

1.1 **Department of Labor and Industry**

1.2 **Proposed Permanent Rules Relating to Changes to the Fire Code**

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

1.4 Subpart 1. **International Fire Code.** For purposes of this chapter, "IFC" means the
 1.5 ~~2012~~ 2018 edition of the International Fire Code as promulgated by the International Code
 1.6 Council, Inc., Washington, D.C. The IFC is incorporated by reference and made a part of
 1.7 Minnesota Rules pursuant to statutory authority, subject to the alterations and amendments
 1.8 in this chapter. Portions of this chapter reproduce text and tables from the IFC. The IFC is
 1.9 not subject to frequent change and is available at the office of the commissioner of the
 1.10 Department of Labor and Industry and at the State Law Library, 25 Rev. Dr. Martin Luther
 1.11 King Jr. Blvd., St. Paul, Minnesota 55155. The IFC is copyright ~~2011~~ 2017 by the
 1.12 International Code Council, Inc. All rights reserved.

1.13 Subp. 2. [Repealed, 40 SR 1437]

1.14 **7511.0102 SECTION 102, APPLICABILITY.**

1.15 *[For text of subpart 1, see Minnesota Rules]*

1.16 Subp. 2. **IFC section 102.2.** IFC section 102.2 is amended by adding a section to read:

1.17 **102.2.1 Operational provisions - defined.** The operational provisions of this code are
 1.18 those operations defined in Sections 105.6.1 through ~~105.6.46~~ 105.6.50.

1.19 Subp. 3. **IFC section 102.7.3.** IFC section 102.7 is amended by adding a section to
 1.20 read:

1.21 **102.7.3 References to ICC codes.** The references to the codes and standards
 1.22 promulgated by the International Code Council (listed under ICC in Chapter 80) are
 1.23 modified as follows:

- 2.1 1. Wherever this code references the ICC Electrical Code, it means the Electrical
2.2 Code, Minnesota Rules, chapter 1315.
- 2.3 2. Wherever this code references the International Building Code, it means the
2.4 Minnesota ~~State~~ Building Code, Minnesota Rules, chapter 1305. ~~adopted pursuant~~
2.5 ~~to Minnesota Statutes, section 326B.106, subdivision 1.~~
- 2.6 3. Wherever this code references the International Fuel Gas Code, it means the
2.7 Minnesota ~~State~~ Mechanical Code, Minnesota Rules, chapter 1346. ~~adopted~~
2.8 ~~pursuant to Minnesota Statutes, section 326B.106.~~
- 2.9 4. Wherever this code references the International Mechanical Code, it means the
2.10 Minnesota ~~State~~ Mechanical Code, Minnesota Rules, chapter 1346. ~~adopted~~
2.11 ~~pursuant to Minnesota Statutes, section 326B.106.~~
- 2.12 5. Wherever this code references the International Plumbing Code, it means the
2.13 Minnesota Plumbing Code, Minnesota Rules, chapter 4714.
- 2.14 6. Wherever this code references the International Residential Code, it means the
2.15 Minnesota Residential Code, Minnesota Rules, chapter 1309. ~~adopted pursuant to~~
2.16 ~~Minnesota Statutes, section 326B.106, subdivision 1.~~
- 2.17 7. Wherever this code references the International Existing Building Code, it means
2.18 the Minnesota Conservation Code for Existing Buildings, Minnesota Rules, chapter
2.19 1311. ~~adopted pursuant to Minnesota Statutes, section 326B.106, subdivision 1.~~

2.20 Subp. 4. **IFC section 102.** IFC section 102 is amended by adding sections to read:

2.21 **102.13 Standards for existing Group I occupancies.** The provisions of protection in
2.22 existing Group I-2 occupancies, and in existing Group I-3 occupancies used as detention
2.23 and correctional facilities, shall be in accordance with the applicable provisions of the Life
2.24 Safety Code, ANSI/NFPA 101, referred to as Standard No. 101, published by the National
2.25 Fire Protection Association (Quincy, Massachusetts, ~~2000~~ 2012). Standard No. 101 is

3.1 incorporated by reference, is not subject to frequent change and is available at the State
3.2 Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

3.3 Construction provisions of Standard No. 101 that are more restrictive than those found in
3.4 the Building Code shall not be applicable. For the purposes of Section 102.13, construction
3.5 provisions shall include those relating to type of construction, automatic fire-extinguishing
3.6 and standpipe systems, fire alarm and detection systems, vertical opening protection, escape
3.7 windows, exits, smoke barriers, accessibility for persons with disabilities, and hazardous
3.8 area separations.

3.9 **102.13.1 Standard 101 modified.** Sections 23.3.7 through 23.3.7.3 of Standard No.
3.10 101 are deleted.

3.11 **102.14 Mixed occupancies.** Where a building is occupied for two or more uses not included
3.12 in the same occupancy, the building or portion thereof shall be classified as a mixed
3.13 occupancy. The mixed occupancy shall be further classified as either nonseparated uses or
3.14 separated uses according to the Building Code. Areas of Group H shall only be as separated
3.15 uses as permitted by the Building Code.

3.16 **102.14.1 Separated uses.** Each portion of the building shall be individually classified
3.17 as to use. Each fire area shall comply with the Fire Code based on the use of that space.
3.18 Provisions for egress between different occupancies shall be in accordance with Chapter
3.19 10.

3.20 **102.14.2 Nonseparated uses.** Each portion of the building shall be individually
3.21 classified as to use. The most restrictive provisions of the Fire Code shall apply to the
3.22 nonseparated uses. Provisions for egress between different occupancies shall be in
3.23 accordance with Chapter 10.

3.24 **7511.0105 SECTION 105, PERMITS.**

3.25 IFC section ~~105.7.13~~ 105.7.21 is deleted.

4.1 **7511.0108 [Renumbered 7511.0109]**

4.2 **~~7511.0108~~ 7511.0109 SECTION ~~108~~ 109, BOARD OF APPEALS.**

4.3 Subpart 1. **IFC section ~~108.1~~ 109.1**. IFC section ~~108.1~~ 109.1 is amended to read:

4.4 **SECTION ~~108~~ 109**

4.5 **APPEALS**

4.6 **~~108.1~~ 109.1 Appeals to state fire marshal.** As outlined in Minnesota Statutes, section
4.7 299F.011, subdivisions 5 and 5b, any person may appeal an order issued to them by the
4.8 state fire marshal or action taken by the local governing body on issues regulated by this
4.9 code. Appeals can be made to determine the suitability of alternate materials and types of
4.10 construction, to provide for reasonable interpretations of the provisions of this code, and to
4.11 grant variances from orders issued by representatives of the state fire marshal. Persons
4.12 wishing to present matters for appeal shall do so in writing and, in the case of persons who
4.13 have received written orders, applications for variances shall be made prior to the expiration
4.14 of the orders. Orders shall not be considered to be expired until any time extensions granted
4.15 by the state fire marshal have elapsed. The state fire marshal shall not accept applications
4.16 for variances after criminal action for noncompliance has been initiated pursuant to Minnesota
4.17 Statutes, section 299F.011, subdivision 6.

4.18 Subp. 2. **IFC sections ~~108.2 and 108.3~~ 109.2 and 109.3**. IFC sections ~~108.2 and~~
4.19 ~~108.3~~ 109.2 and 109.3 are deleted.

4.20 **7511.0109 [Renumbered 7511.0110]**

4.21 **~~7511.0109~~ 7511.0110 SECTION ~~109~~ 110, VIOLATIONS.**

4.22 IFC section ~~109.4~~ 110.4 is amended to read:

4.23 **~~109.4~~ 110.4 Violation penalties.** A person who violates a provision of this code shall be
4.24 guilty of a misdemeanor.

5.1 (Subsection 110.4.1 remains unchanged.)

5.2 **7511.0201 SECTION 201, GENERAL.**

5.3 IFC section 201.4 is amended to read:

5.4 **201.4 Terms not defined.** When terms are not defined, they shall have their ordinary
5.5 accepted meanings within the context with which they are used. The Merriam-Webster
5.6 Collegiate Dictionary, available on the Internet at ~~www.m-w.com~~
5.7 www.merriam-webster.com, shall be considered as providing ordinarily accepted meanings.
5.8 The dictionary is incorporated by reference, is subject to frequent change, and is available
5.9 through the Minitex interlibrary loan system.

5.10 **7511.0202 SECTION 202, GENERAL DEFINITIONS.**

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

5.12 **ADULT DAY CARE CENTER OR ADULT DAY SERVICES CENTER.** A facility,
5.13 licensed by the Department of Human Services under Minnesota Rules, parts 9555.9600 to
5.14 9555.9730, that provides a program of adult day care services to functionally impaired
5.15 adults for periods of less than 24 hours per day in a setting other than a participant's home
5.16 or the residence of the facility's operator.

5.17 **AERIAL LUMINARIES.** Aerial luminaries, sky lanterns, and similar devices are an
5.18 unmanned type of balloon made from lightweight materials, which require a flame, candle,
5.19 fuel cell, or other open flame to develop lift and propel them. When released, there is no
5.20 way to control the flight path, altitude, or landing area.

5.21 **AMBULATORY CARE FACILITY.** Buildings or portions of buildings used to provide
5.22 medical, surgical, psychiatric, nursing, or similar care on a less than 24-hour basis to
5.23 individuals who are rendered incapable of self-preservation by the services provided. For
5.24 the purposes of this chapter, federally certified end-stage renal disease facilities (kidney

6.1 dialysis facilities) located on the level of exit discharge shall not be considered ambulatory
6.2 care facilities.

6.3 **AISLE.** That portion of an exit that connects an aisle accessway to an exit access doorway,
6.4 corridor, or an exit.

6.5 **APPROVED.** "Approved" means approval by the fire code official, pursuant to the
6.6 Minnesota State Fire Code, by reason of:

6.7 A. inspection, investigation, or testing;

6.8 B. accepted principles;

6.9 C. computer simulations;

6.10 D. research reports; or

6.11 E. testing performed by either a licensed engineer or by a locally or nationally recognized
6.12 testing laboratory.

6.13 **AUTHORITY HAVING JURISDICTION.** Any municipal fire code official serving
6.14 within their appointed jurisdiction or the state fire marshal or any of their authorized
6.15 representatives.

6.16 **AUTOMOTIVE MOTOR FUEL-DISPENSING FACILITY.** That portion of property
6.17 where flammable or combustible liquids or gases used as motor fuels are stored and dispensed
6.18 from fixed equipment into the fuel tanks of motor vehicles. For purposes of this definition,
6.19 a motor vehicle is any self-propelled vehicle that: (1) conveys an operator, such as an
6.20 automobile, truck, motorcycle, recreational vehicle, camper, all-terrain vehicle, snowmobile,
6.21 lawn care vehicle, tractor, or dozer; and (2) is used for personal, commercial, recreational,
6.22 maintenance, or construction purposes.

6.23 **BUILDING CODE.** The Minnesota State Building Code, Minnesota Rules, chapter 1305.
6.24 ~~adopted pursuant to Minnesota Statutes, section 326B.106, subdivision 1.~~

7.1 **CARE FACILITY.** Occupancies used as care facilities shall be classified into the occupancy
 7.2 group category identified in the following table.

7.3 **Table 202.1**

7.4 **Care Facility Classifications**

7.5 7.6 7.7	Type of Licensed Facility	Number or Type of Residents <u>Care Recipients</u>	IBC Occupancy Classification
7.8 7.9	Child Care (Day Family Child Care Home Care)	10 occupants maximum with ≤ 6 below school age ¹	R-3 Dwelling Unit
7.10 7.11	Group Child Care Home < 24 hours per day	11-14 occupants maximum	R-3 Dwelling Unit
7.12 7.13 7.14 7.15	Child Care Center < 24 hours per day	> 5 but ≤ 100 children ≤ 2.5 years of age and each room at, and with, an exit at the level of exit discharge	E
7.16 7.17	Child Care Center < 24 hours per day	More than 5 children > 2.5 years of age	E
7.18 7.19 7.20	Child Care Center < 24 hours per day	More than 5 children ≤ 2.5 years of age <u>and not classified as E</u>	I-4
7.21 7.22 7.23	Adult Day Care Family Adult Day Services (Day Services) <u>(located in caregiver's primary residence)</u>	≤ 8 impaired adults <u>care recipients age 13 and older</u>	R-3 Dwelling Unit
7.24 7.25 7.26 7.27 7.28	Adult Day Care <u>Services</u> Center < 24 hours per day	6 or more occupants <u>care recipients, age 13 and older, all may or may not be capable of self-preservation without assistance</u>	I-4 <u>Unless meets criteria for E below</u>
7.29 7.30 7.31 7.32 7.33	Adult Day Care <u>Services</u> Center < 24 hours per day	6 or more occupants, but having no more than 50 percent of the occupants who are not <u>care recipients, age 13 and older, all capable of</u>	E

8.1			<u>self-preservation without</u>	
8.2			<u>assistance</u>	
8.3		<u>Adult Day Services Center</u>	<u>6 or more care recipients, age</u>	<u>I-4</u>
8.4		<u>< 24 hours per day</u>	<u>13 and older, where at least</u>	<u>E if meets all</u>
8.5			<u>one care recipient but no</u>	<u>conditions for</u>
8.6			<u>more than 50 percent of the</u>	<u>classification</u>
8.7			<u>care recipients require</u>	<u>as E under</u>
8.8			<u>assistance for</u>	<u>definition of</u>
8.9			<u>self-preservation</u>	<u>Occupancy</u>
8.10				<u>Classification,</u>
8.11				<u>Classification</u>
8.12				<u>as Group E</u>
8.13		<u>Day Training and</u>	<u>Program participants age 13</u>	<u>Classified by</u>
8.14		<u>Habilitation</u>	<u>and older</u>	<u>primary</u>
8.15				<u>use/training</u>
8.16				<u>function</u>
8.17	Supervised	Class A-1	6 or fewer residents; all of	R-3
8.18	Living Facilities		whom are capable of	Dwelling Unit
8.19			<u>self-preservation without</u>	
8.20			<u>assistance</u>	
8.21		Class A-2	7 to 16 residents; all of	R-4 <u>Condition</u>
8.22			whom are capable of	<u>1</u>
8.23			<u>self-preservation without</u>	
8.24			<u>assistance</u>	
8.25		Class A-2	More than 16 residents; all	I-1 <u>Condition</u>
8.26			of whom are capable of	<u>1</u>
8.27			<u>self-preservation without</u>	
8.28			<u>assistance</u>	
8.29		Class B-1	6 or fewer residents; all of	R-3
8.30			whom may not be capable of	
8.31			<u>self-preservation without</u>	
8.32			<u>assistance</u>	
8.33		Class B-2	7 to 16 residents; all of	R-4 <u>Condition</u>
8.34			whom may not be capable of	<u>2</u>
8.35			<u>of which some may require</u>	
8.36			<u>limited assistance for</u>	
8.37			<u>self-preservation</u>	
8.38		Class B-3	More than 16 residents; all	I-2 <u>Condition</u>
8.39			of whom may not be capable	<u>1</u>

9.1			of self-preservation <u>without</u>	
9.2			<u>assistance</u>	
9.3	Hospice	Residential Hospice Facility	1-5 terminally ill persons	R-3
9.4		Residential Hospice Facility	6-12 terminally ill persons	R-4 <u>Condition</u>
9.5				<u>2</u>
9.6	Adult Foster	Adult Foster Care Home	1-5 impaired adults	R-3
9.7	Care			Dwelling Unit
9.8	Child Foster	Foster Care	1-6 foster children without	R-3
9.9	Care		severe disability or assisted	Dwelling Unit
9.10			medical technology	
9.11		Foster Care	1-4 foster children with	R-3
9.12			medical or special care	Dwelling Unit
9.13			services	
9.14	Housing with	Housing with Services	1-5 adult residents \geq 80	R-3
9.15	Services	Establishment	percent 55 years of age or	Dwelling Unit
9.16	Facility	Housing with Services	older unless registered under	
9.17	<u>Establishment</u>	Establishment Providing	MN Statutes, section	
9.18		Assisted Living Services	144D.025	
9.19		Housing with Services	6-16 adult residents \geq 80	R-4 <u>Condition</u>
9.20		Establishment	percent 55 years of age or	<u>2</u>
9.21		Housing with Services	older unless registered under	
9.22		Establishment Providing	MN Statutes, section	
9.23		Assisted Living Services	144D.025	
9.24		Housing with Services	> 16 adult residents \geq 80	I-1 <u>Condition</u>
9.25		Establishment	percent 55 years of age or	<u>2</u>
9.26		Housing with Services	older unless registered under	
9.27		Establishment Providing	MN Statutes, section	
9.28		Assisted Living Services	144D.025	
9.29	Boarding Care	Boarding Care Home	$\leq \leq$ 5 residents	R-3
9.30				Dwelling Unit
9.31		Boarding Care Home	6-16 residents <u>all of whom</u>	R-4 <u>Condition</u>
9.32			<u>are capable of</u>	<u>1</u>
9.33			<u>self-preservation without</u>	
9.34			<u>assistance</u>	

10.1		Boarding Care Home	> 16 residents <u>all of whom</u>	I-1 <u>Condition</u>
10.2			<u>are capable of</u>	<u>1</u>
10.3			<u>self-preservation without</u>	
10.4			<u>assistance</u>	
10.5	Boarding and Lodging	Boarding and Lodging	≤ 16 residents in sleeping rooms or ≤ 2 dwelling units <u>in one building</u>	R-3
10.6				
10.7				
10.8		Boarding and Lodging	> 16 residents in sleeping rooms or > 2 dwelling units <u>< in one building all of</u>	R-2
10.9			<u>whom are capable of</u>	
10.10			<u>self-preservation without</u>	
10.11			<u>assistance</u>	
10.12				
10.13				
10.14		Boarding and Lodging	Bed and Breakfast Lodging	R-1
10.15		< 30 days	<u>facilities</u> with 6 or more	
10.16			sleeping units	
10.17			Boarding houses with > 10	
10.18			occupants	
10.19		Boarding and Lodging	Bed and Breakfast Lodging	R-3
10.20		< 30 days	<u>facilities</u> with 5 or fewer	Dwelling Unit
10.21			sleeping units	
10.22			Boarding houses with ≤ 10	
10.23			occupants	
10.24	Senior Housing	Senior Housing (See IBC	More than 2 dwelling units	R-2
10.25		310)	in one building	
10.26		Senior Housing (See IBC	2 family dwelling units in	R-3
10.27		310)	one building	
10.28		Senior Housing (See IBC	1 dwelling unit	R-3
10.29		310)		Dwelling Unit
10.30	Congregate Residence	Congregate Residence	≤ 16 residents	R-3
10.31				
10.32		Congregate Residence	17 or more residents	R-2
10.33	Day Services	Day Services Facility	Adult (over 18)	I-4
10.34		Day Services Facility	Ages 13-18	I-4

11.1	Chemical	Chemical Dependency and	Not regulated	B
11.2	Dependency	<u>Mental Health Treatment</u>		
11.3	and Mental	<u>Program Programs -</u>		
11.4	<u>Health</u>	Outpatient (< 24 hrs.)		
11.5	Treatment			
11.6	Programs			
11.7		Chemical Dependency and	<= 5 residents	R-3
11.8		<u>Mental Health Treatment</u>		Dwelling Unit
11.9		<u>Program Programs -</u>		
11.10		Residential		
11.11		Chemical Dependency and	6-16 residents <u>all of whom</u>	R-4 <u>Condition</u>
11.12		<u>Mental Health Treatment</u>	<u>may not be capable of</u>	<u>2</u>
11.13		<u>Program Programs -</u>	<u>self-preservation without</u>	
11.14		Residential	<u>assistance</u>	
11.15		Chemical Dependency and	> 16 residents <u>all of whom</u>	I-1 <u>Condition</u>
11.16		<u>Mental Health Treatment</u>	<u>may not be capable of</u>	<u>2</u>
11.17		<u>Program Programs -</u>	<u>self-preservation without</u>	
11.18		Residential	<u>assistance</u>	
11.19	<u>Ambulatory</u>	<u>Nursing and medical care for</u>	<u>Includes skilled medical care,</u>	<u>B</u>
11.20	<u>Care Facility</u>	<u>< 24 hours</u>	<u>emergency care, surgery,</u>	
11.21			<u>obstetrics, or patient</u>	
11.22			<u>stabilization for psychiatric</u>	
11.23			<u>or detox</u>	
11.24	<u>Nursing Home</u>	<u>Nursing and medical care for</u>	<u>Does NOT include:</u>	<u>I-2 Condition</u>
11.25		<u>> 24 hours</u>	<u>emergency care, surgery,</u>	<u>1</u>
11.26			<u>obstetrics, or in-patient</u>	
11.27			<u>stabilization for psychiatric</u>	
11.28			<u>or detox</u>	
11.29	<u>Hospital</u>	<u>Nursing and medical care for</u>	<u>Includes skilled medical care,</u>	<u>I-2 Condition</u>
11.30		<u>> 24 hours</u>	<u>emergency care, surgery,</u>	<u>2</u>
11.31			<u>obstetrics, or in-patient</u>	
11.32			<u>stabilization for psychiatric</u>	
11.33			<u>or detox</u>	
11.34		<u>¹ "School age" means the age of a "school-age child" as defined in Minnesota Statutes</u>		
11.35		<u>2018, section 245A.02, subdivision 16.</u>		
11.36	CHIEF.	See FIRE CHIEF.		

12.1 **CORRIDOR.** An interior passageway having a length at least three times its width, having
12.2 walls, partitions, or other obstructions to exit travel over 6 feet (1,829 mm) in height on two
12.3 opposing sides and having openings from rooms or similar spaces.

12.4 **DECORATIVE MATERIALS.** Combustible materials used for decorative effects such
12.5 as curtains; draperies; streamers; surface coverings applied over building interior finishes
12.6 for decorative, acoustical, or other effect; cloth; cotton batting; paper; plastics; vegetation;
12.7 hay; split bamboo; straw; vines; leaves; trees; moss; and similar materials used for decorative
12.8 effect. Decorative materials do not include educational materials that are displayed in an
12.9 approved manner, ordinary window shades, floor coverings, interior finish materials used
12.10 as surface coverings (See Chapter 8 for regulations of such materials) and materials 1/28
12.11 inch (0.9 mm) or less in thickness applied directly to a noncombustible backing.

12.12 **FAMILY ADULT DAY SERVICES.** A program providing services for up to eight
12.13 functionally impaired adults for less than 24 hours per day in the license holder's primary
12.14 residence in accordance with Minnesota Statutes, section 245A.143. This includes programs
12.15 located in residences licensed by the Department of Human Services for adult foster care,
12.16 provided not more than eight adults, excluding staff, are present in the residence at any time.

12.17 **FAMILY DAY CARE HOME.** A residence, licensed by the Department of Human Services
12.18 under Minnesota Rules, parts 9502.0315 to 9502.0445, in which no more than ten children
12.19 at any one time receive care, maintenance, and supervision by other than their relatives or
12.20 legal guardians for less than 24 hours per day.

12.21 **FIRE CHIEF.** The chief officer of the fire department serving the jurisdiction or the chief's
12.22 authorized representatives.

12.23 **FIRE CODE OFFICIAL.** The state fire marshal, the state fire marshal's authorized
12.24 representative, fire chief, fire department representatives authorized by the fire chief, or
12.25 other authority specifically designated by ordinance or regulation that is charged with the
12.26 administration and enforcement of the code. The appointing authority shall ensure that the

13.1 fire code official is competent by virtue of certification as a fire inspector, training, or
13.2 experience in fire prevention inspections and enforcement.

13.3 **FIRE DEPARTMENT.** A regularly organized fire department, fire protection district, or
13.4 fire company regularly charged with the responsibility of providing firefighting or fire
13.5 protection services to the state or a political subdivision.

13.6 **FLEET VEHICLE MOTOR FUEL-DISPENSING FACILITY.** That portion of a
13.7 commercial, industrial, governmental, or manufacturing property where liquids used as
13.8 fuels are stored and dispensed into the fuel tanks of motor vehicles that are used in connection
13.9 with such businesses, by persons within the employ of such businesses. For purposes of
13.10 this definition, a motor vehicle is any self-propelled vehicle that: (1) conveys an operator,
13.11 such as an automobile, truck, motorcycle, recreational vehicle, camper, all-terrain vehicle,
13.12 snowmobile, lawn care vehicle, tractor, or dozer; and (2) is used for personal, commercial,
13.13 recreational, maintenance, or construction purposes.

13.14 **GENERAL EVACUATION SIGNAL.** "General evacuation signal" means a fire alarm
13.15 occupant notification system in accordance with Section 907.5.

13.16 **GROUP DAY CARE HOME.** A residence, licensed by the Department of Human Services
13.17 under Minnesota Rules, parts 9502.0315 to 9502.0445, in which at least 11 but not more
13.18 than 14 children receive care, maintenance, and supervision by other than their relatives or
13.19 legal guardians for less than 24 hours per day.

13.20 **GUEST ROOM.** A room or a group of rooms used or intended to be used for purposes of
13.21 lodging by guests.

13.22 **INTERMEDIATE BULK CONTAINER.** A storage container meeting the requirements
13.23 of and containing products authorized by the United States Department of Transportation
13.24 Hazardous Materials Regulations, Code of Federal Regulations, title 49, or by Part 6 of the

14.1 United Nations Recommendations on the Transport of Dangerous Goods for classes 31H1,
14.2 31H2, and 31HZ1.

14.3 **INTERNATIONAL BUILDING CODE (IBC).** The Minnesota Building Code, Minnesota
14.4 Rules, chapter 1305.

14.5 **INTERNATIONAL FUEL GAS CODE.** The Minnesota Mechanical Code, Minnesota
14.6 Rules, parts 1346.5050 to 1346.6014.

14.7 **INTERNATIONAL MECHANICAL CODE.** The Minnesota Mechanical Code, Minnesota
14.8 Rules, parts 1346.0050 to 1346.1606.

14.9 **INTERNATIONAL RESIDENTIAL CODE (IRC).** The Minnesota Residential Code,
14.10 Minnesota Rules, chapter 1309.

14.11 **MECHANICAL CODE.** The Minnesota State Mechanical Code, Minnesota Rules, parts
14.12 1346.0050 to 1346.1606. ~~as adopted pursuant to Minnesota Statutes, section 326B.106.~~

14.13 **MINNESOTA BUILDING CODE.** Minnesota Rules, chapter 1305.

14.14 **MINNESOTA MECHANICAL CODE.** Minnesota Rules, parts 1346.0050 to 1346.1606.

14.15 **MINNESOTA RESIDENTIAL CODE.** Minnesota Rules, chapter 1309.

14.16 **MUNICIPALITY.** Any statutory or home rule charter city, county₂ or town meeting the
14.17 requirements of Minnesota Statutes, section 368.01, subdivision 1, the University of
14.18 Minnesota, or the state for public buildings.

14.19 **NFPA.** National Fire Protection Association.

14.20 **OCCUPANCY CLASSIFICATION.** Except as modified by this part, for the purposes of
14.21 this code, certain occupancies and uses are defined. All other subdefinitions in the IFC
14.22 definition of "occupancy classification" that are not modified in this definition still apply:

14.23 **Institutional Group I.**

15.1 **Group I-1.** This occupancy shall include buildings, structures, or portions thereof for
15.2 more than ~~sixteen~~ 16 persons who reside, on a 24-hour basis, in a supervised
15.3 environment and receive custodial care services. Examples of this group include the
15.4 following:

15.5 Alcohol and drug centers

15.6 Assisted living ~~services~~

15.7 Boarding care homes

15.8 Congregate care facilities

15.9 Convalescent facilities

15.10 Group homes

15.11 Halfway houses

15.12 Housing with services establishment

15.13 Residential board and care facilities

15.14 Social rehabilitation facilities

15.15 Supervised living facilities Class A-2

15.16 **Occupancy conditions.** Buildings of Group I-1 shall be classified as one of the
15.17 following conditions:

15.18 **Condition 1.** This occupancy condition includes buildings in which all persons
15.19 receiving custodial care, without any assistance, are capable of responding to an
15.20 emergency situation to complete building evacuation.

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

16.1 ~~A facility such as the above with five or fewer persons receiving such care shall~~
 16.2 ~~be classified as Group R-3.~~

16.3 **Six to 16 persons receiving custodial care.** A facility such as the above housing
 16.4 at least six and not more than sixteen 16 persons receiving such custodial care, all
 16.5 of whom are capable of self-preservation shall be classified as Group R-4, Condition
 16.6 1.

16.7 **Five or fewer persons receiving custodial care.** A facility with five or fewer
 16.8 persons receiving custodial care shall be classified as Group R-3.

16.9 **Group I-2.** This occupancy shall include buildings and structures used for medical
 16.10 care on a 24-hour basis for more than five persons who are incapable of
 16.11 self-preservation. Examples of this group include the following:

- 16.12 Detoxification facilities
- 16.13 Foster care facilities
- 16.14 Hospitals
- 16.15 Nursing homes
- 16.16 Psychiatric hospitals
- 16.17 Supervised living facilities Class B-3

16.18 **Occupancy conditions.** Buildings of Group I-2 shall be classified as one of the
 16.19 following occupancy conditions:

16.20 **Condition 1.** This occupancy condition includes facilities that provide nursing
 16.21 and medical care but do not provide emergency care, surgery, obstetrics, or
 16.22 in-patient stabilization units for psychiatric or detoxification, including but not
 16.23 limited to nursing homes and foster care facilities.

17.1 **Condition 2.** This occupancy condition includes facilities that provide nursing
 17.2 and medical care and could provide emergency care, surgery, obstetrics, or
 17.3 in-patient stabilization units for psychiatric or detoxification, including but not
 17.4 limited to hospitals.

17.5 **Five or fewer persons receiving care.** A facility ~~such as the above~~ with five or
 17.6 fewer persons receiving care consistent with Group I-2 occupancies shall be
 17.7 classified as Group R-3.

17.8 **Group I-4, Day care and day services facilities.** This group ~~shall include~~ includes
 17.9 buildings and structures occupied by more than five persons of any age who receive
 17.10 custodial care for less than 24 hours per day by persons other than parents or guardians,
 17.11 relatives by blood, marriage, or adoption, and in a place other than the home of the
 17.12 person receiving care. This group shall include, but not be limited to, the following:

17.13 Adult day ~~care~~ services

17.14 Child day care

17.15 **Classification as Group E.** ~~A child day care facility that provides care for more than~~
 17.16 ~~five but no more than 100 children 2-1/2 years or less of age, where the rooms in which~~
 17.17 ~~the children are cared for are located on a level of exit discharge serving such rooms~~
 17.18 ~~and each of these child care rooms has an exit door directly to the exterior, shall be~~
 17.19 ~~classified as Group E.~~ Day care and day services uses are classified as Group E
 17.20 occupancies in accordance with the following:

17.21 **Adult day services centers serving only persons capable of self-preservation.**
 17.22 Adult day services centers serving only persons who, without assistance, are capable
 17.23 of self-preservation under emergency conditions are classified as Group E.

18.1 **Adult day services centers serving both persons capable and persons not**
18.2 **capable of self-preservation.** Adult day services centers are classified as Group
18.3 E where all of the following conditions apply.

18.4 1. At least one person served but not more than 50 percent of persons served
18.5 require assistance with self-preservation under emergency conditions.

18.6 2. The rooms in which the adults are cared for are located on the level of exit
18.7 discharge serving such rooms, with all exits discharging directly to grade
18.8 without intervening stairs. Each exit discharge shall provide an accessible
18.9 route, without stairs, to the public way or safe dispersal area in accordance
18.10 with the exception to Section 1028.5.

18.11 3. The day services center is protected with an automatic fire alarm system
18.12 consisting of automatic smoke detection in all corridors and at the top of all
18.13 stairways, and automatic fire detection in boiler and furnace rooms, kitchens,
18.14 storage rooms, custodial closets, laundry and soiled linen rooms, and other
18.15 hazardous areas.

18.16 4. The center shall demonstrate the ability to evacuate the entire population
18.17 of the center within three minutes.

18.18 **Child day care.** A child day care facility shall be classified as Group E where all
18.19 of the following conditions apply:

18.20 1. The facility provides care for more than five but not more than 100 children
18.21 2-1/2 years or less of age.

18.22 2. The rooms in which the children are cared for are located on the level of
18.23 exit discharge serving such rooms.

18.24 3. Each room providing day care has an exit door directly to the exterior.

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

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

19.6 **Five or fewer occupants receiving care in a dwelling unit.** ~~A facility such as~~
 19.7 ~~the above~~ Adult day services or child day care within a dwelling unit and having
 19.8 five or fewer persons receiving custodial care shall be classified as a Group R-3
 19.9 occupancy. Where the adult day services or child day care is located in a one- or
 19.10 two-family dwelling or townhouse, the dwelling: (1) shall be constructed in
 19.11 accordance with either the Building Code or the Minnesota Residential Code; and
 19.12 (2) shall be equipped with an automatic sprinkler system when required by Section
 19.13 903.2.8.

19.14 **Residential Group R.**

19.15 Residential Group R includes, among others, the use of a building or structure, or a
 19.16 portion thereof, for sleeping purposes when not classified as an Institutional Group I.
 19.17 ~~Residential occupancies shall include the following:~~

19.18 **Exception:** Group R-3 and R-4 occupancies located in a one- or two-family
 19.19 dwelling or townhouse and classified as a "dwelling unit" in Table 202.1: (1) shall
 19.20 be constructed in accordance with either the Building Code or the Minnesota
 19.21 Residential Code; and (2) shall be equipped with an automatic sprinkler system
 19.22 when required by Section 903.2.8.

19.23 Residential occupancies shall be classified according to the following:

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

20.1 ~~Bed and breakfast facilities with six or more guest rooms. A facility with less than~~
 20.2 ~~six guest rooms shall be classified as a Group R-3 occupancy~~

20.3 Boarding houses (transient) with more than ten occupants

20.4 Congregate living facilities (transient) with more than ten occupants

20.5 Hotels (transient)

20.6 Lodging houses with six or more guest rooms or more than ten occupants

20.7 Motels (transient)

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

20.11 Apartment houses

20.12 ~~Boarding houses (not transient) with more than sixteen occupants~~

20.13 Congregate living facilities (nontransient) with more than sixteen occupants

20.14 Boarding houses

20.15 Convents

20.16 Dormitories

20.17 Fraternities and sororities

20.18 Monasteries

20.19 Hotels (not transient)

20.20 ~~Monasteries~~

20.21 Motels (not transient)

- 21.1 Vacation time-share properties
- 21.2 **Residential Group R-3.** Residential occupancies where the occupants are primarily
- 21.3 permanent in nature and not classified as R-1, R-2, R-4₂ or I, including:
- 21.4 Assisted living ~~services~~
- 21.5 Buildings that do not contain more than two dwelling units
- 21.6 Boarding care homes
- 21.7 ~~Boarding houses (nontransient) with sixteen or fewer occupants~~
- 21.8 ~~Boarding houses (transient) with ten or fewer occupants~~
- 21.9 Care facilities that provide accommodations for five or fewer persons receiving
- 21.10 care
- 21.11 Congregate living facilities (nontransient) with ~~sixteen~~ 16 or fewer occupants
- 21.12 Boarding houses (nontransient)
- 21.13 Dormitories
- 21.14 Fraternities and sororities
- 21.15 Convents
- 21.16 Monasteries
- 21.17 Congregate living facilities (transient) with ten or fewer occupants
- 21.18 Boarding houses (transient)
- 21.19 Dwelling units (two or fewer) in mixed occupancy buildings
- 21.20 Family adult foster home
- 21.21 Foster care

- 22.1 Housing with services establishment
- 22.2 Lodging houses (transient) with five or fewer guest rooms and 10 or fewer
- 22.3 occupants
- 22.4 Residential hospice with five or fewer occupants
- 22.5 **Lodging houses.** Owner-occupied lodging houses with five or fewer guest rooms
- 22.6 and 10 or fewer total occupants shall be permitted to be constructed in accordance
- 22.7 with the Minnesota Residential Code.
- 22.8 **Residential Group R-4.** This occupancy shall include buildings, structures or portions
- 22.9 thereof for more than five but not more than ~~sixteen occupants~~ 16 persons, excluding
- 22.10 staff, who reside on a 24-hour basis in a supervised residential environment and receive
- 22.11 custodial care. ~~The persons receiving care are capable of self-preservation. Examples~~
- 22.12 of this This group shall include the following:
- 22.13 Alcohol and drug centers
- 22.14 Assisted living ~~services~~
- 22.15 Boarding care homes
- 22.16 Congregate care facilities
- 22.17 Group homes
- 22.18 Halfway houses
- 22.19 Housing with services establishment (including those that provide assisted living)
- 22.20 Residential board and care facilities
- 22.21 Residential hospice with twelve or fewer occupants
- 22.22 Social rehabilitation facilities

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

23.3 **Occupancy conditions.** Buildings of Group R-4 shall be classified as one of the
23.4 following occupancy conditions:

23.5 **Condition 1.** This occupancy condition includes buildings in which all persons
23.6 receiving custodial care, without any assistance, are capable of responding to an
23.7 emergency situation to complete building evacuation.

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

23.11 **OUTPATIENT CLINIC.** Buildings or portions thereof used to provide medical care on a
23.12 less than 24-hour basis to persons who are not rendered incapable of self-preservation by
23.13 the services provided, including federally certified end-stage renal disease facilities (kidney
23.14 dialysis facilities) not classified as an ambulatory care facility.

23.15 **PERFORMANCE-BASED DESIGN.** An engineering approach to design elements of a
23.16 building based on agreed-upon performance goals and objectives, engineering analysis, and
23.17 quantitative assessment of alternatives against the design goals and objectives using accepted
23.18 engineering tools, methodologies, and performance criteria.

23.19 **POWER TAP.** A device that is connected to an electrical receptacle, has built-in overcurrent
23.20 protection and allows connection of one or more electrical plugs to supply electricity to
23.21 other devices and equipment.

23.22 **REQUIRED BY THE FIRE CHIEF.** Determined by the fire chief to be directly related
23.23 to safeguarding life and property from the hazards of fire, and uniform for each class or
23.24 kind of building, structure, or property covered.

24.1 **RESIDENTIAL HOSPICE FACILITY.** A facility located in a residential area that directly
24.2 provides 24-hour residential and support services in a home-like setting for not more than
24.3 12 persons who have been diagnosed as terminally ill with a probable life expectancy of
24.4 under one year.

24.5 **ROOM.** A space or area bounded by any obstructions over 6 feet in height which at any
24.6 time enclose more than 80 percent of the perimeter of the area. In computing the unobstructed
24.7 perimeter, openings less than 3 feet in clear width and less than 6 feet 8 inches high shall
24.8 not be considered. Aisles and corridors shall not be construed to form rooms.

24.9 **SMALL HOSE CONNECTION.** "Small hose connection" means a ~~1-1/2-inch~~ 1-1/2-inch
24.10 (38 mm) connection supplied inside of a building for firefighting overhaul operations in
24.11 sprinkler-protected structures.

24.12 **STANDPIPE SYSTEM, CLASSES OF.** "Classes of standpipe system" means the
24.13 following:

24.14 **Class I system.** "Class I system" means a system providing 2-1/2 inch (64 mm) and
24.15 1-1/2 inch (38 mm) hose connections to supply water for use by fire departments and
24.16 those trained in handling heavy fire streams.

24.17 **Class II system.** "Class II system" means a system providing 1-1/2 inch (38 mm) hose
24.18 stations to supply water for use primarily by the building occupants or by the fire
24.19 department during initial response.

24.20 **STATE FIRE MARSHAL.** The Minnesota state fire marshal or the state fire marshal's
24.21 authorized representatives.

24.22 **SUPERVISED LIVING FACILITY.** A facility in which supervision, lodging, meals, and,
24.23 in accordance with the rules of the Department of Human Services and the Department of
24.24 Health, counseling and developmental habilitative or rehabilitative services are provided

25.1 to persons who are chemically dependent, adult mentally ill, or physically or developmentally
25.2 disabled.

25.3 **Class A-1 supervised living facility.** A supervised living facility for six or fewer
25.4 ambulatory or mobile disabled persons who are capable of taking appropriate action
25.5 for self-preservation under emergency conditions as determined by program licensure
25.6 provisions.

25.7 **Class A-2 supervised living facility.** A supervised living facility for more than six
25.8 ambulatory or mobile disabled persons who are capable of taking appropriate action
25.9 for self-preservation under emergency conditions as determined by program licensure
25.10 provisions.

25.11 **Class B-1 supervised living facility.** A supervised living facility for six or fewer
25.12 ambulatory or nonambulatory, mobile or nonmobile persons who are not mentally or
25.13 physically capable of taking appropriate action for self-preservation under emergency
25.14 conditions as determined by program licensure provisions.

25.15 **Class B-2 supervised living facility.** A supervised living facility for seven to 16
25.16 ambulatory or nonambulatory, mobile or nonmobile persons who are not mentally or
25.17 physically capable of taking appropriate action for self-preservation under emergency
25.18 conditions as determined by program licensure provisions.

25.19 **Class B-3 supervised living facility.** A supervised living facility for 17 or more
25.20 ambulatory or nonambulatory, mobile or nonmobile persons who are not mentally or
25.21 physically capable of taking appropriate action for self-preservation under emergency
25.22 conditions as determined by program licensure provisions.

25.23 **7511.0304 SECTION 304, COMBUSTIBLE WASTE MATERIAL.**

25.24 *[For text of subparts 1 and 2, see Minnesota Rules]*

25.25 Subp. 3. **IFC section 304.** IFC section 304 is amended by adding a section to read:

26.1 **304.4 Clothes dryers.** Clothes dryers and their exhaust systems shall be cleaned as necessary
 26.2 to keep lint traps, exhaust ducts, and mechanical and heating components free from excessive
 26.3 lint accumulation.

26.4 **7511.0315 SECTION 315, GENERAL STORAGE.**

26.5 Subpart 1. **IFC section 315.3.1.** IFC section 315.3.1 is amended to read:

26.6 **315.3.1 Ceiling clearance.** Storage shall be maintained 2 feet (610 mm) or more below
 26.7 the ceiling in nonsprinklered areas of buildings or a minimum of 18 inches (457 mm)
 26.8 below sprinkler head deflectors in sprinklered areas of buildings. Where more restrictive
 26.9 clearances between sprinkler head deflectors and storage are required by the sprinkler
 26.10 listing or NFPA 13, the more restrictive clearances shall apply.

26.11 **Exceptions:**

26.12 1. The 2-foot (610 mm) ceiling clearance is not required for storage along walls
 26.13 in nonsprinklered areas of buildings.

26.14 2. The 18-inch (457 mm) ceiling clearance is not required for storage along walls
 26.15 in areas of buildings equipped with an automatic sprinkler system in accordance
 26.16 with Section 903.3.1.1, 903.3.1.2, or 903.3.1.3.

26.17 *[For text of subpart 2, see Minnesota Rules]*

26.18 Subp. 3. IFC section 315.7.5. IFC section 315.7.5 is deleted.

26.19 **7511.0319 [Renumbered 7511.0320]**

26.20 **7511.0319 7511.0320 SECTION 319 320, CLEARANCE OF VEGETATION FROM**
 26.21 **STRUCTURES.**

26.22 IFC chapter 3 is amended by adding a section to read:

26.23 SECTION ~~319~~ 320

26.24 CLEARANCE OF VEGETATION FROM STRUCTURES

27.1 ~~319.1~~ **320.1 General.** Land that is covered with grass, grain, brush, or forest, whether
27.2 privately or publicly owned, which is so situated or is of such inaccessible location that a
27.3 fire originating upon the land would present an abnormally difficult job of suppression or
27.4 would result in great and unusual damage through fire or resulting erosion, shall comply
27.5 with Section ~~319.2~~ 320.2.

27.6 ~~319.2~~ **320.2 Fire breaks.** Persons owning, leasing, controlling, operating, or maintaining
27.7 buildings or structures in, upon, or adjoining land covered with grass, grain, brush, or forest,
27.8 and persons owning, leasing, or controlling land adjacent to such buildings or structures,
27.9 shall comply at all times with all of the following requirements:

27.10 1. Maintain an effective fire break by removing and clearing away flammable vegetation
27.11 and combustible growth from areas within 30 feet (9,144 mm) of such buildings or
27.12 structures.

27.13 **Exception:** Single specimens of trees, ornamental shrubbery, or similar plants
27.14 used as ground covers, provided they do not form a means of rapidly transmitting
27.15 fire from the native growth to any structure.

27.16 2. Maintain additional fire protection or firebreak by removing brush, flammable
27.17 vegetation, and combustible growth located from 30 feet to 100 feet (9,144 mm to 30,
27.18 480 mm) from such buildings or structures, when required by the fire chief because of
27.19 extrahazardous conditions causing a firebreak of only 30 feet (9,144 mm) to be
27.20 insufficient to provide reasonable fire safety.

27.21 **Exception:** Grass and other vegetation located more than 30 feet (9,144 mm) from
27.22 buildings or structures and less than 18 inches (457 mm) in height above the ground
27.23 need not be removed where necessary to stabilize the soil and prevent erosion.

27.24 3. Remove portions of trees that extend within 10 feet (3,048 mm) of the outlet of a
27.25 chimney.

28.1 4. Maintain trees adjacent to or overhanging a building free of deadwood.

28.2 5. Maintain the roof of a structure free of leaves, needles, or other dead vegetative
28.3 growth.

28.4 ~~7511.0408~~ **7511.0321 SECTION 408 321, USE AND OCCUPANCY RELATED**
28.5 **REQUIREMENTS COVERED MALL BUILDINGS.**

28.6 Subpart 1. [See repealer.]

28.7 Subp. 2. [See repealer.]

28.8 Subp. 3. **IFC section 408.11.3 321.** IFC Section 408.11.3 chapter 3 is amended by
28.9 adding sections a section and subsections to read as follows:

28.10 SECTION 321

28.11 COVERED MALL BUILDINGS

28.12 ~~408.11.3.1~~ **Minimum mall width 321.1 Egress.** The minimum egress width ~~of the mall~~
28.13 ~~area~~ in covered mall buildings shall be maintained in conformance with the Building Code.

28.14 ~~408.11.3.2~~ **321.2 Kiosks.** Kiosks and similar structures, whether temporary or permanent,
28.15 located in covered mall buildings shall be constructed, protected, and located in conformance
28.16 with the Building Code.

28.17 **7511.0403 SECTION 403, EMERGENCY PREPAREDNESS REQUIREMENTS.**

28.18 IFC section 403.10.3.5 is deleted.

28.19 **7511.0408 [Renumbered 7511.0321]**

28.20 ~~7511.0604~~ **SECTION 604, EMERGENCY AND STANDBY POWER SYSTEMS**
28.21 **ELECTRICAL EQUIPMENT, WIRING, AND HAZARDS.**

28.22 Subpart 1. **IFC section 604.2.1 604.10.4.** IFC section ~~604.2.1~~ 604.10.4 is deleted.

28.23 Subp. 2. [See repealer.]

29.1 Subp. 3. [See repealer.]

29.2 **7511.0606 SECTION 606, ELEVATOR OPERATION, MAINTENANCE, AND FIRE**
29.3 **SERVICE KEYS.**

29.4 IFC section 606.2.3 is amended to read as follows:

29.5 **606.2.3 Two or more elevators.** Where two or more elevators are controlled by a
29.6 common operating system, all elevators shall automatically transfer to standby power
29.7 within 60 seconds after failure of normal power where the standby power source is of
29.8 sufficient capacity to operate all elevators at the same time. Where the standby power
29.9 source is not of sufficient capacity to operate all elevators at the same time, the elevators
29.10 shall operate according to ASME A17.1/CSA B44-2016 Section 2.27.2.

29.11 **7511.0607 SECTION 607, COMMERCIAL KITCHEN HOODS.**

29.12 IFC section 607.3 is amended to read:

29.13 **607.3 Operations and maintenance.** Commercial cooking systems shall be operated and
29.14 maintained in accordance with Sections 607.3.1 through 607.3.4, and NFPA 96.

29.15 (Sections 607.3.1 through 607.3.4 remain unchanged.)

29.16 ~~7511.0611~~ **7511.0610 SECTION ~~611~~ 610, PEDESTRIAN WALKWAYS AND**
29.17 **PEDESTRIAN TUNNELS.**

29.18 IFC Chapter 6 is amended by adding a section ~~611~~ 610 to read:

29.19 **SECTION ~~611~~ 610**

29.20 **PEDESTRIAN WALKWAYS, PEDESTRIAN TUNNELS, AND MEZZANINES**

29.21 ~~611.1~~ **610.1 Installation and maintenance.** New pedestrian walkways and tunnels shall
29.22 be constructed and maintained in conformance with the Building Code. Existing pedestrian
29.23 walkways and pedestrian tunnels shall comply with the following:

30.1 1. Unless all buildings connected to them are protected throughout by approved
30.2 automatic fire-extinguishing systems, pedestrian walkways and pedestrian tunnels shall,
30.3 at a minimum, be separated from the interior of buildings by walls and self-closing
30.4 doors constructed to form a barrier to limit the transfer of smoke.

30.5 2. The unobstructed width of pedestrian walkways and pedestrian tunnels shall not be
30.6 less than 44 inches (1,118 mm).

30.7 3. Combustible materials or decorations shall not be located in pedestrian walkways
30.8 or pedestrian tunnels. Interior wall, ceiling, and floor finishes shall comply with Chapter
30.9 8.

30.10 4. Pedestrian walkways and pedestrian tunnels that serve as required means of egress
30.11 from attached buildings shall comply with Sections ~~1030~~ 1031 and 1104.

30.12 5. Pedestrian walkways and pedestrian tunnels exceeding 400 feet (122 m) in length
30.13 shall be provided with means of egress so arranged that the maximum length of exit
30.14 access travel to reach an exit does not exceed 200 feet (60,960 mm).

30.15 6. Means of egress from pedestrian walkways and pedestrian tunnels shall not be locked
30.16 unless provisions for emergency egress are provided.

30.17 **~~611.2~~ 610.2 Mezzanines.** Mezzanines in buildings shall conform to the requirements of the
30.18 Building Code.

30.19 **7511.0611 [Renumbered 7511.0610]**

30.20 **7511.0701 SECTION 701, GENERAL.**

30.21 IFC section 701.1 is amended by adding an exception to read:

30.22 **Exception:** This exception applies to the following elements that exceed the
30.23 requirements for new structures or facilities: existing fire-resistance-rated construction,
30.24 existing construction to resist the passage of smoke, and existing opening protectives.

31.1 When approved by the fire code official: (1) maintenance of these elements is not
31.2 required; and (2) removal of these elements is permitted as long as any decommissioned
31.3 equipment is clearly labeled as such.

31.4 **7511.0705 SECTION 705, DOOR AND WINDOW OPENINGS.**

31.5 IFC section 705.2 is amended by adding an exception to read:

31.6 **Exception:** Periodic testing and inspection in accordance with NFPA 80 and NFPA
31.7 105 is not required for swinging fire door and smoke door assemblies. Swinging fire
31.8 door and smoke door assemblies shall be maintained in an operable condition in
31.9 accordance with NFPA 80 and NFPA 105. Damaged or defective swinging fire door
31.10 and smoke door assemblies shall be repaired or replaced.

31.11 **7511.0706 SECTION 706, DUCT AND AIR TRANSFER OPENINGS.**

31.12 IFC section 706.1 is amended by adding an exception to read:

31.13 **Exception:** When approved by the fire code official, periodic testing and inspection
31.14 in accordance with NFPA 80 and NFPA 105 is not required for inaccessible fire
31.15 dampers, inaccessible smoke dampers, and inaccessible combination fire and smoke
31.16 dampers. Inaccessible fire dampers, inaccessible smoke dampers, and inaccessible
31.17 combination fire and smoke dampers shall be maintained in accordance with NFPA
31.18 80 and NFPA 105 and repaired or replaced where damaged or defective.

31.19 **7511.0806 SECTION 806, DECORATIVE VEGETATION IN NEW AND EXISTING**
31.20 **BUILDINGS.**

31.21 IFC section 806.1 and its subsections are deleted entirely and replaced with the
31.22 following:

31.23 **806.1 Natural cut trees and natural decorative vegetation.** Natural cut trees and natural
31.24 decorative vegetation shall comply with Sections 806.1.1 through 806.1.4.

32.1 **806.1.1 Natural or resin-bearing trees.** The use, display, or storage of natural or
32.2 resin-bearing trees for use or decoration inside buildings shall be in accordance with
32.3 Sections ~~806.1.1~~ 806.1.1.1 through 806.1.1.5.

32.4 **806.1.1.1 Group R occupancies.** The use and display of natural or resin-bearing
32.5 trees inside dwelling units of Group R-2 and R-3 occupancies is permitted.

32.6 **806.1.1.2 Sprinkler protected areas.** Trees located in areas protected by an
32.7 approved automatic sprinkler system installed in accordance with Section 903.3.1.1
32.8 or 903.3.1.2 are permitted in all occupancies except Group I ~~are permitted~~ and
32.9 ambulatory care facilities.

32.10 **806.1.1.3 Where allowed.** Trees without open flames or electric lights are allowed
32.11 in Group A used for worship purposes, Group B, E, and M occupancies.

32.12 **806.1.1.4 Restricted.** Trees used inside buildings for other occupancies or
32.13 conditions are not allowed.

32.14 **806.1.1.5 Location.** The use and display of natural or resin-bearing trees shall not
32.15 be placed in a location that would obstruct egress, fire protection systems and
32.16 equipment, and shall not be allowed to accumulate inside a building. In buildings
32.17 where more than one tree is located, they shall be separated by at least 20 feet as
32.18 measured from the tree branches.

32.19 **806.1.2 Support devices.** The support device that holds the tree in an upright position
32.20 shall be of a type that is stable and that meets all of the following criteria:

32.21 1. The device shall hold the tree securely and be of adequate size to avoid tipping
32.22 over of the tree.

32.23 2. The device shall be capable of containing a minimum two-day supply of water.

33.1 3. The water level, when full, shall cover the tree stem at least 2 inches (51 mm).
 33.2 The water level shall be maintained above the fresh cut and checked at least once
 33.3 daily.

33.4 **806.1.3 Dryness.** The tree shall be removed from the building whenever the needles
 33.5 or leaves fall off readily when a tree branch is shaken or if the needles are brittle and
 33.6 break when bent between the thumb and index finger. The tree shall be checked daily
 33.7 for dryness.

33.8 **806.1.4 Decorative natural vegetation.** The use, display, or storage of wreaths, hay
 33.9 bales, corn stalks, and other cut natural decorative vegetation shall be in accordance
 33.10 with Sections 806.1.4.1 through 806.1.4.4.

33.11 **806.1.4.1 Occupancies.** Limited quantities of cut natural decorative vegetation
 33.12 shall be permitted where the fire code official determines that adequate safeguards
 33.13 are provided based on the quantity and nature of the combustible vegetation.

33.14 **806.1.4.2 Group I occupancies.** Cut, natural, decorative vegetation is not permitted
 33.15 in Group I occupancies.

33.16 **806.1.4.3 Group M occupancies.** The use and display of decorative natural
 33.17 vegetation for resale in Group M occupancies is permitted.

33.18 **806.1.4.4 Location.** The use and display of cut natural decorative vegetation shall
 33.19 not obstruct aisles, egress, or exit paths, block access to fire protection systems or
 33.20 equipment, and shall not accumulate inside a building.

33.21 (~~Sections 806.2, 806.3, 806.4, and 806.5 still apply~~)

33.22 **7511.0807 SECTION 807, DECORATIVE MATERIALS ~~OTHER THAN~~ AND**
 33.23 **ARTIFICIAL DECORATIVE VEGETATION IN NEW AND EXISTING BUILDINGS.**

33.24 Subpart 1. **IFC section ~~807.1~~ 807.2.** IFC section ~~807.1~~ 807.2 is amended and a
 33.25 subsection is added to read as follows:

34.1 ~~**807.1 General.** In Group A occupancies, curtains, drapes, hangings and other decorative~~
34.2 ~~materials suspended from any wall or ceiling, where the suspended materials exceed 20~~
34.3 ~~percent of the wall or ceiling surface, shall meet the flame propagation performance criteria~~
34.4 ~~of NFPA 701 in accordance with Section 807.2 or shall be noncombustible.~~

34.5 ~~In Group I-2 and I-3 occupancies, curtains, drapes, hangings, and other decorative materials~~
34.6 ~~suspended from any wall or ceiling, where the suspended materials exceed 10 square feet~~
34.7 ~~(0.9 m²) for every 50 lineal feet (4.6 m²) of the wall or ceiling surface, shall be flame resistant~~
34.8 ~~in accordance with Section 807.2 or shall be noncombustible.~~

34.9 ~~Fixed or movable walls and partitions, paneling, wall pads and crash pads, applied structurally~~
34.10 ~~or for decoration, acoustical correction, surface insulation or other purposes, shall be~~
34.11 ~~considered interior finish if they cover 10 percent or more of the wall or of the ceiling area,~~
34.12 ~~and shall not be considered decorative materials or furnishings.~~

34.13 ~~In Group B and M occupancies, fabric partitions suspended from the ceiling and not~~
34.14 ~~supported by the floor shall meet the flame propagation performance criteria in accordance~~
34.15 ~~with Section 807.2 and NFPA 701 or shall be noncombustible.~~

34.16 ~~**807.2 Combustible decorative materials.** In dormitories in Group R-2 and in Groups A,~~
34.17 ~~B, E, I, M, and R-1, curtains, draperies, fabric hangings and similar combustible decorative~~
34.18 ~~materials suspended from walls or ceilings shall comply with Section 807.3 and shall not~~
34.19 ~~exceed 20 percent of the specific wall or ceiling area to which such materials are attached.~~

34.20 **Exceptions:**

34.21 1. In auditoriums in Group A, the permissible amount of curtains, draperies, fabric
34.22 hangings, and similar combustible decorative materials suspended from walls or ceilings
34.23 shall not exceed 75 percent of the aggregate wall area where the building is equipped
34.24 throughout with an approved automatic sprinkler system in accordance with Section
34.25 903.3.1.1 and where the material is installed in accordance with IBC Section 803.15.

35.1 2. In existing Group A occupancies, the permissible amount of curtains, draperies,
35.2 fabric hangings, and similar combustible decorative material suspended from walls or
35.3 ceilings shall not be limited where such materials comply with Section 807.3.

35.4 3. In Group R-2 dormitories, within sleeping units and dwelling units, the permissible
35.5 amount of curtains, draperies, fabric hangings and similar decorative materials suspended
35.6 from walls or ceilings shall not exceed 50 percent of the aggregate wall areas where
35.7 the building is equipped throughout with an approved automatic sprinkler system
35.8 installed in accordance with Section 903.3.1.

35.9 4. In Group A, B, E, and M occupancies, the amount of combustible fabric partitions
35.10 suspended from the ceiling and not supported by the floor shall comply with Section
35.11 807.3 and shall not be limited.

35.12 5. The 20 percent limit shall not apply to curtains, draperies, fabric hangings, and similar
35.13 combustible decorative materials used as window coverings.

35.14 **807.2.1 Fixed or movable walls and partitions, paneling, and wall pads and crash**
35.15 **pads.** Fixed or movable walls and partitions, paneling, wall pads and crash pads applied
35.16 structurally or for decoration, acoustical correction, surface insulation or other purposes
35.17 covering more than 10 percent of the wall or ceiling area shall be considered interior
35.18 finish, shall comply with Section 803, and shall not be considered to be decorative
35.19 materials or furnishings.

35.20 **Exception:** In existing buildings, fixed or movable walls and partitions, paneling,
35.21 wall pads and crash pads applied structurally or for decoration, acoustical
35.22 correction, surface insulation or other purposes shall not be considered interior
35.23 finish unless covering more than 20 percent of the wall or ceiling area, provided
35.24 the room or area is protected with an approved automatic fire sprinkler system
35.25 installed in accordance with Section 903.3.1.

36.1 Subp. 2. [See repealer.]

36.2 Subp. 3. **IFC section ~~807.4.3.1~~ 807.5.2.1**. IFC section ~~807.4.3.1~~ 807.5.2.1 is amended
36.3 ~~by deleting Exception 2.~~ by modifying exceptions 1 and 2 to read as follows:

36.4 1. Corridors protected by an approved automatic sprinkler system installed
36.5 in accordance with Section 903.3.1.1, provided the minimum required egress
36.6 width is maintained.

36.7 2. Buildings provided with an approved fire alarm system and equipped with
36.8 corridor smoke detection, provided the minimum required egress width is
36.9 maintained.

36.10 (Exception 3 still applies)

36.11 Subp. 3a. **IFC section ~~807.4.3.2~~ 807.5.2.2**. IFC section ~~807.4.3.2~~ 807.5.2.2 is amended
36.12 by adding an exception to read:

36.13 **Exception:** Artwork and teaching materials shall not exceed 50 percent of
36.14 the wall area when the building is protected throughout with an approved
36.15 automatic sprinkler system in accordance with Section 903.3.1.1.

36.16 Subp. 3b. **IFC section 807.5.2.3**. IFC section 807.5.2.3 is amended to read:

36.17 **807.5.2.3 Artwork in classrooms.** Artwork and teaching materials shall be limited
36.18 on walls of classrooms to not more than 50 percent of the total aggregate wall area
36.19 of the room.

36.20 Subp. ~~6~~ 3c. **IFC section ~~807.5~~ 807.5.3.4**. IFC section ~~807~~ 807.5.3.4 is amended by
36.21 ~~adding a section~~ to read as follows:

36.22 **807.5 807.5.3.4 Combustible decorations in Group I-2 occupancies** Other
36.23 areas in Groups I-1 and I-2. In Groups I-1 and I-2 occupancies, in areas not
36.24 equipped throughout with an approved automatic sprinkler system, combustible

37.1 decorations shall be prohibited ~~in any Group I-2 occupancy~~, unless one or more
37.2 of the following criteria ~~is~~ are met:

37.3 1. the decorations are flame-retardant or are treated with approved fire-retardant
37.4 coating that is listed and labeled for application to the material to which it is
37.5 applied;

37.6 2. the decorations meet the requirements of NFPA 701, Standard Methods of
37.7 Fire Tests for Flame Propagation of Textiles and Films;

37.8 3. the decorations exhibit a heat release rate not exceeding 100 kW when
37.9 tested in accordance with NFPA 289, Standard Method of Fire Test for
37.10 Individual Fuel Packages, using the 20 kW ignition source; or

37.11 ~~4. Decorations, such as photographs, paintings, and other art, are attached~~
37.12 ~~directly to the walls, ceiling, and non-fire-rated doors are limited to:~~

37.13 ~~4.1. (a) 20 percent of the wall, ceiling, and door areas inside any room~~
37.14 ~~or space of a smoke compartment that is not protected throughout by an~~
37.15 ~~automatic sprinkler system, or (b) 30 percent of the wall, ceiling, and~~
37.16 ~~door areas inside any room or space of a smoke compartment that is~~
37.17 ~~protected throughout by an approved supervised automatic sprinkler~~
37.18 ~~system in accordance with Section 903.3.1.1 or 903.3.1.2; or~~

37.19 ~~4.2. 50 percent of the wall, ceiling, and door areas inside patient sleeping~~
37.20 ~~rooms, having a capacity not exceeding four persons, in a smoke~~
37.21 ~~compartment that is protected throughout by an approved, supervised~~
37.22 ~~automatic sprinkler system in accordance with Section 903.3.1.1 or~~
37.23 ~~903.3.1.2; and~~

37.24 ~~4.3. Decorations do not interfere with the operation or latching of any~~
37.25 ~~door; or~~

38.1 § 4. decorations, such as photographs and paintings, are in such limited
38.2 quantities that a hazard of fire development or spread is not present.

38.3 Subp. 4. **IFC Section ~~807.4.4.1~~ 807.5.5.1.** IFC Section ~~807.4.4.1~~ 807.5.5.1 is amended
38.4 by ~~deleting Exception 2.~~ is amended by modifying exceptions 1 and 2 to read as follows:

38.5 1. Corridors protected by an approved automatic sprinkler system installed
38.6 in accordance with Section 903.3.1.1, provided the minimum required egress
38.7 width is maintained.

38.8 2. Buildings provided with an approved fire alarm system and equipped with
38.9 corridor smoke detection, provided the minimum required egress width is
38.10 maintained.

38.11 (Exception 3 still applies)

38.12 Subp. 5. **IFC section ~~807.4.4.2~~ 807.5.5.2.** IFC section ~~807.4.4.2~~ 807.5.5.2 is amended
38.13 by adding an exception to read as follows:

38.14 **Exception:** Artwork and teaching materials shall not exceed 50 percent of
38.15 the wall area when the building is protected throughout with an approved
38.16 automatic sprinkler system in accordance with Section 903.3.1.1.

38.17 Subp. 6. [Renumbered subp 3c]

38.18 **7511.0901 SECTION 901, GENERAL.**

38.19 Subpart 1. **IFC section 901.6.1.** IFC section 901.6.1 is amended by adding an exception
38.20 to read:

38.21 **Exception:** Fire alarm and water-based automatic fire-extinguishing systems shall
38.22 be inspected and tested ~~at least~~ annually. Inspections and testing shall be conducted
38.23 in accordance with the procedures specified in the referenced standards listed in
38.24 Table 901.6.1. As part of the annual ~~inspection required by this section,~~ inspections

39.1 covered under this exception, all weekly, monthly, quarterly, semiannual, and
 39.2 annual inspections, tests, and maintenance requirements in the listed standards
 39.3 shall be conducted and ~~shall note~~ any problems observed shall be noted.

39.4 *[For text of subpart 2, see Minnesota Rules]*

39.5 **7511.0903 SECTION 903, AUTOMATIC SPRINKLER SYSTEMS.**

39.6 Subpart 1. IFC section 903.2.3. IFC section 903.2.3 is amended to read as follows:

39.7 **903.2.3 Group E.** An automatic sprinkler system shall be provided for Group E
 39.8 occupancies as follows:

39.9 1. Throughout all Group E fire areas greater than 12,000 square feet (1,115 m²)
 39.10 in area.

39.11 2. Whenever the Group E fire area is located on a floor other than a level of exit
 39.12 discharge serving such occupancies.

39.13 **Exception:** In buildings where every classroom has not fewer than one exterior
 39.14 exit door at a level of exit discharge, an automatic sprinkler system is not
 39.15 required in any area below the lowest level of exit discharge serving that area.

39.16 3. Whenever the Group E fire area has an occupant load of 300 or more.

39.17 ~~Subpart 1~~ Subp. 1a. IFC section 903.2.8. IFC section 903.2.8 is and its subsections
 39.18 are amended, and subsections added, to read as follows:

39.19 **903.2.8 Group R.** An automatic sprinkler system shall be ~~provided~~ installed throughout
 39.20 all buildings with a Group R fire area in accordance with Section 903.3 ~~in Group R~~
 39.21 ~~occupancies and townhouses as follows:~~

39.22 ~~1. All Group R-4 occupancies.~~

40.1 ~~2. Group R-1 multiunit resort buildings as defined in Minnesota Statutes, section 157.15,~~
40.2 ~~and licensed by the Department of Health shall comply with chapter 1305, the Minnesota~~
40.3 ~~Building Code.~~

40.4 ~~3. In other than R-1 multiunit resort buildings, Group R-1 occupancies shall comply~~
40.5 ~~with chapter 1305, the Minnesota Building Code.~~

40.6 ~~4. R-2 occupancies shall comply with chapter 1305, the Minnesota Building Code.~~

40.7 ~~5. Townhouses shall comply with chapter 1309, the Minnesota Residential Code.~~

40.8 For the purposes of this section, fire walls, party walls, or attached multiple fire-resistive
40.9 exterior walls shall only create separate buildings where providing separation from
40.10 occupancies other than Group R.

40.11 **Exceptions:**

40.12 1. A Group R-1, R-2, or combined R-1 and R-2 building where less than 4,500
40.13 square feet of the building area consists of R-1 fire area, R-2 fire area, or a
40.14 combination of R-1 and R-2 fire areas.

40.15 2. A Group R-3 dwelling unit with less than 4,500 square feet of building area,
40.16 excluding garages, unless the Group R-3 dwelling unit contains a state licensed
40.17 care facility that is required to be provided with an automatic sprinkler system as
40.18 a condition of the license.

40.19 3. An automatic fire sprinkler system shall not be required if additions or alterations
40.20 are made to existing Group R-3 or R-4 buildings or a portion thereof that do not
40.21 have an automatic sprinkler system installed, unless required by a Minnesota
40.22 license.

41.1 4. Group R-1 multiunit resort buildings, as defined in Minnesota Statutes, section
41.2 157.15, and licensed by the Department of Health, with less than 9,250 square feet
41.3 of building area.

41.4 **903.2.8.1 Group R-3 or R-4 congregate residences.** Where required by Section
41.5 903.2.8, Group R-3 occupancies shall be provided with an automatic sprinkler
41.6 system installed in accordance that complies with Section 903.3.1.1, 903.3.1.2, or
41.7 903.3.1.3 shall be permitted in Group R-3 or R-4 congregate residences with 16
41.8 or fewer residents.

41.9 **903.2.8.2 Group R-4.** Where required by Section 903.2.8, Group R-4 occupancies
41.10 shall be provided with an automatic sprinkler system that complies with Section
41.11 903.3.1.1 or 903.3.1.2.

41.12 **Exception:** Group R-4 Condition 1 occupancies equipped with an automatic
41.13 sprinkler system that complies with Section 903.3.1.3.

41.14 ~~903.2.8.2~~ **903.2.8.3 State licensed facilities.** Group R-3 or R-4 occupancies
41.15 containing facilities licensed by Minnesota shall be provided with an automatic
41.16 sprinkler system as required by the applicable licensing provisions or this section,
41.17 whichever is more restrictive.

41.18 ~~903.2.8.3~~ **903.2.8.4 Residential hospice facilities.** An automatic sprinkler system
41.19 installed in accordance with NFPA 13 shall be provided throughout all buildings
41.20 with a Group R-3 or ~~Group~~ R-4 fire area containing a residential hospice facility.

41.21 **Exception:** An automatic sprinkler system installed in accordance with Section
41.22 903.3.1.2 or 903.3.1.3 ~~shall be allowed, provided that~~ is permitted if all
41.23 habitable spaces and closets are sprinklered protected by an automatic sprinkler
41.24 system.

42.1 Subp. 1b. IFC section 903.2.9. IFC section 903.2.9 is amended and a subsection
42.2 added to read as follows:

42.3 **903.2.9 Group S-1.** An automatic sprinkler system shall be provided throughout all
42.4 buildings containing a Group S-1 occupancy where one of the following conditions
42.5 exists:

42.6 1. A Group S-1 fire area exceeds 12,000 square feet (1,115 m²).

42.7 2. A Group S-1 fire area is located more than three stories above grade plane.

42.8 3. The combined area of all Group S-1 fire areas on all floors, including any
42.9 mezzanines, exceeds 24,000 square feet (2,230 m²).

42.10 4. Group S-1 fire area is used for the storage of commercial motor vehicles where
42.11 the fire area exceeds 5,000 square feet (464 m²).

42.12 (Subsections 903.2.9.1 and 903.2.9.2 remain unchanged.)

42.13 **903.2.9.3 Group S-1 upholstered furniture and mattresses.** An automatic
42.14 sprinkler system shall be provided throughout a Group S-1 fire area used for the
42.15 storage of upholstered furniture or mattresses that exceeds 2,500 square feet (232
42.16 m²).

42.17 **Exception:** Self-service storage facilities (mini-storage) no greater than one
42.18 story above grade plane where all storage spaces can be accessed directly
42.19 from the exterior.

42.20 Subp. 2. IFC section 903.2.11.4. IFC section 903.2.11.4 is amended to read by deleting
42.21 the section in its entirety and replacing it with the following:

42.22 **903.2.11.4 Fire protection for exhaust systems.** Where required by the
42.23 International Minnesota Mechanical Code, automatic sprinklers shall be provided
42.24 in ducts having a cross-sectional area of 75 square inches (480 cm²) or more and

43.1 that: (1) convey flammable or combustible components; or ~~that~~ (2) have the
43.2 potential for combustible residue ~~build-up~~ buildup on the inside. When sprinkler
43.3 protection is installed, means shall be provided to prevent water accumulation in
43.4 the duct ~~or~~ and the flow of water back to a process where the application of water
43.5 constitutes a serious life or fire hazard.

43.6 Subp. 2a. **IFC section 903.3.1.** IFC section 903.3.1 is amended as follows:

43.7 **903.3.1 Standards.** Sprinkler systems shall be designed and installed in accordance
43.8 with Section 903.3.1.1, unless otherwise permitted by Sections 903.3.1.2 and 903.3.1.3
43.9 and other chapters of this code, as applicable. Automatic sprinkler systems installed in
43.10 state-licensed or state-registered facilities shall be installed in accordance with this
43.11 code and the applicable licensing or registration provisions of other Minnesota state
43.12 agencies.

43.13 **Subp. 2b. IFC section 903.3.1.1.1.** IFC section 903.3.1.1.1 is amended by adding a
43.14 new item 7 to the list of exempt locations to read as follows:

43.15 7. Sprinkler protection shall not be installed in elevator shafts, elevator
43.16 pits, or elevator machine rooms.

43.17 **Exception to #7:** Health care occupancies that: (1) are required to
43.18 have NFPA 13 systems; (2) are licensed by the Minnesota
43.19 Department of Health; and (3) participate in Title XVIII (Medicare)
43.20 or Title XIX (Medicaid) of the Social Security Act.

43.21 Subp. 3. **IFC Section 903.3.1.2.1.** IFC Section 903.3.1.2.1 is amended to read:

43.22 **903.3.1.2.1 Protection of decks and balconies.** Decks and balconies greater than
43.23 6 feet (1.8 m) above grade, greater than 4 feet (1.2 m) deep, with an area greater
43.24 than 40 square feet (3.72 m²), and attached to new Group R-1 and or R-2 occupancy
43.25 buildings protected in accordance with Section 903.3.1.2 that are three or more

44.1 stories in height and with 30 or more units, shall be protected with sprinklers under
44.2 the balcony or deck framing and under attic eaves when both of the following two
44.3 conditions exist:

44.4 1. the building has an unsprinklered attic; and

44.5 2. the building has combustible siding.

44.6 Subp. 4. **IFC section 903.3.1.** IFC section 903.3.1 is amended by adding sections to
44.7 read:

44.8 **903.3.1.4 Buildings of undetermined use.** When fire sprinkler systems are required
44.9 in buildings of undetermined use, they shall be designed and installed to have a
44.10 sprinkler density of not less than that required for an Ordinary Hazard Group 2
44.11 use with a minimum design area of 3,000 square feet (279 m²). Use is considered
44.12 undetermined if not specified at the time a permit is issued. Where a subsequent
44.13 occupancy requires a system with greater capability, it shall be the responsibility
44.14 of the owner to upgrade the system to the required density for the new hazard, use
44.15 or occupancy.

44.16 **903.3.1.5 Special sprinkler design criteria.** When fire sprinkler systems are
44.17 required in areas containing the following uses, they shall be designed and installed
44.18 to have a sprinkler density of not less than that required for an Ordinary Hazard
44.19 Group 2 use:

44.20 1. chemistry labs; or

44.21 2. wrestling rooms or gymnastic rooms.

44.22 **903.3.1.6 Modifications to sprinkler standards.** The sprinkler installation
44.23 standards as referenced in Sections 903.3.1.1, 903.3.1.2, and 903.3.1.3 are modified
44.24 as follows:

45.1 **903.3.1.6.1 Hose stream requirements.** When, in the opinion of the fire
45.2 chief, an adequate alternate water supply for hose stream requirements is
45.3 provided or available, the water supply requirements for the sprinkler system
45.4 hose stream demands may be modified.

45.5 **903.3.1.6.2 Elevator shafts and equipment.** Sprinkler protection shall not
45.6 be installed in elevator shafts, elevator pits, or elevator machine rooms.

45.7 **Exception:** Health care occupancies that: (1) are required to have NFPA
45.8 13 systems ~~and;~~ (2) are licensed by the Minnesota Department of Health
45.9 ~~or that;~~ and (3) participate in Title XVIII (Medicare) or Title XIX
45.10 (Medicaid) of the Social Security Act.

45.11 **903.3.1.6.3 Swimming pools.** Sprinkler protection need not be provided on
45.12 the ceiling of rooms containing swimming pools when the pool area is used
45.13 exclusively for swimming purposes and when sprinklers are provided around
45.14 the perimeter of the pool area.

45.15 **903.3.1.6.4 NFPA 13 modifications.** Sections 8.15.8.2, 8.17.2.5, and ~~22.2.1.1~~
45.16 23.2.1.1 of NFPA 13 are amended to read:

45.17 **8.15.8.2 Linen closets and pantries.** Sprinklers are not required in linen
45.18 closets and pantries within dwelling units that meet the following conditions:

- 45.19 1. the area of the space does not exceed 12 square feet (1.1 m²);
45.20 2. the least dimension does not exceed 3 feet (0.9 m);
45.21 3. the walls and materials are surfaced with noncombustible or limited
45.22 combustible materials; and
45.23 4. the closet or pantry contains no mechanical equipment, electrical equipment,
45.24 or electrical appliances.

46.1 **8.17.2.5 Valves.**

46.2 **8.17.2.5.1 Fire department connection.** A listed check valve shall be installed
46.3 in each fire department connection.

46.4 **8.17.2.5.1.1 Maximum pipe length.** There shall be a maximum of 25
46.5 feet (7.6 m) of pipe between the check valve and the fire department
46.6 connection inlet.

46.7 **Exception:** This maximum shall not apply to the check valve serving
46.8 a free-standing fire department connection.

46.9 **8.17.2.5.1.2 Check valve location.** The check valve shall be located to
46.10 minimize freezing potential.

46.11 **22.2.1.1 23.2.1.1 Water supply capacity information.** Where a waterflow test
46.12 is used for the purposes of system design, the test shall be conducted no more than
46.13 36 months prior to the working plan submittal.

46.14 **903.3.1.6.5 Vestibules.** Sprinkler protection is not required in vestibules that
46.15 meet all of the following conditions:

- 46.16 1. the vestibule is 225 square feet or less in floor area;
- 46.17 2. the vestibule is of noncombustible or limited combustible construction;
- 46.18 3. the vestibule has glazing allowing vision into vestibule;
- 46.19 4. the vestibule's only purpose is ingress and egress; and
- 46.20 5. the vestibule contains no fueled equipment, flammable or combustible
46.21 liquids, or furniture. Incidental combustible storage in the vestibule is
46.22 limited to five cubic feet of material.

47.1 **903.3.1.6.6 NFPA 13D sprinkler systems.** Automatic sprinkler systems
47.2 installed in ~~Group townhouses and Groups R-3 and R-4 congregate residences~~
47.3 ~~and townhouses~~, Condition 1 occupancies shall be permitted to be installed
47.4 throughout in accordance with NFPA 13D. Attached garages in townhouse
47.5 buildings are required to have one dry head sprinkler located within 5 linear
47.6 feet of each door installed in the common wall separating the dwelling unit
47.7 and the attached garage.

47.8 Subp. 4a. **IFC section ~~903.3.8~~ 903.3.9.** IFC section 903.3 is amended by adding a
47.9 section to read:

47.10 **~~903.3.8~~ 903.3.9 Sprinkler system design pressure safety margin.** For new sprinkler
47.11 systems or additions to existing sprinkler systems, the available water supply shall
47.12 exceed the sprinkler system demand, including the hose stream requirements, by 5 psi
47.13 (0.34 bars) or more.

47.14 **Exception:** NFPA 13D systems installed in accordance with Section 903.3.1.3.

47.15 Subp. 5. [See repealer.]

47.16 *[For text of subpart 6, see Minnesota Rules]*

47.17 Subp. 6a. **IFC section 903.4.2.** IFC section 903.4.2 is amended to read as follows:

47.18 **903.4.2 Alarms.** An approved audible alarm and an approved visible alarm are required
47.19 on the exterior of the building in an approved location. These alarms can be part of the
47.20 same device or separate devices. The alarms shall be connected to each automatic
47.21 sprinkler system. The alarms shall be located above the fire department connection and
47.22 visible from the street or nearest point of fire department vehicle access, or as otherwise
47.23 approved by the fire code official. Such sprinkler water-flow alarms shall be activated
47.24 by water flow equivalent to the flow of a single sprinkler of the smallest orifice size

48.1 installed in the system. Where a fire alarm system is installed, actuation of the automatic
48.2 sprinkler system shall actuate the building fire alarm system.

48.3 *[For text of subparts 7 and 8, see Minnesota Rules]*

48.4 **7511.0904 SECTION 904, ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING**
48.5 **SYSTEMS.**

48.6 Subpart 1. IFC section 904.1.1. IFC section ~~904.1~~ 904.1.1 is amended to read:

48.7 **904.1.1 Certification of service personnel for fire-extinguishing equipment.** Service
48.8 personnel installing, providing, or conducting maintenance on automatic
48.9 fire-extinguishing systems, other than automatic sprinkler systems, shall possess a valid
48.10 certificate issued by an approved organization for the type of system and work
48.11 performed.

48.12 Subp. 2. IFC section 904.13. IFC section 904.13, item 3, is amended to read as follows:

48.13 3. In Group R-2 congregate living facilities where domestic cooking facilities are
48.14 installed in accordance with Section 420.10 of the Minnesota Building Code.

48.15 **7511.0905 SECTION 905, STANDPIPE SYSTEMS.**

48.16 Subpart 1. **IFC section 905.2.** IFC section 905.2 is amended by adding ~~sections~~
48.17 subsections to read:

48.18 **905.2.1 Modification to standards.** In buildings other than high rise that are ~~protected~~
48.19 equipped throughout by ~~with~~ an automatic sprinkler system installed in accordance
48.20 with Sections Section 903.3.1.1 and or 903.3.1.2, and a Class I or III standpipe system
48.21 need only, the pipe shall be sized to meet the pressure and flow requirements for the
48.22 sprinkler system when. Such systems shall comply with Sections 905.2.1.1 through
48.23 ~~905.2.1.5~~ 905.2.1.4.

49.1 ~~**905.2.1.1 Municipal water supply.** A municipal water supply capable of supplying~~
49.2 ~~the required standpipe flow rate with a residual pressure not less than 20 psi (1.4 bars)~~
49.3 ~~through a fire hydrant shall be provided. A fire hydrant shall be located within 300 feet (91~~
49.4 ~~m) of the building's fire department connection.~~

49.5 ~~**905.2.1.2**~~ **905.2.1.1 System testing and pipe size.** The standpipe system shall be
49.6 able to provide the pressure and flow rate required by NFPA 14 when the standpipe
49.7 system is supported by local fire department apparatus through the fire department
49.8 connection as verified with hydraulic calculations. The hydraulic calculations are
49.9 to be performed between the hydraulically most demanding standpipe hose
49.10 connection and the fire department connection. Pipe sizes for combined portions
49.11 of the sprinkler and standpipe systems shall not be less than the minimum
49.12 requirements in NFPA 14 4 inches (101.6 mm).

49.13 **905.2.1.2 System design flow and pressure.** The standpipe shall provide a
49.14 minimum pressure of 100 psi (6.9 bar) at the uppermost outlet and a minimum
49.15 flow rate of 250 gpm (946 L/min.) at the two hydraulically most remote hose
49.16 connections on the standpipe when the standpipe system is supported through the
49.17 fire department connection. The hydraulic calculations shall be performed between
49.18 the hydraulically most demanding standpipe hose connection and the fire
49.19 department connection.

49.20 **905.2.1.3 Design pressure.** A maximum design pressure of 150 psi (10.3 bars) is
49.21 permitted at the fire department connection when the standpipe is supported by
49.22 local fire department apparatus.

49.23 **905.2.1.4 Hose connection.** At least one 2-1/2 inch (64 mm) hose connection shall
49.24 be provided on the exterior of the building at the fire department connection for
49.25 each 250 gpm (980 L/min) of required standpipe flow.

50.1 **905.2.1.5 905.2.1.4 Automatic sprinkler system demand.** The automatic sprinkler
50.2 system demand, including the inside and outside hose stream ~~demand~~ demands
50.3 from NFPA 13, is to be provided by the municipal water supply system without
50.4 requiring fire department pumping into the system.

50.5 Subp.1a. IFC section 905.3. IFC section 905.3 is amended to read as follows:

50.6 **905.3 Required installations.** Standpipe systems shall be installed where required by
50.7 Sections 905.3.1 through 905.3.10. Standpipe systems are allowed to be combined with
50.8 automatic sprinkler systems.

50.9 **Exception:** Standpipe systems are not required in Group R-3 occupancies.

50.10 Subp. 1b. IFC section 905.3.1. IFC section 905.3.1 is amended to read as follows:

50.11 **905.3.1 Height.** Class I wet standpipe systems shall be installed throughout buildings
50.12 where any of the following conditions exist:

50.13 1. Four or more stories are above or below grade plane.

50.14 2. The floor level of the highest story is located more than 30 feet (9,144 mm)
50.15 above the lowest level of the fire department vehicle access.

50.16 3. The floor level of the lowest story is located more than 30 feet (9,144 mm)
50.17 below the highest level of fire department vehicle access.

50.18 **Exception:** Class I manual, automatic, or semiautomatic dry standpipes are
50.19 allowed in buildings that are subject to freezing temperatures, provided that
50.20 the hose connections are located as required for Class II standpipes in
50.21 accordance with Section 905.5.

50.22 **905.3.1.1 Lowest level.** In determining the lowest level of fire department vehicle
50.23 access, the following areas should not be considered:

50.24 1. recessed loading docks for four vehicles or less; and

51.1 2. areas where topography makes access from the fire department vehicle to
51.2 the building impractical or impossible.

51.3 Subp. 2. **IFC section 905.3.2.1.** IFC section 905.3.2 is amended by adding a ~~section~~
51.4 subsection to read:

51.5 **905.3.2.1 Group A exhibition.** Class ~~III~~I automatic standpipes shall be provided
51.6 in Group A-3 occupancies where the floor area used for exhibition exceeds 12,000
51.7 square feet (1,115 m²).

51.8 Subp. 3. **IFC sections 905.3.4, 905.3.4.1.** IFC sections 905.3.4 and 905.3.4.1 are
51.9 ~~amended by deleting the sections in their entirety.~~ deleted and replaced with the following:

51.10 **905.3.4 Stages.** Stages are not required to be equipped with standpipe systems.

51.11 Subp. 3a. **IFC section 905.3.6.** IFC section 905.3.6 is amended to read as follows:

51.12 **905.3.6 Helistops and heliports.** Each building with a rooftop helistop or heliport shall
51.13 be equipped with a Class I standpipe system extended to the roof level on which the
51.14 helistop or heliport is located in accordance with Section 2007.5.

51.15 Subp. 4. **IFC section 905.3.** IFC section 905.3 is amended by adding sections to read:

51.16 **905.3.9 Detention and correctional facilities.** Regardless of the height of the building
51.17 or number of stories, every building in a Group I-3 detention and correctional facility,
51.18 where 50 or more persons are under restraint or security under Occupancy Condition
51.19 3, 4₂ or 5, shall be provided with a Class ~~III~~I automatic wet or semiautomatic dry
51.20 standpipe system.

51.21 **Exception:** Combined systems meeting the provisions of Section 905.2 may be
51.22 used.

51.23 When acceptable to the fire chief, fire department connections may be located inside
51.24 all security walls or fences on the property.

52.1 Standpipes shall be located in accordance with Section 905. In addition, standpipes
52.2 shall be located so that it will not be necessary to extend hose lines through smoke
52.3 barriers. When located in cell complexes, standpipes may be located in secured pipe
52.4 chases.

52.5 **905.3.10 Group R-2 occupancies; small hose connections.** Small hose connections
52.6 shall be installed in Group R-2 occupancies three or more stories in height where any
52.7 portion of the building's interior area is more than 200 feet (60,960 mm) of travel,
52.8 vertically or horizontally, from the nearest point of fire department vehicle access.
52.9 Small hose connections required by this section shall comply with the following:

52.10 1. Supply one ~~1-1/2-inch~~ 1-1/2-inch (38 mm) fire hose valve at each floor level or
52.11 intermediate stair landing in each required and enclosed stairway.

52.12 2. The water for the small hose connections shall be supplied separately from the
52.13 sprinkler system protecting that area so that the small hose connections are still
52.14 functional if the water supply to the sprinkler system is shut down following fire
52.15 extinguishment.

52.16 3. The piping shall be a minimum of ~~1-1/2-inch~~ 1-1/2-inch (38 mm).

52.17 4. The water shall be supplied from a wet-pipe sprinkler system only.

52.18 5. The piping shall be comprised of metallic piping and hose valve connections.

52.19 Permanent signage shall be required which reads "Fire Department Overhaul Hose
52.20 Connection" at each connection in the building. If a separate standpipe system is
52.21 provided, a sign shall also be provided at the exterior fire department connection.

52.22 Subp. 5. **IFC section 905.5.1.** IFC section 905.5.1 is deleted.

52.23 Subp. 6. **IFC section 905.6.** IFC section 905.6 and all subsections are deleted in their
52.24 entirety.

53.1 **7511.0906 SECTION 906, PORTABLE FIRE EXTINGUISHERS.**53.2 Subpart 1. **IFC section 906.1.** IFC section 906.1 is amended to read:53.3 **906.1 Where required.** Portable fire extinguishers shall be installed in the following
53.4 locations:53.5 1. In all Group A, B, E, F, H, I, M, R-1, R-2, R-4₂ and S occupancies.

53.6 **Exception:** In Group E occupancies equipped throughout with an approved
53.7 automatic sprinkler system installed in accordance with Section 903.3.1.1, fire
53.8 extinguishers shall be required only in laundry and soiled linen rooms, boiler and
53.9 furnace rooms, mechanical and electrical rooms, garages, stages, projection booths,
53.10 shops, laboratories, kitchens, locker rooms, custodial closets, trash-collection
53.11 rooms, storage rooms greater than 100 square feet, and similar areas.

53.12 2. Within 30 feet (9,144 mm) ~~of~~ distance of travel from commercial cooking equipment
53.13 and from domestic cooking equipment in Group I-1; I-2, Condition 1; and R-2
53.14 congregate living facilities.

53.15 3. In areas where flammable or combustible liquids are stored, used₂ or dispensed.53.16 4. On each floor of structures under construction, except Group R-3 occupancies, in
53.17 accordance with Section 3315.1.

53.18 5. Where required by the sections indicated in Table 906.1.

53.19 6. Special-hazard areas, including but not limited to laboratories, computer rooms and
53.20 generator rooms, where required by the fire code official.53.21 7. R-3 occupancies used as family day care, group family day care, foster care, adult
53.22 family day services₂ and residential hospices.53.23 *[For text of subparts 2 and 3, see Minnesota Rules]*

54.1 **7511.0907 SECTION 907, FIRE ALARM AND DETECTION SYSTEMS.**

54.2 Subpart 1. [Repealed, 40 SR 1437]

54.3 Subp. 1a. IFC section 907.1.2. IFC section 907.1.2 is amended to read as follows:

54.4 **907.1.2 Fire alarm shop drawings.** Shop drawings for fire alarm systems shall be
54.5 submitted for review and approval before system installation, and shall include all of
54.6 the following where applicable to the system being installed:

54.7 1. A floor plan that indicates the use of all rooms.

54.8 2. Locations of alarm-initiating devices.

54.9 3. Locations of alarm notification appliances, including candela ratings for visible
54.10 alarm notification appliances.

54.11 4. Design minimum audibility level for occupant notification.

54.12 5. Maximum sound pressure.

54.13 6. Location of fire alarm control unit, transponders, and notification power supplies.

54.14 7. Annunciators.

54.15 8. Power connections.

54.16 9. Battery calculations.

54.17 10. Conductor type and size.

54.18 11. Voltage drop calculations.

54.19 12. Manufacturers' data sheets indicating model numbers and listing information
54.20 for equipment, devices, and materials.

54.21 13. Details of ceiling height and construction.

54.22 14. The interface of fire safety control functions.

55.1 15. Classification of the supervising station.

55.2 Subp. 2. **IFC section 907.2.** IFC section 907.2 is amended to read:

55.3 **907.2 Where required in new buildings and occupancies.** An approved manual, automatic,
55.4 or manual and automatic fire alarm system shall be provided in new buildings and
55.5 occupancies in accordance with Sections 907.2.1 through ~~907.2.24~~ 907.2.24.2 and NFPA
55.6 72. For the purposes of Sections 907.2.1 through ~~907.2.24~~ 907.2.24.2, fire barrier walls or
55.7 fire walls shall not define separate buildings. In buildings containing mixed occupancies
55.8 that are designed as separated uses (see Section ~~102.11~~ 102.14), fire alarm and detection
55.9 systems need only be installed in those occupancies where required by this section.

55.10 **Exception:** In areas protected by an approved, supervised automatic sprinkler system
55.11 installed in accordance with Section 903.3.1.1 or 903.3.1.2, automatic fire detectors
55.12 required by Section 907.2 need not be provided. Where Section 907.2 requires smoke
55.13 detectors, such protection shall be installed.

55.14 Subp. 3. **IFC section 907.2.1.** IFC section 907.2.1 is amended, and sections added,
55.15 to read:

55.16 **907.2.1 Group A, general.** A fire alarm system shall be installed in accordance with
55.17 Sections 907.2.1 through 907.2.1.3 in Group A occupancies having an occupant load
55.18 of 300 or more.

55.19 **Exceptions:**

55.20 1. Assembly areas used solely for worship purposes.

55.21 2. A fire alarm system is not required in buildings with an occupant load less than
55.22 1,000 when an approved automatic fire sprinkler system is installed throughout
55.23 the building.

56.1 3. Assembly uses located inside Group E occupancies shall have alarms as required
56.2 for the Group E occupancy.

56.3 4. Group A-5 occupancies. ~~See also Section 907.2.11.~~

56.4 **907.2.1.1 Initiation.** Initiation of the fire alarm system shall be by automatic
56.5 means. Approved automatic fire detectors shall be installed in laundry rooms,
56.6 boiler and furnace rooms, mechanical and electrical rooms, shops, kitchens,
56.7 trash-collection rooms, storage rooms, and similar areas.

56.8 **907.2.1.2 Notification.** The required fire alarm system shall activate an audible
56.9 and visible notification appliance at a constantly attended location within the
56.10 building for the purposes of initiating emergency action. A presignal feature and
56.11 positive alarm sequencing in accordance with NFPA 72 are permitted.

56.12 Occupant notification shall be by means of voice announcements, either live or
56.13 prerecorded, initiated by the person in the constantly attended location.

56.14 **Exception:** Where no constantly attended location exists, an automatic fire
56.15 alarm system providing a general evacuation signal or an approved emergency
56.16 voice/alarm communications system is permitted.

56.17 **907.2.1.3 System initiation in Group A occupancies with occupant load of**
56.18 **1,000 or more.** Activation of the fire alarm system in Group A occupancies with
56.19 an occupant load of 1,000 or more shall immediately initiate an approved
56.20 prerecorded message announcement using an approved emergency voice/alarm
56.21 communications system in accordance with NFPA 72.

56.22 **Exception:** Where approved, the prerecorded announcement is allowed to be
56.23 manually deactivated for a period of time, not to exceed three minutes, for
56.24 the sole purpose of allowing a live voice announcement from an approved,
56.25 constantly attended location.

57.1 [For text of subpart 4, see Minnesota Rules]

57.2 Subp. 5. **IFC section 907.2.3.** IFC section 907.2.3 is amended, and sections added,
57.3 to read:

57.4 **907.2.3 Group E, general.** A fire alarm system shall be installed in accordance with
57.5 Sections 907.2.3 through 907.2.3.3 in Group E occupancies having an occupant load
57.6 of 50 or more.

57.7 **907.2.3.1 Initiation.** Initiation of the fire alarm system shall be by manual and
57.8 automatic means. Approved automatic fire detectors shall be provided in laundry
57.9 rooms, boiler and furnace rooms, mechanical and electrical rooms, shops,
57.10 laboratories, kitchens, locker rooms, custodial closets, trash-collection rooms,
57.11 storage rooms, lounges₂ and similar areas.

57.12 ~~Exceptions~~ Exception:

57.13 ~~1.~~ In buildings protected throughout by an approved ~~fire~~ automatic
57.14 sprinkler system or having an approved fire alarm system equipped with
57.15 corridor smoke detection, manual fire alarm boxes are only required in
57.16 ~~the~~ any main office and in a any custodial area.

57.17 ~~2.~~ Where all corridors are protected by an approved automatic fire alarm
57.18 ~~system having smoke detection with alarm verification~~, manual fire alarm
57.19 ~~boxes are only required near exits serving shops, chemistry and physics~~
57.20 ~~laboratories, boiler rooms, industrial technology and industrial arts rooms,~~
57.21 ~~kitchens, custodian's offices and main offices.~~

57.22 **907.2.3.2 Travel through adjoining rooms.** Where the only means of egress
57.23 travel from an interior room or rooms having an aggregate occupant load of more
57.24 than ~~ten~~ 10 occupants is through an adjoining or intervening room, automatic

58.1 smoke detectors shall be installed throughout the common atmosphere through
58.2 which the path of egress travel passes.

58.3 **Exception:** In buildings that are protected throughout by an approved
58.4 automatic sprinkler system installed in accordance with Section 903.3.1.1,
58.5 smoke detectors are not required in intervening or adjoining rooms.

58.6 **907.2.3.3 Notification.** Activation of the fire alarm system or automatic sprinkler
58.7 system shall initiate ~~a general evacuation signal~~ an emergency voice/alarm
58.8 communication system meeting the requirements of Section 907.5.2.2 and installed
58.9 in accordance with Section 907.6.

58.10 **Exception:** An emergency voice/alarm communication system is not required
58.11 in Group E occupancies with occupant loads of 100 or less, as long as the
58.12 activation of the fire alarm system or automatic sprinkler system in those
58.13 occupancies initiates a general evacuation signal.

58.14 *[For text of subpart 6, see Minnesota Rules]*

58.15 Subp. 7. **IFC section 907.2.5.** IFC section 907.2.5 is amended, and sections added,
58.16 to read:

58.17 **907.2.5 Group H, general.** A fire alarm system shall be installed in accordance with
58.18 Sections 907.2.5 through 907.2.5.2 in Group H-5 occupancies, occupancies used for
58.19 the manufacture of organic coatings and, when required by Chapters 60, 62, and 63,
58.20 at the following locations:

- 58.21 1. rooms or areas where highly toxic compressed gases are stored or used;
- 58.22 2. rooms or areas where Class I, II₂ or III organic peroxides are stored; and
- 58.23 3. liquid and solid oxidizer storage areas.

59.1 **907.2.5.1 Initiation.** Initiation of the fire alarm system in Group H-5 occupancies
59.2 and in occupancies used for the manufacture of organic coatings shall be by manual
59.3 means. Initiation of fire alarm systems installed for highly toxic gases, organic
59.4 peroxides, and oxidizers shall be by automatic means, as specified in Chapters 60,
59.5 62, and 63.

59.6 **907.2.5.2 Notification.** Activation of the fire alarm system in Group H-5
59.7 occupancies and in occupancies used for the manufacture of organic coatings shall
59.8 initiate a general evacuation signal. Activation of the automatic detection systems
59.9 installed for highly toxic gases, organic peroxides, and oxidizers shall sound a
59.10 local alarm.

59.11 Subp. 8. **IFC section 907.2.6.** IFC section 907.2.6 and all subsections are deleted in
59.12 their entirety and replaced with the following:

59.13 **907.2.6 Group I, general.** A fire alarm system shall be installed in accordance with
59.14 Sections ~~907.2.6~~ 907.2.6.1 through 907.2.6.4.2 in Group I occupancies.

59.15 **907.2.6.1 Group I-1 occupancies, general.** A manual and automatic fire alarm
59.16 system shall be installed in Group I-1 occupancies in accordance with Sections
59.17 907.2.6.1.1 through 907.2.6.1.3.

59.18 **907.2.6.1.1 Initiation.** Initiation of the fire alarm system shall be by manual
59.19 and automatic means. Approved automatic fire detectors shall be installed in
59.20 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
59.21 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
59.22 trash-collection rooms, storage rooms, lounges, gift shops, and similar areas.
59.23 Automatic smoke detectors shall be provided in corridors and areas that are
59.24 open to corridors.

60.1 **Exception:** Manual fire alarm boxes in patient sleeping areas of Group
60.2 I-1 occupancies shall not be required at exits if located at all nurses'
60.3 stations or other constantly attended staff locations, provided such fire
60.4 alarm boxes are visible and continuously accessible, if and provided that
60.5 travel distances required by Section 907.4.2 are not exceeded.

60.6 **907.2.6.1.2 Notification.** Activation of the fire alarm system or automatic
60.7 sprinkler system shall initiate a general evacuation signal. In addition,
60.8 activation of the fire alarm system shall immediately transmit an alarm to an
60.9 approved central station or remote station service.

60.10 **Exceptions:**

60.11 1. In lieu of audible notification appliances, visible notification appliances
60.12 shall be allowed to be used in critical care areas.

60.13 2. Where occupants are incapable of evacuating themselves because of
60.14 age, physical/mental disabilities or physical restraint, only the attendants
60.15 or other personnel required to evacuate occupants from a zone, area,
60.16 floor₂ or building shall be required to be notified. This notification shall
60.17 include means to readily identify the zone, area, floor₂ or building in need
60.18 of evacuation.

60.19 **907.2.6.1.3 Sleeping room smoke alarms.** Smoke alarms shall be installed
60.20 in resident sleeping rooms in accordance with Section ~~907.2.11.1~~ 907.2.10.2.

60.21 **907.2.6.2 Group I-2 occupancies, general.** A manual and automatic fire alarm
60.22 system shall be installed in Group I-2 occupancies in accordance with Sections
60.23 ~~907.2.6.2~~ 907.2.6.2.1 through 907.2.6.2.4.

60.24 **907.2.6.2.1 Initiation.** Initiation of the fire alarm system shall be by manual
60.25 and automatic means. Approved automatic fire detectors shall be installed in

61.1 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
61.2 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
61.3 trash-collection rooms, storage rooms, lounges, gift shops, and similar areas.
61.4 Hospitals, nursing homes (both intermediate care and skilled nursing facilities),
61.5 board and care homes, and detoxification facilities shall be provided with
61.6 smoke detection throughout the corridor and areas open to the corridors, other
61.7 than nurse's stations.

61.8 **Exceptions:**

61.9 1. Corridor smoke detection shall not be required where the sleeping
61.10 room smoke detectors required in Section 907.2.6.2.3 are connected to
61.11 an approved fire alarm system and activate a general evacuation signal.

61.12 2. Manual fire alarm boxes shall not be required at exits from patient
61.13 sleeping areas if located at all nurses' stations or other constantly attended
61.14 staff locations, provided such fire alarm boxes are visible and continuously
61.15 accessible and provided that travel distances horizontally; on the same
61.16 floor shall not exceed 200 feet to reach a manual fire alarm box.

61.17 **907.2.6.2.2 Notification.** Activation of the fire alarm system or automatic
61.18 sprinkler system shall initiate a signal that is distinctive from audible signals
61.19 used for other purposes in the same building. Such signal is intended to notify
61.20 staff and need not meet the minimum sound pressure levels required for general
61.21 evacuation fire alarm notification. In addition, activation of the fire alarm
61.22 system shall immediately transmit an alarm to an approved central station or
61.23 remote station service.

61.24 **Exceptions:**

62.1 1. In lieu of audible notification appliances, visible notification appliances
62.2 shall be allowed to be used in critical care areas.

62.3 2. Where occupants are incapable of evacuating themselves because of
62.4 age, physical/mental disabilities, or physical restraint, only the attendants
62.5 or other personnel required to evacuate occupants from a zone, area,
62.6 floor, or building shall be required to be notified. This notification shall
62.7 include means to readily identify the zone, area, floor, or building in need
62.8 of evacuation.

62.9 3. Where total evacuation of occupants is impractical due to building
62.10 configuration, only the occupants in the affected zones shall be initially
62.11 notified. Provisions shall be made to selectively notify occupants in other
62.12 zones to afford orderly evacuation of the entire building.

62.13 **907.2.6.2.3 Patient room smoke detectors.** Smoke detectors shall be installed
62.14 in patient sleeping rooms of hospitals and nursing homes. Such detector's
62.15 primary power shall be other than battery power. Actuation of such detectors
62.16 shall cause a visual display on the corridor side of the room where the detector
62.17 is located and shall cause a distinct audible and visual alarm at the nurse's
62.18 station attending the room. Such detectors may be part of the facility's fire
62.19 alarm system, nurse's call system, or a standalone system.

62.20 **907.2.6.2.3.1 Integral smoke detectors for automatic door-closing**
62.21 **devices.** Integral smoke detectors for automatic door-closing devices on
62.22 sleeping room doors can ~~meet the requirement for patient room smoke~~
62.23 ~~detectors found in Section 907.2.6.2.3 provided they perform all the~~
62.24 ~~required alerting functions found~~ be installed only if they also meet all
62.25 of the requirements in Section 907.2.6.2.3.

63.1 **907.2.6.2.4 Sleeping room smoke alarms.** For Group I-2 facilities, other
63.2 than hospitals and nursing homes, single station smoke alarms shall be installed
63.3 in resident sleeping rooms.

63.4 **907.2.6.3 Group I-3 occupancies, general.** A manual and automatic fire alarm
63.5 system shall be installed in Group I-3 occupancies in accordance with Sections
63.6 ~~907.2.6.3~~ 907.2.6.3.1 through 907.2.6.3.4.

63.7 **907.2.6.3.1 Initiation.** Initiation of the fire alarm system shall be by manual
63.8 and automatic means. Approved automatic fire detectors shall be installed in
63.9 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
63.10 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
63.11 trash-collection rooms, storage rooms, lounges, gift shops, commissaries₂ and
63.12 similar areas. Actuation of an automatic fire-extinguishing system, a manual
63.13 fire alarm box or a fire detector shall initiate an approved fire alarm signal,
63.14 which automatically notifies staff. Presignal systems shall not be used.

63.15 **907.2.6.3.2 Manual fire alarm boxes.** Manual fire alarm boxes are not
63.16 required to be located in accordance with Section 907.4 where the fire alarm
63.17 boxes are provided at staff-attended locations having direct supervision over
63.18 areas where manual fire alarm boxes have been omitted.

63.19 Manual fire alarm boxes are permitted to be locked in areas occupied by detainees,
63.20 provided that staff members are present within the subject area and have keys
63.21 readily available to operate the manual fire alarm boxes.

63.22 **907.2.6.3.3 Smoke detectors.** An approved automatic smoke-detection system
63.23 shall be installed throughout resident housing areas, including sleeping areas
63.24 and contiguous day rooms, group activity spaces₂ and other common spaces
63.25 normally accessible to residents.

64.1 **Exceptions:**

64.2 1. Other approved smoke-detection arrangements providing equivalent
64.3 protection, such as placing detectors in exhaust ducts from cells or behind
64.4 protective grills, are allowed when necessary to prevent damage or
64.5 tampering.

64.6 2. Smoke detectors are not required in sleeping rooms with four or fewer
64.7 occupants in smoke compartments that are equipped throughout with an
64.8 approved automatic sprinkler system.

64.9 **907.2.6.3.4 Notification.** Activation of the fire alarm system or automatic
64.10 sprinkler system shall initiate a signal that is distinctive from audible signals
64.11 used for other purposes in the same building. Such signal is intended to notify
64.12 staff and need not meet the minimum sound pressure levels required for general
64.13 evacuation fire alarm notification. In addition, activation of the fire alarm
64.14 system shall immediately transmit an alarm to an approved central station or
64.15 remote station service.

64.16 **907.2.6.4 Group I-4 occupancies, general.** A manual and automatic fire alarm
64.17 system shall be installed in Group I-4 occupancies in accordance with Sections
64.18 907.2.6.4.1 through 907.2.6.4.2.

64.19 **907.2.6.4.1 Initiation.** Initiation of the fire alarm system shall be by manual
64.20 and automatic means. Approved automatic fire detectors shall be installed in
64.21 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
64.22 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
64.23 trash-collection rooms, storage rooms, lounges, gift shops, and similar areas.
64.24 Automatic smoke detectors shall be provided in corridors and areas that are
64.25 open to corridors.

65.1 **907.2.6.4.2 Notification.** Activation of the fire alarm system or automatic
65.2 sprinkler system shall initiate a general evacuation signal. In addition,
65.3 activation of the fire alarm system shall immediately transmit an alarm signal
65.4 to an approved central station or remote station service.

65.5 *[For text of subpart 9, see Minnesota Rules]*

65.6 Subp. 10. **IFC section 907.2.8.** IFC section 907.2.8 and all subsections are deleted in
65.7 their entirety and replaced with the following:

65.8 **907.2.8 Group R-1, general.** A fire alarm system shall be installed in accordance with
65.9 Sections ~~907.2.8~~ 907.2.8.1 through 907.2.8.3 in Group R-1 occupancies.

65.10 **Exceptions:**

65.11 1. A fire alarm system is not required in buildings not over two stories in height
65.12 where all individual sleeping units and contiguous attic and crawl spaces are
65.13 separated from each other and public or common areas by at least one-hour fire
65.14 partitions and each sleeping unit has an exit directly to a public way, exit court or
65.15 yard.

65.16 2. Buildings containing five or fewer sleeping units shall be allowed to be equipped
65.17 with approved multiple-station smoke alarms installed as required for Group R-3
65.18 occupancies. Installation shall be in accordance with Section ~~907.2.11~~ 907.2.10.

65.19 **907.2.8.1 Initiation.** Initiation of the fire alarm system shall be by automatic
65.20 means. Approved automatic fire detectors shall be provided in boiler and furnace
65.21 rooms, shops, laundry and soiled linen rooms, mechanical and electrical rooms,
65.22 trash-collection rooms, storage rooms, gift shops, kitchens, locker rooms, custodial
65.23 closets, lounges, and similar areas. Automatic smoke detectors shall be provided
65.24 in all common areas and interior corridors serving as required means of egress.

66.1 **Exception:** System fire and smoke detectors are not required when an
66.2 approved automatic fire-extinguishing system is installed in accordance with
66.3 Section 903.3.1.1 or 903.3.1.2 and a manual fire alarm box is provided at a
66.4 constantly attended location. When a constantly attended location is not
66.5 provided, the manual fire alarm box shall be provided at the main exit.

66.6 **907.2.8.2 Notification.** Activation of the fire alarm system or automatic sprinkler
66.7 system shall initiate a general evacuation signal.

66.8 **907.2.8.3 Sleeping unit smoke alarms.** Sleeping unit smoke alarms required by
66.9 Section ~~907.2.11~~ 907.2.10 shall not be connected to a fire alarm system.

66.10 **Exception:** Connection of such alarms for annunciation only.

66.11 Subp. 11. **IFC section 907.2.9.** IFC section 907.2.9 is amended, and sections added,
66.12 ~~to read~~ and all subsections are deleted and replaced with the following:

66.13 **907.2.9 Groups R-2 and R-4, general.** Fire alarm systems and smoke alarms shall be
66.14 installed in Group R-2 and Group R-4 occupancies. Group R-2 occupancies shall
66.15 comply with Sections 907.2.9.1 through 907.2.9.1.3. Group R-4 occupancies shall
66.16 comply with Sections 907.2.9.2 through 907.2.9.2.3.

66.17 ~~907.2.9~~ **907.2.9.1 Group R-2, general.** A fire alarm system shall be installed in
66.18 accordance with Sections ~~907.2.9~~ 907.2.9.1 through ~~907.2.9.2~~ 907.2.9.1.2 in Group
66.19 R-2 occupancies where:

- 66.20 1. any sleeping unit or dwelling unit is located two or more stories above the
66.21 story containing the lowest level of exit discharge;
- 66.22 2. any sleeping unit or dwelling unit is located more than one story below the
66.23 highest level of exit discharge of exits serving the dwelling unit;
- 66.24 3. the building contains more than 16 dwelling units or sleeping units; or

67.1 4. the building is used as a congregate living facility, dormitory, convent,
67.2 monastery, fraternity, sorority, group home, or shelter and has an occupant
67.3 load of 20 or more.

67.4 **Exception:** A fire alarm system is not required in buildings not over two
67.5 stories in height where all dwelling units and contiguous attic and crawl
67.6 spaces are separated from each other and public or common areas by at
67.7 least one-hour fire partitions and each dwelling unit has an exit directly
67.8 to a public way, exit court, or yard.

67.9 ~~907.2.9.1~~ 907.2.9.1.1 **Initiation.** Initiation of the fire alarm system shall be
67.10 by automatic means. Automatic fire detectors shall be provided in boiler and
67.11 furnace rooms, trash-collection rooms, shops, laundry rooms, common
67.12 kitchens, locker rooms, lounges, mechanical and electrical rooms, storage
67.13 rooms, and similar areas. Automatic smoke detectors shall be provided in all
67.14 common areas and interior corridors serving as a required means of egress.

67.15 **Exception:** System fire and smoke detectors are not required when an
67.16 approved automatic fire-extinguishing system is installed throughout the
67.17 building.

67.18 ~~907.2.9.2~~ 907.2.9.1.2 **Notification.** Activation of the fire alarm system or
67.19 automatic sprinkler system shall initiate a general evacuation signal.

67.20 ~~907.2.9.3~~ 907.2.9.1.3 **Dwelling unit smoke alarms.** Dwelling unit smoke
67.21 alarms required by Section ~~907.2.11~~ 907.2.10 shall not be connected to the
67.22 building fire alarm system.

67.23 **Exception:** Connection of such alarms for annunciation only.

67.24 ~~Subp. 11a. IFC section 907.2.10.~~ IFC section 907.2.10 is amended to read as follows:

68.1 **~~907.2.10~~ 907.2.9.2 Group R-4, general.** A fire alarm system shall be installed in
68.2 accordance with Sections ~~907.2.10~~ 907.2.9.2.1 through ~~907.2.10.3~~ 907.2.9.2.3 in
68.3 Group R-4 occupancies.

68.4 **Exceptions:**

68.5 1. A fire alarm system is not required in buildings two stories or less in height
68.6 where all individual sleeping units and ~~contiguous~~ attic and crawl spaces
68.7 contiguous to those units are separated from each other and public or common
68.8 areas by at least one-hour fire partitions and each sleeping unit room has an
68.9 exit directly to a public way, exit court, or yard.

68.10 2. Buildings containing five or fewer sleeping units ~~shall be allowed~~ are
68.11 permitted to be equipped with approved multiple-station smoke alarms installed
68.12 as required for Group R-3 occupancies. Installation shall be in accordance
68.13 with Section ~~907.2.11~~ 907.2.10.

68.14 **~~907.2.10.1~~ 907.2.9.2.1 Initiation.** Initiation of the fire alarm system shall be
68.15 by automatic means. Approved automatic fire detectors shall be provided in
68.16 boiler and furnace rooms, shops, laundry and soiled linen rooms, mechanical
68.17 and electrical rooms, common kitchens, lounges, trash-collection rooms,
68.18 storage rooms, gift shops, locker rooms, and similar areas. Automatic smoke
68.19 detectors shall be provided in all common areas and interior corridors serving
68.20 as required means of egress.

68.21 **Exception:** System fire and smoke detectors are not required when an
68.22 approved automatic fire-extinguishing system is installed in accordance
68.23 with section 903.3.1.1, 903.3.1.2, or 903.3.1.3.

68.24 **~~907.2.10.2~~ 907.2.9.2.2 Notification.** Activation of the fire alarm system or
68.25 automatic sprinkler system shall initiate a general evacuation signal.

69.1 ~~907.2.10.3~~ 907.2.9.2.3 **Smoke alarms.** Single and ~~multistation~~ multiple-station
69.2 smoke alarms shall be installed in accordance with Section ~~907.2.11~~ 907.2.10.

69.3 Subp. 12. [Repealed, 40 SR 1437]

69.4 Subp. 13. [See repealer.]

69.5 Subp. 14. [Repealed, 40 SR 1437]

69.6 Subp. 15. **IFC section 907.2.** IFC section 907.2 is amended by adding sections to
69.7 read:

69.8 **907.2.24 Residential hospices.** A fire alarm system shall be installed in accordance
69.9 with ~~Section 907.2.24~~ Sections 907.2.24.1 and 907.2.24.2 in residential hospices. When
69.10 automatic sprinkler systems or automatic fire detectors are installed, such systems or
69.11 detectors shall be connected to the building fire alarm system.

69.12 **907.2.24.1 Initiation.** Initiation of the fire alarm system shall be by manual and
69.13 automatic means. Approved automatic fire detectors shall be provided in boiler
69.14 and furnace rooms, kitchens, laboratories, shops, gift shops, commissaries, laundry
69.15 and soiled linen rooms, mechanical and electrical rooms, locker rooms, storage
69.16 rooms, ~~janitors'~~ custodial closets, trash-collection rooms, lounges, and similar
69.17 areas. Automatic smoke detectors shall be provided in sleeping rooms, corridors,
69.18 and spaces open to the corridors.

69.19 **Exception:** Manual fire alarm boxes are not required at exits if manual fire
69.20 alarm boxes are located at all nurses' stations or other constantly attended
69.21 staff locations, provided such fire alarm boxes are visible and continuously
69.22 accessible and that travel distances required by Section ~~907.4.1~~ 907.4.2 are
69.23 not exceeded.

69.24 **907.2.24.2 Notification.** Activation of the fire alarm system or automatic sprinkler
69.25 system shall initiate a general evacuation signal. In addition, the fire alarm system

70.1 shall be monitored by an approved central station service in accordance with
70.2 Section 903.4.1.

70.3 **Exception:** In lieu of audible notification appliances, visible notification
70.4 appliances shall be allowed to be used in sleeping areas.

70.5 Subp. 15a. **IFC section 907.3.** IFC section 907.3 is amended and sections added to
70.6 read:

70.7 **907.3 Fire safety functions.** Automatic fire detectors required by Section 907.2 and Chapter
70.8 11 are to activate notification appliances in accordance with those sections. When automatic
70.9 fire detectors are installed for other fire safety functions, they shall perform the intended
70.10 function upon activation. When automatic detectors are installed for fire safety functions
70.11 and the building has a fire alarm system, the detectors shall activate supervisory signals at
70.12 the fire alarm control panel or at a constantly attended location. When the building does not
70.13 have a fire alarm system, the detectors shall activate a visual and audible supervisory signal
70.14 at an approved location, which shall indicate the source of the signal.

70.15 **907.3.1 Air distribution and air-handling systems.** Smoke detectors installed to shut
70.16 down the air distribution or air-handling system shall, upon activation, perform the
70.17 intended function. Air distribution or air-handling equipment that is part of a
70.18 smoke-control system shall switch to smoke-control mode upon activation of a detector.

70.19 **907.3.1.1 Fire alarm system interface.** Smoke detectors that are installed in air
70.20 distribution or air-handling systems for shutdown purposes and that are connected
70.21 to a fire alarm system shall not sound a general evacuation signal.

70.22 **907.3.2 Elevator control functions.** Smoke detectors that are installed to control or
70.23 recall elevators or to control doors for elevators, elevator lobbies, or elevator shafts
70.24 and that are connected to a fire alarm system shall not sound a general evacuation
70.25 signal. Elevator recall and firefighter's emergency operation for elevators shall only be

71.1 controlled by elevator smoke detectors and shall not initiate upon other building fire
71.2 detectors or evacuation signals.

71.3 **907.3.3 Door hold-open functions.** Smoke detectors that are installed to hold open
71.4 fire doors under nonemergency conditions and that are connected to a fire alarm system
71.5 shall sound a general evacuation signal when the doors being held open are part of the
71.6 means of egress corridor or stair system. Door hold-open smoke detectors are not
71.7 required to activate a visual or audible signal.

71.8 (Section 907.3.4 still applies.)

71.9 Subp. 15b. **IFC section 907.6.5 907.5.2.1.2.** IFC section ~~907.6.5 907.5.2.1.2~~ is deleted
71.10 amended to read:

71.11 **907.5.2.1.2 Maximum sound pressure.** Fire alarm system audibility levels
71.12 shall not exceed 35 dB above the average ambient sound level described in
71.13 Section 907.5.2.1.1 or 35 dB above the peak ambient sound level. The
71.14 maximum sound pressure level for audible alarm notification appliances shall
71.15 be 110 dBA at the minimum hearing distance from the audible appliance.
71.16 Where the average ambient noise is greater than 95 dBA, visible alarm
71.17 notification appliances shall be provided in accordance with NFPA 72 and
71.18 audible alarm notification appliances shall not be required.

71.19 Subp. 15c. **IFC section 907.6.6.** IFC section 907.6.6 is amended to read as follows:

71.20 **907.6.6 Monitoring.** Where provided, monitoring of fire alarm systems shall comply
71.21 with Sections 907.6.6.1 and 907.6.6.2.

71.22 (The exceptions are removed. Subsections 907.6.6.1 and 907.6.6.2 remain unchanged.)

71.23 *[For text of subparts 16 to 25, see Minnesota Rules]*

72.1 **7511.0909 SECTION 909, SMOKE CONTROL SYSTEMS.**

72.2 Subpart 1. [Repealed, 40 SR 1437]

72.3 Subp. 1a. **IFC section 909.1.** IFC section 909.1 is amended to read as follows:

72.4 **909.1 Scope and purpose.** This section applies to mechanical or passive smoke control
72.5 systems when they are required for new buildings or portions thereof by provisions of this
72.6 ~~section code or Minnesota Rules, chapter 1305~~ the Building Code. The purpose of this
72.7 section is to establish minimum requirements for the design, installation, and acceptance
72.8 testing of smoke control systems that are intended to provide a tenable environment for the
72.9 evacuation or relocation of occupants and for fire suppression and overhaul efforts. These
72.10 provisions are not intended for the preservation of contents or the timely restoration of
72.11 operations.

72.12 Subp. 1b. **IFC section 909.4.6.** IFC section 909.4.6 is amended to read as follows:

72.13 **909.4.6 Duration of operations.** All portions of the active or passive smoke control
72.14 system shall be capable of continued operation after detection of the fire event for a
72.15 period of not less than 20 minutes. System design shall be for 20 minutes; however
72.16 fans shall continue to operate after 20 minutes and shall continue to operate
72.17 automatically for smoke removal during fire suppression and overhaul efforts for a
72.18 minimum of 5 minutes for every 10 feet ~~of height~~ vertically of the protected space.

72.19 Subp. 1c. **IFC section ~~909.4.7~~ 909.4.8.** IFC section 909.4 is amended by adding a
72.20 section to read as follows:

72.21 **~~909.4.7~~ 909.4.8 Door opening force.** With any of the design methods allowed by
72.22 Section 909, the door opening force, latch release, and set-in-motion force shall comply
72.23 with Section ~~1008.1.3~~ 1010.1.3 requirements when the system is in smoke control
72.24 mode.

73.1 Subp. 1d. **IFC section 909.20.** IFC section 909.20 is amended and a section added to
73.2 read:

73.3 **909.20 Maintenance.** Smoke control systems and post-fire smoke exhaust systems shall
73.4 be maintained to ensure to a reasonable degree that the system is capable of controlling
73.5 smoke for the duration required. The system shall be maintained in accordance with the
73.6 manufacturer's instructions and Sections 909.20.1 through ~~909.20.6~~ 909.20.7.

73.7 (Sections 909.20.1 to ~~909.20.5~~ 909.20.6 remain unchanged.)

73.8 ~~909.20.6~~ 909.20.7 **Qualifications.** Special inspection agencies for smoke control shall
73.9 have expertise in fire protection engineering, mechanical engineering, and certification
73.10 as air balancers.

73.11 Subp. 2. **IFC section ~~909.21~~ 909.22.** IFC section 909 is amended by adding a section
73.12 to read:

73.13 ~~909.21~~ 909.22 **High-rise and covered mall smoke-exhaust systems.** High-rise buildings,
73.14 not provided with a smoke control or a post-fire smoke exhaust system, shall be equipped
73.15 with a smoke removal system installed and maintained in accordance with the Building
73.16 Code. Covered mall buildings exceeding 50,000 square feet (4,645 m²) in floor area,
73.17 excluding anchor stores, and not provided with a smoke control system, shall be equipped
73.18 with a post-fire smoke exhaust system installed and maintained in accordance with the
73.19 Building Code.

73.20 **7511.0910 SECTION 910, SMOKE AND HEAT ~~VENTS~~ REMOVAL.**

73.21 Subpart 1. **IFC section 910.1.** IFC section 910.1 is amended by adding sections to
73.22 read:

73.23 **910.1.1 Required venting method.** Required smoke and heat venting shall be
73.24 accomplished with mechanical smoke exhaust according to Section 910.4.

74.1 **Exceptions:**

74.2 1. Calculated engineering design of mechanical smoke exhaust in accordance with
74.3 Section 910.5 shall be permitted for buildings sprinklered throughout.

74.4 2. For ~~nonsprinklered~~ non-sprinklered buildings, smoke and heat vents as specified
74.5 in Section 910.3 shall be permitted.

74.6 3. Where approved by the fire code official, smoke and heat vents as specified in
74.7 Section 910.3 shall be permitted in sprinklered buildings.

74.8 **910.1.2 Listing.** Smoke and heat vents and mechanical smoke exhaust fans shall be
74.9 listed for the intended purpose.

74.10 **910.1.3 Curtain boards.** When mechanical smoke exhaust is provided in accordance
74.11 with Section 910.4 or 910.5, curtain boards are only required at the separation between
74.12 areas protected with early suppression fast response (ESFR) sprinklers and conventional
74.13 sprinkler systems.

74.14 Subp. 2. **IFC section 910.4.** IFC section 910.4 is amended to read:

74.15 **910.4 Mechanical smoke exhaust.** Mechanical smoke exhaust shall be in accordance with
74.16 Sections 910.4.1 through 910.4.7.

74.17 (Subsections 910.4.1 through 910.4.7 remain unchanged except as amended in subparts
74.18 2a and 3.)

74.19 Subp. 2a. **IFC section 910.4.3.1** IFC section 910.4.3.1 is amended to read:

74.20 **910.4.5 910.4.3.1 Supply air.** Supply air for exhaust fans shall be sized to provide
74.21 a minimum of 50 percent of the required exhaust. Air velocity at each supply air
74.22 opening shall not exceed an average of 200 feet per minute when measured 4 feet
74.23 (1,219 mm) in front of the opening. Openings for supply air shall be uniformly
74.24 distributed around the periphery of the area served and be located or ducted to a

75.1 position not more than one-half the storage height above the floor. Supply air
75.2 openings shall open automatically upon operation of the smoke exhaust system
75.3 and shall not require a manual action at each supply opening for operation. Supply
75.4 air openings shall be kept clear of storage or obstructions to airflow for at least 4
75.5 feet (1,219 mm) in front of the opening. Supply air openings shall be separated
75.6 from exhaust fans and exterior combustibles to prevent introduction of smoke into
75.7 the building.

75.8 Subp. 3. **IFC section ~~910.4.3~~ 910.4.4.** IFC section ~~910.4.3~~ 910.4.4 is amended to read:
75.9 **~~910.4.3~~ 910.4.4 Operation.** Mechanical smoke exhaust fans shall be manually activated.
75.10 Individual manual controls of each fan unit shall also be provided.

75.11 Subp. 4. [Renumbered subp 2a]

75.12 Subp. 5. **IFC section 910.5.** IFC section ~~910~~ is amended by deleting section 910.5
75.13 ~~and replacing it with the following~~ is amended and subsections added to read as follows:

75.14 **910.5 Calculated engineering design of mechanical smoke exhaust.** Calculated engineering
75.15 design of mechanical smoke exhaust shall be in accordance with Sections 910.5.1 through
75.16 910.5.5.

75.17 **910.5.1 Methodology.** Mechanical smoke exhaust systems shall be designed to remove
75.18 smoke after a fire is extinguished and to assist the fire department during suppression
75.19 operations or during marginal sprinkler control situations. They are not considered life
75.20 safety systems and are not designed for occupant safety.

75.21 **910.5.2 Calculation method.** Volumetric flow rate calculations shall demonstrate that
75.22 the system will provide at least three air changes per hour for the space required to be
75.23 provided with smoke exhaust. When only a portion of a space is used for high-piled
75.24 storage requiring smoke exhaust, the volume to be extracted shall be based on the
75.25 ceiling height multiplied by the actual gross floor area for storage.

76.1 **910.5.3 Operation.** Mechanical smoke exhaust fans shall be manually activated. In
76.2 addition, individual manual controls of each fan unit shall also be provided.

76.3 **910.5.4 Supply air.** Supply air for exhaust fans shall be sized to provide a minimum
76.4 of 50 percent of the required exhaust. Air velocity at each supply air opening shall not
76.5 exceed an average of 200 feet per minute when measured 4 feet (1,219 mm) in front
76.6 of the opening. Openings for supply air shall be uniformly distributed around the
76.7 periphery of the area served and be located or ducted to a position not more than one-half
76.8 the storage height above the floor. Supply air openings shall open automatically upon
76.9 operation of the smoke exhaust system and shall not require a manual action at each
76.10 supply opening for operation. Supply air openings shall be kept clear of storage or
76.11 obstructions to airflow for at least 4 feet (1,219 mm) in front of the opening. Supply
76.12 air openings shall be separated from exhaust fans and exterior combustibles to prevent
76.13 introduction of smoke into the building.

76.14 **910.5.5 Equipment.** Wiring and controls shall be as required in ~~Section 910.4.4.~~
76.15 ~~Interlocks~~ Sections 910.4.5 and 910.4.6. Interlock controls shall be as required in
76.16 Section ~~910.4.6~~ 910.4.7. Exhaust fans shall be uniformly spaced and each fan shall
76.17 have a maximum individual capacity of 30,000 cfm (850 m³/min).

76.18 Subp. 6. **IFC section 910.6.** IFC section ~~910.6~~ 910 is amended as follows by adding
76.19 a subsection to read as follows:

76.20 **910.6 Testing and maintenance.** Mechanical smoke exhaust systems shall be tested and
76.21 maintained as required in Sections 910.6.1 through 910.6.4.

76.22 **910.6.1 Acceptance testing.** Mechanical smoke exhaust systems shall be acceptance
76.23 tested as required by Sections 909.18 and 909.19.

76.24 **910.6.1.1 Controls.** For testing purposes, each smoke exhaust system equipped
76.25 for automatic activation shall be put into operation by the actuation of the automatic

77.1 initiating device. Control sequences shall be verified throughout the system,
77.2 including verification of override from the firefighter's control panel when systems
77.3 are equipped for automatic activation.

77.4 **910.6.2 Special inspections.** Special inspections for mechanical smoke exhaust shall
77.5 be conducted according to Section 909.18.8.

77.6 **910.6.3 Maintenance.** Mechanical smoke exhaust systems, including exhaust fans,
77.7 supply air openings and controls, shall be maintained and unobstructed.

77.8 **910.6.4 Operational testing.** Operational testing of the smoke exhaust system shall
77.9 include all equipment such as initiating devices, fans, dampers, controls and supply air
77.10 openings. Mechanical smoke exhaust systems shall be operated and tested under each
77.11 control sequence at least annually.

77.12 Subp. 7. **IFC section 910.7.** IFC section ~~910.7~~ 910 is amended by adding a section
77.13 to read as follows:

77.14 **910.7 Maintenance.** Smoke and heat vents shall be maintained in an operative condition
77.15 in accordance with NFPA 204. Fusible links shall be promptly replaced whenever fused,
77.16 damaged, or painted. Smoke and heat vents shall not be modified.

77.17 **7511.0915 SECTION 915, CARBON MONOXIDE DETECTION.**

77.18 Subpart 1. **IFC section 915.1.1.** IFC section 915.1.1 is amended by adding an exception
77.19 to read:

77.20 **Exception:** In multi-family dwellings, approved and operational carbon monoxide
77.21 alarms may be installed between 15 and 25 feet of carbon monoxide-producing
77.22 central fixtures and equipment provided there is a centralized alarm system or
77.23 other approved mechanism for responsible parties to hear the alarms at all times.

78.1 Subp. 2. IFC section 915.2. IFC section 915.2 and subsections 915.2.1 and 915.2.2
78.2 are amended to read as follows:

78.3 **915.2 Locations.** Where required by Section 915.1.1, carbon monoxide detection shall be
78.4 installed in the locations specified in Sections 915.2.1 through 915.2.3.

78.5 **915.2.1 Dwelling units.** Carbon monoxide detection shall be installed in dwelling units
78.6 outside of each separate sleeping area within 10 feet of the bedrooms. Where a
78.7 fuel-burning appliance is located in a bedroom or its attached bathroom, carbon
78.8 monoxide detection shall be installed within the bedroom.

78.9 **915.2.2 Sleeping units.** Carbon monoxide detection shall be installed in sleeping units.

78.10 **Exception:** Carbon monoxide detection shall be allowed to be installed outside
78.11 of each separate sleeping area within 10 feet of the sleeping unit where the sleeping
78.12 unit or its attached bedroom does not contain a fuel-burning appliance and is not
78.13 served by a forced air furnace.

78.14 (Section 915.2.3 remains unchanged.)

78.15 **7511.1001 SECTION 1001, ADMINISTRATION.**

78.16 Subpart 1. **IFC section 1001.1.** IFC section 1001.1 is amended ~~by adding a section~~
78.17 to read:

78.18 **1001.1 General.** Buildings or portions thereof shall be provided with a means of egress
78.19 system as required by this chapter. The provisions of this chapter shall control the design,
78.20 construction, and arrangement of means of egress components required to provide an
78.21 approved means of egress from structures and portions thereof. Sections 1003 through ~~1029~~
78.22 ~~and Section 1030~~ 1031 shall apply to new construction. Sections 1001, 1002, ~~1030~~ 1031,
78.23 and 1104 shall apply to existing buildings.

79.1 **1001.1.1 Compliance options.** Means of egress installed and maintained in accordance
 79.2 with the Minnesota Residential Code or ~~Minnesota~~ Building Code, when applicable,
 79.3 shall be deemed to comply with this chapter.

79.4 Subp. 1a. [See repealer.]

79.5 *[For text of subpart 2, see Minnesota Rules]*

79.6 **7511.1006 SECTION 1006, NUMBER OF EXITS AND EXIT ACCESS DOORWAYS.**

79.7 Subpart 1. IFC Table 1006.2.1. Table 1006.2.1 is amended to read as follows:

79.8 **TABLE 1006.2.1**

79.9 **SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY**

79.10 Maximum Common Path of Egress Travel Distance (feet)

79.11 Without Sprinkler System (feet)

79.12	79.13	79.14	<u>Maximum</u>		79.14
			<u>Occupant Load</u>	<u>Occupant Load</u>	
79.15			<u>of Space</u>		<u>With Sprinkler</u>
					<u>System (feet)</u>
79.15	<u>Occupancy</u>		<u>OL ≤ 30</u>	<u>OL > 30</u>	
79.16	<u>A^c, E, M</u>	<u>49</u>	<u>75</u>	<u>75</u>	<u>75^a</u>
79.17	<u>B</u>	<u>49</u>	<u>100</u>	<u>75</u>	<u>100^a</u>
79.18	<u>F</u>	<u>49</u>	<u>75</u>	<u>75</u>	<u>100^a</u>
79.19	<u>H-1, H-2, H-3</u>	<u>3</u>	<u>NP</u>	<u>NP</u>	<u>25^b</u>
79.20	<u>H-4, H-5</u>	<u>10</u>	<u>NP</u>	<u>NP</u>	<u>75^b</u>
79.21	<u>I-1, I-2^d</u>	<u>10</u>	<u>NP</u>	<u>NP</u>	<u>75^a</u>
79.22	<u>I-3</u>	<u>10</u>	<u>NP</u>	<u>NP</u>	<u>100^a</u>
79.23	<u>I-4</u>	<u>10</u>	<u>75</u>	<u>75</u>	<u>75^a</u>
79.24	<u>R-1</u>	<u>10</u>	<u>75</u>	<u>75</u>	<u>75^a</u>
79.25	<u>R-2</u>	<u>20</u>	<u>75</u>	<u>75</u>	<u>125^a</u>
79.26	<u>R-3</u>	<u>20</u>	<u>75</u>	<u>75</u>	<u>125^{a,f}</u>

80.1	<u>R-4</u>	<u>20</u>	<u>75</u>	<u>75</u>	<u>125^{a,f}</u>
80.2	<u>S^c</u>	<u>29</u>	<u>100</u>	<u>75</u>	<u>100^a</u>
80.3	<u>U</u>	<u>49</u>	<u>100</u>	<u>75</u>	<u>75^a</u>

80.4 NP = Not Permitted

80.5 ^a Buildings equipped throughout with an automatic sprinkler system in accordance
 80.6 with Section 903.3.1.1 or 903.3.1.2. See Section 903 for occupancies where
 80.7 automatic sprinkler systems are permitted in accordance with Section 903.3.1.2.

80.8 ^b Group H occupancies equipped throughout with an automatic sprinkler system
 80.9 in accordance with Section 903.2.5.

80.10 ^c For a room or space used for assembly purposes having fixed seating, see Section
 80.11 1029.8.

80.12 ^d For the travel distance limitations in Group I-2, see Section 407.4 of the Building
 80.13 Code.

80.14 ^e The common path of egress travel distance in a Group S-2 open parking garage
 80.15 shall not be more than 100 feet.

80.16 ^f For the travel distance limitations in Groups R-3 and R-4 equipped throughout
 80.17 with an automatic sprinkler system in accordance with Section 903.3.1.3, see
 80.18 Section 1006.2.2.6.

80.19 Subp. 2. **IFC section 1006.2.2.1.** IFC section 1006.2.2.1 is amended to read as follows:

80.20 **1006.2.2.1 Boiler, incinerator, and furnace rooms.** Two exit access doorways
 80.21 are required in boiler, incinerator, and furnace rooms where the area is over 500
 80.22 square feet (46 m²) and any fuel-fired equipment exceeds 400,000 British thermal
 80.23 units (Btu) (422,000 kJ) input capacity. Where two exit access doorways are
 80.24 required, one is permitted to be a fixed ladder or an alternating tread device. Exit

81.1 access doorways shall be separated by a horizontal distance equal to one-half the
81.2 length of the maximum overall diagonal dimension of the room. The exit access
81.3 path of travel shall not converge to a separation distance less than one-third the
81.4 length of the maximum overall diagonal dimension of the room.

81.5 Subp. 3. **IFC section 1006.2.2.4.** IFC section 1006.2.2.4 is amended to read as follows:

81.6 **1006.2.2.4 Group E and I-4 means of egress.** Group E and I-4 facilities, rooms,
81.7 or spaces where care is provided for more than ten children that are 2-1/2 years of
81.8 age or less, shall have access to not less than two exits or exit access doorways.

81.9 Subp. 4. **IFC section 1006.2.2.7.** IFC section 1006.2.2 is amended by adding a
81.10 subsection to read as follows:

81.11 **1006.2.2.7 Educational occupancy laboratories and prep areas.** Laboratories
81.12 and prep areas containing hazardous materials shall be provided with not less than
81.13 two means of egress when located in an E occupancy and the space is greater than
81.14 500 square feet.

81.15 Subp. 5. **IFC section 1006.3.3.** IFC section 1006.3.3 is amended to read as follows:

81.16 **1006.3.3 Single exits.** A single exit or access to a single exit shall be permitted from
81.17 any story or occupied roof where one of the following conditions exists.

81.18 1. The occupant load; number of dwelling units or sleeping units; and common
81.19 path of egress travel distance do not exceed the values in Table 1006.3.3(1) or
81.20 1006.3.3(2).

81.21 2. Rooms, areas, and spaces complying with Section 1006.2.1 with exits that
81.22 discharge directly to the exterior at the level of exit discharge, are permitted to
81.23 have one exit or access to a single exit.

82.1 3. Parking garages where the vehicles are mechanically parked shall be permitted
 82.2 to have one exit or access to a single exit.

82.3 4. Group R-3 and R-4 occupancies shall be permitted to have one exit or access
 82.4 to a single exit.

82.5 5. Individual single-story or multi-story dwelling units and sleeping units shall be
 82.6 permitted to have a single exit or access to a single exit from each dwelling unit
 82.7 or sleeping unit, provided that both of the following criteria are met.

82.8 5.1 Each dwelling unit and sleeping unit complies with Section 1006.2.1 as
 82.9 a space with one means of egress.

82.10 5.2 Each sleeping unit and dwelling unit either: (a) has an exit that discharges
 82.11 directly to the exterior at the level of exit discharge; or (b) has an exit access
 82.12 outside the entrance door that provides access to at least two approved
 82.13 independent exits.

82.14 (Subsection 1006.3.3.1 remains unchanged.)

82.15 **7511.1008 [Renumbered 7511.1010]**

82.16 **7511.1009 SECTION 1009, ACCESSIBLE MEANS OF EGRESS.**

82.17 IFC section 1009.1 is amended by adding a new exception to read as follows:

82.18 3. Accessible means of egress is not required for alterations to existing buildings.

82.19 **7511.1009 [Renumbered 7511.1011]**

82.20 **~~7511.1008~~ 7511.1010 SECTION ~~1008~~ 1010, DOORS, GATES AND TURNSTILES.**

82.21 Subpart 1. IFC section 1010.1.5. IFC section 1010.1.5 is amended by modifying
 82.22 exception 5 to read as follows:

83.1 5. Exterior decks, patios, or balconies that are part of Type B dwelling units, have
83.2 impervious surfaces, and that are not more than 2 inches (50 mm) below the finished
83.3 floor level of the adjacent interior space of the dwelling unit.

83.4 ~~Subpart 1. Subp. 1a. IFC sections 1008.1.9.1, 1008.1.9.2, and 1008.1.9.3 section~~
83.5 1010.1.9.1. ~~IFC sections 1008.1.9.1, 1008.1.9.2, and 1008.1.9.3 are section 1010.1.9.1 is~~
83.6 amended to read:

83.7 ~~1008.1.9.1~~ 1010.1.9.1 Hardware. Except as permitted by Section ~~1008.1.9.3~~
83.8 1010.1.9.4, door handles, pulls, latches, locks, and other operating devices on
83.9 doors shall only require a single operation to release the door from the egress side.

83.10 ~~1008.1.9.2 Hardware height.~~ Door handles, pulls, latches, locks, and other
83.11 operating devices shall be installed 34 inches (864 mm) minimum and 48 inches
83.12 (1,219 mm) maximum above the finished floor. Locks used only for security
83.13 purposes and not used for normal operation are permitted at any height.

83.14 Subp. 1b. IFC section 1010.1.9.2. The exception to IFC section 1010.1.9.2 is amended
83.15 to read as follows:

83.16 Exception: The ingress side of access doors or gates in barrier walls and
83.17 fences protecting pools, spas, and hot tubs shall be permitted to have operable
83.18 parts of the latch release on self-latching devices at 54 inches (1,370 mm)
83.19 maximum above the finished floor or ground, provided that the self-latching
83.20 devices are not also self-locking devices operated by means of a key, electronic
83.21 opener, or integral combination lock. All hardware shall comply with Section
83.22 1010.1.9.6.

83.23 Subp. 1c. IFC section 1010.1.9.4. IFC section 1010.1.9.4 is amended to read as
83.24 follows:

84.1 ~~1008.1.9.3~~ 1010.1.9.4 **Locks and latches.** Locks and latches shall be permitted to
84.2 prevent operation of doors where any of the following exists:

84.3 1. Places of detention or restraint.

84.4 2. In buildings in occupancy Group A having an occupant load of 300 or less,
84.5 in buildings in occupancy Groups B, F, M, and S and in places of religious
84.6 worship, the main exterior door or doors are permitted to be equipped with
84.7 key-operated locking devices from the egress side, provided:

84.8 2.1 The locking device is readily distinguishable as locked.

84.9 2.2 A readily visible durable sign is posted on the egress side on or
84.10 adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED
84.11 WHEN BUILDING IS OCCUPIED. The sign shall be in letters 1 inch
84.12 (25 mm) high on a contrasting background.

84.13 2.3 The use of the key-operated locking device is revocable by the fire
84.14 code official for due cause.

84.15 3. Where egress doors are used in pairs, approved automatic flush bolts shall
84.16 be permitted to be used, provided that the door leaf having the automatic flush
84.17 bolts has no doorknob or surface-mounted hardware.

84.18 4. Doors from individual dwelling or sleeping units of Group R occupancies
84.19 having an occupant load of ten or less are permitted to be equipped with a
84.20 night latch, dead bolt₂, or security chain, provided such devices are openable
84.21 from the inside without the use of a key or tool.

84.22 5. Fire doors₂ after the minimum elevated temperature has disabled the
84.23 unlatching mechanism in accordance with listed fire door test procedures.

85.1 6. Doors serving roofs not intended to be occupied shall be permitted to be
 85.2 locked preventing entry to the building from the roof.

85.3 ~~6. 7.~~ Delayed egress locks, installed and maintained in conformance with
 85.4 Section ~~1008.1.9.7~~ 1010.1.9.8.

85.5 ~~7. Special locking arrangements~~ 8. Controlled egress doors installed and
 85.6 maintained in conformance with Section ~~1008.1.9.6~~ are allowed in Group R-3
 85.7 ~~and Group R-4 congregate care facilities and in Group I occupancies~~
 85.8 1010.1.9.7.

85.9 ~~8. Electromagnetically~~ 9. Electrically locked egress doors installed and
 85.10 maintained in ~~accordance~~ conformance with Section ~~1008.1.9.9~~ 1010.1.9.9
 85.11 or 1010.1.9.10.

85.12 ~~9. 10.~~ In rooms, other than detention cells, where occupants are being restrained
 85.13 for safety or security reasons, special detention arrangements that comply
 85.14 with the requirements of Section ~~1008.1.11~~ 1010.1.11 are permitted.

85.15 11. Means of egress stairway doors, installed and maintained in conformance
 85.16 with Section 1010.1.9.12.

85.17 Subp. ~~1a.~~ 1d. **IFC section ~~1008.1.9.6~~ 1010.1.9.7.** IFC section ~~1008.1.9.6~~ 1010.1.9.7
 85.18 is amended to read:

85.19 **~~1008.1.9.6~~ 1010.1.9.7 ~~Special locking arrangements~~ Controlled egress doors**
 85.20 **~~in Group~~ Groups I-1, I-2, R-3, or and R-4 occupancies. ~~Approved special~~**
 85.21 **~~locking arrangements~~ Controlled egress door locking systems, including**
 85.22 **electromechanical locking systems and electromagnetic locking systems, shall be**
 85.23 **permitted in a ~~Group~~ Groups I-1, I-2, R-3, or and R-4 ~~occupancy where the~~**
 85.24 **occupancies when a person's clinical needs of the persons receiving care require**
 85.25 **such locking their containment. ~~Special locking arrangements~~ Controlled egress**

86.1 doors shall be permitted in ~~such~~ these occupancies ~~where~~ when the building is
86.2 equipped throughout with an approved automatic sprinkler system in accordance
86.3 with Section 903.3.1.1 and ~~either~~ an approved automatic smoke ~~or heat~~ detection
86.4 system installed in accordance with Section 907, ~~provided that doors are installed~~
86.5 ~~and operate in accordance~~. Electric locking systems and controlled egress doors
86.6 shall comply with the requirements in items 1 through 10 11 below. ~~Items 1 through~~
86.7 ~~4 shall not apply to doors to areas where persons, because of clinical needs, require~~
86.8 ~~restraint or containment as part of the function of a psychiatric treatment area.~~

86.9 1. The ~~doors~~ egress control locks shall unlock upon actuation of either the
86.10 automatic sprinkler system or the automatic fire smoke detection system within
86.11 the means of egress served by the locked area.

86.12 2. The ~~doors~~ egress control locks shall unlock upon loss of power controlling
86.13 the lock or lock mechanism.

86.14 3. The ~~door locks~~ egress control locking system shall have the capability of
86.15 being unlocked ~~from~~ by a signal or switch from the fire command center, a
86.16 nursing station, or other approved location. The signal or switch shall directly
86.17 break power to the lock.

86.18 4. A building occupant shall not be required to pass through more than one
86.19 door equipped with a ~~special~~ controlled egress lock before entering an exit.

86.20 5. The procedures ~~to operate~~ for the operations of the unlocking system shall
86.21 be described and approved as part of the emergency planning and preparedness
86.22 required by Chapter 4.

86.23 6. All clinical staff shall have the keys, codes, or other means necessary to
86.24 operate the controlled egress locking device devices or systems.

87.1 7. Emergency lighting shall be provided at ~~the~~ both sides of a door equipped
87.2 with a controlled egress locking device.

87.3 8. 24-hour resident or patient supervision is provided within the ~~locked~~ secured
87.4 area.

87.5 9. ~~Locking~~ The controlled egress locking devices are designed to fail in the
87.6 open position.

87.7 10. Floor levels within the building or portion of the building with ~~special~~
87.8 controlled egress locking arrangements devices shall be divided into at least
87.9 two compartments by smoke barriers meeting the requirements of the State
87.10 Minnesota Building Code.

87.11 ~~**Exception to item 10:** In existing Group R-3 occupancies where the~~
87.12 ~~construction of smoke barrier compartmentation is not practical, an~~
87.13 ~~existing sleeping room provided with smoke tight construction and having~~
87.14 ~~an escape window complying with Section 1029 is allowed.~~

87.15 11. The controlled egress door locking system units shall be listed in
87.16 accordance with UL 294.

87.17 **Exceptions to items 1 through 11:**

87.18 1. Items 1 through 4 shall not apply to doors to areas occupied by persons
87.19 who, because of clinical needs, require restraint or containment as part
87.20 of the function of a psychiatric treatment area.

87.21 2. Items 1 through 4 shall not apply to doors to areas where a listed egress
87.22 control system is utilized to reduce the risk of child abduction from
87.23 nursery and obstetric areas of a Group I-2 hospital.

88.1 3. Item 10 shall not apply to existing Group R-3 or R-4, Condition 1
 88.2 occupancies where all of the following conditions apply: (a) the
 88.3 construction of smoke barrier compartmentation is not practical; (b)
 88.4 existing sleeping rooms are provided with smoke-tight construction; and
 88.5 (c) existing sleeping rooms have an emergency escape and rescue opening
 88.6 complying with Section 1030.

88.7 Subp. 2. ~~IFC section 1008.1.9.7~~ sections 1010.1.9.8 and 1010.1.9.8.1. IFC section
 88.8 ~~1008.1.9.7~~ is sections 1010.1.9.8 and 1010.1.9.8.1 are amended to read:

88.9 ~~**1008.1.9.7 Delayed egress door locks.**~~ Approved, listed, delayed egress locks
 88.10 shall be permitted to be installed on doors serving any occupancy except Assembly
 88.11 Group A occupancies and High Hazard Group H occupancies, and assembly uses
 88.12 within Educational Group E occupancies. Delayed egress locks shall be installed
 88.13 only in buildings that are equipped throughout with an automatic sprinkler system
 88.14 in accordance with Section 903.3.1.1 or an approved smoke detection system
 88.15 installed in the means of egress system serving the locked area, provided that the
 88.16 doors unlock in accordance with Items 1 through 4. A building occupant shall not
 88.17 be required to pass through more than one door equipped with a delayed egress
 88.18 lock before entering an exit.

88.19 ~~1. The doors unlock upon actuation of the automatic sprinkler system or~~
 88.20 ~~automatic fire detection system.~~

88.21 ~~2. The doors unlock upon loss of power controlling the lock or lock~~
 88.22 ~~mechanism.~~

88.23 ~~3. The door locks have the capability of being unlocked by a signal from the~~
 88.24 ~~fire command center.~~

89.1 ~~4. The door locks shall include an irreversible process that will release the~~
89.2 ~~latch in not more than 15 seconds when a force of not more than 15 pounds~~
89.3 ~~(66 N) is applied for one second to the release device. Initiation of the~~
89.4 ~~irreversible process shall activate an audible signal in the vicinity of the door.~~
89.5 ~~Once the door lock has been released by the application of force to the~~
89.6 ~~releasing device, relocking shall be by manual means only.~~

89.7 ~~**Exception:** Where approved, a delay of not more than 30 seconds shall~~
89.8 ~~be permitted.~~

89.9 ~~Doors that have been equipped with delayed egress locks shall also comply with~~
89.10 ~~items 1 to 3 below.~~

89.11 ~~1. A sign shall be provided on the door located above and within 12 inches~~
89.12 ~~(305 mm) of the release device reading: PUSH UNTIL ALARM SOUNDS.~~
89.13 ~~DOOR CAN BE OPENED IN 15 SECONDS.~~

89.14 ~~2. Emergency lighting shall be provided at the door.~~

89.15 ~~3. Delayed egress locks shall be maintained and tested in accordance with~~
89.16 ~~this code.~~

89.17 **1010.1.9.8 Delayed egress door locks.** Delayed egress locking systems shall be
89.18 permitted to be installed on doors serving the following occupancies in buildings
89.19 that are equipped throughout with an automatic sprinkler system in accordance
89.20 with Section 903.3.1.1 or an approved smoke detection system installed throughout
89.21 the means of egress in accordance with Section 907:

89.22 1. Group B, F, I, M, R, S, and U occupancies.

89.23 2. Group E in locations where the means of egress does not serve an assembly
89.24 use area.

90.1 **Exception:** Delayed egress locking systems shall be permitted to be
90.2 installed on exit or exit access doors, other than the main exit or exit
90.3 access door, serving a courtroom in buildings equipped throughout with
90.4 an automatic sprinkler system in accordance with Section 903.3.1.1.

90.5 **1010.1.9.8.1 Delayed egress locking system.** The delayed egress locking
90.6 system shall be installed and operated in accordance with one of the following:

90.7 1. The delay electronics of the delayed egress locking system shall
90.8 deactivate upon actuation of the automatic sprinkler system or automatic
90.9 fire detection system, allowing immediate free egress.

90.10 2. The delay electronics of the delayed egress locking system shall
90.11 deactivate upon loss of power controlling the lock or lock mechanism,
90.12 allowing immediate free egress.

90.13 3. The delayed egress locking system shall have the capability of being
90.14 deactivated at the fire command center and other approved locations.

90.15 4. An attempt to egress shall initiate an irreversible process that shall
90.16 allow egress in not more than 15 seconds when a physical effort to exit
90.17 of not more than 15 pounds (67 N) is applied to the egress side door
90.18 hardware for not more than one second. Initiation of the irreversible
90.19 process shall activate an audible signal in the vicinity of the door. Once
90.20 the delay electronics have been deactivated from an approved location,
90.21 relocking the delay electronics shall be by manual means only.

90.22 **Exception to item 4.** Where approved, a delay of not more than 30
90.23 seconds is permitted on a delayed egress door.

90.24 5. The egress path from any point shall not pass through more than one
90.25 delayed egress locking system.

91.1 **Exceptions to item 5.**

91.2 1. In Group I-2 or I-3 occupancies, the egress path from any point
91.3 in the building shall pass through not more than two delayed egress
91.4 locking systems provided that the combined delay does not exceed
91.5 30 seconds.

91.6 2. In Group I-1 or I-4 occupancies, the egress path from any point
91.7 in the building shall pass through not more than two delayed egress
91.8 locking systems provided that the combined delay does not exceed
91.9 30 seconds and the building is equipped throughout with an automatic
91.10 sprinkler system in accordance with Section 903.3.1.1.

91.11 6. A sign shall be provided on the door and shall be located above and
91.12 within 12 inches (305 mm) of the door exit hardware.

91.13 6.1 For doors that swing in the direction of egress, the sign shall
91.14 read: PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED
91.15 IN 15 [30] SECONDS.

91.16 6.2 For doors that swing in the opposite direction of egress, the sign
91.17 shall read: PULL UNTIL ALARM SOUNDS. DOOR CAN BE
91.18 OPENED IN 15 [30] SECONDS.

91.19 6.3 The sign shall comply with the visual character requirements in
91.20 ICC A117.1.

91.21 **Exception to item 6.** Where approved, in Group I occupancies, the
91.22 installation of a sign is not required where care recipients, because
91.23 of clinical needs, require restraint or containment as part of the
91.24 function of the treatment area.

91.25 7. Emergency lighting shall be provided on the egress side of the door.

92.1 8. The delayed egress locking system units shall be listed in accordance
92.2 with UL 294.

92.3 Subp. 2a. ~~IFC section 1008.1.9.11~~ 1010.1.9.12. IFC section ~~1008.1.9.11~~ 1010.1.9.12
92.4 is amended by revising exception 3 to read as follows:

92.5 ~~**1008.1.9.11 Stairway doors.** Interior stairway means of egress doors shall be~~
92.6 ~~openable from both sides without the use of a key or special knowledge or effort.~~

92.7 ~~**Exceptions:**~~

92.8 ~~1. Stairway discharge doors shall be openable from the egress side and~~
92.9 ~~shall only be locked from the opposite side.~~

92.10 ~~2. This section shall not apply to doors arranged in accordance with~~
92.11 ~~Section 403.5.3 of the International Building Code.~~

92.12 ~~3. In stairways serving not more than four stories, doors are permitted to~~
92.13 ~~be locked from the side opposite the egress side. The exit door is permitted~~
92.14 ~~to be locked but shall be openable from the egress side.~~

92.15 ~~4. Stairway exit doors shall be openable from the egress side and shall~~
92.16 ~~only be locked from the opposite side in Group B, F, M, and S~~
92.17 ~~occupancies where the only interior access to the tenant space is from a~~
92.18 ~~single exit stair where permitted in Section 1021.2.~~

92.19 ~~5. Stairway exit doors shall be openable from the egress side and shall~~
92.20 ~~only be locked from the opposite side in Group R-2 occupancies where~~
92.21 ~~the only interior access to the dwelling unit is from a single exit stair~~
92.22 ~~where permitted in Section 1021.2.~~

92.23 Subp. 3. ~~IFC section 1008.1~~ 1010.1. IFC section ~~1008.1~~ 1010.1 is amended by adding
92.24 ~~sections~~ subsections to read:

93.1 ~~1008.1.11~~ 1010.1.11 **Special detention arrangements.** Special detention arrangements
93.2 meeting the requirements of Sections ~~1008.1.11~~ 1010.1.11.1 through ~~1008.1.11.4~~
93.3 1010.1.11.4 are permitted for rooms, other than cells, where the occupants are being
93.4 restrained for safety or security reasons. The use of Sections ~~1008.1.11~~ 1010.1.11.1
93.5 through ~~1008.1.11.4~~ 1010.1.11.4 may be revoked by the ~~fire chief~~ or fire code official
93.6 for due cause.

93.7 ~~1008.1.11.1~~ 1010.1.11.1 **Locking hardware.** Locking devices shall release upon
93.8 any of the following conditions:

- 93.9 1. Activation of the automatic sprinkler system.
- 93.10 2. Activation of any automatic fire detection device.
- 93.11 3. Activation of an automatic fire alarm system.
- 93.12 4. Loss of electrical power to the locking device or the fire alarm system.
- 93.13 5. Activation of the fire alarm trouble signal.
- 93.14 6. Operation of a manual switch located in an approved location.

93.15 All locking devices shall be designed to fail in the open position. Following
93.16 the release of the locking devices for any of the conditions specified in Items
93.17 1 through 6, relocking the devices shall be by manual means only at the door.

93.18 ~~1008.1.11.2~~ 1010.1.11.2 **Fire-extinguishing system.** When special ~~locking~~
93.19 detention arrangements are used, the room or area being secured ~~must~~ shall be
93.20 protected with quick-response sprinklers.

93.21 ~~1008.1.11.3~~ 1010.1.11.3 **Fire alarm and detection.** When special ~~locking~~ detention
93.22 arrangements are used, the room or area and spaces between the room or area and
93.23 an ~~outside~~ exterior exit door shall be protected with automatic smoke detection
93.24 connected to the building's fire alarm system. If the walls of the room or area do

94.1 not extend to the ceiling, automatic smoke detection can be provided in the adjacent
94.2 room or area, provided that there are no substantial obstructions to delay activation
94.3 of the smoke detection.

94.4 ~~1008.1.11.4~~ 1010.1.11.4 **Door swing.** Doors separating detention rooms from
94.5 other spaces must swing in the direction of egress travel from the detention room.

94.6 ~~7511.1009~~ 7511.1011 **SECTION ~~1009~~ 1011, STAIRWAYS.**

94.7 Subpart 1. **IFC section ~~1009.13~~ 1011.14.** IFC section ~~1009.13~~ 1011.14 is amended
94.8 to read:

94.9 ~~1009.13~~ 1011.14 **Alternating tread devices.** Alternating tread devices are limited to an
94.10 element of a means of egress in buildings of Groups F, H, and S from a mezzanine not more
94.11 than 250 square feet (23 m²) in area and which serves not more than five occupants; and in
94.12 buildings of Groups I-3 from a guard tower, observation station, or control room not more
94.13 than 250 square feet (23 m²) in area and for access to unoccupied roofs. Access to mechanical
94.14 equipment or appliances on a roof shall be in accordance with IBC Section ~~1209.3.1~~ 1208.3.1
94.15 and the Minnesota Mechanical Code.

94.16 (IFC sections ~~1009.13.1~~ 1011.14.1, ~~1009.13.2~~ 1011.14.2, and the exception still apply.)

94.17 Subp. 2. **IFC section ~~1009.14~~ 1011.15.** IFC section ~~1009.14~~ is amended to read
94.18 1011.15 and all subsections are deleted in their entirety and replaced with the following:

94.19 ~~1009.14~~ 1011.15 **Ships ladders.** Ships ladders constructed as required for permanent stairs
94.20 in accordance with the Minnesota Rules, part 1305.1209 Mechanical Code, shall be permitted
94.21 to be used as a means of egress component at the following locations:

94.22 1. Ships ladders are permitted to be used in Group I-3 occupancies for means of egress
94.23 at control rooms or elevated facility observation stations not more than 250 square feet
94.24 (23 m²) in floor area.

95.1 2. Ships ladders are permitted to be used as a component for means of egress at recessed
 95.2 or elevated floors or platforms when the area served has an occupant load of five or
 95.3 fewer, and the space meets all of the following criteria:

95.4 2.1 access to the area served is limited to building facilities staff, maintenance
 95.5 staff, employees, or other authorized personnel;

95.6 2.2 required access to the area served is limited and periodic;

95.7 2.3 the area served is used for building maintenance service functions, or for
 95.8 equipment access or monitoring;

95.9 2.4 the area served is not required to have a second means of egress by other
 95.10 provisions of this code; and

95.11 2.5 the area served is not classified as a Group H occupancy.

95.12 3. Ships ladders are permitted to be used for access to unoccupied spaces in accordance
 95.13 with the Minnesota Rules, part 1305.1209 Mechanical Code.

95.14 **7511.1013 [Renumbered 7511.1015]**

95.15 **7511.1013 7511.1015 SECTION ~~1013~~ 1015, GUARDS.**

95.16 Subpart 1. **IFC section ~~1013.2~~ 1015.2 Where required.** IFC section ~~1013.2~~ 1015.2
 95.17 is amended by adding an item 8 to the exception as follows:

95.18 **Exception:**

95.19 8. ~~In accordance with the Minnesota Bleacher Safety Act, Minnesota Statutes,~~
 95.20 ~~section 326B.112, guards are not required on~~ On bleachers 55 inches or less in
 95.21 height, in accordance with the Minnesota Bleacher Safety Act, Minnesota Statutes,
 95.22 section 326B.112.

95.23 Subp. 2. **IFC section ~~1013.3~~ 1015.3 Height.** IFC section ~~1013.3~~ 1015.3 is amended
 95.24 by modifying exception 4 to read as follows:

96.1 4. The guard height in assembly seating areas shall be in accordance with section
96.2 ~~1028.14~~ 1029.17 and the Minnesota Bleacher Safety Act, Minnesota Statutes, section
96.3 326B.112.

96.4 Subp. 2a. IFC section 1015.6 Mechanical equipment, systems, and devices. IFC
96.5 section 1015.6 is amended to read as follows:

96.6 **1015.6 Mechanical equipment, systems, and devices.** Guards shall be designed and
96.7 installed in accordance with the Minnesota Mechanical Code.

96.8 Subp. 3. **IFC section ~~1013.8~~ 1015.8.** IFC section ~~1013.8~~ 1015.8 is amended to read:

96.9 **~~1013.8~~ 1015.8 Window sills openings.** In occupancy groups R-1, R-2, R-3, one- and
96.10 two-family, multiple-family dwellings, and townhouses, where the lowest part of the opening
96.11 of an operable window is located more than 72 inches (1,829 mm) above the finished grade
96.12 or other surface below, the lowest part of the window opening shall be at a height not less
96.13 than 36 inches (914 mm) above the finished floor surface of the room in which the window
96.14 is located. Operable sections of windows shall not permit openings that allow passage of a
96.15 4-inch-diameter (102 mm) sphere where such openings are located within 36 inches (914
96.16 mm) of the finished floor.

96.17 **Exceptions:**

96.18 1. Operable windows where the lowest part of the opening is located more than 75 feet
96.19 (22,860 mm) above the finished grade or other surface below and that are provided
96.20 with window fall-prevention devices that comply with ASTM F 2006.

96.21 2. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass
96.22 through the opening when the window is in its largest opened position.

96.23 3. Openings that are provided with window fall-prevention devices that comply with
96.24 ASTM F 2090.

97.1 4. Windows that are provided with window opening control devices that comply with
97.2 section ~~1013.8.1~~ 1015.8.1.

97.3 5. Replacement windows for occupancy groups R-1, R-2, R-3, one- and two-family,
97.4 multifamily dwellings, and townhouses located on or below the third story above grade
97.5 plane.

97.6 (Subsection 1015.8.1 remains unchanged.)

97.7 ~~**1013.8.1 Window opening control devices.** Window opening control devices shall
97.8 comply with ASTM F 2090. The window opening control device, after operation to
97.9 release the control device allowing the window to fully open, shall not reduce the
97.10 minimum net clear opening area of the window unit to less than the area required by
97.11 section ~~1029.2~~.~~

97.12 **7511.1017 [Renumbered 7511.1018]**

97.13 ~~**7511.1017**~~ **7511.1018** SECTION ~~**1017**~~ **1018**, AISLES.

97.14 IFC section ~~1017~~ 1018 and all subsections are deleted in their entirety and replaced
97.15 with the following:

97.16 **SECTION 1018**

97.17 **AISLES**

97.18 ~~**1017.1**~~ **1018.1** **Aisles and aisle accessways.** Aisles and aisle accessways serving as a portion
97.19 of the exit access in the means of egress system shall comply with the requirements of this
97.20 section. Aisles and aisle accessways shall be provided from all occupied portions of the exit
97.21 access. Aisles and aisle accessways serving assembly areas, other than seating at tables,
97.22 shall comply with Section ~~1028~~ 1029. Aisles and aisle accessways serving reviewing stands,
97.23 grandstands, and bleachers shall comply with Section ~~1028~~ 1029.

98.1 ~~1017.2~~ 1018.2 **Width determination.** Where tables or counters are served by fixed seats,
98.2 the width of the aisle or aisle accessway shall be measured from the back of the seat. Where
98.3 seating is located at a table or counter and is adjacent to an aisle or aisle accessway, the
98.4 measurement of required clear width of the aisle or aisle accessway shall be made to a line
98.5 19 inches (483 mm) away from and parallel to the edge of the table or counter. The 19-inch
98.6 (483 mm) distance shall be measured perpendicular to the side of the table or counter. In
98.7 the case of other side boundaries for aisle or aisle accessways, the clear width shall be
98.8 measured to walls, tread edges, or other obstructions. The required width of aisles and aisle
98.9 accessways shall be unobstructed.

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

98.15 ~~1017.2.1~~ 1018.2.1 **Minimum aisle accessway width.** Aisle accessways not required
98.16 to be accessible by the Minnesota Accessibility Code, Minnesota Rules, chapter 1341,
98.17 shall provide a minimum 12 inches (305 mm) of width, plus 0.5 inch (12.7 mm) of
98.18 width for each additional 1 foot (305 mm), or fraction thereof, beyond 12 feet (3, 658
98.19 mm) of aisle accessway length.

98.20 **Exception:** Portions of an aisle accessway having a length not exceeding 6 feet
98.21 and used by a total of not more than four persons.

98.22 ~~1017.2.2~~ 1018.2.2 **Minimum aisle width.** The minimum clear width shall be determined
98.23 by Section 1005.1 for the occupant load served, but shall not be less than 36 inches
98.24 (914 mm).

99.1 **Exception:** Nonpublic aisles serving fewer than 50 people, and that are not required
 99.2 to be accessible by the Minnesota Accessibility Code, Minnesota Rules, chapter
 99.3 1341, need not exceed 28 inches (711 mm) in width.

99.4 **~~1017.3~~ 1018.3 Length.**

99.5 **~~1017.3.1~~ 1018.3.1 Aisle accessway.** The length of travel along the aisle accessway
 99.6 shall not exceed 30 feet (~~9,144~~ 9,144 mm) to an aisle or exit access doorway.

99.7 **~~1017.3.2~~ 1018.3.2 Aisle.** The length of travel along an aisle or combination aisle
 99.8 accessway and aisle to a point where a person has a choice of two or more paths of
 99.9 egress travel to separate exits or exit access doorways shall not exceed that permitted
 99.10 by Section ~~1014.3~~ 1006.2.1 for common path of egress travel.

99.11 **7511.1018 [Renumbered 7511.1020]**

99.12 **~~7511.1018~~ 7511.1020 SECTION ~~1018~~ 1020, CORRIDORS.**

99.13 Subpart 1. **IFC Table ~~1018.1~~ 1020.1.** IFC Table ~~1018.1~~ 1020.1 is amended as follows:

99.14 **TABLE ~~1018.1~~ 1020.1**

99.15 **CORRIDOR FIRE-RESISTANCE RATING**

		REQUIRED FIRE-RESISTANCE RATING (hours)		
		Without sprinkler system	With sprinkler system ^c	
OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR			
99.21	H-1, H-2, H-3	All	Not permitted	1
99.22	H-4, H-5	Greater than 30	Not permitted	1
99.23	A, B, E, F, M, S,			
99.24	U	Greater than 30	1	0
99.25	R	Greater than 10	1	0.5 ^c /1 ^d
99.26	I-2 ^a , I-4	All	Not permitted	0

100.1	I-1, I-3	All	Not permitted	1 ^b
100.2	<u>I-4</u>	<u>All</u>	<u>1</u>	<u>0</u>

100.3 ^{a-} For requirements for occupancies in Group I-2, see IBC Sections 407.2 and 407.3.

100.4 ^{b-} For a reduction in the fire-resistance rating for occupancies in Group I-3, see IBC Section
100.5 408.8.

100.6 ^{c-} Buildings equipped throughout with an automatic sprinkler system in accordance with
100.7 Section 903.3.1.1 or 903.3.1.2, where allowed.

100.8 ^d Group R-3 and R-4 buildings equipped throughout with an automatic sprinkler system in
100.9 accordance with Section 903.3.1.3. See Section 903.2.8 for occupancies where automatic
100.10 sprinkler systems are permitted in accordance with Section 903.3.1.3.

100.11 Subp. 2. **IFC section ~~1018.6~~ 1020.6.** IFC section ~~1018.6~~ 1020.6 is amended by
100.12 modifying the exceptions to read as follows:

100.13 **Exceptions:**

100.14 1. Foyers, lobbies, or reception rooms constructed as required for corridors shall not
100.15 be construed as intervening rooms if the aggregate area of these spaces does not exceed
100.16 1,000 square feet per floor.

100.17 2. Foyers, lobbies, or reception rooms that are more than 1,000 square feet per floor in
100.18 aggregate area and other rooms or spaces that are constructed as required for corridors
100.19 shall not be construed as intervening rooms when the rooms or spaces meet the
100.20 following:

100.21 (a) The spaces are not occupied as dwelling units, sleeping units, incidental uses
100.22 or hazardous uses.

101.1 (b) The rooms, spaces, or corridors are protected by an automatic smoke detection
 101.2 system that initiates alarm notification devices in all normally occupied rooms or
 101.3 spaces that use the corridor for a means of egress.

101.4 (c) The room or space is arranged so that it does not obstruct access to the required
 101.5 exits.

101.6 (d) Group R occupancies shall be provided with an automatic sprinkler system
 101.7 throughout to allow the use of exception #2.

101.8 3. Enclosed elevator lobbies as permitted by Section 1016.2, item 1, shall not be
 101.9 constructed as intervening rooms.

101.10 **7511.1022 [Renumbered 7511.1023]**

101.11 ~~7511.1022~~ **7511.1023** SECTION ~~1022~~ **1023**, INTERIOR EXIT STAIRWAYS AND
 101.12 **RAMPS.**

101.13 IFC section ~~1022.5~~ 1023.5 is amended to read as follows:

101.14 ~~1022.5~~ **1023.5 Penetrations.** Penetrations into and openings or through interior exit stairways
 101.15 and ramps are prohibited except for required exit doors, the following:

101.16 1. Equipment, and ductwork necessary for independent ventilation or pressurization,

101.17 2. Fire protection systems.

101.18 3. Security systems that serve the exit stairway or ramp.

101.19 4. Wiring that serves the exit stairway or ramp.

101.20 5. Two-way communication systems that serve the exit stairway or ramp.

101.21 6. ~~sprinkler piping, standpipes,~~ Electrical raceway for fire department ~~communications~~
 101.22 communication systems, and.

102.1 7. Electrical raceway serving the interior exit stairway or ramp and terminating at in a
 102.2 steel box not exceeding 16 square inches (0.010 m²).

102.3 Such penetrations shall be protected in accordance with Section 714 of the ~~International~~
 102.4 ~~Building Code~~. There shall not be ~~no~~ penetrations or ~~communicating communication~~
 102.5 openings, whether protected or not, between ~~any other~~ adjacent interior exit stairways and
 102.6 ramps or exit passageways.

102.7 (The exception to Section 1023.5 is deleted.)

102.8 **7511.1023 [Renumbered 7511.1024]**

102.9 **7511.1023 7511.1024 SECTION 1023 1024, EXIT PASSAGEWAYS.**

102.10 IFC section ~~1023.6~~ 1024.6 is amended to read as follows:

102.11 **1023.6 1024.6 Penetrations.** Penetrations into and ~~openings or~~ through an interior exit
 102.12 passageway are prohibited except for ~~required exit doors, equipment, and ductwork necessary~~
 102.13 ~~for independent pressurization, sprinkler piping, standpipes, electrical raceway for fire~~
 102.14 ~~department communication systems, and electrical raceway serving the exit passageway~~
 102.15 ~~and terminating at a steel box not exceeding 16 square inches (0.010 m²).~~ the following:

102.16 1. Equipment and ductwork necessary for independent ventilation or pressurization.

102.17 2. Fire protection systems.

102.18 3. Security systems that serve the exit passageway.

102.19 4. Wiring that serves the exit passageway.

102.20 5. Two-way communication systems that serve the exit passageway.

102.21 6. Electrical raceway for fire department communications systems.

102.22 7. Electrical raceway serving the exit passageway and terminating in a steel box not
 102.23 exceeding 16 square inches (0.010 m²).

103.1 Such penetrations shall be protected in accordance with Section 714 of the ~~International~~
103.2 Building Code. There shall not be ~~no~~ penetrations or ~~communicating~~ communication
103.3 openings, whether protected or not, between ~~any other exit passageway~~ adjacent interior
103.4 exit stairways and ramps or adjacent exit passageways.

103.5 (The exception to Section 1024.6 is deleted.)

103.6 **7511.1028 [Renumbered 7511.1029]**

103.7 **7511.1028 7511.1029 SECTION ~~4028~~ 1029, ASSEMBLY.**

103.8 Subpart 1. **IFC section ~~4028.1.1~~ 1029.1.1.** IFC section ~~4028.1.1~~ 1029.1.1 is amended
103.9 to read as follows:

103.10 **~~4028.1.1~~ 1029.1.1 Bleachers.** Bleachers, grandstands, and folding and telescopic
103.11 seating, that are not building elements, shall comply with International Code Council
103.12 (ICC) 300, with the following amendments to ICC 300:

103.13 a. ICC 300 Section 404.5 is amended by adding an exception as follows:

103.14 **Exception:** Aisles shall not be required to be more than 66 inches (1,676 mm)
103.15 in width when the following are satisfied:

- 103.16 1. the seating area served by such aisles is composed entirely of bleachers;
103.17 2. the row-to-row dimension is 28 inches (71 cm) or less; and
103.18 3. front egress is not limited.

103.19 b. ICC 300 Section 405.1 is amended to read as follows:

103.20 **405.1 Aisles.** The minimum width of aisles shall be in accordance with Section 404.5, but
103.21 not less than that required by this section. An aisle is not required in seating facilities where
103.22 all of the following conditions exist:

- 103.23 1. Seats are without backrest.

104.1 2. The rise from row to row does not exceed 6 inches (152 mm) per row.

104.2 **Exception:** Bleachers 55 inches or less in height.

104.3 3. The row-to-row spacing does not exceed 28 inches (711 mm) unless the seat boards
104.4 and footboards are at the same elevation.

104.5 4. The number of rows does not exceed 16 rows in height.

104.6 5. The first seat board is not more than 12 inches (305 mm) above the ground floor or
104.7 a cross aisle.

104.8 **Exception:** Bleachers 55 inches or less in height.

104.9 6. Seat boards have a continuous flat surface.

104.10 7. Seat boards provide a walking surface with a minimum width of 11 inches (279 mm).

104.11 8. Egress from seating is not restricted by rails, guards, or other obstructions.

104.12 c. ICC 300 Section 405.6 is amended by adding an exception as follows:

104.13 3. Aisles serving bleachers in compliance with Section 404.5.

104.14 d. ICC 300 Section 408.1, item 1, is amended by modifying the exceptions to read
104.15 as follows:

104.16 **Exceptions:**

104.17 1. Tiered seating ~~that~~ is not required to have a guard if: (a) the tiered seating
104.18 is located adjacent to a wall; and (b) the space between the wall and the tiered
104.19 seating is less than 4 inches (102 mm) is not required to have a guard.

104.20 2. In accordance with the Minnesota Bleacher Safety Act, Minnesota Statutes,
104.21 section 326B.112:

105.1 (a) bleachers must have vertical perimeter guards or other approved
105.2 guards that address climbability and are designed to prevent accidents;
105.3 and

105.4 (b) guards are not required on bleachers 55 inches (1,397 mm) and less
105.5 in height.

105.6 e. ICC 300 Section 408.3 is amended to read as follows:

105.7 **408.3 Guard design.** Guards and their attachment shall be designed to resist the loads
105.8 indicated in Section 303. Bleachers must have vertical perimeter guards or other approved
105.9 guards that address climbability and are designed to prevent accidents, in accordance with
105.10 the Minnesota Bleacher Safety Act, Minnesota Statutes, section 326B.112.

105.11 f. ICC 300 Chapter 5 is deleted and replaced with the following:

105.12 All bleachers or bleacher open spaces over 55 inches (1,397 mm) above grade or the
105.13 floor below, and all bleacher guardrails, if any part of the guardrail is over 30 inches (762
105.14 mm) above grade or the floor below, must be certified to conform with the safety
105.15 requirements contained in Minnesota Statutes, section 326B.112.

105.16 (IFC Section ~~1028.1.1.1~~ 1029.1.1.1 still applies.)

105.17 Subp. 2. **IFC section ~~1028.6.4~~ 1029.6.** IFC section ~~1028.6~~ 1029.6 is amended by
105.18 adding a section to read:

105.19 **~~1028.6.4~~ 1029.6.4 Width of means of egress for bleacher facilities.** Aisles for
105.20 bleachers shall not be required to be more than 66 inches (167 cm) in width when
105.21 calculated in accordance with Section ~~1028.6.1~~ 1029.6.1 or ~~1028.6.3~~ 1029.6.3 when
105.22 the following conditions are satisfied:

105.23 1. the seating area served by such aisles is composed entirely of bleachers;

105.24 2. the row-to-row dimension is 28 inches (71 cm) or less; and

106.1 3. front egress is not limited.

106.2 Subp. 3. **IFC section ~~1028.9.5~~ 1029.9.5**. IFC section ~~1028.9.5~~ 1029.9.5 is amended
106.3 by adding an exception to read:

106.4 5. Aisles serving bleachers in compliance with Section ~~1028.6.4~~ 1029.6.4.

106.5 Subp. 4. **IFC section ~~1028.14~~ 1029.17**. IFC section ~~1028.14~~ 1029.17 is amended by
106.6 adding an exception to read:

106.7 ~~**1028.14 Assembly guards.** Assembly guards shall comply with Sections 1028.14.1 through~~
106.8 ~~1028.14.3.~~

106.9 **Exception:** In accordance with the Minnesota Bleacher Safety Act, Minnesota Statutes,
106.10 section 326B.112:

106.11 1. guards are not required on bleachers 55 inches and less in height; and

106.12 2. bleachers must have vertical perimeter guards or other approved guards that address
106.13 climbability and are designed to prevent accidents.

106.14 (Subsections 1029.17.1 through 1029.17.4 remain unchanged.)

106.15 **7511.1029 [Renumbered 7511.1030]**

106.16 ~~**7511.1029**~~ **7511.1030** SECTION ~~1029~~ 1030, EMERGENCY ESCAPE AND RESCUE.

106.17 Subpart 1. **IFC section ~~1029.1~~ 1030.1**. IFC section ~~1029.1~~ 1030.1 is amended to read
106.18 as follows:

106.19 ~~**1029.1**~~ **1030.1** **General.** In addition to the means of egress required by this chapter,
106.20 ~~provisions shall be made for emergency escape and rescue openings~~ emergency escape and
106.21 rescue openings shall be provided in Group R occupancies as follows. Basements and
106.22 sleeping rooms below the fourth story above grade plane shall have at least one exterior
106.23 emergency escape and rescue opening in accordance with this section. Where basements
106.24 contain one or more sleeping rooms, emergency ~~egress~~ escape and rescue openings shall

107.1 be required in each sleeping room, but shall not be required in adjoining areas of the
107.2 basement. Such ~~opening~~ openings shall open directly into a public way, ~~public alley~~, or to
107.3 a yard or court that opens to a public way.

107.4 **Exceptions:**

107.5 1. Basements with a ceiling height of less than 80 inches (2,032 mm) and not used for
107.6 purposes other than mechanical equipment or storage shall not be required to have
107.7 emergency escape and rescue openings.

107.8 2. Emergency escape and rescue openings are not required from basements or sleeping
107.9 rooms that have an exit door or exit access door that opens directly into a public way
107.10 or to a yard, court, or exterior exit balcony that opens to a public way.

107.11 3. Basements without habitable spaces and having not more than 200 square feet (18.6
107.12 m²) in floor area shall not be required to have emergency escape and rescue openings.

107.13 4. Emergency escape and rescue openings shall not be required under the following
107.14 conditions:

107.15 A. the building is equipped throughout with an approved automatic sprinkler system
107.16 in accordance with Section 903.3.1.1 or 903.3.1.2; and

107.17 B. the means of egress system complies without utilizing Section 1006.3.3.

107.18 ~~1. In other than Group R-2 occupancies in accordance with Table 1021.2(1), Stories~~
107.19 ~~with One Exit or Access to One Exit for R-2 Occupancies, and Table 1021.2(2), Stories~~
107.20 ~~with One Exit or Access to One Exit for Other Occupancies, and Group R-3 occupancies~~
107.21 ~~as applicable in Section 101.2, buildings equipped throughout with an approved~~
107.22 ~~automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.~~

108.1 ~~2. 5.~~ In other than Group R-3 occupancies ~~as applicable in Section 101.2,~~ sleeping
108.2 rooms provided with a door to a fire-resistance-rated corridor having access to two
108.3 remote exits in opposite directions.

108.4 ~~3. 6.~~ The emergency escape and rescue opening is permitted to open onto a balcony
108.5 within an atrium in accordance with the requirements of IBC Section 404, provided
108.6 the balcony provides access to an exit and the dwelling unit or sleeping unit has a means
108.7 of egress that is not open to the atrium.

108.8 ~~4. 7.~~ High-rise buildings in accordance with IBC Section 403.

108.9 ~~5. Emergency escape and rescue openings are not required from basements or sleeping~~
108.10 ~~rooms which have an exit door or exit access door that opens directly into a public way,~~
108.11 ~~or to a yard, court, or exterior exit balcony that opens to a public way.~~

108.12 ~~6. Basements without habitable spaces and having no more than 200 square feet (18.6~~
108.13 ~~m²) in area shall not be required to have emergency escape windows.~~

108.14 ~~7. Basements or basement bedrooms in Group R-3 occupancies when the building is~~
108.15 ~~protected by an automatic sprinkler system installed in accordance with section 903.3.~~

108.16 8. Basements in Group R-3 occupancies used only to house mechanical equipment and
108.17 not exceeding total floor area of 200 square feet (18.58 m²).

108.18 ~~9. Basements or basement bedrooms in Group R-3 occupancies that comply with all~~
108.19 ~~of the following conditions:~~

108.20 ~~a. constructed prior to August 1, 2008;~~

108.21 ~~b. undergoing an alteration or repair;~~

108.22 ~~c. the entire basement area, when all portions of the means of egress to the level~~
108.23 ~~of exit discharge, and all areas on the level of exit discharge that are open to the~~

109.1 ~~means of egress, is protected with an automatic sprinkler system in accordance~~
 109.2 ~~with section 903.3.~~

109.3 Subp. 2. [See repealer.]

109.4 Subp. 3. [See repealer.]

109.5 **7511.1030 [Renumbered 7511.1031]**

109.6 ~~7511.1030~~ **7511.1031** SECTION ~~1030~~ **1031**, MAINTENANCE OF THE MEANS OF
 109.7 EGRESS.

109.8 Subpart 1. IFC section ~~1030.2~~ **1031.2**. IFC section ~~1030.2~~ is 1031.2 and subsection
 109.9 1031.2.1 are amended and subsection 1031.2.3 is added to read as follows:

109.10 ~~1030.2~~ **1031.2** **Reliability**. Required exit accesses, exits ~~or~~ and exit discharges shall be
 109.11 continuously maintained free from obstructions or impediments to full instant use in the
 109.12 case of fire or other emergency. ~~Security devices affecting means of egress shall be subject~~
 109.13 ~~to approval of the fire code official.~~

109.14 ~~1030.2.1~~ **1031.2.1** **Security devices and egress locks**. Security devices affecting means
 109.15 of egress shall be subject to approval of the fire code official. ~~Special locking~~
 109.16 ~~arrangements including access-controlled egress doors, security grills, locks and latches,~~
 109.17 ~~electromagnetically locked egress doors, and delayed egress locks shall be installed~~
 109.18 ~~and maintained as required by this chapter part~~ Security devices and locking
 109.19 arrangements in the means of egress that restrict, control, or delay egress shall be
 109.20 installed and maintained as required by this chapter or IFC Chapter 11, as amended.

109.21 (IFC section 1031.2.2 remains unchanged.)

109.22 ~~1030.2.2~~ **1031.2.3** **Inspection and testing**. ~~Special locking arrangements,~~ Locking
 109.23 arrangements in the means of egress that restrict, control, or delay egress, including
 109.24 ~~access-controlled egress doors, delayed egress locks, and electromagnetically locked~~

110.1 ~~egress doors~~ locking arrangements and devices in accordance with Sections 1010.1.9.7
110.2 through 1010.1.9.10, shall be tested as follows:

- 110.3 1. The primary release functions shall be tested monthly for operability.
- 110.4 2. Fire alarm and sprinkler system interconnects and other failsafe release functions
110.5 shall be tested at least annually for operability.
- 110.6 3. Testing shall be done by individuals who can demonstrate knowledge and
110.7 understanding of the operating components of the door being tested.
- 110.8 4. Deficiencies shall be corrected without delay. Written records of inspection and
110.9 testing shall be kept and available to the fire code official.

110.10 Subp. 2. **IFC section ~~1030.3~~ 1031.3**. IFC section ~~1030.3~~ 1031.3 is amended to read:

110.11 **~~1030.3~~ 1031.3 Obstructions**. A means of egress shall be free from obstructions that would
110.12 prevent its use, including the accumulation of snow and ice. Means of egress shall remain
110.13 free of any material or matter where its presence would obstruct or render the means of
110.14 egress hazardous. No combustible storage is allowed in corridors or exit stairs.

110.15 Subp. 3. **IFC section ~~1030.7~~ 1031.7**. IFC section ~~1030.7~~ 1031.7 is amended to read:

110.16 **~~1030.7~~ 1031.7 Emergency escape and rescue openings**. Required emergency escape
110.17 ~~openings shall be maintained in accordance with the following: required emergency escape~~
110.18 and rescue openings shall be operational from the inside of the room without the use of keys
110.19 or tools. Bars, grilles, grates, or similar devices are allowed to be placed over emergency
110.20 escape and rescue openings provided the minimum net clear opening size complies with
110.21 this code and such devices shall be releasable or removable from the inside without the use
110.22 of a key, tool, or force greater than that which is required for normal operation of the escape
110.23 and rescue opening.

110.24 **Exception:** Window fall protection required by the building code.

111.1 Subp. 4. **IFC section 1031.10.2.** IFC section 1031.10.2 is amended to read:

111.2 **1031.10.2 Power test.** For battery-powered emergency lighting, a power test of the
111.3 emergency lighting equipment shall be completed annually. The power test shall operate
111.4 the emergency lighting for a minimum of 30 minutes. All emergency lighting shall
111.5 remain sufficiently illuminated for the duration of the test.

111.6 **7511.1103 SECTION 1103, FIRE SAFETY REQUIREMENTS FOR EXISTING**
111.7 **BUILDINGS.**

111.8 Subpart 1. **IFC section 1103.1.** IFC section 1103.1 is amended to read:

111.9 **1103.1 Required construction.** Existing buildings shall comply with the minimum
111.10 provisions specified in Sections 1103.2 through ~~1106.3.2.1~~ 1106.1.2.

111.11 Table 1103.1 is deleted.

111.12 Subp. 2. **IFC section 1103.2.** IFC section 1103.2 is deleted.

111.13 Subp. 3. **IFC section 1103.3.** IFC section 1103.3 ~~is~~ and all subsections are deleted.

111.14 Subp. 4. **IFC section 1103.4.** IFC section 1103.4 ~~is amended and sections added to~~
111.15 ~~read~~ and all subsections are deleted entirely and replaced with the following:

111.16 **1103.4 Vertical openings.** Interior vertical shafts, including stairways, elevator hoistways,
111.17 and service and utility shafts, that connect two or more stories of a building, shall be enclosed
111.18 or protected as specified in Section 1103.4.1 and Table 1103.4.

111.19 **1103.4.1 Fire-resistive-rated construction.** Where one-hour fire-resistive rated
111.20 construction is required by IFC Chapter 11, as amended, it includes equivalent ratings
111.21 for openings in that construction. When openings are required to be protected, opening
111.22 protectives shall be maintained self-closing or automatic-closing by smoke detection.
111.23 Existing fusible-link-type automatic door-closing devices are permitted if the fusible
111.24 link rating does not exceed 135° F (57° C).

TABLE 1103.4

VERTICAL OPENING PROTECTION REQUIRED

112.3 112.4 112.5	OCCUPANCY CLASSIFI- CATION	CONDITIONS	PROTECTION REQUIRED
112.6 112.7	Group I	Vertical openings connecting two or more stories	1-hour protection
112.8 112.9	All, other than Group I	Vertical openings connecting two stories	No protection required ^{a,b}
112.10 112.11 112.12	All, other than Group I	Vertical openings connecting three to five stories	1-hour protection or automatic sprinklers throughout ^{a,b}
112.13 112.14	All, other than Group I	Vertical openings connecting more than five stories	1-hour protection ^{a,b}
112.15	All	Mezzanines open to the floor below	No protection required ^{a,b}
112.16 112.17 112.18	All, other than Group I	Atriums and covered mall buildings	1-hour protection or automatic sprinklers throughout
112.19 112.20 112.21 112.22 112.23	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
112.24 112.25 112.26 112.27	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

112.28 ^a Vertical opening protection is not required for Group R-3 occupancies.

112.29 ^b Vertical opening protection is not required for open parking garages and ramps.

112.30 Subp. 5. [See repealer.]

112.31 Subp. 6. **IFC section 1103.5.** IFC section 1103.5 is amended by adding new

112.32 ~~subsections to read~~ and its subsections are deleted entirely and replaced with the following:

113.1 **1103.5 Sprinkler systems.** An automatic sprinkler system shall be provided in existing
113.2 buildings in accordance with Sections 1103.5.1 through 1103.5.5.

113.3 **1103.5.1 Reserved.**

113.4 **1103.5.2 Group I-2.** An automatic sprinkler system shall be provided throughout
113.5 existing Group I-2 fire areas. The sprinkler system shall be provided throughout the
113.6 floor where the Group I-2 occupancy is located, and in all floors between the Group
113.7 I-2 occupancy and the level of exit discharge, including the level of exit discharge.

113.8 **1103.5.3 Basement access or sprinkler protection.** An approved automatic sprinkler
113.9 system shall be provided in the following occupancies located in basements when such
113.10 areas exceed 2,500 square feet (232.3 m²) in size and do not have 20 square feet (1.86
113.11 m²) of opening entirely above the adjoining ground level in each 50 lineal feet (15,240
113.12 mm) or fraction thereof of exterior wall on at least one side of the building:

- 113.13 1. Group A occupancies used as commercial drinking and dining establishments.
113.14 2. Group A occupancies used as bowling alleys.
113.15 3. Group E occupancies used for student occupancy.
113.16 4. Group I occupancies.
113.17 5. Group R-1 and R-2 occupancies having dwelling units or guest rooms.

113.18 Openings required by this section shall have a minimum dimension of 30 inches (762
113.19 mm).

113.20 If any portion of the basement is located more than 75 feet (22.86 m) from required
113.21 openings, the basement shall be provided with an approved automatic sprinkler system
113.22 throughout.

113.23 **1103.5.4 Pyroxylin plastics.** An automatic sprinkler system shall be provided throughout
113.24 existing buildings where cellulose nitrate film or pyroxylin plastics are manufactured,

114.1 stored, or handled in quantities exceeding 100 pounds (45 kg). Vaults located within
114.2 buildings for the storage of raw pyroxylin shall be protected with an approved automatic
114.3 sprinkler system capable of discharging 1.66 gallons per minute per square foot (68
114.4 L/mn/m²) over the area of the vault.

114.5 ~~1103.5.4~~ **1103.5.5 Existing rubbish and linen chutes.** Existing rubbish and linen
114.6 chutes that connect three or more stories shall be protected with automatic sprinklers
114.7 installed and maintained in conformance with Section 903.2.11.2.

114.8 Subp. 7. **IFC section 1103.7.** IFC section 1103.7 is and its subsections are deleted
114.9 entirely and replaced with the following:

114.10 **1103.7 Fire alarm systems.** An approved fire alarm system shall be installed in existing
114.11 buildings and structures in accordance with Sections 1103.7.1 through ~~1103.7.7~~ 1103.7.6.1.

114.12 In buildings containing mixed occupancies that are designed as separated uses (see Section
114.13 ~~102.11~~ 102.14), fire alarm and detection systems need only be installed in those occupancies
114.14 where required by this section.

114.15 In areas protected by an approved, supervised automatic sprinkler system installed in
114.16 accordance with Section 903.3.1.1 or 903.3.1.2, automatic fire detectors required by Section
114.17 1103.7 need not be provided. Where Section 1103.7 requires smoke detectors, such protection
114.18 shall be installed.

114.19 **1103.7.1 Group A, general.** A fire alarm system shall be installed in accordance with
114.20 Sections 1103.7.1 through 1103.7.1.3.1 in existing Group A occupancies having an
114.21 occupant load of 300 or more.

114.22 **1103.7.1.1 Exemptions for Group A.** A fire alarm system is not required in Group
114.23 A occupancies having the following conditions:

114.24 1. Assembly areas used solely for worship purposes.

115.1 2. A fire alarm system is not required when an approved automatic
115.2 fire-sprinkler system is installed throughout the building.

115.3 3. Assembly uses located inside Group E occupancies shall have alarms as
115.4 required for the Group E occupancy.

115.5 4. A-5 occupancies.

115.6 **1103.7.1.2 Initiation.** Initiation of the fire alarm system shall be by automatic
115.7 means. Approved automatic fire detectors shall be installed in laundry rooms,
115.8 boiler and furnace rooms, mechanical and electrical rooms, shops, kitchens,
115.9 trash-collection rooms, storage rooms, and similar areas.

115.10 **1103.7.1.3 Notification.** The required fire alarm system shall activate an audible
115.11 and visible notification appliance at a constantly attended location within the
115.12 building for the purposes of initiating emergency action. A presignal feature and
115.13 positive alarm sequencing in accordance with NFPA 72 are permitted. Occupant
115.14 notification shall be by means of voice announcements, either live or prerecorded,
115.15 initiated by the person in the constantly attended location.

115.16 **1103.7.1.3.1 Exemption for voice evacuation.** Where no constantly attended
115.17 location exists, an automatic fire alarm system providing a general evacuation
115.18 signal or an approved emergency voice/alarm communications system is
115.19 permitted.

115.20 **1103.7.2 Group E, general.** A fire alarm system shall be installed in accordance with
115.21 Sections 1103.7.2 through 1103.7.2.4 in existing Group E occupancies having an
115.22 occupant load of 50 or more.

115.23 **1103.7.2.1 Exemption for single classroom.** A fire alarm system is not required
115.24 for a building with a maximum area of 1,000 square feet (93 m²) that contains a

116.1 single classroom and is located no closer than 20 feet (15,240 mm) from another
116.2 building.

116.3 **1103.7.2.2 Initiation.** Initiation of the fire alarm system shall be by manual and
116.4 automatic means. Approved automatic fire detectors shall be provided in laundry
116.5 rooms, boiler and furnace rooms, mechanical and electrical rooms, shops,
116.6 laboratories, kitchens, locker rooms, custodial closets, trash-collection rooms,
116.7 storage rooms, lounges, and similar areas.

116.8 **1103.7.2.2.1 Manual activation.** ~~The requirements for manual fire alarm pull~~
116.9 ~~boxes can be modified as follows:~~

116.10 ~~1. In buildings equipped protected throughout by an approved, supervised~~
116.11 ~~automatic fire sprinkler system or having an approved fire alarm system~~
116.12 ~~equipped with corridor smoke detection, manual fire alarm boxes are~~
116.13 ~~only required in the main office and in a custodial area.~~

116.14 ~~2. Where all corridors are protected by an approved automatic fire alarm~~
116.15 ~~system having smoke detection with alarm verification, manual fire alarm~~
116.16 ~~boxes are only required near exits serving shops, chemistry and physics~~
116.17 ~~laboratories, boiler rooms, industrial technology and industrial arts rooms,~~
116.18 ~~kitchens, custodian's offices, and main offices.~~

116.19 **1103.7.2.3 Travel through adjoining rooms.** Where the only means of egress
116.20 travel from an interior room or rooms having an aggregate occupant load of more
116.21 than ten occupants is through an adjoining or intervening room, automatic smoke
116.22 detectors shall be installed throughout the common atmosphere through which the
116.23 path of egress travel passes.

117.1 **1103.7.2.3.1 Sprinkler protection.** In buildings that are protected throughout
117.2 by an approved automatic sprinkler system installed in accordance with Section
117.3 903.3.1.1, smoke detectors are not required in intervening or adjoining rooms.

117.4 **1103.7.2.4 Notification.** Activation of the fire alarm system or automatic sprinkler
117.5 system shall initiate a general evacuation signal.

117.6 **1103.7.3 Group I, general.** A fire alarm system shall be installed in accordance with
117.7 Sections 907.2.6 through 907.2.6.4.2 in existing Group I occupancies.

117.8 **1103.7.4 Group R-1, general.** A fire alarm system shall be installed in accordance
117.9 with Sections 1103.7.4 through 1103.7.4.4.1 in existing Group R-1 occupancies where:

117.10 1. Any sleeping unit or dwelling unit is located two or more stories above the story
117.11 containing the lowest level of exit discharge.

117.12 2. Any sleeping unit or dwelling unit is located more than one story below the
117.13 highest level of exit discharge of exits serving the dwelling unit.

117.14 3. The building contains 20 or more guest rooms or dwelling units.

117.15 4. The building is used as a congregate living facility, dormitory, convent,
117.16 monastery, fraternity, sorority, group home, or shelter and has an occupant load
117.17 of 20 or more.

117.18 **1103.7.4.1 Direct exits to exterior.** A fire alarm system is not required in buildings
117.19 that do not have interior corridors serving guest rooms and where each guest room
117.20 has an exit door opening directly to an exterior exit access that leads directly to
117.21 the exits.

117.22 **1103.7.4.2 Initiation.** Initiation of the fire alarm system shall be by automatic
117.23 means. Approved automatic fire detectors shall be provided in boiler and furnace
117.24 rooms, shops, laundry rooms, mechanical and electrical rooms, trash-collection

118.1 rooms, storage rooms, gift shops, locker rooms, and similar areas. Automatic
118.2 smoke detectors shall be provided in all common areas and interior corridors
118.3 serving as required means of egress.

118.4 **1103.7.4.2.1 Sprinkler protection.** System fire and smoke detectors are not
118.5 required when an approved automatic fire-extinguishing system is installed
118.6 in accordance with Section 903.3.1.1 or ~~903.3.1~~ 903.3.1.2 and a manual fire
118.7 alarm box is provided at a constantly attended location. When a constantly
118.8 attended location is not provided the manual fire alarm box shall be provided
118.9 at the main exit.

118.10 **1103.7.4.3 Notification.** Activation of the fire alarm system or automatic sprinkler
118.11 system shall initiate a general evacuation signal.

118.12 **1103.7.4.4 Guest room smoke alarms.** Guest room smoke alarms required by
118.13 Section 1103.8 shall not be connected to a fire alarm system.

118.14 **1103.7.4.4.1 Annunciation allowed.** Connection of such alarms for annunciation
118.15 is permitted.

118.16 **1103.7.5 Group R-2, general.** A fire alarm system shall be installed in accordance
118.17 with Sections 1103.7.5 through 1103.7.5.3 in existing Group R-2 occupancies where:

118.18 1. any sleeping unit or dwelling unit is located two or more stories above the story
118.19 containing the lowest level of exit discharge;

118.20 2. any sleeping unit or dwelling unit is located more than one story below the
118.21 highest level of exit discharge of exits serving the dwelling unit;

118.22 3. the building contains more than 16 sleeping units or dwelling units; or

119.1 4. the building is used as a congregate living facility, dormitory, convent,
119.2 monastery, fraternity, sorority, group home, or shelter and has an occupant load
119.3 of 20 or more.

119.4 **1103.7.5.1 Direct exits to exterior.** A fire alarm system is not required in buildings
119.5 that do not have interior corridors serving guest rooms and where each dwelling
119.6 unit has an exit door opening directly to an exterior exit access that leads directly
119.7 to the exits.

119.8 **1103.7.5.2 Initiation.** Initiation of the fire alarm system shall be by automatic
119.9 means. Approved automatic fire detectors shall be provided in boiler and furnace
119.10 rooms, shops, laundry rooms, mechanical and electrical rooms, trash-collection
119.11 rooms, storage rooms, and similar areas. Automatic smoke detectors shall be
119.12 provided in all common areas and interior corridors serving as required means of
119.13 egress.

119.14 **1103.7.5.2.1 Sprinkler protection.** System fire and smoke detectors are not
119.15 required when an approved automatic fire-extinguishing system is installed
119.16 throughout the building.

119.17 **1103.7.5.3 Notification.** Activation of the fire alarm system or automatic sprinkler
119.18 system shall initiate a general evacuation signal.

119.19 **1103.7.5.4 Dwelling unit smoke alarms.** Dwelling unit smoke alarms required
119.20 by Section 1103.8 shall not be connected to the building fire alarm system.

119.21 **1103.7.5.4.1 Annunciation allowed.** Connection of such alarms for
119.22 annunciation is permitted.

119.23 **1103.7.6 Audible alarms.** Audible alarm notification appliances shall be provided and
119.24 sound a distinctive sound that is not to be used for any purpose other than that of a fire
119.25 alarm. The audible alarm notification appliances shall provide a sound pressure level

120.1 of 15 decibels (dBA) above the average ambient sound level or 5 dBA above the
 120.2 maximum sound level having a duration of at least 60 seconds, whichever is greater,
 120.3 in every occupied space within the building. The maximum sound pressure level for
 120.4 audible alarm notification appliances shall be 110 dBA at the minimum hearing distance
 120.5 from the audible appliance. Where the average ambient noise is greater than 105 dBA,
 120.6 visible alarm notification appliances shall be provided in accordance with NFPA 72
 120.7 and audible alarm notification appliances shall not be required.

120.8 **1103.7.6.1 Maximum sound pressure.** Fire alarm system audibility levels shall
 120.9 not exceed 35 dB above the average ambient sound level described in Section
 120.10 907.5.2.1.1 or 35 dB above the peak ambient sound level. The maximum sound
 120.11 pressure level for audible alarm notification appliances shall be 110 dBA at the
 120.12 minimum hearing distance from the audible appliance. Where the average ambient
 120.13 noise is greater than 95 dBA, visible alarm notification appliances shall be provided
 120.14 in accordance with NFPA 72 and audible alarm notification appliances shall not
 120.15 be required.

120.16 Subp. 8. **IFC section 1103.8.** IFC section 1103.8 ~~is amended and sections added to~~
 120.17 ~~read~~ and its subsections are deleted entirely and replaced with the following:

120.18 **1103.8 Single- and multiple-station smoke alarms.** Single- and multiple-station smoke
 120.19 alarms shall be installed in existing Group I-1 and R occupancies in accordance with Table
 120.20 1103.8.

120.21 **TABLE 1103.8**

120.22 **SMOKE ALARM REQUIREMENTS**

120.23 Condition:	120.24 Location:	Power Supply:	Interconnection Required:
120.25 Existing	120.26 In hallways outside	120.27 If constructed on or after	No
120.26 buildings that do	120.27 not have any	120.28 sleeping rooms. In sleeping	interconnection
120.27	rooms. On each level of the	required to be hard-wired	is required for

121.1	smoke alarms	building and in basements. (120 volt).		battery-powered
121.2	(same as new).	On ceiling or wall (less than	If constructed before	alarms.
121.3		12 inches below ceiling).	8/1/1989, smoke alarms can	
121.4		On center of ceiling above	be battery-powered.	
121.5		stairways.		
121.6	Existing	In hallways outside	Smoke alarms are required	No
121.7	buildings	sleeping rooms. On each	to be hard-wired (120 volt).	interconnection
121.8	(constructed on	level and in basements. On		is required.
121.9	or after	ceiling or wall (less than 12		
121.10	8/1/1989).	inches below ceiling).		
121.11	Existing	In hallways outside	Smoke alarms can be	No
121.12	buildings	sleeping rooms. On each	battery-powered.	interconnection
121.13	(constructed	level and in basements. On		is required.
121.14	before 8/1/1989).	ceiling or wall (less than 12		
121.15		inches below ceiling).		
121.16	Replacement of	Smoke alarms must be	Power supply must be the	Interconnection
121.17	smoke alarms in	installed in same locations	same as the smoke alarms	must be provided
121.18	existing	as originally installed.	being replaced.	if the smoke
121.19	buildings.			alarms being
121.20				replaced were
121.21				interconnected.
121.22		1103.8.1 Replacement of smoke alarms.	Single and multiple-station smoke alarms	
121.23		shall be replaced when:		
121.24		1. They fail to respond to operability tests.		
121.25		2. They exceed ten years from the date of manufacture.		
121.26		Smoke alarms shall be replaced with smoke alarms having the same type of power		
121.27		supply.		
121.28		Subp. 9. IFC section 1103.9 1103.11.	IFC section 1103.9 1103 is deleted and replaced	
121.29		with the following <u>amended by adding a section to read:</u>		
121.30		1103.9 1103.11 Protection of existing cooking equipment.	Approved automatic	
121.31		fire-extinguishing systems shall be provided for the protection of existing commercial-type		
121.32		cooking equipment that produces grease-laden vapors in accordance with Section 904.		

122.1 **7511.1104 SECTION 1104, MEANS OF EGRESS FOR EXISTING BUILDINGS.**

122.2 Subpart 1. **IFC section 1104.1.** IFC section 1104.1 is amended and sections added to
122.3 read:

122.4 **1104.1 General.** Means of egress in existing buildings shall comply with the minimum
122.5 egress requirements ~~when~~ specified in Sections 1104.1 through ~~1104.23~~ 1104.26.7.

122.6 **1104.1.1 Occupant loads.** The number of occupants shall be determined in accordance
122.7 with Section 1004.

122.8 **1104.1.2 Egress width.** The minimum required egress width shall be determined in
122.9 accordance with Section 1005.1.

122.10 **1104.1.3 Ceiling height.** The ceiling height in corridors shall be not less than 78 inches
122.11 (1,981 mm).

122.12 **1104.1.4 Special exiting provisions for younger students.** Rooms in Group E
122.13 occupancies used by preschool, kindergarten, first- or second-grade pupils, latchkey,
122.14 child care, early childhood family education, teen parent, or similar programs shall be
122.15 located as required by the Building Code.

122.16 *[For text of subparts 2 and 3, see Minnesota Rules]*

122.17 Subp. 4. **IFC section 1104.5.** IFC section 1104.5 is amended and sections added to
122.18 read:

122.19 **1104.5 Illumination - general.** Normal and emergency illumination of the means of egress
122.20 shall comply with Sections 1104.5.1 through 1104.5.3.

122.21 **1104.5.1 Illumination required.** The means of egress shall be illuminated at all times
122.22 that the building space served by the means of egress is occupied. Natural lighting in
122.23 the interior rooms or spaces can be used to satisfy this requirement during periods of
122.24 daylight.

123.1 **1104.5.1.1 Group U occupancies.** Illumination is not required in Group U
123.2 occupancies.

123.3 **1104.5.1.2 Aisle accessways.** Illumination is not required for aisle accessways.

123.4 **1104.5.1.3 Dwelling units and sleeping rooms.** Illumination is not required for
123.5 dwelling units and sleeping rooms of Group I, R-1, R-2, and R-3 occupancies.

123.6 **1104.5.2 Illumination level.** Floors and other walking surfaces within the means of
123.7 egress shall be illuminated according to Sections 1104.5.2.1 and 1104.5.2.2:

123.8 **1104.5.2.1 General.** The means of egress illumination level shall not be less than
123.9 one foot-candle (11 lux) at the floor level.

123.10 **1104.5.2.2 Assembly performances.** In assembly occupancies, the illumination
123.11 of the floors of exit access shall be at least 0.2 foot-candle (2.2 lux) during periods
123.12 of performances or projections involving directed light.

123.13 **1104.5.3 Illumination emergency power.** The power supply for means of egress
123.14 illumination shall normally be provided by the premises' electrical supply. In the event
123.15 of power supply failure, illumination shall be automatically provided from an emergency
123.16 system for the following occupancies where such occupancies require two or more
123.17 means of egress:

123.18 1. Group A having 50 or more occupants. Assembly occupancies used exclusively
123.19 as a place of worship and having an occupant load of less than 300 are not required
123.20 to have emergency illumination.

123.21 2. Group B buildings three or more stories in height, buildings with 100 or more
123.22 occupants above or below the level of exit discharge, or buildings with 1,000 or
123.23 more total occupants.

124.1 3. Group E in interior stairs, corridors, windowless areas with student occupancy,
124.2 shops, and laboratories.

124.3 4. Group F having more than 100 occupants. Buildings used only during daylight
124.4 hours that are provided with windows for natural light are not required to have
124.5 emergency illumination.

124.6 5. Group I.

124.7 6. Group M buildings greater than 3,000 square feet (2,879 m²) in gross sales area
124.8 or exceeding one story in height.

124.9 7. Group R-1. Where each guest room has direct access to the outside of the
124.10 building at grade, emergency illumination is not required.

124.11 8. Group R-2. Where each living unit has direct access to the outside of the building
124.12 at grade, emergency illumination is not required.

124.13 9. Group R-4. Where each sleeping room has direct access to the outside of the
124.14 building at ground level, emergency illumination is not required.

124.15 The emergency power system shall provide power for not less than 30 minutes and
124.16 consist of storage batteries, unit equipment, or an on-site generator. The installation of
124.17 the emergency power system shall be in accordance with Section ~~604~~ 1203.

124.18 Subp. 5. **IFC section 1104.6.** IFC section 1104.6 is amended and sections added to
124.19 ~~read~~ and its subsections are deleted entirely and replaced with the following:

124.20 **1104.6 Guards.** Guards complying with this section shall be provided at the open sides of
124.21 means of egress that are more than 30 inches (762 mm) above the floor or grade below.

124.22 **Exception:** Approved existing open guards.

124.23 **1104.6.1 Height of guards.** Guards shall form a protective barrier not less than 42
124.24 inches (1,067 mm) high except for the following existing guards:

- 125.1 1. Existing guards on the open side of stairs, which are permitted to be not less
 125.2 than 30 inches (760 mm) high.
- 125.3 2. Existing guards within dwelling units, which are permitted to be not less than
 125.4 36 inches (910 mm) high.
- 125.5 3. Existing guards in assembly areas.
- 125.6 4. Existing guards on stairs and balconies of buildings designated as historic
 125.7 structures, which are permitted to be not less than 24 inches (610 mm) high.

125.8 **1104.6.2 Opening limitations.** Open guards shall have balusters or ornamental patterns
 125.9 such that a 6-inch (152 mm) diameter sphere cannot pass through any opening up to a
 125.10 height of 34 inches (864 mm) except when one of the following conditions exist:

- 125.11 1. At elevated walking surfaces for access to and use of electrical, mechanical, or
 125.12 plumbing systems or equipment, guards shall have balusters or be of solid materials
 125.13 such that a sphere with a diameter of 21 inches (533 mm) cannot pass through any
 125.14 opening.
- 125.15 2. In occupancies in Group I-3, F, H, or S, the clear distance between intermediate
 125.16 rails measured at right angles to the rails shall not exceed 21 inches (533 mm).

125.17 Subp. 6. **IFC section 1104.7.** IFC section 1104.7 is amended and sections added to
 125.18 ~~read~~ and its subsections are deleted entirely and replaced with the following:

125.19 **1104.7 Doors - general.** Except where modified by Section ~~1008.1.2~~ 1010.1.2, doors shall
 125.20 be of the side-hinged swing type. Doors shall swing in the direction of egress travel when
 125.21 serving an occupant load of 50 or more persons. The minimum width of each door opening
 125.22 shall be sufficient for the occupant load thereof. Locks and latches shall comply with Sections
 125.23 ~~1008.1.9~~ 1010.1.9 through ~~1008.1.11.4~~ 1010.1.11.4.

126.1 **1104.7.1 Size of doors.** Except where modified by this section, each required means
126.2 of egress door shall comply with the minimum dimensions specified herein. Doors
126.3 shall provide a clear width of not less than 28 inches (711 mm). Where this section
126.4 requires a minimum clear width of 28 inches (711 mm) and a door opening includes
126.5 two door leaves without a mullion, one leaf shall provide a clear opening width of 28
126.6 inches (711 mm). The maximum width of a swinging door leaf shall be 48 inches (1,219
126.7 mm) nominal. The height of doors shall not be less than 80 inches (2,032 mm).

126.8 **1104.7.1.1 Closets.** Door openings to storage closets less than 10 square feet (0.93
126.9 m²) in area shall not be limited by the minimum width.

126.10 **1104.7.1.2 Revolving doors.** Width of door ~~leaves~~ leaves in revolving doors shall
126.11 not be limited.

126.12 **1104.7.1.3 Dwelling units.** Door openings within a dwelling unit are permitted to
126.13 be 78 inches (1,981 mm) in height.

126.14 **1104.7.1.4 Small rooms.** Exit access doors serving a room not larger than 70
126.15 square feet (6.5 m²) are permitted to be 24 inches (610 mm) in door width.

126.16 **1104.7.1.5 Health care facilities.** The minimum clear width for doors in the means
126.17 of egress from hospitals; nursing homes; limited care facilities; psychiatric hospital
126.18 sleeping rooms; and diagnostic and treatment areas, such as x-ray, surgery, or
126.19 physical therapy, shall be not less than 32 inches (810 mm) wide. Existing 34-inch
126.20 (865 mm) doors shall be permitted. Existing 28-inch (710 mm) corridor doors in
126.21 facilities where the fire plans do not require evacuation by bed, gurney, or
126.22 wheelchair shall be permitted.

126.23 Subp. 7. **IFC section 1104.10.** IFC section 1104.10 ~~is~~ and subsection 1104.10.1 are
126.24 ~~amended and sections added~~ to read:

127.1 **1104.10 Stair dimensions for existing stairs.** Existing stairs in buildings shall be permitted
127.2 to remain if the rise does not exceed 8.25 inches (210 mm) and the run is not less than 9
127.3 inches (229 mm). Existing stairs are permitted to have a minimum width of 36 inches (914
127.4 mm) but not less than the width required for the number of occupants served as determined
127.5 by Section 1005.1. Existing stairs can be rebuilt.

127.6 **1104.10.1 Stair dimensions for replacement stairs.** The replacement of an existing
127.7 stairway in a structure shall not be required to comply with the new stairway
127.8 requirements of Section ~~1009~~ 1011 where the existing space and construction will not
127.9 allow a reduction in pitch or slope.

127.10 *[For text of subpart 8, see Minnesota Rules]*

127.11 Subp. 9. **IFC section 1104.16.** IFC section 1104.16 ~~is amended and sections added~~
127.12 ~~to read~~ and its subsections are deleted in their entirety and replaced with the following:

127.13 **1104.16 Fire escape stairs.** Fire escape stairs shall comply with Sections 1104.16.1 through
127.14 1104.16.7.

127.15 **1104.16.1 Existing means of egress.** Fire escape stairs shall be permitted in existing
127.16 buildings but shall not constitute more than 50 percent of the required exit capacity.

127.17 **1104.16.2 Protection of openings.** Openings within 10 feet (3,048 mm) of fire escape
127.18 stairs shall be protected by fire assemblies having a minimum 3/4-hour fire-resistance
127.19 rating. In buildings equipped throughout with an approved automatic sprinkler system,
127.20 opening protection is not required.

127.21 **1104.16.3 Dimensions.** Fire escape stairs shall meet the minimum width, capacity,
127.22 riser height, and tread depth as specified in Table 1104.16.

127.23 **1104.16.4 Access.** Access to a fire escape from a corridor shall not be through an
127.24 intervening room. Access to a fire escape stair shall be from a door or window meeting
127.25 the criteria of Section 1005.3.2. Access to a fire escape stair shall be directly to a

128.1 balcony, landing, or platform. These shall be no higher than the floor or windowsill
 128.2 level and no lower than 8 inches (203 mm) below the floor level or 18 inches (457 mm)
 128.3 below the windowsill.

128.4 **1104.16.5 Materials and strength.** Components of fire escape stairs shall be constructed
 128.5 of noncombustible materials.

128.6 Fire escape stairs and balconies shall support the dead load plus a live load of not less
 128.7 than 100 pounds per square foot (4.78 kN/m²). Fire escape stairs and balconies shall
 128.8 be provided with a top and intermediate handrail on each side.

128.9 The fire code official is authorized to require testing or other satisfactory evidence that
 128.10 an existing fire escape stair meets the requirements of this section.

128.11 **1104.16.6 Termination.** The lowest balcony shall not be more than 18 feet (5,486 mm)
 128.12 from the ground. Fire escape stairs shall extend to the ground or be provided with
 128.13 counterbalanced stairs reaching the ground. For fire escape stairs serving ten or fewer
 128.14 occupants, an approved fire escape ladder is allowed to serve as the termination for
 128.15 fire escape stairs.

128.16 **1104.16.7 Maintenance.** Fire escapes shall be kept clear and unobstructed at all times
 128.17 and shall be maintained in good working order.

128.18 **TABLE 1104.16**

128.19 **DIMENSIONS FOR EXISTING FIRE ESCAPE STAIRS**

128.20 Feature:	128.21 Serving More Than 10 Occupants	Serving 10 or Fewer Occupants
128.22 Minimum Width	22 inches	18 inches
128.23 Maximum Height of Risers	9 inches	12 inches
128.24 Minimum Tread Depth	9 inches	6 inches

129.1 Subp. 10. **IFC section 1104.17.** IFC section 1104.17 ~~is amended and sections added~~
129.2 ~~to read~~ and its subsections are deleted entirely and replaced with the following:

129.3 **1104.17 Corridors.** ~~Corridors and the openings therein shall provide an effective barrier~~
129.4 ~~to resist the movement of smoke.~~ Corridors, common path of travel, and travel distance
129.5 shall comply with Sections 1104.17.1 through ~~1104.17.4.2~~ 1104.17.4.1. Corridors complying
129.6 with Section ~~1018.1~~ 1020.1 need not be fire-resistance rated.

129.7 **1104.17.1 Construction.** Corridors shall be fire-resistance rated in accordance with
129.8 this section and Table 1104.17.1. Existing walls surfaced with wood lath and plaster
129.9 in good condition or 1/2-inch gypsum wallboard are acceptable for corridor walls and
129.10 ceilings. Where Table 1104.17.1 allows a sprinkler system in lieu of fire-resistance-rated
129.11 construction, the building shall be protected throughout with an automatic sprinkler
129.12 system in accordance with Section 903.3.1.1 or 903.3.1.2.

129.13 **1104.17.1.1 Existing places of religious worship.** In Group A occupancies used
129.14 as places of religious worship, existing corridor walls, ceilings, and opening
129.15 protection not in compliance with Section 1104.17.1 may be continued when such
129.16 buildings are protected with an approved automatic fire alarm system. The fire
129.17 alarm system shall include automatic smoke detection throughout the exit system
129.18 and approved detection in all boiler rooms, furnace rooms, mechanical rooms, and
129.19 storage rooms.

129.20 **1104.17.1.2 Existing Group B occupancies.** In office areas of Group B
129.21 occupancies not exceeding 10,000 square feet (929 m²) in size, existing corridor
129.22 walls, ceilings, and opening protection not in compliance with Section 1104.17.1
129.23 may be continued when such buildings are protected with an approved automatic
129.24 fire alarm system. The fire alarm system shall include automatic smoke detection
129.25 throughout the exit system and approved detection in all boiler rooms, furnace
129.26 rooms, mechanical rooms, and storage rooms.

130.1 **1104.17.1.3 Existing Group E occupancies.** In Group E occupancies, existing
 130.2 corridor walls, ceilings, and opening protection not in compliance with Section
 130.3 1104.17.1 may be continued when such buildings are protected with an approved
 130.4 automatic fire alarm system that is monitored by a central, proprietary, or remote
 130.5 station service. The fire alarm system shall include automatic smoke detection
 130.6 throughout the exit system and approved detection in all rooms and areas other
 130.7 than classrooms and offices.

130.8 **TABLE 1104.17.1**

130.9 **CORRIDOR FIRE-RESISTANCE RATING**

Occupancy	Occupant Load Served by Corridor	Required Fire-Resistance Rating (hours)	
		Without sprinkler system	With sprinkler system
A, B, E, F, H, M, S, U	Greater than 30	1	0
I	Greater than 10	1 (see Section 1104.17.2.3)	0
R	Greater than 10	1	0

130.17 **1104.17.2 Corridor openings.** Openings into corridors shall comply with Sections
 130.18 1104.17.2.1 through 1104.17.2.3.

130.19 **1104.17.2.1 Doors.** Doors opening into corridors required by Table 1104.17.1 to
 130.20 be fire-resistance rated shall be protected by 20-minute fire assemblies or solid
 130.21 wood doors not less than 1-3/4 inches (45 mm) thick. Where the existing frame
 130.22 will not accommodate the 1-3/4 inches (45 mm) thick door, a 1-3/8 inches (35
 130.23 mm) thick solid bonded wood core door or equivalent insulated steel door shall
 130.24 be permitted. Doors shall be self-closing or automatic-closing by smoke detection.

130.25 **1104.17.2.2 Other openings.** Openings with fixed wired glass set in steel frames
 130.26 are permitted for corridor walls and ceilings. Transoms, louvers, and openings

131.1 other than doors from corridors to rooms shall be automatic-closing by smoke
 131.2 detection or shall be covered with a minimum of 3/4-inch (19 mm) gypsum
 131.3 wallboard or equivalent material on the room side.

131.4 **1104.17.2.3 Existing Group I-2 and I-3 occupancies.** Group I-3 corridor doors
 131.5 and patient room doors in Group I-2 corridors in Group I-2 occupancies and Group
 131.6 I-3 corridor doors need not be fire-resistance rated or self-closing where smoke
 131.7 barriers are provided in accordance with the Building Code or NFPA 101.

131.8 **1104.17.3 Corridor width.** The minimum corridor width shall be in accordance with
 131.9 Sections 1104.17.3.1 through 1104.17.3.2.

131.10 **1104.17.3.1 Minimum width.** The minimum corridor width shall be as determined
 131.11 by the occupant load calculations in Section 1005.3 but not less than 36 inches.

131.12 **1104.17.3.2 Minimum width in mechanical areas.** The minimum corridor width
 131.13 is allowed to be reduced to 24 inches (610 mm) for spaces providing access to
 131.14 electrical, mechanical, or plumbing systems.

131.15 **1104.17.4 Dead ends.** Where more than one exit or exit access doorway is required,
 131.16 the exit access shall be arranged such that dead ends do not exceed the limits specified
 131.17 in ~~Sections~~ Section 1104.17.4.1 through 1104.17.4.2 and Table 1104.17.4.

131.18 **1104.17.4.1 Wide corridors and dead-end provisions.** A dead-end passageway
 131.19 or corridor shall not be limited in length where the length of the dead-end
 131.20 passageway or corridor is less and 2.5 times the least width of the dead-end
 131.21 passageway or corridor.

131.22 **TABLE 1104.17.4**

131.23 **COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS (by occupancy)**

132.1 132.2	Occupancy	Common Path Limit		Dead-End Corridor Limit		Travel Distance Limit	
		Unspr (feet)	Spr (feet)	Unspr (feet)	Spr (feet)	Unspr (feet)	Spr (feet)
132.3 132.4							
132.5	Group A	20/75 ^a	20/75 ^a	20 ^b	20 ^b	200	250
132.6	Group B	75	100	50	50	200	300
132.7	Group E	75	75	50	50	200	250
132.8 132.9	Groups F-1, S-1 ^d	75	100	50	50	200	250
132.10 132.11	Groups F-2, S-2 ^d	75	100	50	50	300	400
132.12	Group H-1	25	25	0	0	75	75
132.13	Group H-2	50	100	0	0	75	100
132.14	Group H-3	50	100	20	20	100	150
132.15	Group H-4	75	75	20	20	150	175
132.16	Group H-5	75	75	20	50	150	200
132.17	Group I-1	75	75	20	20	200	250
132.18 132.19 132.20	Group I-2 (Health Care)	N/R	N/R	N/R	N/R	150	200 ^c
132.21	Group I-3	100	100	N/R	N/R	150 ^c	200 ^c
132.22 132.23	Group I-4 (Day Care)	N/R 75	N/R 100	20	20	200	250
132.24 132.25 132.26	Group M (Covered Mall)	75	100	50	50	200	400
132.27 132.28	Group M (Mercantile)	75	100	50	50	200	250
132.29 132.30	Group R-1 (Hotels)	75	75	50	50	200	250
132.31 132.32 132.33	Group R-2 (Apart- ments)	75	75 125	50	50	200	250

133.1	Groups R-3, R-4	N/R	N/R	N/R	N/R	N/R	N/R
133.2							
133.3	Group U	75	100	20	50	300	400

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

133.5 For SI: 1 foot = 304.8 mm.

133.6 ^{a-} 20 feet for common path serving more than 50 persons; 75 feet for common path serving
133.7 50 or fewer persons.

133.8 ^{b-} See Section ~~1024.9.5~~ 1029.9.5 for dead-end aisles in Group A occupancies.

133.9 ^{c-} This dimension is for the total travel distance, assuming incremental portions have fully
133.10 utilized their allowable maximums. For travel distance within the room, and from the room
133.11 exit access door to the exit, see the appropriate occupancy chapter.

133.12 ^{d-} See the International Building Code for special requirements on spacing of doors in aircraft
133.13 hangers.

133.14 N/R = No requirements.

133.15 Subp. 10a. IFC section 1104.18. IFC section 1104.18 is deleted.

133.16 Subp. 11. **IFC section ~~1104.18~~ 1104.19.** IFC section ~~1104.18~~ 1104.19 is amended to
133.17 read:

133.18 **~~1104.18~~ 1104.19 Exit access travel distance.** Exits shall be located so that the maximum
133.19 length of exit access travel, measured from the most remote point to an approved exterior
133.20 exit, vertical exit enclosure, horizontal exit, or exit passageway along the natural and
133.21 unobstructed path of egress travel, does not exceed the distances given in Table 1104.17.4.

133.22 Subp. 12. **IFC section ~~1104.19~~ 1104.20.** IFC section ~~1104.19~~ 1104.20 is amended to
133.23 read:

134.1 ~~1104.19~~ **1104.20 Common path of egress travel.** The common path of egress travel shall
 134.2 not exceed the distances given in Table 1104.17.4.

134.3 Subp. 13. IFC section ~~1104.20~~ **1104.21.** IFC section ~~1104.20~~ 1104.21 is amended to
 134.4 read:

134.5 ~~1104.20~~ **1104.21 Stairway discharge identification.** A stairway in an exit enclosure that
 134.6 continues below the level of exit discharge shall be arranged and marked to make the
 134.7 direction of egress to a public way readily identifiable. Stairs that continue one-half story
 134.8 beyond the level of exit discharge need not be provided with barriers where the exit discharge
 134.9 is obvious.

134.10 Subp. 14. IFC section ~~1104.21~~ **1104.22.** IFC section ~~1104.21~~ 1104.22 is amended to
 134.11 read:

134.12 ~~1104.21~~ **1104.22 Exterior stairway protection.** Exterior exit stairs shall be separated from
 134.13 the interior of the building as required in Section ~~1026.6~~ 1027.6.

134.14 Subp. 15. IFC section ~~1104.22~~ **1104.23.** IFC section ~~1104.22~~ 1104.23 is amended
 134.15 and sections added to read:

134.16 ~~1104.22~~ **1104.23 Minimum aisle width.** The minimum clear width of aisles and aisle
 134.17 accessways shall be in accordance with this section and Table ~~1104.22~~ 1104.23.

134.18 ~~1104.22.1~~ **1104.23.1 Aisle and aisle accessway width.** Aisles and aisle accessway
 134.19 widths shall be as determined by the occupant load calculations in Section 1005.3, but
 134.20 not less than the widths shown in Table ~~1104.22~~ 1104.23.

134.21 **TABLE ~~1104.22~~ 1104.23**

134.22 **MINIMUM AISLE AND AISLE ACCESSWAY WIDTHS**

135.1	Condition	Minimum Width (in inches)
135.2 135.3	Aisle accessways serving seating areas having 50 or fewer seats, tables, or desks	24 inches (610 mm)
135.4 135.5	Aisle accessways serving seating areas more than 50 seats, tables, or desks	30 inches (760 mm)
135.6	Aisle accessways serving employee areas only	24 inches (610 mm)
135.7 135.8	Level or ramped aisles having seating on each side and serving 50 or fewer seats	36 inches (914 mm)
135.9 135.10	Level or ramped aisles having seating on each side and serving more than 50 seats	42 inches (1,067 mm)
135.11 135.12	Level or ramped aisles having seating on one side and serving 60 or fewer seats	30 inches (760 mm)
135.13 135.14	Level or ramped aisles having seating on one side and serving more than 60 seats	36 inches (914 mm)
135.15 135.16	Aisle stairs having seating on each side and serving 50 or fewer seats	36 inches (914 mm)
135.17 135.18	Aisle stairs having seating on each side and serving more than 50 seats	42 inches (1,067 mm)
135.19 135.20	Aisle stairs having seating on one side and serving 60 or fewer seats	30 inches (760 mm)
135.21 135.22	Aisle stairs having seating on one side and serving more than 60 seats	36 inches (914 mm)
135.23 135.24	Aisle stair - distance between seating and aisle handrail or guard when the aisle is subdivided	20 inches (508 mm)

135.25 Subp. 16. **IFC section ~~1104.23~~ 1104.24**. IFC section ~~1104.23~~ 1104.24 is amended to
135.26 read:

135.27 **~~1104.23~~ 1104.24 Stairway floor number signs**. Existing stairs shall be marked in accordance
135.28 with Section ~~1022.9~~ 1023.9.

135.29 Subp. 17. **IFC section ~~1104.24~~ 1104.25**. IFC section ~~1104.24~~ 1104.25 is amended
135.30 and sections added to read:

136.1 ~~1104.24~~ 1104.25 **Number of means of egress or exits.** The number of means of egress
136.2 doors or exits from a room, area, story, or building shall be in accordance with Sections
136.3 ~~1104.24.1~~ 1104.25.1 through ~~1104.24.4~~ 1104.25.4 and Table ~~1104.24~~ 1104.25.

136.4 Where two or more means of egress doors or exits are required from a room or area, such
136.5 doors shall be separated from each other by a distance not less than one-third of the length
136.6 of the maximum overall diagonal dimension of the area served.

136.7 ~~1104.24.1~~ 1104.25.1 **Number based on capacity.** Two means of egress doors or exits
136.8 are required from rooms, areas, stories, or buildings when the number of occupants
136.9 exceeds the values shown in Table ~~1104.24~~ 1104.25.

136.10 ~~1104.24.1.1~~ 1104.25.1.1 **Dormitories.** Dormitory sleeping rooms having an exit
136.11 doorway direct to the exterior are not required to have a second exit or exit access
136.12 doorway provided that:

136.13 a. the room has 16 or fewer occupants;

136.14 b. the travel distance from any point in the room to the exit doorway does not
136.15 exceed 30 feet;

136.16 c. the room is not located more than two stories above grade;

136.17 d. the room is not located on a level below grade; and

136.18 e. the room is provided with an emergency escape window in accordance with
136.19 Sections ~~1029.2~~ 1030.2 through ~~1029.5~~ 1030.5 and the escape window is
136.20 separated from the exit doorway in accordance with Section ~~1015.2.1~~ 1007.1.1.

136.21 ~~1104.24.2~~ 1104.25.2 **Three egress doors or exits required.** Three means of egress
136.22 doors or exits are required from rooms, areas, stories, or buildings when the number
136.23 of occupants exceeds ~~501~~ 500 persons.

137.1 ~~1104.24.3~~ 1104.25.3 **Four egress doors or exits required.** Four means of egress doors
 137.2 or exits are required from rooms, areas, stories, or buildings when the number of
 137.3 occupants is 1,001 or more persons.

137.4 ~~1104.24.4~~ 1104.25.4. **Group E laboratories.** Group E science laboratories containing
 137.5 hazardous materials shall have two exits when exceeding 1,000 square feet (93 m²) in
 137.6 size.

137.7 **TABLE ~~1104.24~~ 1104.25**

137.8 **TWO EGRESS DOORS OR EXITS REQUIRED^a**

137.9	Occupancy	Number of Occupants
137.10	A, B, E, F, M, S, U	50 > <u>49</u> occupants
137.11	H, I, R	<u>≥</u> 10 Occupants
137.12	R (dormitories)	<u>≥</u> 16 Occupants (see 1104.23.1.1 <u>1104.25.1.1</u>)

137.13 ^a Two egress doors or exits shall be required when the number of occupants exceeds
 137.14 the number listed in the table.

137.15 Subp. 18. **IFC section ~~1104.25~~ 1104.26.** IFC section ~~1104.25~~ 1104 is amended ~~and~~
 137.16 ~~sections added~~ by adding section 1104.26 and subsections to read:

137.17 ~~1104.25~~ 1104.26 **Escape windows.** In Group R and Group I-1 occupancies, escape windows
 137.18 shall be provided, installed, and maintained in rooms used for sleeping below the fourth
 137.19 story. A readily accessible escape window shall be provided from basement levels occupied
 137.20 as a licensed family or group family child care home. Escape windows shall be in accordance
 137.21 with this section.

137.22 ~~1104.25.1~~ 1104.26.1 **Escape windows not required.** Emergency escape windows are
 137.23 not required for the following conditions:

137.24 1. If the room has a door that leads directly to the exterior of the building.

138.1 2. In dwellings and structures constructed prior to July 1, 1972, provided they are
138.2 not licensed by Minnesota or used for transient lodging.

138.3 3. If the building is protected throughout by an approved, automatic sprinkler
138.4 system installed in accordance with Section 903.3.

138.5 4. From rooms of existing buildings having two separate means of escape, provided
138.6 that the means of escape are independent of each other and they pass through only
138.7 one adjacent nonlockable room or area.

138.8 5. In Group R hotels or motels constructed prior to April 11, 1983.

138.9 ~~1104.25.2~~ 1104.26.2 **Minimum size and dimensions.** Escape window openings shall
138.10 have a minimum net clear opening area of 4.5 square feet (648 square inches). Opening
138.11 height and width dimensions shall not be less than 20 inches.

138.12 ~~1104.25.3~~ 1104.26.3 **Maximum height from floor.** The maximum height from the
138.13 floor to the window sill opening shall not exceed 48 inches.

138.14 ~~1104.25.4~~ 1104.26.4 **Emergency escape windows under decks and porches.**
138.15 Emergency escape windows are allowed to be installed under decks and porches
138.16 provided the location of the deck allows the emergency escape window to be fully
138.17 opened and provides a path not less than 36 inches in height to a yard or court.

138.18 ~~1104.25.5~~ 1104.26.5 **Window wells.** An escape window opening with a finished sill
138.19 height below the adjacent ground level shall be provided with a window well in
138.20 accordance with Sections ~~1104.25.5~~ 1104.26.5.1 through ~~1104.25.5.2~~ 1104.26.5.2.

138.21 ~~1104.25.5.1~~ 1104.26.5.1 **Minimum size.** The minimum horizontal area of the
138.22 window well shall be 9 square feet, with a minimum dimension of 36 inches. The
138.23 area of the window well shall allow the emergency escape and rescue opening to
138.24 be fully opened.

139.1 ~~1104.25.5.2~~ 1104.26.5.2 **Ladders or steps.** Window wells with a vertical depth
139.2 of more than 44 inches shall be equipped with an approved permanently affixed
139.3 ladder or steps. Ladders or rungs shall have an inside width of at least 12 inches,
139.4 shall project at least 3 inches from the wall and shall be spaced not more than 18
139.5 inches on center vertically for the full height of the window well. The ladder or
139.6 steps shall not encroach into the required dimensions of the window well by more
139.7 than 6 inches. The ladder or steps shall not be obstructed by the emergency escape
139.8 and rescue opening. Ladders or steps required by this section are exempt from the
139.9 stairway requirements of ~~Section 1009~~ Sections 1011 and 1104.10 through 1104.13.

139.10 **1104.26.6 Replacement windows for emergency escape and rescue openings.** The
139.11 replacement of windows provided for emergency escape and egress in Group R-2 and
139.12 R-3 occupancies regulated by the International Building Code or in one- and two-family
139.13 dwelling and townhouses regulated by the International Residential Code shall be
139.14 exempt from the minimum opening size and maximum sill height requirements of the
139.15 International Building Code or International Residential Code, respectively, where all
139.16 of the following conditions are met:

139.17 1. the replacement window is the manufacturer's largest standard size window that
139.18 will fit within the existing frame or existing rough opening. The replacement
139.19 window shall be the same operating style as the existing window or a style that
139.20 provides for an equal or greater window opening area than the existing window;

139.21 and

139.22 2. the replacement of the window is not part of a change of occupancy.

139.23 **1104.26.6.1 Licensed facilities.** Required windows in rooms of care facilities
139.24 licensed or registered by the state of Minnesota shall comply with the provisions
139.25 of Section 1104.26.6 or Sections 1104.26.2 and 1104.26.3, whichever is more
139.26 restrictive.

140.1 **1104.26.7 Operational constraints.** Window opening control devices complying with
140.2 ASTM F 2090 shall be permitted for use on windows required to provide emergency
140.3 escape and rescue openings.

140.4 **7511.1106 [Renumbered 7511.1105]**

140.5 **~~7511.1106~~ 7511.1105 SECTION ~~1106~~ 1105, SEPARATION OF OCCUPANCIES**
140.6 **AND HAZARDOUS AREAS.**

140.7 IFC chapter 11 is amended by adding section 1106 to read section 1105 and all
140.8 subsections are deleted and replaced with the following:

140.9 **~~1106.1~~ 1105.1 General.** Mixed occupancies within the same building and hazardous areas
140.10 shall be separated in accordance with Sections ~~1106.2~~ 1105.2 through ~~1106.3.2.1~~ 1105.3.2.1.

140.11 **~~1106.2~~ 1105.2 Occupancy separations.** Occupancy separations shall be provided in buildings
140.12 containing Group I and Group R occupancies as specified in Sections ~~1106.2.1~~ 1105.2.1
140.13 through ~~1106.2.3~~ 1105.2.3.1. These separations shall be constructed and maintained in
140.14 accordance with the Building Code. Existing wood lath and plaster in good condition or
140.15 1/2-inch (12.7 mm) gypsum wallboard is acceptable where one-hour occupancy separations
140.16 are required.

140.17 **~~1106.2.1~~ 1105.2.1 Door openings.** Where one-hour fire-resistant construction is
140.18 required, openings shall be protected by listed fire doors, insulated steel doors, 1-3/8-inch
140.19 thick (35 mm) or 1-3/4-inch thick (45 mm) solid wood doors, or fixed wired glass set
140.20 in steel frames. Doors shall be self-closing or automatic-closing by smoke detection.

140.21 **~~1106.2.2~~ 1105.2.2 Group I-1 and Group I-2 occupancies.** Group I-1 and Group I-2
140.22 occupancies shall be separated from other occupancies as specified in the Building
140.23 Code.

140.24 **~~1106.2.3~~ 1105.2.3 Group I-3 occupancies.** Group I-3 occupancies shall be separated
140.25 from other occupancies as specified in the Building Code.

141.1 ~~1106.2.3.1~~ 1105.2.3.1 **Group I-3 compliance options.** Occupancy separations
141.2 need not be provided for Group I-3 occupancies in the following conditions:

141.3 1. In buildings that are protected throughout by an approved automatic
141.4 sprinkler system, one-hour fire-resistance-rated construction is permitted.

141.5 2. In buildings that are protected throughout by an approved automatic
141.6 sprinkler system, openings for the passage of materials between the Group
141.7 I-3 and adjacent occupancies are not required to be fire-resistance rated when
141.8 such openings are not more than 4 feet (1,219 mm) above the floor and are
141.9 provided with a metal cover or door.

141.10 ~~1106.2.4~~ 1105.2.4 **Group R occupancies.** Group R occupancies and the exits therefrom
141.11 shall be separated from Group A, B, M, S, and U occupancies by at least one-hour
141.12 fire-resistance-rated construction. Group R occupancies shall be separated from all
141.13 other occupancies as specified in the Building Code.

141.14 ~~1106.2.4.1~~ 1105.2.4.1 **Group R compliance options.** Occupancy separations need
141.15 not be provided for Group R occupancies in the following conditions:

141.16 1. In buildings that are protected throughout by an approved automatic
141.17 sprinkler system, one-hour occupancy separations need not be provided.

141.18 2. An occupancy separation need not be provided between Group A and Group
141.19 R occupancies if the building is provided with a fire alarm system having
141.20 automatic smoke detection throughout the Group A occupancy.

141.21 3. Fire-resistance-rated opening protection need not be provided between
141.22 Group A and Group R occupancies when such openings are designed to resist
141.23 the passage of smoke and the openings are protected by an approved automatic
141.24 sprinkler system.

142.1 4. An occupancy separation need not be provided where two or more
142.2 occupancies occur in the same building or structure and are so intermingled
142.3 that separations are impracticable provided that the exit provisions and
142.4 protection requirements for the more restrictive occupancy are provided.

142.5 5. An occupancy separation need not be provided between a Group R-3
142.6 occupancy with sleeping accommodations for ten or fewer persons and Group
142.7 B or Group M occupancies which are accessory if interconnected smoke
142.8 alarms are provided. At least one smoke alarm shall be located in the Group
142.9 B or Group M occupancy and additional alarms may be needed in accordance
142.10 with manufacturer's instructions. Smoke alarms in the sleeping areas shall be
142.11 located as specified in Section 1103.8 and shall be audible in all sleeping
142.12 areas.

142.13 ~~1106.3~~ 1105.3 **Incidental use areas.** Incidental use areas shall be separated from the rest
142.14 of the building in accordance with this section. Incidental use areas are defined as shops,
142.15 laboratories containing hazardous materials, ~~storage rooms exceeding 100 square feet in~~
142.16 ~~size~~, laundry rooms exceeding 100 square feet in size, and rooms containing boilers or
142.17 central heating plants where the largest piece of fuel equipment exceeds 400,000 Btu per
142.18 hour input.

142.19 ~~1106.3.1~~ 1105.3.1 **Separation required.** Incidental use areas in Groups A, B, E, F, H,
142.20 I, M, R-1, R-2, and S occupancies shall be separated from the rest of the building by
142.21 not less than a one-hour fire barrier. Existing wood lath and plaster in good condition
142.22 or 1/2-inch (12.7 mm) gypsum wallboard is acceptable where one-hour fire barriers
142.23 are required. Storage rooms need not be separated in Groups F, M, or S occupancies.

142.24 ~~1106.3.2~~ 1105.3.2 **Sprinkler protection in lieu of separation.** Incidental use areas in
142.25 Groups A, B, E, F, H, M, and S occupancies need not be separated when the incidental
142.26 use area is protected with automatic sprinklers.

143.1 ~~1106.3.2.1~~ 1105.3.2.1 **Groups I and R occupancies.** Incidental use areas in Groups
143.2 I and R occupancies need not be separated when the incidental use area is protected
143.3 with automatic sprinklers and the construction of such areas is capable of resisting
143.4 the passage of smoke. Doors to such areas shall be a minimum of one-hour
143.5 fire-rated, solid-core wood doors or insulated steel doors. Doors shall be self-closing
143.6 or automatic-closing by smoke detection.

143.7 **7511.1203 SECTION 1203, EMERGENCY AND STANDBY POWER SYSTEMS.**

143.8 IFC section 1203.2.14 is amended to read:

143.9 **1203.2.14 Means of egress illumination.** Emergency power shall be provided for
143.10 means of egress illumination in accordance with Sections 1008.3 and 1104.5.3.

143.11 **7511.1204 SECTION 1204, SOLAR PHOTOVOLTAIC POWER SYSTEMS.**

143.12 Subpart 1. IFC section 1204.1 IFC section 1204.1 is amended and subsections are
143.13 added to read:

143.14 **1204.1 General.** Solar energy systems shall be installed in accordance with Sections 1204.1
143.15 through 1204.6 and the Building Code.

143.16 **Exception:** Buildings regulated by Minnesota Rules, chapter 1309, the Minnesota
143.17 Residential Code.

143.18 **1204.1.1 Minnesota Electrical Code.** The electrical portion of solar PV systems shall
143.19 be installed in accordance with the Minnesota Electrical Code.

143.20 **1204.1.2 Roof access points.** Roof access points shall meet all the following criteria.

143.21 1. Roof access points shall be located where fire departments have ground access.

143.22 2. Roof access points shall be located in areas that do not require the placement
143.23 of fire department ground ladders over openings such as windows or doors.

143.24 3. Roof access points shall be located at strong points of building construction.

144.1 4. Roof access points shall be in locations where the access point does not conflict
144.2 with overhead obstructions such as tree limbs, wires, or signs.

144.3 5. Each roof access point shall be provided with a landing on the roof side not less
144.4 than 6 feet in each direction. The landing shall be free and clear of obstructions
144.5 such as vent pipes, conduit, and mechanical and electrical equipment.

144.6 6. Roof access point landings on roofs with slopes greater than 2 units vertical in
144.7 12 units horizontal (2:12) shall be positioned with direct access to a pathway to
144.8 ridge.

144.9 7. Each solar array or grouping of arrays shall have not less than two roof access
144.10 points spaced not closer than 1/3 the diagonal dimension of the array or arrays
144.11 served.

144.12 Subp. 2. **IFC section 1204.2.** IFC section 1204.2 and its subsections are entirely
144.13 deleted and replaced with the following:

144.14 **1204.2 Access and pathways.** Roof access, pathways, and spacing requirements shall be
144.15 provided in accordance with Sections 1204.2.1 through 1204.3.3. Pathways shall be over
144.16 areas capable of supporting firefighters accessing the roof. Pathways shall be located in
144.17 areas without obstructions such as vent pipes, conduit, and mechanical and electrical
144.18 equipment.

144.19 **Exceptions:**

144.20 1. Detached, nonhabitable Group U structures including, but not limited to, detached
144.21 garages serving Group R-3 buildings, parking shade structures, carports, solar trellises,
144.22 and similar structures.

144.23 2. Roof access, pathways, and spacing requirements need not be provided where the
144.24 fire code official has determined that rooftop operations will not be employed.

145.1 **1204.2.1 Solar photovoltaic system for roof slopes greater than 2 units vertical in**
145.2 **12 units horizontal (2:12).** Solar photovoltaic systems for buildings with roof slopes
145.3 greater than 2 units vertical in 12 units horizontal (2:12) shall comply with Sections
145.4 1204.2.1.1 through 1204.2.1.3.

145.5 **1204.2.1.1 Pathways to ridge.** Not fewer than two 36-inch wide pathways on
145.6 separate roof planes, from the lowest roof edge to ridge, shall be provided on all
145.7 buildings. Pathways shall be provided at intervals not greater than 150 feet
145.8 throughout the length and width of the roof. Not fewer than one pathway shall be
145.9 provided on the street or driveway side, or fire-department-access side of the roof.
145.10 For each roof plane with a photovoltaic array, not fewer than one 36-inch wide
145.11 pathway from lowest roof edge to ridge shall be provided on the same roof plane
145.12 as the photovoltaic array, on an adjacent roof plane, or straddling the same and
145.13 adjacent roof planes.

145.14 **1204.2.1.2 Setbacks at ridge.** For photovoltaic arrays occupying 33 percent or
145.15 less of the plan view total roof area, a setback of not less than 18 inches (457 mm)
145.16 wide is required on both sides of a horizontal ridge. For photovoltaic arrays
145.17 occupying more than 33 percent of the plan view total roof area, a setback of not
145.18 less than 36 inches (914 mm) wide is required on both sides of a horizontal ridge.

145.19 **1204.2.1.3 Alternative setbacks at ridge.** Where an automatic sprinkler system
145.20 is installed within the building, setbacks at the ridge shall conform to one of the
145.21 following criteria:

145.22 1. For photovoltaic arrays occupying 66 percent or less of the plan view total
145.23 roof area, a setback of not less than 18 inches (457 mm) wide is required on
145.24 both sides of a horizontal ridge.

146.1 2. For photovoltaic arrays occupying more than 66 percent of the plan view
146.2 total roof area, a setback of not less than 36 inches (914 mm) wide is required
146.3 on both sides of a horizontal ridge.

146.4 **1204.2.2 Emergency escape and rescue openings.** Panels and modules installed on
146.5 Group R buildings shall not be placed on the portion of a roof that is below an
146.6 emergency escape and rescue opening. A pathway of not less than 36 inches (914 mm)
146.7 wide shall be provided from the roof edge to the emergency escape and rescue opening.

146.8 Subp. 3. **IFC section 1204.3.** IFC section 1204.3 and its subsections are entirely
146.9 deleted and replaced with the following:

146.10 **1204.3 Solar photovoltaic systems for roofs with slopes of 2 units vertical in 12 units**
146.11 **horizontal or less.** Access to systems for buildings with roofs with slopes of 2 units vertical
146.12 in 12 units horizontal (2:12) or less, shall be provided in accordance with Sections 1204.3.1
146.13 through 1204.3.3.

146.14 **1204.3.1 Perimeter pathways.** There shall be a minimum 6-foot wide (1,829 mm)
146.15 clear perimeter around the edges of the roof.

146.16 **Exception:** Where either axis of the building is 250 feet (76,220 mm) or less, the
146.17 clear perimeter around the edges of the roof shall be permitted to be reduced to a
146.18 minimum width of 4 feet (1,219 mm).

146.19 **1204.3.2 Interior pathways.** Interior pathways shall be provided between array sections
146.20 to meet the following requirements:

146.21 1. Pathways shall be provided at intervals not greater than 150 feet (45,720 mm)
146.22 throughout the length and width of the roof.

146.23 2. A pathway of not less than 4 feet (1,219 mm) wide in a straight line to roof
146.24 standpipes or ventilation hatches.

147.1 3. A pathway not less than 4 feet (1,219 mm) wide around roof access hatches,
147.2 with not fewer than one such pathway to a parapet or roof edge.

147.3 4. A pathway not less than 4 feet (1,219 mm) wide from the perimeter pathway to
147.4 an emergency escape and rescue opening located above the roof.

147.5 **1204.3.3 Smoke ventilation.** The solar installation shall be designed to meet the
147.6 following requirements:

147.7 1. Where non-gravity-operated smoke and heat vents occur, a pathway not less
147.8 than 4 feet (1,219 mm) wide shall be provided bordering all sides.

147.9 2. Smoke ventilation options between array sections shall be one of the following:

147.10 2.1 A pathway not less than 8 feet (2,438 mm) wide.

147.11 2.2 Where gravity-operated dropout smoke and heat vents occur, a pathway
147.12 not less than 4 feet (1,219 mm) wide on at least one side.

147.13 2.3 A pathway not less than 4 feet (1,219 mm) wide bordering 4-foot by 8-foot
147.14 (1,219 mm by 2,438 mm) venting cutouts every 20 feet (6,096 mm) on
147.15 alternating sides of the pathway.

147.16 Subp. 4. **IFC section 1204.6** IFC section 1204 is amended by adding a section to read:

147.17 **1204.6 Maintenance.** Equipment labeling, access, pathways, and setbacks for solar
147.18 photovoltaic power systems shall be continuously maintained. Existing systems shall be
147.19 maintained in accordance with the code in effect at the time of installation.

147.20 **7511.2007 SECTION 2007, HELISTOPS AND HELIPOINTS.**

147.21 IFC section 2007.5 is amended to read:

147.22 **2007.5 Standpipe systems.** A building with a rooftop helistop or heliport shall be provided
147.23 with a Class 1 standpipe system extended to the roof level on which the helistop or heliport

148.1 is located. All portions of the helistop and heliport area shall be within 150 feet (45,720
148.2 mm) of a 2.5-inch (63.5 mm) outlet on the standpipe system.

148.3 **7511.2306 SECTION 2306, FLAMMABLE AND COMBUSTIBLE LIQUID MOTOR**
148.4 **FUEL-DISPENSING FACILITIES.**

148.5 Subpart 1. **IFC section 2306.2.3.** IFC section 2306.2.3 is amended by adding
148.6 exceptions to Item 1 to read:

148.7 **Exceptions:**

148.8 1. When approved by the fire chief, other aboveground tanks that comply with
148.9 Chapter 57 are allowed to be used for outside, above-grade storage and dispensing
148.10 of Class I liquids, provided the tanks are located in accordance with Table 2306.2.3.

148.11 2. Existing nonprotected tanks designed, fabricated₂ and constructed in accordance
148.12 with Section 5704.2.7 and not exceeding 6,000 gallons individual capacity and
148.13 18,000 gallons aggregate capacity are allowed to be located not less than 30 feet
148.14 from the nearest dispenser and the nearest side of any public way, property line,
148.15 building₂ or combustible storage located on the same property.

148.16 Subp. 2. **IFC section 2306.2.3.** IFC section 2306.2.3 is amended by numbering the
148.17 exception to Item 2 and by adding an a second exception to Item 2 to read, so that the
148.18 exceptions to Item 2 read as follows:

148.19 **Exception Exceptions:**

148.20 1. Other above-ground tanks that comply with Chapter 57 where approved
148.21 by the fire code official.

148.22 2. Existing nonprotected tanks designed, fabricated₂ and constructed in
148.23 accordance with Section 5704.2.7 and not exceeding 10,000 gallons individual
148.24 capacity and 30,000 gallons aggregate capacity are allowed to be located not
148.25 less than 30 feet from the nearest dispenser and the nearest side of any public

149.1 way, property line, building, or combustible storage located on the same
149.2 property.

149.3 Subp. 3. **IFC section 2306.2.3.** IFC section 2306.2.3 is amended by adding Items 6
149.4 and 7 to read:

149.5 6. For operations not open to the public and for resort operations serving
149.6 registered guests only, which dispense Class I liquids from one tank having
149.7 a capacity of 560 gallons (~~2,120~~ 2,120 L) or less, having the dispenser located
149.8 on or adjacent to the tank is permitted. Such tanks shall be located in
149.9 accordance with Table 2306.2.3.

149.10 7. For operations not open to the public and for resort operations serving
149.11 registered guests only, which dispense Class II liquids from two tanks having
149.12 a capacity of up to 1,000 gallons (~~3,785~~ 3,785 L) each, having the dispenser
149.13 located on or adjacent to the tank is permitted. Such tanks shall be located in
149.14 accordance with Table 2306.2.3.

149.15 Subp. 4. **IFC Table 2306.2.3.** IFC Table 2306.2.3 is amended by modifying footnote
149.16 "a" to read:

149.17 ^a- When approved by the fire chief, dispensing devices are permitted to be installed
149.18 on top of or adjacent to protected aboveground tanks or tanks in vaults.

149.19 **7511.2404 SECTION 2404, SPRAY FINISHING.**

149.20 IFC section 2404.2, Exception 2, is amended to read:

149.21 ~~**2404.2 Location of spray finishing operations.** Spray finishing operations conducted in~~
149.22 ~~buildings used for Group A, E, I, or R occupancies shall be located in a spray room protected~~
149.23 ~~with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1~~
149.24 ~~and separated vertically and horizontally from other areas in accordance with the International~~

150.1 ~~Building Code. In other occupancies, spray-finishing operations shall be conducted in a~~
150.2 ~~spray room, spray booth, or spraying space approved for such use.~~

150.3 **Exceptions:**

150.4 ~~1. Automobile undercoating spray operations and spray-on automotive lining operations~~
150.5 ~~conducted in areas with approved natural or mechanical ventilation shall be exempt~~
150.6 ~~from the provisions of Section 2404 when approved and where utilizing Class IIIA or~~
150.7 ~~IIIB combustible liquids.~~

150.8 ~~2. In buildings other than Group A, I, or R occupancies, approved limited spraying~~
150.9 ~~space in accordance with Section 2404.9.~~

150.10 ~~3. Resin application areas used for manufacturing of reinforced plastics complying~~
150.11 ~~with Section 2409 shall not be required to be located in a spray room, spray booth, or~~
150.12 ~~spraying space.~~

150.13 **7511.3308 SECTION 3308, OWNER'S RESPONSIBILITY FOR FIRE**
150.14 **PROTECTION.**

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

150.16 ~~3308.8~~ **3308.9 Construction barriers.** Where construction, remodeling₂ or demolition is
150.17 taking place involving the use of cutting and welding, temporary heating with open flames,
150.18 or flammable-liquid-fueled equipment, such areas shall be separated from occupied areas
150.19 of a building by materials that will resist the spread of fire and smoke as specified for
150.20 draft-stopping materials in the Building Code.

150.21 **7511.5306 SECTION 5306, MEDICAL GAS SYSTEMS GASES.**

150.22 IFC section ~~5306.4~~ 5306 is amended by adding a subsection to read:

150.23 ~~5306.4 Medical gases.~~ The storage, handling, transferring and use of medical gases in
150.24 ~~portable cylinders and containers and medical gas systems including distribution piping,~~

151.1 ~~supply manifolds, connections, pressure regulators, and relief devices and valves, shall~~
151.2 ~~comply with NFPA 99 and the general provisions of IFC Chapter 53, as amended.~~

151.3 **5306.6 Domestic storage and use of medical gases.** The storage and use of medical gases
151.4 for personal use within a dwelling or dwelling unit shall comply with NFPA 99.

151.5 **7511.5704 SECTION 5704, STORAGE.**

151.6 *[For text of subpart 1, see Minnesota Rules]*

151.7 Subp. 2. **IFC section ~~5704.2.11.3~~ 5704.2.11.2.** IFC section ~~5704.2.11.3~~ 5704.2.11.2
151.8 is amended by adding sections to read:

151.9 **~~5704.2.11.3.1~~ 5704.2.11.2.1 **Burial depth.**** The maximum burial depth for
151.10 underground storage tanks shall be specified by the tank manufacturer, marked
151.11 on the tank, and in accordance with NFPA 30.

151.12 **~~5704.2.11.3.2~~ 5704.2.11.2.2 **Minimum depth of cover.**** Underground tanks
151.13 shall be covered with not less than 24 inches (600 mm) of earth, or not less
151.14 than 12 inches (300 mm) of earth on top of which shall be placed a slab of
151.15 reinforced concrete not less than 4 inches (100 mm) thick. Where the tanks
151.16 are subjected to traffic, they shall be protected against damage from vehicles
151.17 passing over them by at least 36 inches (900 mm) of earth cover, or 18 inches
151.18 (450 mm) of well-tamped earth plus either 6 inches (150 mm) of reinforced
151.19 concrete or 8 inches (200 mm) of asphaltic concrete. When asphaltic or
151.20 reinforced concrete paving is used as part of the protection, it shall extend at
151.21 least 12 inches (300 mm) horizontally beyond the outline of the tank in all
151.22 directions.

151.23 Subp. 3. **IFC section 5704.3.1.2.** IFC section 5704.3.1 is amended by adding a section
151.24 to read:

152.1 **5704.3.1.2 Rigid nonmetallic intermediate bulk containers.** The design,
152.2 construction and capacity of rigid nonmetallic intermediate bulk containers for the
152.3 storage of flammable and combustible liquids shall be in accordance with this
152.4 section and NFPA 30. When inside buildings, rigid nonmetallic intermediate bulk
152.5 containers containing flammable or combustible liquids shall be subjected to a
152.6 standard fire test that demonstrates acceptable inside storage fire performance and
152.7 shall be listed and labeled in accordance with UL 2368, Standard for Fire Exposure
152.8 Testing of Intermediate Bulk Containers for Flammable and Combustible Liquids,
152.9 ~~2001~~ 2014.

152.10 Subp. 4. **IFC section ~~5704.3.3.11~~ 5704.3.3.** IFC section 5704.3.3 is and its subsections
152.11 are amended by adding a section to read:

152.12 **5704.3.3 Indoor storage.** Storage of flammable and combustible liquids inside buildings
152.13 in containers and portable tanks shall be in accordance with Sections 5704.3.3.1 through
152.14 5704.3.3.11.

152.15 **Exceptions:**

152.16 1. Liquids in the fuel tanks of motor vehicles, aircraft, boats, or portable or
152.17 stationary engines.

152.18 2. The storage of distilled spirits and wines in wooden barrels or casks.

152.19 (Sections 5704.3.3.1 to 5704.3.3.10 remain unchanged.)

152.20 **5704.3.3.11 Fire-extinguishing systems.** Automatic sprinkler and foam-water
152.21 systems provided for the protection of container, intermediate bulk container and
152.22 portable tank storage shall be of the wet pipe, deluge₂ or preaction type. If preaction
152.23 systems are used, they shall be designed so that water or foam solution discharges
152.24 immediately from the sprinkler opened by heat from a fire.

153.1 **7511.5706 SECTION 5706, SPECIAL OPERATIONS.**

153.2 *[For text of subpart 1, see Minnesota Rules]*

153.3 Subp. 2. **IFC section 5706.5.4.** IFC section 5706.5.4 is amended to read:

153.4 **5706.5.4 General Liquid transfers from tank vehicles and tank cars.** Class I liquids
153.5 shall be transferred from a tank vehicle or tank car only into an approved atmospheric
153.6 tank or approved portable tank, except as provided in Sections 5706.5.4.1 through
153.7 5706.5.4.4. Class II and III-A liquids shall be transferred from a tank vehicle or tank
153.8 car only into an approved atmospheric tank, approved container or approved portable
153.9 tank, except as provided in Sections 5706.5.4.1 through ~~5706.5.4.4~~ 5706.5.4.5.

153.10 *[For text of subpart 3, see Minnesota Rules]*

153.11 Subp. 4. **IFC section 5706.6.4.** IFC section 5706.6.4 is amended to read:

153.12 **5706.6.4 Portable fire extinguisher.** Tank vehicles shall be equipped with a portable
153.13 fire extinguisher in accordance with Code of Federal Regulations, title 49, section
153.14 393.95.

153.15 **7511.5707 SECTION 5707, ON-DEMAND MOBILE FUELING OPERATIONS.**

153.16 IFC section 5707.2 is amended to read:

153.17 **5707.2 Mobile fueling vehicle.** An on-demand mobile fueling vehicle shall be a vehicle
153.18 that has chassis-mounted tanks or containers where the aggregate cargo capacity does not
153.19 exceed 1,200 gallons (4,592 L). A mobile fueling vehicle with a mounted tank in excess of
153.20 110 gallons (415 L) shall comply with the requirements of Sections 5706.6 and 5707, and
153.21 NFPA 385. The mobile fueling vehicle shall comply with all local, state, and federal
153.22 requirements. The mobile fueling vehicle and its equipment shall be maintained in good
153.23 repair.

154.1 **7511.6101 CHAPTER 61, LIQUEFIED PETROLEUM GASES.**

154.2 Chapter 61 is deleted in its entirety and replaced with the following:

154.3 **CHAPTER 61**

154.4 **LIQUEFIED PETROLEUM GASES**

154.5 **SECTION 6101**

154.6 **NFPA STANDARD NO. 58 INCORPORATED**

154.7 **6101.1 Incorporation by reference.** The storage, handling, transportation, and use of
154.8 liquefied petroleum gas and the installation of all equipment pertinent to systems for such
154.9 uses shall be designed, constructed, installed, operated, and maintained in accordance with
154.10 the provisions of ~~the National Fire Protection Association~~ NFPA Standard No. 58, ~~Standard~~
154.11 ~~for the Storage and Handling of Liquefied Petroleum Gases~~ Gas Code (Quincy,
154.12 Massachusetts, ~~2011~~ 2017). Standard No. 58, as amended by Section 6102, is incorporated
154.13 by reference, is not subject to frequent change, and is available at the State Law Library,
154.14 25 Rev. Dr. Martin Luther King Jr. Blvd., St. Paul, Minnesota 55155.

154.15 **SECTION 6102**

154.16 **AMENDMENTS TO NFPA STANDARD NO. 58**

154.17 **6102.1 Amendments.** NFPA 58 shall apply to the storage, handling, transportation, and
154.18 use of liquefied petroleum gas and the installation of all equipment pertinent to systems for
154.19 such uses, except as amended by this section.

154.20 1. ~~Section 6.4.5.7.~~ Section ~~6.4.5.7~~ 6.5.3.8 of NFPA Standard No. 58 is amended to
154.21 read:

154.22 ~~6.4.5.7~~ 6.5.3.8. No horizontal separation shall be required between aboveground
154.23 LP-Gas containers and underground tanks containing flammable or combustible liquids
154.24 installed in accordance with Chapter 57 of the International Fire Code.

155.1 2. ~~Section 6.4.5.10.~~ Section ~~6.4.5.10~~ 6.5.3.11 of NFPA Standard No. 58 is amended
155.2 to read:

155.3 ~~6.4.5.10~~ 6.5.3.11 The minimum separation between LP-Gas containers and liquefied
155.4 hydrogen containers shall be in accordance with Chapter 55 of the International Fire Code.

155.5 3. ~~Table 6.5.3.~~ Footnote "b" of Table ~~6.5.3~~ 6.7.2.1 of NFPA Standard No. 58 is amended
155.6 to read:

155.7 b. Walls constructed of noncombustible materials having a fire rating of at least one
155.8 hour as determined by the Building Code.

155.9 4. ~~Section 6.6.7.1.~~ Section ~~6.6.7.1~~ 6.8.7.1 of NFPA Standard No. 58 is amended to
155.10 read:

155.11 ~~6.6.7.1~~ 6.8.7.1. Installation of containers on roofs of buildings shall be prohibited.

155.12 5. ~~Section 6.6.7.2.~~ Section ~~6.6.7.2~~ 6.8.7.2 of NFPA Standard No. 58 is deleted.

155.13 6. ~~Section 6.19.11.1.~~ Section ~~6.19.11.1~~ 6.22.11.1 of NFPA Standard No. 58 is deleted.

155.14 7. ~~Section 6.22.2.1.~~ Section ~~6.22.2.1~~ 6.25.2.1 of NFPA Standard No. 58 is amended
155.15 to read:

155.16 ~~6.22.2.1~~ 6.25.2.1 Electrical equipment and wiring shall be of a type specified by
155.17 and shall be installed in accordance with the Minnesota Electrical Code for ordinary locations
155.18 except that fixed electrical equipment in classified areas shall comply with Section ~~6.22.2.2~~
155.19 6.25.2.2.

155.20 8. ~~Section 6.22.2.2.~~ The first sentence of Section ~~6.22.2.2~~ 6.25.2.2 of NFPA Standard
155.21 No. 58 is amended to read:

155.22 ~~6.22.2.2~~ 6.25.2.2 Fixed electrical equipment and wiring installed within the
155.23 classified areas specified in Table ~~6.22.2.2~~ 6.25.2.2 shall comply with Table ~~6.22.2.2~~ 6.25.2.2
155.24 and shall be installed in accordance with the Minnesota Electrical Code.

156.1 9. ~~Section 10.2.3~~. Section 10.2.3 of NFPA Standard No. 58 is amended to read:

156.2 **10.2.3 Structure or building heating.** Heating shall be by steam or hot water
156.3 radiation or other heating transfer medium with the heat source located outside the building
156.4 or structure (see Section ~~6.20~~ 6.25, Ignition Source Control), or by electrical appliances
156.5 listed for Class I, Group D, Division 2 locations, in accordance with the Minnesota Electrical
156.6 Code.

156.7 **7511.7900 AMENDMENTS TO APPENDICES OF INTERNATIONAL FIRE CODE.**

156.8 Subpart 1. [Repealed, 40 SR 1437]

156.9 Subp. 2. **IFC Appendix ~~K~~ O.** The IFC is amended by adding an Appendix ~~K~~ O to
156.10 read:

156.11 *The provisions contained in this appendix are not mandatory unless specifically*
156.12 *referenced in the local adopting ordinance.*

156.13 **APPENDIX ~~K~~ O**

156.14 **FIRES OR BARBECUES ON BALCONIES OR PATIOS**

156.15 **SECTION 1 - OPEN FLAME AND FUEL STORAGE PROHIBITED**

156.16 **1.1 Open flame prohibited.** In any structure containing three or more dwelling units, no
156.17 person shall kindle, maintain, or cause any fire or open flame on any balcony above ground
156.18 level, or on any ground floor patio within 15 feet (4,572 mm) of the structure.

156.19 **1.2 Fuel storage prohibited.** No person shall store or use any fuel, barbecue, torch, or other
156.20 similar heating or lighting chemical or device in the locations designated in Section 1.1.

156.21 **Exception:** Listed electric or gas-fired barbecue grills that are permanently mounted
156.22 and wired or plumbed to the building's gas supply or electrical system and that maintain
156.23 a minimum clearance of 18 inches (457 mm) on all sides, unless listed for lesser
156.24 clearances, may be installed on balconies and patios when approved by the fire chief.

157.1 Subp. 3. [Repealed, 40 SR 1437]

157.2 Subp. 4. [Repealed, 40 SR 1437]

157.3 Subp. 5. **IFC Appendix ~~L~~ P.** The IFC is amended by adding an appendix to read as
157.4 follows:

157.5 *The provisions contained in this appendix are not mandatory unless specifically*
157.6 *referenced in the local adopting ordinance.*

157.7 **APPENDIX ~~L~~ P**

157.8 **EMERGENCY RESPONDER RADIO COVERAGE**

157.9 ~~L101~~ **P101 Emergency responder radio coverage in existing buildings.** Existing buildings
157.10 that do not have approved radio coverage for emergency responders within the building
157.11 based upon the existing coverage levels of the public safety communication systems of the
157.12 jurisdiction at the exterior of the building, shall be equipped with such coverage according
157.13 to one of the following:

- 157.14 1. Whenever an existing wired communication system cannot be repaired or is being
157.15 replaced, or where not approved.
- 157.16 2. Within a time frame established by the adopting authority.

157.17 **Exception:** Where it is determined by the fire code official that the radio coverage
157.18 system is not needed.

157.19 ~~L102~~ **P102 Emergency responder radio coverage in new buildings.** All new buildings
157.20 shall have approved radio coverage for emergency responders within the building based
157.21 upon the existing coverage levels of the public safety communication systems of the
157.22 jurisdiction at the exterior of the building. This section shall not require improvement of
157.23 the existing public safety communication systems.

157.24 **Exceptions:**

- 158.1 1. Where approved by the building official and the fire code official, a wired
158.2 communication system in accordance with Section ~~907.2.13.2~~ 907.2.12.2 shall be
158.3 permitted to be installed or maintained in lieu of an approved radio coverage system.
- 158.4 2. Where it is determined by the fire code official that the radio coverage system is not
158.5 needed.
- 158.6 3. In facilities where emergency responder radio coverage is required and such systems,
158.7 components, or equipment required could have a negative impact on the normal
158.8 operations of that facility, the fire code official shall have the authority to accept an
158.9 automatically activated emergency responder radio coverage system.
- 158.10 4. Where it is determined to be unreasonably burdensome to implement an approved
158.11 radio coverage system.
- 158.12 ~~L103~~ **P103 Permit required.** A construction permit for the installation of or modification
158.13 to emergency responder radio coverage systems and related equipment is required.
158.14 Maintenance performed in accordance with this code is not considered a modification and
158.15 does not require a permit.
- 158.16 ~~L104~~ **P104 Technical requirements.** Systems, components, and equipment required to
158.17 provide emergency responder radio coverage system shall comply with Sections ~~L104.1~~
158.18 P104.1 through ~~L104.2.6~~ P104.2.6.
- 158.19 ~~L104.1~~ **P104.1 Radio signal strength.** The building shall be considered to have
158.20 acceptable emergency responder radio coverage when signal strength measurements
158.21 in 95 percent of all areas on each floor of the building meet the signal strength
158.22 requirements in Sections ~~L104.1.1~~ P104.1.1 and ~~L104.1.2~~ P104.1.2.
- 158.23 ~~L104.1.1~~ **P104.1.1 Minimum signal strength into the building.** A minimum
158.24 signal strength of -95 dBm shall be receivable within the building at a hip-worn
158.25 device.

159.1 ~~L104.1.2~~ **P104.1.2 Minimum signal strength out of the building.** A minimum
159.2 signal strength of -95 dBm shall be received by the agency's radio system when
159.3 transmitted from within the building from a hip-worn device.

159.4 ~~L104.2~~ **P104.2 System design.** The emergency responder radio coverage system shall
159.5 be designed in accordance with Sections ~~L104.2.1~~ **P104.2.1** through ~~L104.2.6~~ **P104.2.6**.

159.6 ~~L104.2.1~~ **P104.2.1 In-building coverage systems allowed.** Buildings and structures
159.7 which cannot support the required level of radio coverage shall be equipped with
159.8 a radiating cable system, a distributed antenna system with Federal Communications
159.9 Commission (FCC) certified repeaters, bi-directional amplifiers, picocells or their
159.10 equivalents, or other system approved by the fire code official in order to achieve
159.11 the required adequate radio coverage.

159.12 ~~L104.2.2~~ **P104.2.2 Technical criteria.** The fire code official shall maintain a
159.13 document providing the specific technical information and requirements for the
159.14 emergency responder radio coverage system. This document shall contain the
159.15 various frequencies required, the location of radio sites, effective radiated power
159.16 of radio sites, and other supporting technical information.

159.17 ~~L104.2.3~~ **P104.2.3 ~~Secondary Standby~~ power.** Emergency responder radio
159.18 coverage systems shall be provided with ~~an approved secondary source of power~~
159.19 dedicated standby batteries or provided with 2-hour standby batteries and connected
159.20 to the facility generator power system accordance with Section 1203. The ~~secondary~~
159.21 standby power supply shall be capable of operating the emergency responder radio
159.22 coverage system at 100 percent system capacity for a ~~period~~ duration of ~~at least~~
159.23 24 not less than 12 hours. ~~When primary power is lost, the power supply to the~~
159.24 ~~emergency responder radio coverage system shall automatically transfer to the~~
159.25 ~~secondary power supply.~~

160.1 ~~L104.2.4~~ **P104.2.4 In-building coverage system requirements.** If used, in-building
160.2 coverage systems shall meet the following requirements:

160.3 1. All in-building coverage system components shall be contained in a National
160.4 Electrical Manufacturer's Association (NEMA) 4-type waterproof cabinet.

160.5 2. Battery systems used for the emergency power source shall be contained
160.6 in a NEMA 4-type waterproof cabinet.

160.7 3. The in-building coverage system and battery system shall be electrically
160.8 supervised and monitored by a supervisory service, or when approved by the
160.9 fire code official, shall sound an audible signal at a constantly attended
160.10 location.

160.11 4. Equipment shall have FCC certification prior to installation.

160.12 ~~L104.2.5~~ **P104.2.5 Additional frequencies and change of frequencies.** The
160.13 emergency responder radio coverage system shall be capable of modification or
160.14 expansion in the event frequency changes are required by the FCC or additional
160.15 frequencies are made available by the FCC, or public safety entities operating in
160.16 a given jurisdiction make modifications, changes, or upgrades to their
160.17 communication system(s) that change the frequencies such systems utilize.

160.18 ~~L104.2.6~~ **P104.2.6 Availability.** The in-building coverage system, in general, shall
160.19 operate according to its intended specification with "5-9s" availability of 99.999
160.20 percent of each year; i.e., no critical component of the system shall be out of normal
160.21 operation for more than 5.26 minutes of each year.

160.22 ~~L105~~ **P105 Installation requirements.** The installation of the public safety radio coverage
160.23 system shall be in accordance with Sections ~~L105.1~~ **P105.1** through ~~L105.5~~ **P105.5**.

161.1 ~~L105.1~~ **P105.1 Approval prior to installation.** Amplification systems capable of
161.2 operating on frequencies licensed to any public safety agency by the FCC shall not be
161.3 installed without prior coordination and approval of the fire code official.

161.4 ~~L105.2~~ **P105.2 Minimum qualifications of personnel.** The minimum qualifications
161.5 of the system designer and lead installation personnel shall include at least one of the
161.6 following:

161.7 1. Certification of in-building system training issued by a nationally recognized
161.8 organization or school.

161.9 2. A certificate issued by the manufacturer of the equipment being installed.

161.10 These qualifications shall not be required where demonstration of adequate skills and
161.11 experience satisfactory to the fire code official is provided.

161.12 ~~L105.3~~ **P105.3 Acceptance test procedure.** When an emergency responder radio
161.13 coverage system is required, and upon completion of installation, the building owner
161.14 shall have the radio system tested to ensure that two-way coverage on each floor of the
161.15 building is a minimum of 95 percent. The test procedure shall be conducted as follows:

161.16 1. Each floor of the building shall be divided into a grid of 20 approximately equal
161.17 test areas.

161.18 2. The test shall be conducted using a calibrated handheld or hip-worn device of
161.19 the latest brand and model used by the agency talking through the agency's radio
161.20 communications system.

161.21 3. Failure of a maximum of two nonadjacent test areas shall not result in failure
161.22 of the test.

161.23 4. In the event that three of the test areas fail the test, in order to be more statistically
161.24 accurate, the floor shall be permitted to be divided into 40 equal test areas. Failure

162.1 of a maximum of four nonadjacent test areas shall not result in failure of the test.
162.2 If the system fails the 40-area test, the system shall be altered to meet the 95 percent
162.3 coverage requirement.

162.4 5. A test location approximately in the center of each test area shall be selected
162.5 for the test, with the radio enabled to verify two-way communications to and from
162.6 the outside of the building through the public agency's radio communications
162.7 system. Once the test location has been selected, that location shall represent the
162.8 entire test area. Failure in the selected test location shall be considered failure of
162.9 that test area. Additional test locations shall not be permitted.

162.10 6. The gain values of all amplifiers, if applicable, shall be measured and the test
162.11 measurement results shall be kept on file with the building owner so that the
162.12 measurements can be verified during annual tests. In the event that the measurement
162.13 results become lost, the building owner shall be required to rerun the acceptance
162.14 test to reestablish the gain values.

162.15 7. As part of the installation, a spectrum analyzer or other suitable test equipment
162.16 shall be utilized to ensure spurious oscillations are not being generated by the
162.17 subject in-building coverage system. This test shall be conducted at time of
162.18 installation and subsequent annual inspections.

162.19 8. A test shall be considered a "failure" when a transmission from the test device
162.20 within the building fails to deliver intelligible audio or data to the appropriate
162.21 public safety dispatch center or equivalent as would be expected during normal
162.22 operation; and/or when a transmission from a public safety dispatch center or
162.23 equivalent fails to deliver intelligible audio or data to the test device within the
162.24 building as would be expected during normal operation.

163.1 ~~L105.4~~ **P105.5 FCC compliance.** The emergency responder radio coverage system
163.2 installation and components shall also comply with all applicable federal regulations
163.3 including FCC 47 CFR Part 90.219.

163.4 ~~L106~~ **P106 Maintenance.** The emergency responder radio coverage system shall be
163.5 maintained operational at all times in accordance with Sections ~~L106.1~~ **P106.1** through
163.6 ~~L106.4~~ **P106.4**.

163.7 ~~L106.1~~ **P106.1 Testing and proof of compliance.** The emergency responder radio
163.8 coverage system shall be inspected and tested annually or whenever structural changes
163.9 occur including additions or remodels that could materially change the original field
163.10 performance tests. Testing shall consist of the following:

163.11 1. In-building coverage test as described in Section ~~L105.3~~ **P105.3**.

163.12 2. Signal boosters in-building coverage systems shall be tested to ensure that the
163.13 gain is the same as it was upon initial installation and acceptance.

163.14 3. Backup batteries and power supplies shall be tested under load of a period of
163.15 one hour to verify that they will properly operate during an actual power outage.
163.16 If, within the one-hour test period, the battery exhibits symptoms of failure, the
163.17 test shall be extended for additional one hour periods until the integrity of the
163.18 battery can be determined.

163.19 4. All other active components shall be checked to verify operation within the
163.20 manufacturer's specifications.

163.21 5. At the conclusion of the testing, a report, which shall verify compliance with
163.22 Section ~~L105.3~~ **P105.3**, shall be submitted to the fire code official.

163.23 ~~L106.2~~ **P106.2 Additional frequencies.** The building owner shall modify or expand
163.24 the emergency responder radio coverage system at their expense in the event frequency
163.25 changes are required by the FCC or additional frequencies are made available by the

164.1 FCC, or public safety entities operating in a given jurisdiction make modifications,
164.2 changes, or upgrades to their communication system(s) that change the frequencies
164.3 such systems utilize. Prior approval of a public safety radio coverage system on previous
164.4 frequencies does not exempt this section.

164.5 ~~L106.3~~ **106.3 Field testing.** Agency personnel shall have the right to enter onto the
164.6 property at any reasonable time to conduct field testing to verify the required level of
164.7 radio coverage.

164.8 ~~L106.4~~ **P106.4 Planned outages.** Any planned outages of the in-building coverage
164.9 system, such as for replacement or upgrade of the system, shall be done with the written
164.10 approval of an entity legitimately representing public safety agencies operating within
164.11 the jurisdiction, such as a county sheriff.

164.12 **7511.8000 REFERENCED STANDARDS.**

164.13 Subpart 1. NFPA 13. Standard NFPA 13 as listed in chapter 80 is amended to read
164.14 as follows:

164.15 **13 - 16: Standard for the Installation of Sprinkler Systems.**

164.16 315.3.1, Table 507.3, 901.11.1, 901.11.2, 903.2.8.4, 903.3.1.1, 903.3.1.1.1, 903.3.1.6.2,
164.17 903.3.1.6.4, 903.3.2, 903.3.8.2, 903.3.8.5, 904.12, 905.2.1.4, 907.6.4, 914.3.2, 1019.3,
164.18 Table 1103.4, 1206.2.11.1, 1206.3.5.1, 3201.1, 3204.2, Table 3206.2, 3206.4.1, 3206.10,
164.19 3207.2, 3207.2.1, 3208.2.2, 3208.2.2.1, 3208.4, 3210.1, 3401.1, 5104.1, 5104.1.1,
164.20 5106.5.7, 5704.3.3.9, Table 5704.3.6.3(7), 5704.3.7.5.1, 5704.3.8.4.

164.21 Subp. 2. NFPA 13D. Standard NFPA 13D as listed in chapter 80 is amended to read
164.22 as follows:

164.23 **13D - 16: Standard for the Installation of Sprinkler Systems in One- and Two-family**
164.24 **Dwellings and Manufactured Homes.**

165.1 903.3.1.3, 903.3.1.6.6.

165.2 Subp. 3. NFPA 14. Standard NFPA 14 as listed in chapter 80 is amended to read as
165.3 follows:

165.4 **14 - 16: Standard for the Installation of Standpipe and Hose Systems.**

165.5 905.2, 905.4.2, 905.6.2, 905.8.

165.6 Subp. 4. NFPA 30. Standard NFPA 30 as listed in chapter 80 is amended to read as
165.7 follows:

165.8 **30 - 18: Flammable and Combustible Liquids Code.**

165.9 608.1, 5701.2, 5703.6.2, 5703.6.2.1, 5704.2.7, 5704.2.7.1, 5704.2.7.2, 5704.2.7.3.2,
165.10 5704.2.7.4, 5704.2.7.6, 5704.2.7.7, 5704.2.7.8, 5704.2.7.9, 5704.2.9.3, 5704.2.9.4,
165.11 5704.2.9.6.1.1, 5704.2.9.6.1.2, 5704.2.9.6.1.3, 5704.2.9.6.1.4, 5704.2.9.6.1.5,
165.12 5704.2.9.6.2, 5704.2.9.7.3, 5704.2.10.2, 5704.2.11.2.1, 5704.2.11.3, 5704.2.11.4.2,
165.13 5704.2.12.1, 5704.3.1, 5704.3.1.2, 5704.3.6, Table 5704.3.6.3(1), Table 5704.3.6.3(2),
165.14 Table 5704.3.6.3(3), 5704.3.7.2.3, 5704.3.8.4, 5706.8.3.

165.15 Subp. 5. NFPA 58. Standard NFPA 58 as listed in chapter 80 is amended to read as
165.16 follows:

165.17 **58 - 17: Liquefied Petroleum Gas Code.**

165.18 319.8.3, 603.4.2.1.1, 2311.5, 3903.6, 6101.1, 6102.1.

165.19 Subp. 6. NFPA 72. Standard NFPA 72 as listed in Chapter 80 is amended to read as
165.20 follows:

165.21 **72 - 16: National Fire Alarm and Signaling Code.**

165.22 508.1.6, Table 901.6.1, 903.4.1, 904.3.5, 907.2, 907.2.10, 907.2.1.2, 907.2.1.3,
165.23 907.2.12.2, 907.5.2.1.2, 907.5.2.2, 907.5.2.2.5, 907.6, 907.6.1, 907.6.2, 907.7, 907.7.1,

166.1 907.7.2, 907.8, 907.8.2, 907.8.5, 917.1, 1103.7.1.3, 1103.7.6, 1103.7.6.1, 1203.2.4,
166.2 2810.11.

166.3 Subp. 7. **NFPA 96.** Standard NFPA 96 as listed in chapter 80 is amended to read as
166.4 follows:

166.5 **96 - 2017: Standard for Ventilation Control and Fire Protection of Commercial Cooking**
166.6 **Operations.**

166.7 607.2, 607.3, 904.12.

166.8 Subp. 8. **NFPA 99.** Standard NFPA 99 as listed in chapter 80 is amended to read as
166.9 follows:

166.10 **99 - 2012: Health Care Facilities Code.**

166.11 609.1, 1203.4.1, 1203.5.1, 5306.4, 5306.5, 5306.6.

166.12 Subp. 9. **NFPA 101.** Standard NFPA 101 as listed in chapter 80 is amended to read
166.13 as follows:

166.14 **101 - 2012: Life Safety Code.**

166.15 102.13, 102.13.1, 1029.6.2, 1101.5, 1104.17.2.3.

166.16 Subp. 10. **NFPA 204.** Standard NFPA 204 as listed in chapter 80 is amended to read
166.17 as follows:

166.18 **204 - 15: Standard for Smoke and Heat Venting.**

166.19 Table 901.6.1, 910.5.1, 910.5.2, 910.7.

166.20 Subp. 11. **NFPA 289.** Standard NFPA 289 as listed in chapter 80 is amended to read
166.21 as follows:

166.22 **289 - 18: Standard Method of Fire Test for Individual Fuel Packages.**

167.1 807.3, 807.4.1, 807.5.1.1, 807.5.3.4, 808.3.

167.2 Subp. 12. **NFPA 701.** Standard NFPA 701 as listed in chapter 80 is amended to read
167.3 as follows:

167.4 **701 - 15: Standard Methods of Fire Tests for Flame-propagation of Textiles and Films.**

167.5 807.3, 807.4.1, 807.5.1.2, 807.5.3.4, 2603.5, 3104.2.

167.6 **7511.8100 CHAPTER 81 - ADULT DAY ~~CARE~~ SERVICES CENTERS,**
167.7 **RESIDENTIAL HOSPICE FACILITIES AND SUPERVISED LIVING FACILITIES.**

167.8 The IFC is amended by adding Chapter 81 to read:

167.9 **CHAPTER 81**

167.10 **ADULT DAY ~~CARE~~ SERVICES CENTERS, RESIDENTIAL HOSPICE FACILITIES**

167.11 **AND SUPERVISED LIVING FACILITIES**

167.12 **SECTION 8101**

167.13 **GENERAL**

167.14 **8101.1 Requirements.** Adult day ~~care~~ services centers, residential hospice facilities
167.15 and supervised living facilities shall meet the requirements of this chapter.

167.16 **SECTION 8102**

167.17 **ADULT DAY ~~CARE~~ SERVICES CENTERS**

167.18 **8102.1 Classification of adult day ~~care~~ services centers.** Adult day ~~care~~ services
167.19 centers are classified in accordance with the following and must meet the fire safety
167.20 requirements for the designated occupancy classification.

167.21 **8102.1.1 Serving only participants capable of self-preservation.** Centers serving
167.22 only participants who are capable of taking appropriate action for self-preservation

168.1 under emergency conditions shall meet all applicable requirements for Group E
168.2 occupancies.

168.3 **8102.1.2 Serving only participants not capable of self-preservation.** Centers serving
168.4 only participants who are not capable of taking appropriate action for self-preservation
168.5 under emergency conditions shall meet all applicable requirements for Group I-4
168.6 occupancies.

168.7 **8102.1.3 Serving both participants capable and participants not capable of**
168.8 **self-preservation.** Centers serving a population that includes both participants who
168.9 are capable and participants who are not capable of taking appropriate action for
168.10 self-preservation under emergency conditions shall meet the occupancy requirements
168.11 for Group I-4 or Group E occupancies. In addition to the requirements for Group E
168.12 occupancies, the center shall meet the requirements set forth in Sections 8102.1.3.1
168.13 through 8102.1.3.4.

168.14 **8102.1.3.1 Population.** Not more than 50 percent of the center's licensed capacity
168.15 shall be made up of participants who are not capable of taking appropriate action
168.16 for self-preservation under emergency conditions.

168.17 **8102.1.3.2 Location.** The center must be located on a floor level with all exits
168.18 directly to grade without any intervening stairs.

168.19 **8102.1.3.3 Fire alarm and detection.** The center shall be protected with a complete
168.20 automatic fire ~~detection~~ alarm system consisting of automatic smoke detection in
168.21 all corridors and at the top of all stairways and automatic detection in boiler and
168.22 furnace rooms, kitchens, storage rooms, custodial closets, laundries, and other
168.23 hazardous areas. ~~In buildings equipped with manual fire alarm systems, the manual~~
168.24 ~~fire alarm and automatic detection systems shall be electrically interconnected.~~

169.1 **8102.1.3.4 Evacuation time.** The center shall demonstrate the ability to evacuate
169.2 the entire population of the center within three minutes.

169.3 **SECTION 8103**

169.4 **RESIDENTIAL HOSPICE FACILITIES**

169.5 **8103.1 Classification of residential hospice facilities.** Residential hospice facilities meeting
169.6 the fire-protection provisions of Chapter 32 of the ~~National Fire Protection Association~~
169.7 NFPA Standard No. 101 (Quincy, Massachusetts, ~~2000~~ 2012) for impractical evacuation
169.8 capabilities shall be classified as Group R-4 occupancies, if serving six to 12 persons, or as
169.9 Group R-3 occupancies, if serving five or fewer persons. For purposes of this section,
169.10 Standard No. 101 (~~2000~~ 2012) Chapter 32 is incorporated by reference, is not subject to
169.11 frequent change and is available at the State Law Library, 25 Rev. Dr. Martin Luther King
169.12 Jr. Blvd., St. Paul, Minnesota 55155.

169.13 **SECTION 8104**

169.14 **SUPERVISED LIVING FACILITIES**

169.15 **8104.1 Classification of supervised living facilities.** Supervised living facilities are classified
169.16 in accordance with Chapter 2 and must meet the fire safety requirements for the designated
169.17 occupancy classification.

169.18 **8104.1.1 Class A-1 supervised living facilities.** Class A-1 supervised living facilities
169.19 must meet Group R-3 occupancy requirements.

169.20 **8104.1.2 Class A-2 supervised living facilities.** Class A-2 supervised living facilities
169.21 housing not more than 16 persons, excluding staff, must meet Group R-4 occupancy
169.22 requirements. Class A-2 supervised living facilities housing more than 16 persons,
169.23 excluding staff, must meet Group I-1 occupancy requirements.

170.1 **8104.1.3 Class B-1 supervised living facilities.** Class B-1 supervised living facilities
170.2 meeting the fire-protection provisions of Chapter 32 of ~~the National Fire Protection~~
170.3 ~~Association~~ NFPA Standard No. 101 (Quincy, Massachusetts, 2000 2012) for impractical
170.4 evacuation capabilities shall be classified as Group R-3 occupancies. For the purposes
170.5 of Sections 8104.1.3 and 8104.1.4, Standard No. 101 (~~2000~~ 2012) Chapter 32 is
170.6 incorporated by reference, is not subject to frequent change and is available at the State
170.7 Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

170.8 **8104.1.4 Class B-2 supervised living facilities.** Class B-2 supervised living facilities
170.9 meeting the fire-protection provisions of Chapter 32 of ~~the National Fire Protection~~
170.10 ~~Association~~ NFPA Standard No. 101 (Quincy, Massachusetts, 2000 2012) for impractical
170.11 evacuation capabilities shall be classified as Group R-4 occupancies.

170.12 **8104.1.5 Class B-3 supervised living facilities.** Class B-3 supervised living facilities
170.13 must meet Group I-2 occupancy requirements.

170.14 **REPEALER.** Minnesota Rules, parts 7511.0308, subpart 2; 7511.0408, subparts 1 and 2;
170.15 7511.0604, subparts 2 and 3; 7511.0605; 7511.0807, subpart 2; 7511.0903, subpart 5;
170.16 7511.0907, subpart 13; 7511.0908; 7511.1001, subpart 1a; 7511.1007; 7511.1015; 7511.1029,
170.17 subparts 2 and 3; 7511.1103, subpart 5; 7511.2307; 7511.5001; and 7511.5501, are repealed.

170.18 **EFFECTIVE DATE.** The amendments to this chapter are effective March 31, 2020, or
170.19 five business days after publication of the notice of adoption appears in the State Register,
170.20 whichever is later.