NFPA 99 and the general
provisions of IFC Chapter 55, as amended.

#### 117.24 7511.5601 SECTION 5601, GENERAL. [MOVED FROM PART 7511.3301]

117.25 IFC section 5601.2 and all subsections are deleted.

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# 118.1 7511.5608 SECTION 5608, FIREWORKS DISPLAY. [MOVED FROM PART 118.2 7511.3308]

118.3 IFC section 5608.1 is amended by adding a section to read:

118.4 **5608.1.1 Displays.** Permits are required to conduct a fireworks display. A fireworks display is only permitted when supervised by a pyrotechnic operator certified by the 118.5 state fire marshal. Unless specifically exempted by the jurisdiction, the sponsor of 118.6 118.7 the proposed fireworks display must submit a written application for permit at least fifteen (15) days in advance of the date of the display. In addition to the information 118.8 required in Section 5608.2, the permit application shall include the number, type and 118.9 size of the fireworks to be discharged. For proximate audience displays, the plans 118.10 required by Section 5608.2 shall also show the fallout radius for each pyrotechnic 118.11 device used during the display. At the time of permit application, the fire chief shall 118.12 be consulted regarding requirements for standby fire apparatus and personnel. 118.13 **Exception:** Jurisdictions are authorized to not require permits for displays 118.14 involving the use of smoke pots, flash pots and theatrical flash powder for 118.15 ceremonial, theatrical and musical productions. Such displays must be conducted 118.16

in accordance with this code.

#### 118.18 7511.5609 SECTION 5609, TEMPORARY STORAGE OF FIREWORKS.

118.19 **IFC section 5609.1.** IFC section 5609.1 is deleted.

#### 118.20 7511.5704 SECTION 5704, STORAGE. [MOVED FROM PART 7511.3404]

118.21 Subpart 1. **IFC section 5704.1.1.** IFC section 5704.1 is amended by adding a section to read:

#### 118.23 **5704.1.1 Application of sprinkler protection tables.** Tables 5704.3.6.3 (4) through

118.24 5704.3.6.3 (8) shall only apply to liquids stored in metal containers and tanks.

- 118.25 For liquids stored in nonmetallic containers, nonmetallic portable tanks or rigid
- nonmetallic intermediate bulk containers, sprinkler protection shall be designed and
- installed in accordance with criteria based on full-scale fire testing conducted at

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119.1	an approved testing laboratory	or based on other natio	nally recognized fire	e safety	
119.2	standards approved by the code	e official.			
119.3	Subp. 2. IFC section 5704.2.1	<b>1.3.</b> IFC section 5704.2	2.11.3 is amended by	y adding	
119.4	sections to read:				
119.5	5704.2.11.3.1 Burial	depth. The maximum	ourial depth for unde	erground	
119.6	storage tanks shall be	specified by the tank m	anufacturer, marked	l on the	
119.7	tank, and in accordance	ce with NFPA 30.			
119.8	5704.2.11.3.2 Minimu	um depth of cover. Ur	nderground tanks sha	all be	
119.9	covered with not less	than 24 inches (600 mm	n) of earth, or not les	ss than 12	
119.10	inches (300 mm) of ea	urth on top of which sha	ll be placed a slab of	reinforced	
119.11	concrete not less than	4 inches (100 mm) thick	. Where the tanks ar	e subjected	
119.12	to traffic, they shall be protected against damage from vehicles passing over				
119.13	them by at least 36 inches (900 mm) of earth cover, or 18 inches (450 mm)				
119.14	of well-tamped earth plus either 6 inches (150 mm) of reinforced concrete				
119.15	or 8 inches (200 mm)	of asphaltic concrete.	When asphaltic or re	inforced	
119.16	concrete paving is used as part of the protection, it shall extend at least 12				
119.17	inches (300 mm) horiz	zontally beyond the out	line of the tank in all	directions.	
119.18	Subp. 3. IFC section 5704.3.1	<b>1.2.</b> IFC section 5704.3	.1 is amended by ad	ding a	
119.19	section to read:				
119.20	5704.3.1.2 Rigid nonmeta			•	
119.21	construction and capacity of	of rigid nonmetallic interview of the second s	ermediate bulk conta	iners for	
119.22	the storage of flammable a	nd combustible liquids	shall be in accordan	ice with	
119.23	this section and NFPA 30.	When inside buildings,	, rigid nonmetallic in	itermediate	
119.24	bulk containers containing	flammable or combusti	ble liquids shall be s	ubjected to	
119.25	a standard fire test that den	nonstrates acceptable in	side storage fire per	formance	
119.26	and shall be listed and lab	eled in accordance with	1 UL 2368, Standard	l for	

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120.1	Fire Exposure Testing of I	ntermediate Bulk Cor	tainers for Flamma	ble and
120.2	Combustible Liquids, 200	1.		
120.3	Subp. 4. IFC section 5704.3.3	<b>3.11.</b> IFC section 5704	4.3.3 is amended by	adding a
120.4	section to read:			C
120.5	5704.3.3.11 Fire-extinguis	shing systems. Auton	natic sprinkler and f	oam-water
120.6	systems provided for the p	protection of container	, intermediate bulk	container
120.7	and portable tank storage s	shall be of the wet pip	e, deluge or preaction	on type. If
120.8	preaction systems are used	, they shall be designed	ed so that water or fo	oam solution
120.9	discharges immediately fro	om the sprinkler opene	ed by heat from a fir	e.
120.10 120.11	7511.5706 SECTION 5706, SPEC 7511.3406]	CIAL OPERATIONS	. [MOVED FROM	I PART
120.12	Subpart 1. IFC section 5706.5	<b>5.1.18.</b> IFC section 570	06.5.1.18 is amende	d by adding
120.13	an exception to read:			
120.14	4. Facilities when	e all control valves are	e locked in the close	ed position or
120.15	the power supply	to the pumps is locked	in the off position in	an approved
120.16	manner to preven	t the dispensing of liq	uids by unauthorize	d persons.
120.17	Subp. 2. IFC section 5706.5.4	I. IFC section 5706.5.	4 is amended to read	d:
120.18	5706.5.4 General. Class I liqu	ids shall be transferred	d from a tank vehic	le or tank
120.19	car only into an approved atmo	ospheric tank or appro-	ved portable tank, e	except as
120.20	provided in Sections 5706.5.4.2	l through 5706.5.4.4.	Class II and III-A li	iquids shall
120.21	be transferred from a tank vehi	cle or tank car only in	ito an approved atm	ospheric
120.22	tank, approved container or app	proved portable tank,	except as provided i	n Sections
120.23	5706.5.4.1 through 5706.5.4.4.			
120.24	Subp. 3. IFC section 5706.5.4	<b>.1.</b> IFC section 5706.	5.4.1 is amended to	read:
120.25	5706.5.4.1 Marine cr	aft and special equip	ment. Liquids inte	nded for
120.26	use as motor fuels are	allowed to be transfe	rred from tank vehi	cles into

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121.1	the fuel tanks of mar	ine craft and motor veh	icles when approv	ed by the
121.2	fire chief, and when:			
121.3	1. The tank vehi	icle's specific function is	s that of supplying	fuel to motor
121.4	vehicles;			
121.5	2. The operation	is not performed wher	e the public has ac	cess or where
121.6	there is unusual	exposure to life or prop	erty;	
121.7	3. The distance	between the tank vehic	le and vehicle bein	g refueled
121.8	does not exceed	50 feet in length; and		
121.9	4. All equipmen	t is approved for use wi	th the fuel being tr	ansferred.
121.10	7511.6101 CHAPTER 61, LIQU	EFIED PETROLEUN	I GASES.	
121.11	Chapter 61 is deleted in its ent	tirety and replaced with	the following:	
121.12	CHAPTER 61			
121.13	LIQUEF	TED PETROLEUM O	FASES	
121.14		SECTION 6101		
121.15	NFPA STANI	DARD NO. 58 INCOR	PORATED	
121.16	6101.1 Incorporation by reference	ce. The storage, handlir	ig, transportation, a	and use of
121.17	liquefied petroleum gas and the ins	stallation of all equipme	nt pertinent to syst	tems for such
121.18	uses shall be designed, constructed	, installed, operated, an	d maintained in acc	cordance with
121.19	the provisions of the National Fire	Protection Association	Standard No. 58, 5	Standard for
121.20	the Storage and Handling of Lique	fied Petroleum Gases (	Quincy, Massachus	setts, 2011).
121.21	Standard No. 58, as amended by S	ection 6102, is incorpor	ated by reference,	is not subject
121.22	to frequent change, and is available	e at the State Law Libra	ry, 25 Rev. Dr. M	artin Luther
121.23	King Jr. Blvd., St. Paul, Minnesot	a 55155.		
121.24		SECTION 6102		
121.25	AMENDMEN	<b>FS TO NFPA STAND</b>	ARD NO. 58	

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6102.1 Amendments. NFPA 58 shall apply to the storage, handling, transportation, and
use of liquefied petroleum gas and the installation of all equipment pertinent to systems
for such uses, except as amended by this section.
1. Section 6.4.5.7. Section 6.4.5.7 of NFPA Standard No. 58 is amended to read:
6.4.5.7. No horizontal separation shall be required between aboveground
LP-Gas containers and underground tanks containing flammable or combustible liquids
installed in accordance with Chapter 57 of the International Fire Code.
2. Section 6.4.5.10. Section 6.4.5.10 of NFPA Standard No. 58 is amended to read:
6.4.5.10 The minimum separation between LP-Gas containers and liquefied
hydrogen containers shall be in accordance with Chapter 55 of the International Fire Code.
3. Table 6.5.3. Footnote "b" of Table 6.5.3 of NFPA Standard No. 58 is amended to
read:
b. Walls constructed of noncombustible materials having a fire rating of at least one hour as determined by the Building Code.
4. Section 6.6.7.1. Section 6.6.7.1 of NFPA Standard No. 58 is amended to read:
<b>6.6.7.1.</b> Installation of containers on roofs of buildings shall be prohibited.
5. Section 6.6.7.2. Section 6.6.7.2 of NFPA Standard No. 58 is deleted.
6. Section 6.19.11.1. Section 6.19.11.1 of NFPA Standard No. 58 is deleted.
7. Section 6.22.2.1. Section 6.22.2.1 of NFPA Standard No. 58 is amended to read:
6.22.2.1 Electrical equipment and wiring shall be of a type specified by and
shall be installed in accordance with the Minnesota Electrical Code for ordinary locations
except that fixed electrical equipment in classified areas shall comply with Section 6.22.2.2.
8. Section 6.22.2.2. The first sentence of Section 6.22.2.2 of NFPA Standard No. 58
is amended to read:
6.22.2.2 Fixed electrical equipment and wiring installed within the classified
areas specified in Table 6.22.2.2 shall comply with Table 6.22.2.2 and shall be installed in
accordance with the Minnesota Electrical Code.
9. Section 10.2.3. Section 10.2.3 of NFPA Standard No. 58 is amended to read:

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123.1	10.2.3 Structure or buildin	<b>ig heating.</b> Heating	ng shall be by steam	or hot water
123.2	radiation or other heating transfer medium	n with the heat sou	urce located outside	the building
123.3	or structure (see Section 6.20, Ignition Sou	urce Control), or b	by electrical applian	ces listed for
123.4	Class I, Group D, Division 2 locations, in	accordance with	the Minnesota Elec	ctrical Code.
123.5 123.6	7511.7900 AMENDMENTS TO APPE CODE.	NDICES OF IN	TERNATIONAL	FIRE
123.7	Subpart 1. [See repealer.]			
123.8	Subp. 2. IFC Appendix K. The IFC	C is amended by a	dding an Appendix	K to read:
123.9	The provisions contained in this app	endix are not ma	ndatory unless spec	cifically
123.10	referenced in the local adopting ordinand	<i>ce</i> .		
123.11	API	PENDIX K		
123.12	FIRES OR BARBECUES	S ON BALCON	ES OR PATIOS	
123.13	SECTION 1 - OPEN FLAME AND FU	JEL STORAGE	PROHIBITED	
123.14	1.1 Open Flame Prohibited. In any stru	cture containing	three or more dwell	ing units,
123.15	no person shall kindle, maintain, or cause	e any fire or open	flame on any balco	my above
123.16	ground level, or on any ground floor patie	o within 15 feet (4	4572 mm) of the str	ucture.
123.17	1.2 Fuel Storage Prohibited. No person	shall store or use	e any fuel, barbecu	e, torch,
123.18	or other similar heating or lighting chemi	ical or device in t	he locations design	ated in
123.19	Section 1.1.			
123.20	Exception: Listed electric or gas-fire	ed barbecue grills	that are permanent	tly mounted
123.21	and wired or plumbed to the building'	s gas supply or ele	ectrical system and	that maintain
123.22	a minimum clearance of 18 inches (4	457 mm) on all si	des, unless listed for	or lesser
123.23	clearances, may be installed on balco	onies and patios w	when approved by the	ne fire chief.
123.24	Subp. 3. [See repealer.]			
123.25	Subp. 4. [See repealer.]			

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124.1	Subp. 5 IFC Appendix L. T	he IFC is amended by	adding an appendix	to read
124.2	as follows:			
124.3	The provisions contained in the	nis appendix are not me	andatory unless spe	cifically
124.4	referenced in the local adopting or	rdinance.		
124.5		APPENDIX L		
124.6	EMERGENCY I	RESPONDER RADIO	) COVERAGE	
124.7	L101 Emergency responder radi	o coverage in existing	buildings. Existing	g buildings
124.8	that do not have approved radio co	verage for emergency	responders within th	ne building
124.9	based upon the existing coverage l	evels of the public safe	ety communication	systems
124.10	of the jurisdiction at the exterior of	f the building, shall be	equipped with such	coverage
124.11	according to one of the following:			
124.12	1. Whenever an existing wired	d communication system	m cannot be repaire	d or is being
124.13	replaced, or where not approv	red.		
124.14	2. Within a time frame establi	shed by the adopting a	uthority.	
124.15	<b>Exception:</b> Where it is d	letermined by the fire c	ode official that the	radio
124.16	coverage system is not ne	eeded.		
124.17	L102 Emergency responder radi	o coverage in new bui	ldings. All new bui	ldings shall
124.18	have approved radio coverage for e	emergency responders	within the building	based upon
124.19	the existing coverage levels of the	public safety communi-	cation systems of th	e jurisdiction
124.20	at the exterior of the building. This	s section shall not requi	ire improvement of	the existing
124.21	public safety communication syste	ems.		
124.22	Exceptions:			
124.23	1. Where approved by the	e building official and	the fire code official	l, a wired
124.24	communication system in	accordance with Secti	on 907.2.13.2 shall	be permitted
124.25	to be installed or maintain	ned in lieu of an approv	ed radio coverage s	ystem.
124.26	2. Where it is determined	by the fire code officia	l that the radio cove	erage system
124.27	is not needed.			

systems, components, or equipment required could have a negative impact on the 125.2 normal operations of that facility, the fire code official shall have the authority to 125.3 accept an automatically activated emergency responder radio coverage system. 125.4 4. Where it is determined to be unreasonably burdensome to implement an 125.5 approved radio coverage system. 125.6 L103 Permit required. A construction permit for the installation of or modification 1257 to emergency responder radio coverage systems and related equipment is required. 125.8 Maintenance performed in accordance with this code is not considered a modification and 125.9 does not require a permit. 125.10 L104 Technical requirements. Systems, components, and equipment required to provide 125.11 125.12 emergency responder radio coverage system shall comply with Sections L104.1 through L104.2.6. 125.13 L104.1 Radio signal strength. The building shall be considered to have acceptable 125.14 emergency responder radio coverage when signal strength measurements in 95 125.15 percent of all areas on each floor of the building meet the signal strength requirements 125.16 in Sections L104.1.1 and L104.1.2. 125.17 L104.1.1 Minimum signal strength into the building. A minimum signal 125.18 strength of -95 dBm shall be receivable within the building at a hip-worn device. 125.19 125.20 L104.1.2 Minimum signal strength out of the building. A minimum signal strength of -95 dBm shall be received by the agency's radio system when 125.21 transmitted from within the building from a hip-worn device. 125.22 L104.2 System design. The emergency responder radio coverage system shall be 125.23 designed in accordance with Sections L104.2.1 through L104.2.6. 125.24 125.25 L104.2.1 In-building coverage systems allowed. Buildings and structures which cannot support the required level of radio coverage shall be equipped 125.26 with a radiating cable system, a distributed antenna system with Federal 125.27

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3. In facilities where emergency responder radio coverage is required and such

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125.1

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126.1		Communications Commiss	sion (FCC)-certified re	peaters, bi-direction	onal
126.2		amplifiers, picocells or the	ir equivalents, or other	r system approved	by the fire
126.3		code official in order to acl	nieve the required adec	quate radio coverag	ge.
126.4		L104.2.2 Technical criter	ia. The fire code offici	ial shall maintain a	document
126.5		providing the specific techn	nical information and	requirements for th	e emergency
126.6		responder radio coverage s	system. This documen	t shall contain the	various
126.7		frequencies required, the lo	ocation of radio sites, e	effective radiated p	ower of radio
126.8		sites, and other supporting	technical information		
126.9		L104.2.3 Secondary powe	er. Emergency respond	ler radio coverage	systems shall
126.10		be provided with an approv	ved secondary source of	of power. The seco	ndary power
126.11		supply shall be capable of	operating the emergen	cy responder radio	coverage
126.12		system for a period of at le	ast 24 hours. When pr	imary power is los	t, the power
126.13		supply to the emergency re	esponder radio coverag	ge system shall auto	omatically
126.14		transfer to the secondary p	ower supply.		
126.15		L104.2.4 In-building cove	erage system require	ments. If used, in-	building
126.16		coverage systems shall me	et the following requir	ements:	
126.17		1. All in-building cov	erage system compone	ents shall be contai	ined in a
126.18		National Electrical Ma	anufacturer's Associati	on (NEMA) 4-type	e waterproof
126.19		cabinet.			
126.20		2. Battery systems use	ed for the emergency p	ower source shall l	be contained
126.21		in a NEMA 4-type wa	terproof cabinet.		
126.22		3. The in-building cov	verage system and batt	ery system shall be	electrically
126.23		supervised and monito	ored by a supervisory s	service, or when ap	proved by
126.24		the fire code official, s	hall sound an audible	signal at a constant	tly attended
126.25		location.			
126.26		4. Equipment shall ha	ve FCC certification p	rior to installation.	

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127.1	L104.2.5	Additional frequencies and change o	f frequencies. The en	nergency		
127.2	responder radio coverage system shall be capable of modification or expansion in					
127.3	the event :	frequency changes are required by the	FCC or additional free	quencies		
127.4	are made	available by the FCC, or public safety	entities operating in a	given		
127.5	jurisdictio	n make modifications, changes, or upg	rades to their commun	nication		
127.6	system(s)	that change the frequencies such syste	ms utilize.			
127.7	L104.2.6	Availability. The in-building coverage	system, in general, sh	all operate		
127.8	according	to its intended specification with "5-9s	" availability of 99.99	9 percent		
127.9	of each ye	ear; i.e., no critical component of the sy	ystem shall be out of r	normal		
127.10	operation	for more than 5.26 minutes of each ye	ar.			
127.11	L105 Installation	requirements. The installation of the	public safety radio cov	verage		
127.12	system shall be in accordance with Sections L105.1 through L105.5.					
127.13	L105.1 Approval prior to installation. Amplification systems capable of operating					
127.14	on frequencies licensed to any public safety agency by the FCC shall not be installed					
127.15	without prior coordination and approval of the fire code official.					
127.16	L105.2 Minim	num qualifications of personnel. The	minimum qualification	ons of		
127.17	the system designer and lead installation personnel shall include at least one of the					
127.18	following:					
127.19	1. Certific	ation of in-building system training iss	sued by a nationally re	cognized		
127.20	organizati	on or school.				
127.21	2. A certif	ficate issued by the manufacturer of the	equipment being inst	alled.		
127.22	These qualification of the second sec	ations shall not be required where demo	onstration of adequate	skills and		
127.23	experience sati	sfactory to the fire code official is prov	vided.			
127.24	L105.3 Accept	tance test procedure. When an emerg	ency responder radio	coverage		
127.25	system is requi	red, and upon completion of installation	on, the building owner	shall have		
127.26	the radio system	m tested to ensure that two-way covera	ige on each floor of the	e building		
127.27	is a minimum	of 95 percent. The test procedure shall	be conducted as follow	WS:		

03/02/16 REVISOR SS/NB AR4148 1. Each floor of the building shall be divided into a grid of 20 approximately 128.1 equal test areas. 128.2 2. The test shall be conducted using a calibrated handheld or hip-worn device 128.3 of the latest brand and model used by the agency talking through the agency's 128.4 radio communications system. 128.5 3. Failure of a maximum of two nonadjacent test areas shall not result in failure 128.6 of the test 1287 4. In the event that three of the test areas fail the test, in order to be more 128.8 statistically accurate, the floor shall be permitted to be divided into 40 equal test 128.9 areas. Failure of a maximum of four nonadjacent test areas shall not result in 128.10 failure of the test. If the system fails the 40-area test, the system shall be altered 128.11 128.12 to meet the 95 percent coverage requirement. 5. A test location approximately in the center of each test area shall be selected 128 13 for the test, with the radio enabled to verify two-way communications to and from 128.14 the outside of the building through the public agency's radio communications 128.15 system. Once the test location has been selected, that location shall represent the 128.16 entire test area. Failure in the selected test location shall be considered failure of 128.17 that test area. Additional test locations shall not be permitted. 128.18 6. The gain values of all amplifiers, if applicable, shall be measured and the 128.19 128.20 test measurement results shall be kept on file with the building owner so that the measurements can be verified during annual tests. In the event that the 128.21 measurement results become lost, the building owner shall be required to rerun 128.22 the acceptance test to reestablish the gain values. 128.23 7. As part of the installation, a spectrum analyzer or other suitable test equipment 128.24 shall be utilized to ensure spurious oscillations are not being generated by the 128.25 subject in-building coverage system. This test shall be conducted at time of 128.26 installation and subsequent annual inspections. 128.27

03/02/16 REVISOR SS/NB AR4148 8. A test shall be considered a "failure" when a transmission from the test device 129.1 within the building fails to deliver intelligible audio or data to the appropriate 129.2 public safety dispatch center or equivalent as would be expected during normal 129.3 operation; and/or when a transmission from a public safety dispatch center or 129.4 equivalent fails to deliver intelligible audio or data to the test device within the 129.5 building as would be expected during normal operation. 129.6 L105.4 FCC compliance. The emergency responder radio coverage system 1297 installation and components shall also comply with all applicable federal regulations 129.8 including FCC 47 CFR Part 90.219. 129.9 L106 Maintenance. The emergency responder radio coverage system shall be maintained 129.10 operational at all times in accordance with Sections L106.1 through L106.4. 129.11 129.12 L106.1 Testing and proof of compliance. The emergency responder radio coverage system shall be inspected and tested annually or whenever structural changes occur 129.13 including additions or remodels that could materially change the original field 129.14 129.15 performance tests. Testing shall consist of the following: 1. In-building coverage test as described in Section L105.3. 129.16 2. Signal boosters in-building coverage systems shall be tested to ensure that the 129.17 gain is the same as it was upon initial installation and acceptance. 129.18 3. Backup batteries and power supplies shall be tested under load of a period of 129.19 129.20 one hour to verify that they will properly operate during an actual power outage. If, within the one-hour test period, the battery exhibits symptoms of failure, 129.21 the test shall be extended for additional one hour periods until the integrity of 129.22 the battery can be determined. 129.23 4. All other active components shall be checked to verify operation within the 129.24 manufacturer's specifications. 129.25 5. At the conclusion of the testing, a report, which shall verify compliance with 129.26 Section L105.3, shall be submitted to the fire code official. 129.27

L106.2 Additional frequencies. The building owner shall modify or expand the emergency responder radio coverage system at their expense in the event frequency changes are required by the FCC or additional frequencies are made available by the FCC, or public safety entities operating in a given jurisdiction make modifications, changes, or upgrades to their communication system(s) that change the frequencies such systems utilize. Prior approval of a public safety radio coverage system on previous frequencies does not exempt this section.

L106.3 Field testing. Agency personnel shall have the right to enter onto the
property at any reasonable time to conduct field testing to verify the required level
of radio coverage.

130.11 L106.4 Planned outages. Any planned outages of the in-building coverage system,

such as for replacement or upgrade of the system, shall be done with the written

approval of an entity legitimately representing public safety agencies operating within

the jurisdiction, such as a county sheriff.

### 130.15 **7511.8000 PURPOSE AND SCOPE. [RENUMBERED TO PART 7511.8400]**

### 130.16 7511.8010 PRESSURIZED FLAMMABLE GAS. [RENUMBERED TO PART 130.17 7511.8410]

130.18 7511.8020 WARNING SYMBOL REQUIRED. [RENUMBERED TO PART
 130.19 7511.8420]

130.20 **7511.8030 SYMBOL DESIGN. [RENUMBERED TO PART 7511.8430]** 

### 130.21 **7511.8040 SYMBOL PLACEMENT. [RENUMBERED TO PART 7511.8440]**

# 130.22 7511.8100 CHAPTER 81 - ADULT DAY CARE CENTERS, RESIDENTIAL 130.23 HOSPICE FACILITIES AND SUPERVISED LIVING FACILITIES. [MOVED 130.24 FROM PART 7511.4600]

- 130.25 The IFC is amended by adding Chapter 81 to read:
- 130.26 CHAPTER 81

#### 130.27 ADULT DAY CARE CENTERS, RESIDENTIAL HOSPICE FACILITIES

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131.1	AND SUPERVI	SED LIVING FA	ACILITIES	
131.2	SE	ECTION 8101		
131.3		GENERAL		
131.4	8101.1 Requirements. Adult day care	centers, residentia	al hospice facilities an	nd supervised
131.5	living facilities shall meet the requirem	ents of this chap	ter.	
131.6	SE	ECTION 8102		
131.7	ADULT D	AY CARE CEN	TERS	
131.8	8102.1 Classification of adult day can	e centers. Adult	day care centers are	classified
131.9	in accordance with the following and r	nust meet the fire	safety requirements	for the
131.10	designated occupancy classification.			
131.11	8102.1.1 Serving only participan	ts capable of sel	f-preservation. Cent	ers serving
131.12	only participants who are capable of ta	king appropriate	action for self-preserv	vation under
131.13	emergency conditions shall meet all ap	plicable requirem	ents for Group E occ	upancies.
131.14	8102.1.2 Serving only participan	ts not capable o	f self-preservation.	Centers
131.15	serving only participants who are not	capable of taking	appropriate action for	or
131.16	self-preservation under emergency con	ditions shall mee	t all applicable requir	ements for
131.17	Group I-4 occupancies.			
131.18	8102.1.3 Serving both participar	nts capable and	participants not cap	able of
131.19	self-preservation. Centers serving a p	opulation that inc	cludes both participan	its who
131.20	are capable and participants who are n	ot capable of tak	ing appropriate action	1 for
131.21	self-preservation under emergency con	ditions shall mee	t the occupancy requi	irements
131.22	for Group I-4 or Group E occupancies.	In addition to the	e requirements for G	roup E
131.23	occupancies, the center shall meet the	requirements set	forth in Sections 810	2.1.3.1
131.24	through 8102.1.3.4.			
131.25	8102.1.3.1 Population. Not r	more than 50 percent	cent of the center's lic	censed
131.26	capacity shall be made up of participan	ts who are not ca	pable of taking appro	priate action

131.27 for self-preservation under emergency conditions.

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132.1	8102.1.3.2 Location. The cer	nter must be locate	ed on a floor level with	h all exits
132.2	directly to grade without any intervening stairs.			
132.3	8102.1.3.3 Fire alarm and d	etection. The cen	ter shall be protected	with a
132.4	complete automatic fire detection syste	m consisting of au	itomatic smoke detect	tion in all
132.5	corridors and at the top of all stairways	s and automatic de	etection in boiler and	furnace
132.6	rooms, kitchens, storage rooms, custod	ial closets, laundri	es, and other hazardo	us areas. In
132.7	buildings equipped with manual fire ala	arm systems, the n	nanual fire alarm and	automatic
132.8	detection systems shall be electrically	interconnected.		
132.9	8102.1.3.4 Evacuation time. The center shall demonstrate the ability to evacuate			
132.10	the entire population of the center within three minutes.			
132.11	SECTION 8103			
132.12	<b>RESIDENTIAL HOSPICE FACILITIES</b>			
132.13	8103.1 Classification of residential h	ospice facilities. I	Residential hospice fa	cilities
132.14	meeting the fire-protection provisions	of Chapter 32 of the	he National Fire Prote	ection
132.15	Association Standard No. 101 (Quincy	, Massachusetts, 2	000) for impractical e	evacuation
132.16	capabilities shall be classified as Group	R-4 occupancies,	, if serving six to 12 p	ersons, or
132.17	as Group R-3 occupancies, if serving fi	ve or fewer person	ns. For purposes of th	is section,
132.18	Standard No. 101 (2000) Chapter 32	is incorporated by	reference, is not subj	ect to
132.19	frequent change and is available at the	State Law Library	, 25 Rev. Dr. Martin	Luther
132.20	King Jr. Blvd., St. Paul, Minnesota 55	155.		
132.21	SI	ECTION 8104		
132.22	SUPERVISE	D LIVING FACI	LITIES	
132.23	8104.1 Classification of supervised li	ving facilities. Su	pervised living facilit	ties are
132.24	classified in accordance with Chapter 2	and must meet the	e fire safety requirem	ents for
132.25	the designated occupancy classification	1.		
132.26	8104.1.1 Class A-1 supervised liv	r <mark>ing facilities.</mark> Cla	ss A-1 supervised livi	ng facilities
132.27	must meet Group R-3 occupancy requi	rements.		

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133.1 8104.1.2 Class A-2 supervised living facilities. Class A-2 supervised living facilities
133.2 housing not more than 16 persons, excluding staff, must meet Group R-4 occupancy

requirements. Class A-2 supervised living facilities housing more than 16 persons,

133.4 excluding staff, must meet Group I-1 occupancy requirements.

133.5 **8104.1.3 Class B-1 supervised living facilities.** Class B-1 supervised living facilities

meeting the fire-protection provisions of Chapter 32 of the National Fire Protection

133.7 Association Standard No. 101 (Quincy, Massachusetts, 2000) for impractical evacuation

capabilities shall be classified as Group R-3 occupancies. For the purposes of Sections

133.9 8104.1.3 and 8104.1.4, Standard No. 101 (2000) Chapter 32 is incorporated by reference,

133.10 is not subject to frequent change and is available at the State Law Library, 25 Rev. Dr.

133.11 Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

8104.1.4 Class B-2 supervised living facilities. Class B-2 supervised living facilities
meeting the fire-protection provisions of Chapter 32 of the National Fire Protection
Association Standard No. 101 (Quincy, Massachusetts, 2000) for impractical evacuation
capabilities shall be classified as Group R-4 occupancies.

133.16 8104.1.5 Class B-3 supervised living facilities. Class B-3 supervised living facilities
133.17 must meet Group I-2 occupancy requirements.

### 133.18 7511.8400 PURPOSE AND SCOPE. [RENUMBERED FROM PART 7511.8000]

Subpart 1. **Purpose.** The purpose of parts 7511.8400 to 7511.8440 is to prescribe the standard abbreviation and symbol required to be displayed on the exterior of any vehicle carrying liquefied petroleum gas fuel or natural gas in a concealed tank.

133.22 Subp. 2. **Scope.** The scope of parts 7511.8400 to 7511.8440 is intended to be 133.23 consistent with Minnesota Statutes, section 169.762.

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134.1 134.2	7511.8410 PRESSURIZED FLAMMA 7511.8010]	BLE GAS. [RENUM	IBERED FROM I	PART
134.3	"Pressurized flammable gas" include	es liquefied petroleum	gas, compressed na	atural
134.4	gas, and liquefied natural gas.			
134.5 134.6	7511.8420 WARNING SYMBOL REQ 7511.8020]	UIRED. [RENUMB	ERED FROM PA	RT
134.7	The marking required by Minnesota	Statutes, section 169.	762, must be displa	yed on
134.8	the exterior of a vehicle carrying pressur	ized flammable gas in	a concealed area, w	vhether
134.9	the gas is the primary fuel or secondary	fuel.		
134.10	7511.8430 SYMBOL DESIGN. [REN	UMBERED FROM F	PART 7511.8030]	

134.11 Subpart 1. Design. The required warning symbol must be of a design illustrated134.12 as follows:



Compressed natural gas



Liquefied petroleum gas



Liquefied natural gas

134.13 Subp. 2. Specifications. The following specifications apply to each of the warning134.14 symbols:

134.15 A. The symbol must be diamond-shaped, 2-1/2 inches in height, and four inches 134.16 in width at its highest and widest points respectively.

B. The letters and border must be silver in color.

134.18 C. The background must be black in color.

D. The letters within the symbol must be a minimum of one inch in height.

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135.1	E. The entire symbol	, including letters, backgro	und, and border, n	nust be made
135.2	of reflectorized material and no	t fade or wash away when	exposed to weather	er or other

135.3 adverse elements.

#### 135.4 **7511.8440 SYMBOL PLACEMENT.** [MOVED FROM PART 7511.8040]

A minimum of two warning symbols is required to be displayed. The warning symbols must be displayed in the places specified in item A. If the symbols cannot be clearly displayed or effectively applied to those locations they may be displayed in the places specified in item B. Display at least two symbols as follows:

A. one warning symbol on the extreme left (driver's) side of the rear-facing portion of the rear bumper, and one warning symbol on the extreme right (passenger) side of the front-facing portion of the front bumper; or

B. one warning symbol at least 12 inches but not more than 30 inches above the ground on the rear of the vehicle near the left (driver's) side and one warning symbol at least 12 inches but not more than 30 inches above the ground on the front of the vehicle near the right (passenger) side.

REPEALER. Minnesota Rules, parts 7511.0090, subpart 2; 7511.0106; 7511.0607;
7511.0610; 7511.0704; 7511.0705; 7511.0903, subpart 8; 7511.0907, subparts 1, 12, 14,
16, 17, 18, 19, 20, 21, 22, 23, and 24; 7511.0909, subpart 1; 7511.1002; 7511.1019;
7511.1026; 7511.1027; 7511.2703, subpart 1; 7511.3401; 7511.3402; 7511.3405;

135.20 7511.3800; 7511.4500; and 7511.7900, subparts 1, 3, and 4, are repealed.