

Office of the Revisor of Statutes

Administrative Rules



TITLE: Adopted Permanent Rules Relating to Changes to the Fire Code

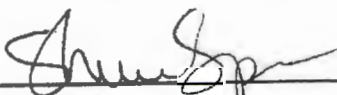
AGENCY: Department of Labor and Industry

REVISOR ID: R-4516

MINNESOTA RULES: Chapter 7511

INCORPORATIONS BY REFERENCE: [See attached]

The attached rules are approved for
filing with the Secretary of State


Sheree Speen
Assistant Deputy Revisor

201830

INCORPORATIONS BY REFERENCE:

Part 7511.0090, subpart 1: The 2018 edition of the International Fire Code as promulgated by the International Code Council, Inc., Washington, D.C., is incorporated by reference and made a part of Minnesota Rules pursuant to statutory authority, subject to the alterations and amendments in this chapter, is not subject to frequent change, and is available at the office of the commissioner of the Department of Labor and Industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., St. Paul, Minnesota 55155. The IFC is copyright 2017 by the International Code Council, Inc. All rights reserved.

Part 7511.0102, subpart 4: The Life Safety Code, ANSI/NFPA 101, referred to as Standard No. 101, published by the National Fire Protection Association (Quincy, Massachusetts, 2012), is incorporated by reference, is not subject to frequent change, and is available at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

Part 7511.0201: The Merriam-Webster Collegiate Dictionary, available on the Internet at www.merriam-webster.com and through the Minitex interlibrary loan system.

Part 7511.6101: NFPA Standard No. 58, Liquefied Petroleum Gas Code (Quincy, Massachusetts, 2017), as amended by Section 6102, is incorporated by reference, is not subject to frequent change, and is available at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., St. Paul, Minnesota 55155.

Part 7511.8100: Chapter 32 of NFPA Standard No. 101 (Quincy, Massachusetts, 2012), is incorporated by reference, is not subject to frequent change, and is available at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., St. Paul, Minnesota 55155.

1.1 **Department of Labor and Industry**

1.2 **Adopted 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 2018 edition of the International Fire Code as promulgated by the International Code Council,
1.6 Inc., Washington, D.C. The IFC is incorporated by reference and made a part of Minnesota
1.7 Rules pursuant to statutory authority, subject to the alterations and amendments in this
1.8 chapter. Portions of this chapter reproduce text and tables from the IFC. The IFC is not
1.9 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 2017 by the International
1.12 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 105.6.50.

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 Building Code, Minnesota Rules, chapter 1305.
- 2.5 3. Wherever this code references the International Fuel Gas Code, it means the
2.6 Minnesota Mechanical Code, Minnesota Rules, chapter 1346.
- 2.7 4. Wherever this code references the International Mechanical Code, it means the
2.8 Minnesota Mechanical Code, Minnesota Rules, chapter 1346.
- 2.9 5. Wherever this code references the International Plumbing Code, it means the
2.10 Minnesota Plumbing Code, Minnesota Rules, chapter 4714.
- 2.11 6. Wherever this code references the International Residential Code, it means the
2.12 Minnesota Residential Code, Minnesota Rules, chapter 1309.
- 2.13 7. Wherever this code references the International Existing Building Code, it means
2.14 the Minnesota Conservation Code for Existing Buildings, Minnesota Rules, chapter
2.15 1311.
- 2.16 Subp. 4. **IFC section 102.** IFC section 102 is amended by adding sections to read:
- 2.17 **102.13 Standards for existing Group I occupancies.** The provisions of protection in
2.18 existing Group I-2 occupancies, and in existing Group I-3 occupancies used as detention
2.19 and correctional facilities, shall be in accordance with the applicable provisions of the Life
2.20 Safety Code, ANSI/NFPA 101, referred to as Standard No. 101, published by the National
2.21 Fire Protection Association (Quincy, Massachusetts, 2012). Standard No. 101 is incorporated
2.22 by reference, is not subject to frequent change and is available at the State Law Library, 25
2.23 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

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

3.7 **102.13.1 Standard 101 modified.** Sections 23.3.7 through 23.3.7.3 of Standard No.
3.8 101 are deleted.

3.9 **102.14 Mixed occupancies.** Where a building is occupied for two or more uses not included
3.10 in the same occupancy, the building or portion thereof shall be classified as a mixed
3.11 occupancy. The mixed occupancy shall be further classified as either nonseparated uses or
3.12 separated uses according to the Building Code. Areas of Group H shall only be as separated
3.13 uses as permitted by the Building Code.

3.14 **102.14.1 Separated uses.** Each portion of the building shall be individually classified
3.15 as to use. Each fire area shall comply with the Fire Code based on the use of that space.
3.16 Provisions for egress between different occupancies shall be in accordance with Chapter
3.17 10.

3.18 **102.14.2 Nonseparated uses.** Each portion of the building shall be individually
3.19 classified as to use. The most restrictive provisions of the Fire Code shall apply to the
3.20 nonseparated uses. Provisions for egress between different occupancies shall be in
3.21 accordance with Chapter 10.

3.22 **7511.0105 SECTION 105, PERMITS.**

3.23 IFC section 105.7.21 is deleted.

4.1 **7511.0108 [Renumbered 7511.0109]**

4.2 **7511.0109 SECTION 109, BOARD OF APPEALS.**

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

4.4 **SECTION 109**

4.5 **APPEALS**

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

4.18 Subp. 2. **IFC sections 109.2 and 109.3.** IFC sections 109.2 and 109.3 are deleted.

4.19 **7511.0109 [Renumbered 7511.0110]**

4.20 **7511.0110 SECTION 110, VIOLATIONS.**

4.21 IFC section 110.4 is amended to read:

4.22 **110.4 Violation penalties.** A person who violates a provision of this code shall be guilty
4.23 of a misdemeanor.

4.24 (Subsection 110.4.1 remains unchanged.)

5.1 **7511.0201 SECTION 201, GENERAL.**

5.2 IFC section 201.4 is amended to read:

5.3 **201.4 Terms not defined.** When terms are not defined, they shall have their ordinary
5.4 accepted meanings within the context with which they are used. The Merriam-Webster
5.5 Collegiate Dictionary, available on the Internet at www.merriam-webster.com, shall be
5.6 considered as providing ordinarily accepted meanings. The dictionary is incorporated by
5.7 reference, is subject to frequent change, and is available through the Minitex interlibrary
5.8 loan system.

5.9 **7511.0202 SECTION 202, GENERAL DEFINITIONS.**

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

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

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

5.20 **AMBULATORY CARE FACILITY.** Buildings or portions of buildings used to provide
5.21 medical, surgical, psychiatric, nursing, or similar care on a less than 24-hour basis to
5.22 individuals who are rendered incapable of self-preservation by the services provided. For
5.23 the purposes of this chapter, federally certified end-stage renal disease facilities (kidney
5.24 dialysis facilities) located on the level of exit discharge shall not be considered ambulatory
5.25 care facilities.

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

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

6.5 A. inspection, investigation, or testing;

6.6 B. accepted principles;

6.7 C. computer simulations;

6.8 D. research reports; or

6.9 E. testing performed by either a licensed engineer or by a locally or nationally recognized
6.10 testing laboratory.

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

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

6.21 **BUILDING CODE.** The Minnesota Building Code, Minnesota Rules, chapter 1305.

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

6.24 **Table 202.1**

7.1

Care Facility Classifications

7.2

7.3

7.4

Type of Licensed Facility**Number or Type of Care Recipients****IBC
Occupancy
Classification**

7.5

Child Care (Day Family Child Care Home Care)

10 occupants maximum with
 ≤ 6 below school age¹R-3
Dwelling Unit

7.6

7.7

Group Child Care Home
< 24 hours per day

11-14 occupants maximum

R-3
Dwelling Unit

7.8

7.9

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

7.10

7.11

7.12

7.13

Child Care Center
< 24 hours per dayMore than 5 children > 2.5
years of age

E

7.14

7.15

Child Care Center
< 24 hours per dayMore than 5 children ≤ 2.5
years of age and not
classified as E

I-4

7.16

7.17

7.18

Adult Day Care Family Adult Day Services
(Day Services) (located in caregiver's
primary residence) ≤ 8 care recipients age 13
and olderR-3
Dwelling Unit

7.19

7.20

7.21

Adult Day Services Center
< 24 hours per day6 or more care recipients, age
13 and older, all may or may
not be capable of
self-preservation without
assistanceI-4
Unless meets
criteria for E
below

7.22

7.23

7.24

7.25

7.26

Adult Day Services Center
< 24 hours per day6 or more care recipients, age
13 and older, all capable of
self-preservation without
assistance

E

7.27

7.28

7.29

7.30

Adult Day Services Center
< 24 hours per day6 or more care recipients, age
13 and older, where at least
one care recipient but no
more than 50 percent of the
care recipients require
assistance for
self-preservationI-4
E if meets all
conditions for
classification
as E under
definition of
Occupancy
Classification,

7.31

7.32

7.33

7.34

7.35

7.36

7.37

8.1				Classification as Group E
8.2				
8.3		Day Training and Habilitation	Program participants age 13 and older	Classified by primary use/training function
8.4				
8.5				
8.6				
8.7	Supervised	Class A-1	6 or fewer residents; all of whom are capable of self-preservation without assistance	R-3 Dwelling Unit
8.8	Living Facilities			
8.9				
8.10				
8.11		Class A-2	7 to 16 residents; all of whom are capable of self-preservation without assistance	R-4 Condition 1
8.12				
8.13				
8.14				
8.15		Class A-2	More than 16 residents; all of whom are capable of self-preservation without assistance	I-1 Condition 1
8.16				
8.17				
8.18				
8.19		Class B-1	6 or fewer residents; all of whom may not be capable of self-preservation without assistance	R-3
8.20				
8.21				
8.22				
8.23		Class B-2	7 to 16 residents; of which some may require limited assistance for self-preservation	R-4 Condition 2
8.24				
8.25				
8.26				
8.27		Class B-3	More than 16 residents; all of whom may not be capable of self-preservation without assistance	I-2 Condition 1
8.28				
8.29				
8.30				
8.31	Hospice	Residential Hospice Facility	1-5 terminally ill persons	R-3
8.32		Residential Hospice Facility	6-12 terminally ill persons	R-4 Condition 2
8.33				
8.34	Adult Foster	Adult Foster Care Home	1-5 impaired adults	R-3 Dwelling Unit
8.35	Care			

9.1	Child Foster Care	Foster Care	1-6 foster children without severe disability or assisted medical technology	R-3 Dwelling Unit
9.2				
9.3				
9.4		Foster Care	1-4 foster children with medical or special care services	R-3 Dwelling Unit
9.5				
9.6				
9.7	Housing with Services Establishment	Housing with Services	1-5 adult residents $\geq$ 80 percent 55 years of age or older unless registered under MN Statutes, section 144D.025	R-3 Dwelling Unit
9.8		Establishment		
9.9		Housing with Services		
9.10		Establishment Providing		
9.11		Assisted Living Services		
9.12		Housing with Services	6-16 adult residents $\geq$ 80 percent 55 years of age or older unless registered under MN Statutes, section 144D.025	R-4 Condition 2
9.13		Establishment		
9.14		Housing with Services		
9.15		Establishment Providing		
9.16		Assisted Living Services		
9.17		Housing with Services	> 16 adult residents $\geq$ 80 percent 55 years of age or older unless registered under MN Statutes, section 144D.025	I-1 Condition 2
9.18		Establishment		
9.19		Housing with Services		
9.20		Establishment Providing		
9.21		Assisted Living Services		
9.22	Boarding Care	Boarding Care Home	$\leq$ 5 residents	R-3 Dwelling Unit
9.23				
9.24				
9.25		Boarding Care Home	6-16 residents all of whom are capable of self-preservation without assistance	R-4 Condition 1
9.26				
9.27				
9.28		Boarding Care Home	> 16 residents all of whom are capable of self-preservation without assistance	I-1 Condition 1
9.29				
9.30				
9.31				
9.32				
9.33				
9.34	Boarding and Lodging	Boarding and Lodging	$\leq$ 16 residents in sleeping rooms or $\leq$ 2 dwelling units in one building	R-3
9.35				
9.36				
9.37				
		Boarding and Lodging	> 16 residents in sleeping rooms or > 2 dwelling units in one building all of whom	R-2

10.1			are capable of	
10.2			self-preservation without	
10.3			assistance	
10.4		Boarding and Lodging	Lodging facilities with 6 or	R-1
10.5		< 30 days	more sleeping units	
10.6			Boarding houses with > 10	
10.7			occupants	
10.8		Boarding and Lodging	Lodging facilities with 5 or	R-3
10.9		< 30 days	fewer sleeping units	Dwelling Unit
10.10			Boarding houses with ≤ 10	
10.11			occupants	
10.12	Senior Housing	Senior Housing (See IBC	More than 2 dwelling units	R-2
10.13		310)	in one building	
10.14		Senior Housing (See IBC	2 family dwelling units in	R-3
10.15		310)	one building	
10.16		Senior Housing (See IBC	1 dwelling unit	R-3
10.17		310)		Dwelling Unit
10.18	Congregate	Congregate Residence	≤ 16 residents	R-3
10.19	Residence			
10.20		Congregate Residence	17 or more residents	R-2
10.21	Chemical	Chemical Dependency and	Not regulated	B
10.22	Dependency	Mental Health Treatment		
10.23	and Mental	Programs - Outpatient (< 24		
10.24	Health	hrs.)		
10.25	Treatment			
10.26	Programs			
10.27		Chemical Dependency and	≤ 5 residents	R-3
10.28		Mental Health Treatment		Dwelling Unit
10.29		Programs - Residential		
10.30		Chemical Dependency and	6-16 residents all of whom	R-4 Condition
10.31		Mental Health Treatment	may not be capable of	2
10.32		Programs - Residential	self-preservation without	
10.33			assistance	
10.34		Chemical Dependency and	> 16 residents all of whom	I-1 Condition
10.35		Mental Health Treatment	may not be capable of	2
10.36		Programs - Residential		

- 11.1 self-preservation without
11.2 assistance
- 11.3 Ambulatory Nursing and medical care for Includes skilled medical care, B
11.4 Care Facility < 24 hours emergency care, surgery,
11.5 obstetrics, or patient
11.6 stabilization for psychiatric
11.7 or detox
- 11.8 Nursing Home Nursing and medical care for Does NOT include: I-2 Condition
11.9 > 24 hours emergency care, surgery, 1
11.10 obstetrics, or in-patient
11.11 stabilization for psychiatric
11.12 or detox
- 11.13 Hospital Nursing and medical care for Includes skilled medical care, I-2 Condition
11.14 > 24 hours emergency care, surgery, 2
11.15 obstetrics, or in-patient
11.16 stabilization for psychiatric
11.17 or detox
- 11.18 ¹ "School age" means the age of a "school-age child" as defined in Minnesota Statutes
11.19 2018, section 245A.02, subdivision 16.
- 11.20 **CHIEF.** See FIRE CHIEF.
- 11.21 **CORRIDOR.** An interior passageway having a length at least three times its width, having
11.22 walls, partitions, or other obstructions to exit travel over 6 feet (1,829 mm) in height on two
11.23 opposing sides and having openings from rooms or similar spaces.
- 11.24 **DECORATIVE MATERIALS.** Combustible materials used for decorative effects such
11.25 as curtains; draperies; streamers; surface coverings applied over building interior finishes
11.26 for decorative, acoustical, or other effect; cloth; cotton batting; paper; plastics; vegetation;
11.27 hay; split bamboo; straw; vines; leaves; trees; moss; and similar materials used for decorative
11.28 effect. Decorative materials do not include educational materials that are displayed in an
11.29 approved manner, ordinary window shades, floor coverings, interior finish materials used

12.1 as surface coverings (See Chapter 8 for regulations of such materials) and materials 1/28
12.2 inch (0.9 mm) or less in thickness applied directly to a noncombustible backing.

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

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

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

12.14 **FIRE CODE OFFICIAL.** The state fire marshal, the state fire marshal's authorized
12.15 representative, fire chief, fire department representatives authorized by the fire chief, or
12.16 other authority specifically designated by ordinance or regulation that is charged with the
12.17 administration and enforcement of the code. The appointing authority shall ensure that the
12.18 fire code official is competent by virtue of certification as a fire inspector, training, or
12.19 experience in fire prevention inspections and enforcement.

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

12.23 **FLEET VEHICLE MOTOR FUEL-DISPENSING FACILITY.** That portion of a
12.24 commercial, industrial, governmental, or manufacturing property where liquids used as
12.25 fuels are stored and dispensed into the fuel tanks of motor vehicles that are used in connection

13.1 with such businesses, by persons within the employ of such businesses. For purposes of
13.2 this definition, a motor vehicle is any self-propelled vehicle that: (1) conveys an operator,
13.3 such as an automobile, truck, motorcycle, recreational vehicle, camper, all-terrain vehicle,
13.4 snowmobile, lawn care vehicle, tractor, or dozer; and (2) is used for personal, commercial,
13.5 recreational, maintenance, or construction purposes.

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

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

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

13.14 **INTERMEDIATE BULK CONTAINER.** A storage container meeting the requirements
13.15 of and containing products authorized by the United States Department of Transportation
13.16 Hazardous Materials Regulations, Code of Federal Regulations, title 49, or by Part 6 of the
13.17 United Nations Recommendations on the Transport of Dangerous Goods for classes 31H1,
13.18 31H2, and 31HZ1.

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

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

13.23 **INTERNATIONAL MECHANICAL CODE.** The Minnesota Mechanical Code, Minnesota
13.24 Rules, parts 1346.0050 to 1346.1606.

- 14.1 **INTERNATIONAL RESIDENTIAL CODE (IRC).** The Minnesota Residential Code,
14.2 Minnesota Rules, chapter 1309.
- 14.3 **MECHANICAL CODE.** The Minnesota Mechanical Code, Minnesota Rules, parts
14.4 1346.0050 to 1346.1606.
- 14.5 **MINNESOTA BUILDING CODE.** Minnesota Rules, chapter 1305.
- 14.6 **MINNESOTA MECHANICAL CODE.** Minnesota Rules, parts 1346.0050 to 1346.1606.
- 14.7 **MINNESOTA RESIDENTIAL CODE.** Minnesota Rules, chapter 1309.
- 14.8 **MUNICIPALITY.** Any statutory or home rule charter city, county, or town meeting the
14.9 requirements of Minnesota Statutes, section 368.01, subdivision 1, the University of
14.10 Minnesota, or the state for public buildings.
- 14.11 **NFPA.** National Fire Protection Association.
- 14.12 **OCCUPANCY CLASSIFICATION.** Except as modified by this part, for the purposes of
14.13 this code, certain occupancies and uses are defined. All other subdefinitions in the IFC
14.14 definition of "occupancy classification" that are not modified in this definition still apply:
- 14.15 **Institutional Group I.**
- 14.16 **Group I-1.** This occupancy shall include buildings, structures, or portions thereof for
14.17 more than 16 persons who reside, on a 24-hour basis, in a supervised environment and
14.18 receive custodial care services. Examples of this group include the following:
- 14.19 Alcohol and drug centers
- 14.20 Assisted living
- 14.21 Boarding care homes
- 14.22 Congregate care facilities
- 14.23 Convalescent facilities

- 15.1 Group homes
- 15.2 Halfway houses
- 15.3 Housing with services establishment
- 15.4 Residential board and care facilities
- 15.5 Social rehabilitation facilities
- 15.6 Supervised living facilities Class A-2
- 15.7 **Occupancy conditions.** Buildings of Group I-1 shall be classified as one of the
- 15.8 following conditions:
- 15.9 **Condition 1.** This occupancy condition includes buildings in which all persons
- 15.10 receiving custodial care, without any assistance, are capable of responding to an
- 15.11 emergency situation to complete building evacuation.
- 15.12 **Condition 2.** This occupancy condition includes buildings in which there are any
- 15.13 persons receiving custodial care who require limited verbal or physical assistance
- 15.14 while responding to an emergency situation to complete building evacuation.
- 15.15 **Six to 16 persons receiving custodial care.** A facility housing at least six and not
- 15.16 more than 16 persons receiving custodial care, all of whom are capable of
- 15.17 self-preservation shall be classified as Group R-4, Condition 1.
- 15.18 **Five or fewer persons receiving custodial care.** A facility with five or fewer
- 15.19 persons receiving custodial care shall be classified as Group R-3.
- 15.20 **Group I-2.** This occupancy shall include buildings and structures used for medical
- 15.21 care on a 24-hour basis for more than five persons who are incapable of
- 15.22 self-preservation. Examples of this group include the following:
- 15.23 Detoxification facilities

16.1 Foster care facilities

16.2 Hospitals

16.3 Nursing homes

16.4 Psychiatric hospitals

16.5 Supervised living facilities Class B-3

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

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

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

16.16 **Five or fewer persons receiving care.** A facility with five or fewer persons
16.17 receiving care consistent with Group I-2 occupancies shall be classified as Group
16.18 R-3.

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

16.24 Adult day services

17.1 Child day care

17.2 **Classification as Group E.** Day care and day services uses are classified as Group E
17.3 occupancies in accordance with the following:

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

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

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

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

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

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

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

- 18.1 1. The facility provides care for more than five but not more than 100 children
18.2 2-1/2 years or less of age.
- 18.3 2. The rooms in which the children are cared for are located on the level of
18.4 exit discharge serving such rooms.
- 18.5 3. Each room providing day care has an exit door directly to the exterior.

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

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

18.11 **Five or fewer occupants receiving care in a dwelling unit.** Adult day services
18.12 or child day care within a dwelling unit and having five or fewer persons receiving
18.13 custodial care shall be classified as a Group R-3 occupancy. Where the adult day
18.14 services or child day care is located in a one- or two-family dwelling or townhouse,
18.15 the dwelling: (1) shall be constructed in accordance with either the Building Code
18.16 or the Minnesota Residential Code; and (2) shall be equipped with an automatic
18.17 sprinkler system when required by Section 903.2.8.

18.18 **Residential Group R.**

18.19 Residential Group R includes, among others, the use of a building or structure, or a
18.20 portion thereof, for sleeping purposes when not classified as an Institutional Group I.

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

19.1 Residential occupancies shall be classified according to the following:

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

19.4 Boarding houses (transient) with more than ten occupants

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

19.6 Hotels (transient)

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

19.8 Motels (transient)

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

19.12 Apartment houses

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

19.14 Boarding houses

19.15 Convents

19.16 Dormitories

19.17 Fraternities and sororities

19.18 Monasteries

19.19 Hotels (not transient)

19.20 Motels (not transient)

19.21 Vacation time-share properties

20.1 **Residential Group R-3.** Residential occupancies where the occupants are primarily
20.2 permanent in nature and not classified as R-1, R-2, R-4, or I, including:

20.3 Assisted living

20.4 Buildings that do not contain more than two dwelling units

20.5 Boarding care homes

20.6 Care facilities that provide accommodations for five or fewer persons receiving
20.7 care

20.8 Congregate living facilities (nontransient) with 16 or fewer occupants

20.9 Boarding houses (nontransient)

20.10 Dormitories

20.11 Fraternities and sororities

20.12 Convents

20.13 Monasteries

20.14 Congregate living facilities (transient) with ten or fewer occupants

20.15 Boarding houses (transient)

20.16 Dwelling units (two or fewer) in mixed occupancy buildings

20.17 Family adult foster home

20.18 Foster care

20.19 Housing with services establishment

20.20 Lodging houses (transient) with five or fewer guest rooms and 10 or fewer
20.21 occupants

- 21.1 Residential hospice with five or fewer occupants
- 21.2 **Lodging houses.** Owner-occupied lodging houses with five or fewer guest rooms
21.3 and 10 or fewer total occupants shall be permitted to be constructed in accordance
21.4 with the Minnesota Residential Code.
- 21.5 **Residential Group R-4.** This occupancy shall include buildings, structures or portions
21.6 thereof for more than five but not more than 16 persons, excluding staff, who reside
21.7 on a 24-hour basis in a supervised residential environment and receive custodial care.
21.8 This group shall include the following:
- 21.9 Alcohol and drug centers
- 21.10 Assisted living
- 21.11 Boarding care homes
- 21.12 Congregate care facilities
- 21.13 Group homes
- 21.14 Halfway houses
- 21.15 Housing with services establishment (including those that provide assisted living)
- 21.16 Residential board and care facilities
- 21.17 Residential hospice with twelve or fewer occupants
- 21.18 Social rehabilitation facilities
- 21.19 Group R-4 occupancies shall meet the requirements for construction as defined for
21.20 Group R-3, except as otherwise provided for in this code.
- 21.21 **Occupancy conditions.** Buildings of Group R-4 shall be classified as one of the
21.22 following occupancy conditions:

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

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

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

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

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

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

22.21 **RESIDENTIAL HOSPICE FACILITY.** A facility located in a residential area that directly
22.22 provides 24-hour residential and support services in a home-like setting for not more than
22.23 12 persons who have been diagnosed as terminally ill with a probable life expectancy of
22.24 under one year.

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

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

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

23.9 **Class I system.** "Class I system" means a system providing 2-1/2 inch (64 mm) and
23.10 1-1/2 inch (38 mm) hose connections to supply water for use by fire departments and
23.11 those trained in handling heavy fire streams.

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

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

23.17 **SUPERVISED LIVING FACILITY.** A facility in which supervision, lodging, meals, and,
23.18 in accordance with the rules of the Department of Human Services and the Department of
23.19 Health, counseling and developmental habilitative or rehabilitative services are provided
23.20 to persons who are chemically dependent, adult mentally ill, or physically or developmentally
23.21 disabled.

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

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

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

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

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

24.17 **7511.0304 SECTION 304, COMBUSTIBLE WASTE MATERIAL.**

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

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

24.20 **304.4 Clothes dryers.** Clothes dryers and their exhaust systems shall be cleaned as necessary
24.21 to keep lint traps, exhaust ducts, and mechanical and heating components free from excessive
24.22 lint accumulation.

24.23 **7511.0315 SECTION 315, GENERAL STORAGE.**

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

25.1 **315.3.1 Ceiling clearance.** Storage shall be maintained 2 feet (610 mm) or more below
25.2 the ceiling in nonsprinklered areas of buildings or a minimum of 18 inches (457 mm)
25.3 below sprinkler head deflectors in sprinklered areas of buildings. Where more restrictive
25.4 clearances between sprinkler head deflectors and storage are required by the sprinkler
25.5 listing or NFPA 13, the more restrictive clearances shall apply.

25.6 **Exceptions:**

- 25.7 1. The 2-foot (610 mm) ceiling clearance is not required for storage along walls
25.8 in nonsprinklered areas of buildings.
- 25.9 2. The 18-inch (457 mm) ceiling clearance is not required for storage along walls
25.10 in areas of buildings equipped with an automatic sprinkler system in accordance
25.11 with Section 903.3.1.1, 903.3.1.2, or 903.3.1.3.

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

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

25.14 **7511.0319 [Renumbered 7511.0320]**

25.15 **7511.0320 SECTION 320, CLEARANCE OF VEGETATION FROM STRUCTURES.**

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

25.17 **SECTION 320**

25.18 **CLEARANCE OF VEGETATION FROM STRUCTURES**

25.19 **320.1 General.** Land that is covered with grass, grain, brush, or forest, whether privately
25.20 or publicly owned, which is so situated or is of such inaccessible location that a fire
25.21 originating upon the land would present an abnormally difficult job of suppression or would
25.22 result in great and unusual damage through fire or resulting erosion, shall comply with
25.23 Section 320.2.

26.1 **320.2 Fire breaks.** Persons owning, leasing, controlling, operating, or maintaining buildings
26.2 or structures in, upon, or adjoining land covered with grass, grain, brush, or forest, and
26.3 persons owning, leasing, or controlling land adjacent to such buildings or structures, shall
26.4 comply at all times with all of the following requirements:

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

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

26.11 2. Maintain additional fire protection or firebreak by removing brush, flammable
26.12 vegetation, and combustible growth located from 30 feet to 100 feet (9,144 mm to 30,
26.13 480 mm) from such buildings or structures, when required by the fire chief because of
26.14 extrahazardous conditions causing a firebreak of only 30 feet (9,144 mm) to be
26.15 insufficient to provide reasonable fire safety.

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

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

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

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

27.1 **7511.0321 SECTION 321, COVERED MALL BUILDINGS.**

27.2 Subpart 1. [See repealer.]

27.3 Subp. 2. [See repealer.]

27.4 Subp. 3. **IFC section 321.** IFC chapter 3 is amended by adding a section and
27.5 subsections to read as follows:

27.6 **SECTION 321**

27.7 **COVERED MALL BUILDINGS**

27.8 **321.1 Egress.** The minimum egress width in covered mall buildings shall be maintained in
27.9 conformance with the Building Code.

27.10 **321.2 Kiosks.** Kiosks and similar structures, whether temporary or permanent, located in
27.11 covered mall buildings shall be constructed, protected, and located in conformance with
27.12 the Building Code.

27.13 **7511.0403 SECTION 403, EMERGENCY PREPAREDNESS REQUIREMENTS.**

27.14 IFC section 403.10.3.5 is deleted.

27.15 **7511.0408 [Renumbered 7511.0321]**

27.16 **7511.0604 SECTION 604, ELECTRICAL EQUIPMENT, WIRING, AND HAZARDS.**

27.17 Subpart 1. **IFC section 604.10.4.** IFC section 604.10.4 is deleted.

27.18 Subp. 2. [See repealer.]

27.19 Subp. 3. [See repealer.]

27.20 **7511.0606 SECTION 606, ELEVATOR OPERATION, MAINTENANCE, AND FIRE**
27.21 **SERVICE KEYS.**

27.22 IFC section 606.2.3 is amended to read as follows:

28.1 **606.2.3 Two or more elevators.** Where two or more elevators are controlled by a
28.2 common operating system, all elevators shall automatically transfer to standby power
28.3 within 60 seconds after failure of normal power where the standby power source is of
28.4 sufficient capacity to operate all elevators at the same time. Where the standby power
28.5 source is not of sufficient capacity to operate all elevators at the same time, the elevators
28.6 shall operate according to ASME A17.1/CSA B44-2016 Section 2.27.2.

28.7 **7511.0607 SECTION 607, COMMERCIAL KITCHEN HOODS.**

28.8 IFC section 607.3 is amended to read:

28.9 **607.3 Operations and maintenance.** Commercial cooking systems shall be operated and
28.10 maintained in accordance with Sections 607.3.1 through 607.3.4, and NFPA 96.

28.11 (Sections 607.3.1 through 607.3.4 remain unchanged.)

28.12 **7511.0610 SECTION 610, PEDESTRIAN WALKWAYS AND PEDESTRIAN**
28.13 **TUNNELS.**

28.14 IFC Chapter 6 is amended by adding a section 610 to read:

28.15 **SECTION 610**

28.16 **PEDESTRIAN WALKWAYS, PEDESTRIAN TUNNELS, AND MEZZANINES**

28.17 **610.1 Installation and maintenance.** New pedestrian walkways and tunnels shall be
28.18 constructed and maintained in conformance with the Building Code. Existing pedestrian
28.19 walkways and pedestrian tunnels shall comply with the following:

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

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

29.3 3. Combustible materials or decorations shall not be located in pedestrian walkways
29.4 or pedestrian tunnels. Interior wall, ceiling, and floor finishes shall comply with Chapter
29.5 8.

29.6 4. Pedestrian walkways and pedestrian tunnels that serve as required means of egress
29.7 from attached buildings shall comply with Sections 1031 and 1104.

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

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

29.13 **610.2 Mezzanines.** Mezzanines in buildings shall conform to the requirements of the
29.14 Building Code.

29.15 **7511.0611 [Renumbered 7511.0610]**

29.16 **7511.0701 SECTION 701, GENERAL.**

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

29.18 **Exception:** This exception applies to the following elements that exceed the
29.19 requirements for new structures or facilities: existing fire-resistance-rated construction,
29.20 existing construction to resist the passage of smoke, and existing opening protectives.
29.21 When approved by the fire code official: (1) maintenance of these elements is not
29.22 required; and (2) removal of these elements is permitted as long as any decommissioned
29.23 equipment is clearly labeled as such.

30.1 **7511.0705 SECTION 705, DOOR AND WINDOW OPENINGS.**

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

30.3 **Exception:** Periodic testing and inspection in accordance with NFPA 80 and NFPA
30.4 105 is not required for swinging fire door and smoke door assemblies. Swinging fire
30.5 door and smoke door assemblies shall be maintained in an operable condition in
30.6 accordance with NFPA 80 and NFPA 105. Damaged or defective swinging fire door
30.7 and smoke door assemblies shall be repaired or replaced.

30.8 **7511.0706 SECTION 706, DUCT AND AIR TRANSFER OPENINGS.**

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

30.10 **Exception:** When approved by the fire code official, periodic testing and inspection
30.11 in accordance with NFPA 80 and NFPA 105 is not required for inaccessible fire
30.12 dampers, inaccessible smoke dampers, and inaccessible combination fire and smoke
30.13 dampers. Inaccessible fire dampers, inaccessible smoke dampers, and inaccessible
30.14 combination fire and smoke dampers shall be maintained in accordance with NFPA
30.15 80 and NFPA 105 and repaired or replaced where damaged or defective.

30.16 **7511.0806 SECTION 806, DECORATIVE VEGETATION IN NEW AND EXISTING**
30.17 **BUILDINGS.**

30.18 IFC section 806.1 and its subsections are deleted entirely and replaced with the
30.19 following:

30.20 **806.1 Natural cut trees and natural decorative vegetation.** Natural cut trees and natural
30.21 decorative vegetation shall comply with Sections 806.1.1 through 806.1.4.

30.22 **806.1.1 Natural or resin-bearing trees.** The use, display, or storage of natural or
30.23 resin-bearing trees for use or decoration inside buildings shall be in accordance with
30.24 Sections 806.1.1.1 through 806.1.1.5.

31.1 **806.1.1.1 Group R occupancies.** The use and display of natural or resin-bearing
31.2 trees inside dwelling units of Group R-2 and R-3 occupancies is permitted.

31.3 **806.1.1.2 Sprinkler protected areas.** Trees located in areas protected by an
31.4 approved automatic sprinkler system installed in accordance with Section 903.3.1.1
31.5 or 903.3.1.2 are permitted in all occupancies except Group I and ambulatory care
31.6 facilities.

31.7 **806.1.1.3 Where allowed.** Trees without open flames or electric lights are allowed
31.8 in Group A used for worship purposes, Group B, E, and M occupancies.

31.9 **806.1.1.4 Restricted.** Trees used inside buildings for other occupancies or
31.10 conditions are not allowed.

31.11 **806.1.1.5 Location.** The use and display of natural or resin-bearing trees shall not
31.12 be placed in a location that would obstruct egress, fire protection systems and
31.13 equipment, and shall not be allowed to accumulate inside a building. In buildings
31.14 where more than one tree is located, they shall be separated by at least 20 feet as
31.15 measured from the tree branches.

31.16 **806.1.2 Support devices.** The support device that holds the tree in an upright position
31.17 shall be of a type that is stable and that meets all of the following criteria:

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

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

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

32.1 **806.1.3 Dryness.** The tree shall be removed from the building whenever the needles
32.2 or leaves fall off readily when a tree branch is shaken or if the needles are brittle and
32.3 break when bent between the thumb and index finger. The tree shall be checked daily
32.4 for dryness.

32.5 **806.1.4 Decorative natural vegetation.** The use, display, or storage of wreaths, hay
32.6 bales, corn stalks, and other cut natural decorative vegetation shall be in accordance
32.7 with Sections 806.1.4.1 through 806.1.4.4.

32.8 **806.1.4.1 Occupancies.** Limited quantities of cut natural decorative vegetation
32.9 shall be permitted where the fire code official determines that adequate safeguards
32.10 are provided based on the quantity and nature of the combustible vegetation.

32.11 **806.1.4.2 Group I occupancies.** Cut, natural, decorative vegetation is not permitted
32.12 in Group I occupancies.

32.13 **806.1.4.3 Group M occupancies.** The use and display of decorative natural
32.14 vegetation for resale in Group M occupancies is permitted.

32.15 **806.1.4.4 Location.** The use and display of cut natural decorative vegetation shall
32.16 not obstruct aisles, egress, or exit paths, block access to fire protection systems or
32.17 equipment, and shall not accumulate inside a building.

32.18 **7511.0807 SECTION 807, DECORATIVE MATERIALS AND ARTIFICIAL**
32.19 **DECORATIVE VEGETATION IN NEW AND EXISTING BUILDINGS.**

32.20 Subpart 1. **IFC section 807.2.** IFC section 807.2 is amended and a subsection is added
32.21 to read as follows:

32.22 **807.2 Combustible decorative materials.** In dormitories in Group R-2 and in Groups A,
32.23 B, E, I, M, and R-1, curtains, draperies, fabric hangings and similar combustible decorative
32.24 materials suspended from walls or ceilings shall comply with Section 807.3 and shall not
32.25 exceed 20 percent of the specific wall or ceiling area to which such materials are attached.

33.1 **Exceptions:**

33.2 1. In auditoriums in Group A, the permissible amount of curtains, draperies, fabric
33.3 hangings, and similar combustible decorative materials suspended from walls or ceilings
33.4 shall not exceed 75 percent of the aggregate wall area where the building is equipped
33.5 throughout with an approved automatic sprinkler system in accordance with Section
33.6 903.3.1.1 and where the material is installed in accordance with IBC Section 803.15.

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

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

33.15 4. In Group A, B, E, and M occupancies, the amount of combustible fabric partitions
33.16 suspended from the ceiling and not supported by the floor shall comply with Section
33.17 807.3 and shall not be limited.

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

33.20 **807.2.1 Fixed or movable walls and partitions, paneling, and wall pads and crash**
33.21 **pads.** Fixed or movable walls and partitions, paneling, wall pads and crash pads applied
33.22 structurally or for decoration, acoustical correction, surface insulation or other purposes
33.23 covering more than 10 percent of the wall or ceiling area shall be considered interior
33.24 finish, shall comply with Section 803, and shall not be considered to be decorative
33.25 materials or furnishings.

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

34.7 Subp. 2. [See repealer.]

34.8 Subp. 3. **IFC section 807.5.2.1.** IFC section 807.5.2.1 is amended by modifying
34.9 exceptions 1 and 2 to read as follows:

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

34.13 2. Buildings provided with an approved fire alarm system and equipped with
34.14 corridor smoke detection, provided the minimum required egress width is
34.15 maintained.

34.16 (Exception 3 still applies)

34.17 Subp. 3a. **IFC section 807.5.2.2.** IFC section 807.5.2.2 is amended by adding an
34.18 exception to read:

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

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

35.1 **807.5.2.3 Artwork in classrooms.** Artwork and teaching materials shall be limited
35.2 on walls of classrooms to not more than 50 percent of the total aggregate wall area
35.3 of the room.

35.4 Subp. 3c. **IFC section 807.5.3.4.** IFC section 807.5.3.4 is amended to read as follows:

35.5 **807.5.3.4 Other areas in Groups I-1 and I-2.** In Groups I-1 and I-2 occupancies,
35.6 in areas not equipped throughout with an approved automatic sprinkler system,
35.7 combustible decorations shall be prohibited unless one or more of the following
35.8 criteria are met:

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

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

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

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

35.19 Subp. 4. **IFC Section 807.5.5.1.** IFC Section 807.5.5.1 is amended by modifying
35.20 exceptions 1 and 2 to read as follows:

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

36.1 2. Buildings provided with an approved fire alarm system and equipped with
36.2 corridor smoke detection, provided the minimum required egress width is
36.3 maintained.

36.4 (Exception 3 still applies)

36.5 Subp. 5. **IFC section 807.5.5.2.** IFC section 807.5.5.2 is amended by adding an
36.6 exception to read as follows:

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

36.10 Subp. 6. [Renumbered subp 3c]

36.11 **7511.0901 SECTION 901, GENERAL.**

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

36.14 **Exception:** Fire alarm and water-based automatic fire-extinguishing systems shall
36.15 be inspected and tested annually. Inspections and testing shall be conducted in
36.16 accordance with the procedures specified in the referenced standards listed in Table
36.17 901.6.1. As part of the annual inspections covered under this exception, all weekly,
36.18 monthly, quarterly, semiannual, and annual inspections, tests, and maintenance
36.19 requirements in the listed standards shall be conducted and any problems observed
36.20 shall be noted.

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

36.22 **7511.0903 SECTION 903, AUTOMATIC SPRINKLER SYSTEMS.**

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

37.1 **903.2.3 Group E.** An automatic sprinkler system shall be provided for Group E
37.2 occupancies as follows:

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

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

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

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

37.11 Subp. 1a. **IFC section 903.2.8.** IFC section 903.2.8 and its subsections are amended
37.12 to read as follows:

37.13 **903.2.8 Group R.** An automatic sprinkler system shall be installed throughout all
37.14 buildings with a Group R fire area in accordance with Section 903.3.

37.15 **Exceptions:**

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

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

37.23 3. An automatic fire sprinkler system shall not be required if additions or alterations
37.24 are made to existing Group R-3 or R-4 buildings or a portion thereof that do not

38.1 have an automatic sprinkler system installed, unless required by a Minnesota
38.2 license.

38.3 4. Group R-1 multiunit resort buildings, as defined in Minnesota Statutes, section
38.4 157.15, and licensed by the Department of Health, with less than 9,250 square feet
38.5 of building area.

38.6 **903.2.8.1 Group R-3.** Where required by Section 903.2.8, Group R-3 occupancies
38.7 shall be provided with an automatic sprinkler system that complies with Section
38.8 903.3.1.1, 903.3.1.2, or 903.3.1.3.

38.9 **903.2.8.2 Group R-4.** Where required by Section 903.2.8, Group R-4 occupancies
38.10 shall be provided with an automatic sprinkler system that complies with Section
38.11 903.3.1.1 or 903.3.1.2.

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

38.14 **903.2.8.3 State licensed facilities.** Group R-3 or R-4 occupancies containing
38.15 facilities licensed by Minnesota shall be provided with an automatic sprinkler
38.16 system as required by the applicable licensing provisions or this section, whichever
38.17 is more restrictive.

38.18 **903.2.8.4 Residential hospice facilities.** An automatic sprinkler system installed
38.19 in accordance with NFPA 13 shall be provided throughout all buildings with a
38.20 Group R-3 or R-4 fire area containing a residential hospice facility.

38.21 **Exception:** An automatic sprinkler system installed in accordance with Section
38.22 903.3.1.2 or 903.3.1.3 is permitted if all habitable spaces and closets are
38.23 protected by an automatic sprinkler system.

38.24 Subp. 1b. **IFC section 903.2.9.** IFC section 903.2.9 is amended and a subsection
38.25 added to read as follows:

39.1 **903.2.9 Group S-1.** An automatic sprinkler system shall be provided throughout all
39.2 buildings containing a Group S-1 occupancy where one of the following conditions
39.3 exists:

- 39.4 1. A Group S-1 fire area exceeds 12,000 square feet (1,115 m²).
- 39.5 2. A Group S-1 fire area is located more than three stories above grade plane.
- 39.6 3. The combined area of all Group S-1 fire areas on all floors, including any
39.7 mezzanines, exceeds 24,000 square feet (2,230 m²).
- 39.8 4. Group S-1 fire area is used for the storage of commercial motor vehicles where
39.9 the fire area exceeds 5,000 square feet (464 m²).

39.10 (Subsections 903.2.9.1 and 903.2.9.2 remain unchanged.)

39.11 **903.2.9.3 Group S-1 upholstered furniture and mattresses.** An automatic
39.12 sprinkler system shall be provided throughout a Group S-1 fire area used for the
39.13 storage of upholstered furniture or mattresses that exceeds 2,500 square feet (232
39.14 m²).

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

39.18 Subp. 2. **IFC section 903.2.11.4.** IFC section 903.2.11.4 is amended by deleting the
39.19 section in its entirety and replacing it with the following:

39.20 **903.2.11.4 Fire protection for exhaust systems.** Where required by the Minnesota
39.21 Mechanical Code, automatic sprinklers shall be provided in ducts having a
39.22 cross-sectional area of 75 square inches (480 cm²) or more and that: (1) convey
39.23 flammable or combustible components; or (2) have the potential for combustible
39.24 residue buildup on the inside. When sprinkler protection is installed, means shall

40.1 be provided to prevent water accumulation in the duct and the flow of water back
40.2 to a process where the application of water constitutes a serious life or fire hazard.

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

40.4 **903.3.1 Standards.** Sprinkler systems shall be designed and installed in accordance
40.5 with Section 903.3.1.1, unless otherwise permitted by Sections 903.3.1.2 and 903.3.1.3
40.6 and other chapters of this code, as applicable. Automatic sprinkler systems installed in
40.7 state-licensed or state-registered facilities shall be installed in accordance with this
40.8 code and the applicable licensing or registration provisions of other Minnesota state
40.9 agencies.

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

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

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

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

40.19 **903.3.1.2.1 Protection of decks and balconies.** Decks and balconies greater than
40.20 6 feet (1.8 m) above grade, greater than 4 feet (1.2 m) deep, with an area greater
40.21 than 40 square feet (3.72 m²), and attached to new Group R-1 or R-2 occupancy
40.22 buildings protected in accordance with Section 903.3.1.2 that are three or more
40.23 stories in height and with 30 or more units, shall be protected with sprinklers under
40.24 the balcony or deck framing and under attic eaves when both of the following two
40.25 conditions exist:

41.1 1. the building has an unsprinklered attic; and

41.2 2. the building has combustible siding.

41.3 Subp. 4. **IFC section 903.3.1.** IFC section 903.3.1 is amended by adding sections to
41.4 read:

41.5 **903.3.1.4 Buildings of undetermined use.** When fire sprinkler systems are required
41.6 in buildings of undetermined use, they shall be designed and installed to have a
41.7 sprinkler density of not less than that required for an Ordinary Hazard Group 2
41.8 use with a minimum design area of 3,000 square feet (279 m²). Use is considered
41.9 undetermined if not specified at the time a permit is issued. Where a subsequent
41.10 occupancy requires a system with greater capability, it shall be the responsibility
41.11 of the owner to upgrade the system to the required density for the new hazard, use
41.12 or occupancy.

41.13 **903.3.1.5 Special sprinkler design criteria.** When fire sprinkler systems are
41.14 required in areas containing the following uses, they shall be designed and installed
41.15 to have a sprinkler density of not less than that required for an Ordinary Hazard
41.16 Group 2 use:

41.17 1. chemistry labs; or

41.18 2. wrestling rooms or gymnastic rooms.

41.19 **903.3.1.6 Modifications to sprinkler standards.** The sprinkler installation
41.20 standards as referenced in Sections 903.3.1.1, 903.3.1.2, and 903.3.1.3 are modified
41.21 as follows:

41.22 **903.3.1.6.1 Hose stream requirements.** When, in the opinion of the fire
41.23 chief, an adequate alternate water supply for hose stream requirements is
41.24 provided or available, the water supply requirements for the sprinkler system
41.25 hose stream demands may be modified.

42.1 **903.3.1.6.2 Elevator shafts and equipment.** Sprinkler protection shall not
42.2 be installed in elevator shafts, elevator pits, or elevator machine rooms.

42.3 **Exception:** Health care occupancies that: (1) are required to have NFPA
42.4 13 systems; (2) are licensed by the Minnesota Department of Health; and
42.5 (3) participate in Title XVIII (Medicare) or Title XIX (Medicaid) of the
42.6 Social Security Act..

42.7 **903.3.1.6.3 Swimming pools.** Sprinkler protection need not be provided on
42.8 the ceiling of rooms containing swimming pools when the pool area is used
42.9 exclusively for swimming purposes and when sprinklers are provided around
42.10 the perimeter of the pool area.

42.11 **903.3.1.6.4 NFPA 13 modifications.** Sections 8.15.8.2, 8.17.2.5, and 23.2.1.1
42.12 of NFPA 13 are amended to read:

42.13 **8.15.8.2 Linen closets and pantries.** Sprinklers are not required in linen
42.14 closets and pantries within dwelling units that meet the following conditions:

- 42.15 1. the area of the space does not exceed 12 square feet (1.1 m²);
- 42.16 2. the least dimension does not exceed 3 feet (0.9 m);
- 42.17 3. the walls and materials are surfaced with noncombustible or limited
42.18 combustible materials; and
- 42.19 4. the closet or pantry contains no mechanical equipment, electrical equipment,
42.20 or electrical appliances.

42.21 **8.17.2.5 Valves.**

42.22 **8.17.2.5.1 Fire department connection.** A listed check valve shall be installed
42.23 in each fire department connection.

43.1 **8.17.2.5.1.1 Maximum pipe length.** There shall be a maximum of 25
43.2 feet (7.6 m) of pipe between the check valve and the fire department
43.3 connection inlet.

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

43.6 **8.17.2.5.1.2 Check valve location.** The check valve shall be located to
43.7 minimize freezing potential.

43.8 **23.2.1.1 Water supply capacity information.** Where a waterflow test is used for
43.9 the purposes of system design, the test shall be conducted no more than 36 months
43.10 prior to the working plan submittal.

43.11 **903.3.1.6.5 Vestibules.** Sprinkler protection is not required in vestibules that
43.12 meet all of the following conditions:

- 43.13 1. the vestibule is 225 square feet or less in floor area;
- 43.14 2. the vestibule is of noncombustible or limited combustible construction;
- 43.15 3. the vestibule has glazing allowing vision into vestibule;
- 43.16 4. the vestibule's only purpose is ingress and egress; and
- 43.17 5. the vestibule contains no fueled equipment, flammable or combustible
43.18 liquids, or furniture. Incidental combustible storage in the vestibule is
43.19 limited to five cubic feet of material.

43.20 **903.3.1.6.6 NFPA 13D sprinkler systems.** Automatic sprinkler systems
43.21 installed in townhouses and Groups R-3 and R-4, Condition 1 occupancies
43.22 shall be permitted to be installed throughout in accordance with NFPA 13D.
43.23 Attached garages in townhouse buildings are required to have one dry head

44.1 sprinkler located within 5 linear feet of each door installed in the common
44.2 wall separating the dwelling unit and the attached garage.

44.3 Subp. 4a. **IFC section 903.3.9.** IFC section 903.3 is amended by adding a section to
44.4 read:

44.5 **903.3.9 Sprinkler system design pressure safety margin.** For new sprinkler systems
44.6 or additions to existing sprinkler systems, the available water supply shall exceed the
44.7 sprinkler system demand, including the hose stream requirements, by 5 psi (0.34 bars)
44.8 or more.

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

44.10 Subp. 5. [See repealer.]

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

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

44.13 **903.4.2 Alarms.** An approved audible alarm and an approved visible alarm are required
44.14 on the exterior of the building in an approved location. These alarms can be part of the
44.15 same device or separate devices. The alarms shall be connected to each automatic
44.16 sprinkler system. The alarms shall be located above the fire department connection and
44.17 visible from the street or nearest point of fire department vehicle access, or as otherwise
44.18 approved by the fire code official. Such sprinkler water-flow alarms shall be activated
44.19 by water flow equivalent to the flow of a single sprinkler of the smallest orifice size
44.20 installed in the system. Where a fire alarm system is installed, actuation of the automatic
44.21 sprinkler system shall actuate the building fire alarm system.

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

45.1 **7511.0904 SECTION 904, ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING**
45.2 **SYSTEMS.**

45.3 Subpart 1. **IFC section 904.1.1.** IFC section 904.1.1 is amended to read:

45.4 **904.1.1 Certification of service personnel for fire-extinguishing equipment.** Service
45.5 personnel installing, providing, or conducting maintenance on automatic
45.6 fire-extinguishing systems, other than automatic sprinkler systems, shall possess a valid
45.7 certificate issued by an approved organization for the type of system and work
45.8 performed.

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

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

45.12 **7511.0905 SECTION 905, STANDPIPE SYSTEMS.**

45.13 Subpart 1. **IFC section 905.2.** IFC section 905.2 is amended by adding subsections
45.14 to read:

45.15 **905.2.1 Modification to standards.** In buildings other than high rise that are equipped
45.16 throughout with an automatic sprinkler system installed in accordance with Section
45.17 903.3.1.1 or 903.3.1.2, and a Class I standpipe system, the pipe shall be sized to meet
45.18 the pressure and flow requirements for the sprinkler system. Such systems shall comply
45.19 with Sections 905.2.1.1 through 905.2.1.4.

45.20 **905.2.1.1 System pipe size.** Pipe sizes for combined portions of the sprinkler and
45.21 standpipe systems shall not be less than 4 inches (101.6 mm).

45.22 **905.2.1.2 System design flow and pressure.** The standpipe shall provide a
45.23 minimum pressure of 100 psi (6.9 bar) at the uppermost outlet and a minimum
45.24 flow rate of 250 gpm (946 L/min.) at the two hydraulically most remote hose
45.25 connections on the standpipe when the standpipe system is supported through the

46.1 fire department connection. The hydraulic calculations shall be performed between
46.2 the hydraulically most demanding standpipe hose connection and the fire
46.3 department connection.

46.4 **905.2.1.3 Design pressure.** A maximum design pressure of 150 psi (10.3 bars) is
46.5 permitted at the fire department connection when the standpipe is supported by
46.6 local fire department apparatus.

46.7 **905.2.1.4 Automatic sprinkler system demand.** The automatic sprinkler system
46.8 demand, including the inside and outside hose stream demands from NFPA 13, is
46.9 to be provided by the municipal water supply system without requiring fire
46.10 department pumping into the system.

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

46.12 **905.3 Required installations.** Standpipe systems shall be installed where required by
46.13 Sections 905.3.1 through 905.3.10. Standpipe systems are allowed to be combined with
46.14 automatic sprinkler systems.

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

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

46.17 **905.3.1 Height.** Class I wet standpipe systems shall be installed throughout buildings
46.18 where any of the following conditions exist:

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

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

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

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

47.5 **905.3.1.1 Lowest level.** In determining the lowest level of fire department vehicle
47.6 access, the following areas should not be considered:

- 47.7 1. recessed loading docks for four vehicles or less; and
- 47.8 2. areas where topography makes access from the fire department vehicle to
47.9 the building impractical or impossible.

47.10 Subp. 2. **IFC section 905.3.2.1.** IFC section 905.3.2 is amended by adding a subsection
47.11 to read:

47.12 **905.3.2.1 Group A exhibition.** Class I automatic standpipes shall be provided in
47.13 Group A-3 occupancies where the floor area used for exhibition exceeds 12,000
47.14 square feet (1,115 m²).

47.15 Subp. 3. **IFC sections 905.3.4, 905.3.4.1.** IFC sections 905.3.4 and 905.3.4.1 are
47.16 deleted and replaced with the following:

47.17 **905.3.4 Stages.** Stages are not required to be equipped with standpipe systems.

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

47.19 **905.3.6 Helistops and heliports.** Each building with a rooftop helistop or heliport shall
47.20 be equipped with a Class I standpipe system extended to the roof level on which the
47.21 helistop or heliport is located in accordance with Section 2007.5.

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

47.23 **905.3.9 Detention and correctional facilities.** Regardless of the height of the building
47.24 or number of stories, every building in a Group I-3 detention and correctional facility,

48.1 where 50 or more persons are under restraint or security under Occupancy Condition
48.2 3, 4, or 5, shall be provided with a Class I automatic wet or semiautomatic dry standpipe
48.3 system.

48.4 **Exception:** Combined systems meeting the provisions of Section 905.2 may be
48.5 used.

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

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

48.12 **905.3.10 Group R-2 occupancies; small hose connections.** Small hose connections
48.13 shall be installed in Group R-2 occupancies three or more stories in height where any
48.14 portion of the building's interior area is more than 200 feet (60,960 mm) of travel,
48.15 vertically or horizontally, from the nearest point of fire department vehicle access.
48.16 Small hose connections required by this section shall comply with the following:

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

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

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

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

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

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

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

49.6 Subp. 6. **IFC section 905.6.** IFC section 905.6 and all subsections are deleted in their
49.7 entirety.

49.8 **7511.0906 SECTION 906, PORTABLE FIRE EXTINGUISHERS.**

49.9 Subpart 1. **IFC section 906.1.** IFC section 906.1 is amended to read:

49.10 **906.1 Where required.** Portable fire extinguishers shall be installed in the following
49.11 locations:

49.12 1. In all Group A, B, E, F, H, I, M, R-1, R-2, R-4, and S occupancies.

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

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

49.22 3. In areas where flammable or combustible liquids are stored, used, or dispensed.

49.23 4. On each floor of structures under construction, except Group R-3 occupancies, in
49.24 accordance with Section 3315.1.

- 50.1 5. Where required by the sections indicated in Table 906.1.
- 50.2 6. Special-hazard areas, including but not limited to laboratories, computer rooms and
- 50.3 generator rooms, where required by the fire code official.
- 50.4 7. R-3 occupancies used as family day care, group family day care, foster care, adult
- 50.5 family day services, and residential hospices.

50.6 *[For text of subparts 2 and 3, see Minnesota Rules]*

50.7 **7511.0907 SECTION 907, FIRE ALARM AND DETECTION SYSTEMS.**

50.8 Subpart 1. [Repealed, 40 SR 1437]

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

50.10 **907.1.2 Fire alarm shop drawings.** Shop drawings for fire alarm systems shall be

50.11 submitted for review and approval before system installation, and shall include all of

50.12 the following where applicable to the system being installed:

- 50.13 1. A floor plan that indicates the use of all rooms.
- 50.14 2. Locations of alarm-initiating devices.
- 50.15 3. Locations of alarm notification appliances, including candela ratings for visible
- 50.16 alarm notification appliances.
- 50.17 4. Design minimum audibility level for occupant notification.
- 50.18 5. Maximum sound pressure.
- 50.19 6. Location of fire alarm control unit, transponders, and notification power supplies.
- 50.20 7. Annunciators.
- 50.21 8. Power connections.
- 50.22 9. Battery calculations.

- 51.1 10. Conductor type and size.
- 51.2 11. Voltage drop calculations.
- 51.3 12. Manufacturers' data sheets indicating model numbers and listing information
- 51.4 for equipment, devices, and materials.
- 51.5 13. Details of ceiling height and construction.
- 51.6 14. The interface of fire safety control functions.
- 51.7 15. Classification of the supervising station.
- 51.8 Subp. 2. **IFC section 907.2.** IFC section 907.2 is amended to read:
- 51.9 **907.2 Where required in new buildings and occupancies.** An approved manual, automatic,
- 51.10 or manual and automatic fire alarm system shall be provided in new buildings and
- 51.11 occupancies in accordance with Sections 907.2.1 through 907.2.24.2 and NFPA 72. For the
- 51.12 purposes of Sections 907.2.1 through 907.2.24.2, fire barrier walls or fire walls shall not
- 51.13 define separate buildings. In buildings containing mixed occupancies that are designed as
- 51.14 separated uses (see Section 102.14), fire alarm and detection systems need only be installed
- 51.15 in those occupancies where required by this section.
- 51.16 **Exception:** In areas protected by an approved, supervised automatic sprinkler system
- 51.17 installed in accordance with Section 903.3.1.1 or 903.3.1.2, automatic fire detectors
- 51.18 required by Section 907.2 need not be provided. Where Section 907.2 requires smoke
- 51.19 detectors, such protection shall be installed.
- 51.20 Subp. 3. **IFC section 907.2.1.** IFC section 907.2.1 is amended, and sections added,
- 51.21 to read:
- 51.22 **907.2.1 Group A, general.** A fire alarm system shall be installed in accordance with
- 51.23 Sections 907.2.1 through 907.2.1.3 in Group A occupancies having an occupant load
- 51.24 of 300 or more.

52.1 **Exceptions:**

- 52.2 1. Assembly areas used solely for worship purposes.
- 52.3 2. A fire alarm system is not required in buildings with an occupant load less than
- 52.4 1,000 when an approved automatic fire sprinkler system is installed throughout
- 52.5 the building.
- 52.6 3. Assembly uses located inside Group E occupancies shall have alarms as required
- 52.7 for the Group E occupancy.
- 52.8 4. Group A-5 occupancies.

52.9 **907.2.1.1 Initiation.** Initiation of the fire alarm system shall be by automatic

52.10 means. Approved automatic fire detectors shall be installed in laundry rooms,

52.11 boiler and furnace rooms, mechanical and electrical rooms, shops, kitchens,

52.12 trash-collection rooms, storage rooms, and similar areas.

52.13 **907.2.1.2 Notification.** The required fire alarm system shall activate an audible

52.14 and visible notification appliance at a constantly attended location within the

52.15 building for the purposes of initiating emergency action. A presignal feature and

52.16 positive alarm sequencing in accordance with NFPA 72 are permitted.

52.17 Occupant notification shall be by means of voice announcements, either live or

52.18 prerecorded, initiated by the person in the constantly attended location.

52.19 **Exception:** Where no constantly attended location exists, an automatic fire

52.20 alarm system providing a general evacuation signal or an approved emergency

52.21 voice/alarm communications system is permitted.

52.22 **907.2.1.3 System initiation in Group A occupancies with occupant load of**

52.23 **1,000 or more.** Activation of the fire alarm system in Group A occupancies with

52.24 an occupant load of 1,000 or more shall immediately initiate an approved

53.1 prerecorded message announcement using an approved emergency voice/alarm
53.2 communications system in accordance with NFPA 72.

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

53.7 *[For text of subpart 4, see Minnesota Rules]*

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

53.10 **907.2.3 Group E, general.** A fire alarm system shall be installed in accordance with
53.11 Sections 907.2.3 through 907.2.3.3 in Group E occupancies having an occupant load
53.12 of 50 or more.

53.13 **907.2.3.1 Initiation.** Initiation of the fire alarm system shall be by manual and
53.14 automatic means. Approved automatic fire detectors shall be provided in laundry
53.15 rooms, boiler and furnace rooms, mechanical and electrical rooms, shops,
53.16 laboratories, kitchens, locker rooms, custodial closets, trash-collection rooms,
53.17 storage rooms, lounges, and similar areas.

53.18 **Exception:** In buildings protected throughout by an approved automatic
53.19 sprinkler system or having an approved fire alarm system equipped with
53.20 corridor smoke detection, manual fire alarm boxes are only required in any
53.21 main office and in any custodial area.

53.22 **907.2.3.2 Travel through adjoining rooms.** Where the only means of egress
53.23 travel from an interior room or rooms having an aggregate occupant load of more
53.24 than 10 occupants is through an adjoining or intervening room, automatic smoke

54.1 detectors shall be installed throughout the common atmosphere through which the
54.2 path of egress travel passes.

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

54.6 **907.2.3.3 Notification.** Activation of the fire alarm system or automatic sprinkler
54.7 system shall initiate an emergency voice/alarm communication system meeting
54.8 the requirements of Section 907.5.2.2 and installed in accordance with Section
54.9 907.6.

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

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

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

54.17 **907.2.5 Group H, general.** A fire alarm system shall be installed in accordance with
54.18 Sections 907.2.5 through 907.2.5.2 in Group H-5 occupancies, occupancies used for
54.19 the manufacture of organic coatings and, when required by Chapters 60, 62, and 63,
54.20 at the following locations:

- 54.21 1. rooms or areas where highly toxic compressed gases are stored or used;
- 54.22 2. rooms or areas where Class I, II, or III organic peroxides are stored; and
- 54.23 3. liquid and solid oxidizer storage areas.

55.1 **907.2.5.1 Initiation.** Initiation of the fire alarm system in Group H-5 occupancies
55.2 and in occupancies used for the manufacture of organic coatings shall be by manual
55.3 means. Initiation of fire alarm systems installed for highly toxic gases, organic
55.4 peroxides, and oxidizers shall be by automatic means, as specified in Chapters 60,
55.5 62, and 63.

55.6 **907.2.5.2 Notification.** Activation of the fire alarm system in Group H-5
55.7 occupancies and in occupancies used for the manufacture of organic coatings shall
55.8 initiate a general evacuation signal. Activation of the automatic detection systems
55.9 installed for highly toxic gases, organic peroxides, and oxidizers shall sound a
55.10 local alarm.

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

55.13 **907.2.6 Group I, general.** A fire alarm system shall be installed in accordance with
55.14 Sections 907.2.6.1 through 907.2.6.4.2 in Group I occupancies.

55.15 **907.2.6.1 Group I-1 occupancies, general.** A manual and automatic fire alarm
55.16 system shall be installed in Group I-1 occupancies in accordance with Sections
55.17 907.2.6.1.1 through 907.2.6.1.3.

55.18 **907.2.6.1.1 Initiation.** Initiation of the fire alarm system shall be by manual
55.19 and automatic means. Approved automatic fire detectors shall be installed in
55.20 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
55.21 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
55.22 trash-collection rooms, storage rooms, lounges, gift shops, and similar areas.
55.23 Automatic smoke detectors shall be provided in corridors and areas that are
55.24 open to corridors.

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

56.6 **907.2.6.1.2 Notification.** Activation of the fire alarm system or automatic
56.7 sprinkler system shall initiate a general evacuation signal. In addition,
56.8 activation of the fire alarm system shall immediately transmit an alarm to an
56.9 approved central station or remote station service.

56.10 **Exceptions:**

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

56.13 2. Where occupants are incapable of evacuating themselves because of
56.14 age, physical/mental disabilities or physical restraint, only the attendants
56.15 or other personnel required to evacuate occupants from a zone, area,
56.16 floor, or building shall be required to be notified. This notification shall
56.17 include means to readily identify the zone, area, floor, or building in need
56.18 of evacuation.

56.19 **907.2.6.1.3 Sleeping room smoke alarms.** Smoke alarms shall be installed
56.20 in resident sleeping rooms in accordance with Section 907.2.10.2.

56.21 **907.2.6.2 Group I-2 occupancies, general.** A manual and automatic fire alarm
56.22 system shall be installed in Group I-2 occupancies in accordance with Sections
56.23 907.2.6.2.1 through 907.2.6.2.4.

56.24 **907.2.6.2.1 Initiation.** Initiation of the fire alarm system shall be by manual
56.25 and automatic means. Approved automatic fire detectors shall be installed in

57.1 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
57.2 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
57.3 trash-collection rooms, storage rooms, lounges, gift shops, and similar areas.
57.4 Hospitals, nursing homes (both intermediate care and skilled nursing facilities),
57.5 board and care homes, and detoxification facilities shall be provided with
57.6 smoke detection throughout the corridor and areas open to the corridors, other
57.7 than nurse's stations.

57.8 **Exceptions:**

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

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

57.17 **907.2.6.2.2 Notification.** Activation of the fire alarm system or automatic
57.18 sprinkler system shall initiate a signal that is distinctive from audible signals
57.19 used for other purposes in the same building. Such signal is intended to notify
57.20 staff and need not meet the minimum sound pressure levels required for general
57.21 evacuation fire alarm notification. In addition, activation of the fire alarm
57.22 system shall immediately transmit an alarm to an approved central station or
57.23 remote station service.

57.24 **Exceptions:**

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

58.3 2. Where occupants are incapable of evacuating themselves because of
58.4 age, physical/mental disabilities, or physical restraint, only the attendants
58.5 or other personnel required to evacuate occupants from a zone, area,
58.6 floor, or building shall be required to be notified. This notification shall
58.7 include means to readily identify the zone, area, floor, or building in need
58.8 of evacuation.

58.9 3. Where total evacuation of occupants is impractical due to building
58.10 configuration, only the occupants in the affected zones shall be initially
58.11 notified. Provisions shall be made to selectively notify occupants in other
58.12 zones to afford orderly evacuation of the entire building.

58.13 **907.2.6.2.3 Patient room smoke detectors.** Smoke detectors shall be installed
58.14 in patient sleeping rooms of hospitals and nursing homes. Such detector's
58.15 primary power shall be other than battery power. Actuation of such detectors
58.16 shall cause a visual display on the corridor side of the room where the detector
58.17 is located and shall cause a distinct audible and visual alarm at the nurse's
58.18 station attending the room. Such detectors may be part of the facility's fire
58.19 alarm system, nurse's call system, or a standalone system.

58.20 **907.2.6.2.3.1 Integral smoke detectors for automatic door-closing**
58.21 **devices.** Integral smoke detectors for automatic door-closing devices on
58.22 sleeping room doors can be installed only if they also meet all of the
58.23 requirements in Section 907.2.6.2.3.

58.24 **907.2.6.2.4 Sleeping room smoke alarms.** For Group I-2 facilities, other
58.25 than hospitals and nursing homes, single station smoke alarms shall be installed
58.26 in resident sleeping rooms.

59.1 **907.2.6.3 Group I-3 occupancies, general.** A manual and automatic fire alarm
59.2 system shall be installed in Group I-3 occupancies in accordance with Sections
59.3 907.2.6.3.1 through 907.2.6.3.4.

59.4 **907.2.6.3.1 Initiation.** Initiation of the fire alarm system shall be by manual
59.5 and automatic means. Approved automatic fire detectors shall be installed in
59.6 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
59.7 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
59.8 trash-collection rooms, storage rooms, lounges, gift shops, commissaries, and
59.9 similar areas. Actuation of an automatic fire-extinguishing system, a manual
59.10 fire alarm box or a fire detector shall initiate an approved fire alarm signal,
59.11 which automatically notifies staff. Presignal systems shall not be used.

59.12 **907.2.6.3.2 Manual fire alarm boxes.** Manual fire alarm boxes are not
59.13 required to be located in accordance with Section 907.4 where the fire alarm
59.14 boxes are provided at staff-attended locations having direct supervision over
59.15 areas where manual fire alarm boxes have been omitted.

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

59.19 **907.2.6.3.3 Smoke detectors.** An approved automatic smoke-detection system
59.20 shall be installed throughout resident housing areas, including sleeping areas
59.21 and contiguous day rooms, group activity spaces, and other common spaces
59.22 normally accessible to residents.

59.23 **Exceptions:**

59.24 1. Other approved smoke-detection arrangements providing equivalent
59.25 protection, such as placing detectors in exhaust ducts from cells or behind

60.1 protective grills, are allowed when necessary to prevent damage or
60.2 tampering.

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

60.6 **907.2.6.3.4 Notification.** Activation of the fire alarm system or automatic
60.7 sprinkler system shall initiate a signal that is distinctive from audible signals
60.8 used for other purposes in the same building. Such signal is intended to notify
60.9 staff and need not meet the minimum sound pressure levels required for general
60.10 evacuation fire alarm notification. In addition, activation of the fire alarm
60.11 system shall immediately transmit an alarm to an approved central station or
60.12 remote station service.

60.13 **907.2.6.4 Group I-4 occupancies, general.** A manual and automatic fire alarm
60.14 system shall be installed in Group I-4 occupancies in accordance with Sections
60.15 907.2.6.4.1 through 907.2.6.4.2.

60.16 **907.2.6.4.1 Initiation.** Initiation of the fire alarm system shall be by manual
60.17 and automatic means. Approved automatic fire detectors shall be installed in
60.18 laundry and soiled linen rooms, boiler and furnace rooms, mechanical and
60.19 electrical rooms, shops, laboratories, kitchens, locker rooms, custodial closets,
60.20 trash-collection rooms, storage rooms, lounges, gift shops, and similar areas.
60.21 Automatic smoke detectors shall be provided in corridors and areas that are
60.22 open to corridors.

60.23 **907.2.6.4.2 Notification.** Activation of the fire alarm system or automatic
60.24 sprinkler system shall initiate a general evacuation signal. In addition,
60.25 activation of the fire alarm system shall immediately transmit an alarm signal
60.26 to an approved central station or remote station service.

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

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

61.4 **907.2.8 Group R-1, general.** A fire alarm system shall be installed in accordance with
61.5 Sections 907.2.8.1 through 907.2.8.3 in Group R-1 occupancies.

61.6 **Exceptions:**

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

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

61.15 **907.2.8.1 Initiation.** Initiation of the fire alarm system shall be by automatic
61.16 means. Approved automatic fire detectors shall be provided in boiler and furnace
61.17 rooms, shops, laundry and soiled linen rooms, mechanical and electrical rooms,
61.18 trash-collection rooms, storage rooms, gift shops, kitchens, locker rooms, custodial
61.19 closets, lounges, and similar areas. Automatic smoke detectors shall be provided
61.20 in all common areas and interior corridors serving as required means of egress.

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

62.1 **907.2.8.2 Notification.** Activation of the fire alarm system or automatic sprinkler
62.2 system shall initiate a general evacuation signal.

62.3 **907.2.8.3 Sleeping unit smoke alarms.** Sleeping unit smoke alarms required by
62.4 Section 907.2.10 shall not be connected to a fire alarm system.

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

62.6 Subp. 11. **IFC section 907.2.9.** IFC section 907.2.9 and all subsections are deleted
62.7 and replaced with the following:

62.8 **907.2.9 Groups R-2 and R-4, general.** Fire alarm systems and smoke alarms shall be
62.9 installed in Group R-2 and Group R-4 occupancies. Group R-2 occupancies shall
62.10 comply with Sections 907.2.9.1 through 907.2.9.1.3. Group R-4 occupancies shall
62.11 comply with Sections 907.2.9.2 through 907.2.9.2.3.

62.12 **907.2.9.1 Group R-2, general.** A fire alarm system shall be installed in accordance
62.13 with Sections 907.2.9.1 through 907.2.9.1.2 in Group R-2 occupancies where:

- 62.14 1. any sleeping unit or dwelling unit is located two or more stories above the
62.15 story containing the lowest level of exit discharge;
- 62.16 2. any sleeping unit or dwelling unit is located more than one story below the
62.17 highest level of exit discharge of exits serving the dwelling unit;
- 62.18 3. the building contains more than 16 dwelling units or sleeping units; or
- 62.19 4. the building is used as a congregate living facility, dormitory, convent,
62.20 monastery, fraternity, sorority, group home, or shelter and has an occupant
62.21 load of 20 or more.

62.22 **Exception:** A fire alarm system is not required in buildings not over two
62.23 stories in height where all dwelling units and contiguous attic and crawl
62.24 spaces are separated from each other and public or common areas by at

63.1 least one-hour fire partitions and each dwelling unit has an exit directly
63.2 to a public way, exit court, or yard.

63.3 **907.2.9.1.1 Initiation.** Initiation of the fire alarm system shall be by automatic
63.4 means. Automatic fire detectors shall be provided in boiler and furnace rooms,
63.5 trash-collection rooms, shops, laundry rooms, common kitchens, locker rooms,
63.6 lounges, mechanical and electrical rooms, storage rooms, and similar areas.
63.7 Automatic smoke detectors shall be provided in all common areas and interior
63.8 corridors serving as a required means of egress.

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

63.12 **907.2.9.1.2 Notification.** Activation of the fire alarm system or automatic
63.13 sprinkler system shall initiate a general evacuation signal.

63.14 **907.2.9.1.3 Dwelling unit smoke alarms.** Dwelling unit smoke alarms
63.15 required by Section 907.2.10 shall not be connected to the building fire alarm
63.16 system.

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

63.18 **907.2.9.2 Group R-4, general.** A fire alarm system shall be installed in accordance
63.19 with Sections 907.2.9.2.1 through 907.2.9.2.3 in Group R-4 occupancies.

63.20 **Exceptions:**

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

64.1 2. Buildings containing five or fewer sleeping units are permitted to be
64.2 equipped with approved multiple-station smoke alarms installed as required
64.3 for Group R-3 occupancies. Installation shall be in accordance with Section
64.4 907.2.10.

64.5 **907.2.9.2.1 Initiation.** Initiation of the fire alarm system shall be by automatic
64.6 means. Approved automatic fire detectors shall be provided in boiler and
64.7 furnace rooms, shops, laundry and soiled linen rooms, mechanical and
64.8 electrical rooms, common kitchens, lounges, trash-collection rooms, storage
64.9 rooms, gift shops, locker rooms, and similar areas. Automatic smoke detectors
64.10 shall be provided in all common areas and interior corridors serving as required
64.11 means of egress.

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

64.15 **907.2.9.2.2 Notification.** Activation of the fire alarm system or automatic
64.16 sprinkler system shall initiate a general evacuation signal.

64.17 **907.2.9.2.3 Smoke alarms.** Single and multiple-station smoke alarms shall
64.18 be installed in accordance with Section 907.2.10.

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

64.20 Subp. 13. [See repealer.]

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

64.22 Subp. 15. **IFC section 907.2.** IFC section 907.2 is amended by adding sections to
64.23 read:

65.1 **907.2.24 Residential hospices.** A fire alarm system shall be installed in accordance
65.2 with Sections 907.2.24.1 and 907.2.24.2 in residential hospices. When automatic
65.3 sprinkler systems or automatic fire detectors are installed, such systems or detectors
65.4 shall be connected to the building fire alarm system.

65.5 **907.2.24.1 Initiation.** Initiation of the fire alarm system shall be by manual and
65.6 automatic means. Approved automatic fire detectors shall be provided in boiler
65.7 and furnace rooms, kitchens, laboratories, shops, gift shops, commissaries, laundry
65.8 and soiled linen rooms, mechanical and electrical rooms, locker rooms, storage
65.9 rooms, custodial closets, trash-collection rooms, lounges, and similar areas.
65.10 Automatic smoke detectors shall be provided in sleeping rooms, corridors, and
65.11 spaces open to the corridors.

65.12 **Exception:** Manual fire alarm boxes are not required at exits if manual fire
65.13 alarm boxes are located at all nurses' stations or other constantly attended
65.14 staff locations, provided such fire alarm boxes are visible and continuously
65.15 accessible and that travel distances required by Section 907.4.2 are not
65.16 exceeded.

65.17 **907.2.24.2 Notification.** Activation of the fire alarm system or automatic sprinkler
65.18 system shall initiate a general evacuation signal. In addition, the fire alarm system
65.19 shall be monitored by an approved central station service in accordance with
65.20 Section 903.4.1.

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

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

66.1 **907.3 Fire safety functions.** Automatic fire detectors required by Section 907.2 and Chapter
66.2 11 are to activate notification appliances in accordance with those sections. When automatic
66.3 fire detectors are installed for other fire safety functions, they shall perform the intended
66.4 function upon activation. When automatic detectors are installed for fire safety functions
66.5 and the building has a fire alarm system, the detectors shall activate supervisory signals at
66.6 the fire alarm control panel or at a constantly attended location. When the building does not
66.7 have a fire alarm system, the detectors shall activate a visual and audible supervisory signal
66.8 at an approved location, which shall indicate the source of the signal.

66.9 **907.3.1 Air distribution and air-handling systems.** Smoke detectors installed to shut
66.10 down the air distribution or air-handling system shall, upon activation, perform the
66.11 intended function. Air distribution or air-handling equipment that is part of a
66.12 smoke-control system shall switch to smoke-control mode upon activation of a detector.

66.13 **907.3.1.1 Fire alarm system interface.** Smoke detectors that are installed in air
66.14 distribution or air-handling systems for shutdown purposes and that are connected
66.15 to a fire alarm system shall not sound a general evacuation signal.

66.16 **907.3.2 Elevator control functions.** Smoke detectors that are installed to control or
66.17 recall elevators or to control doors for elevators, elevator lobbies, or elevator shafts
66.18 and that are connected to a fire alarm system shall not sound a general evacuation
66.19 signal. Elevator recall and firefighter's emergency operation for elevators shall only be
66.20 controlled by elevator smoke detectors and shall not initiate upon other building fire
66.21 detectors or evacuation signals.

66.22 **907.3.3 Door hold-open functions.** Smoke detectors that are installed to hold open
66.23 fire doors under nonemergency conditions and that are connected to a fire alarm system
66.24 shall sound a general evacuation signal when the doors being held open are part of the
66.25 means of egress corridor or stair system. Door hold-open smoke detectors are not
66.26 required to activate a visual or audible signal.

67.1 (Section 907.3.4 still applies.)

67.2 Subp. 15b. **IFC section 907.5.2.1.2.** IFC section 907.5.2.1.2 is amended to read:

67.3 **907.5.2.1.2 Maximum sound pressure.** Fire alarm system audibility levels
67.4 shall not exceed 35 dB above the average ambient sound level described in
67.5 Section 907.5.2.1.1 or 35 dB above the peak ambient sound level. The
67.6 maximum sound pressure level for audible alarm notification appliances shall
67.7 be 110 dBA at the minimum hearing distance from the audible appliance.
67.8 Where the average ambient noise is greater than 95 dBA, visible alarm
67.9 notification appliances shall be provided in accordance with NFPA 72 and
67.10 audible alarm notification appliances shall not be required.

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

67.12 **907.6.6 Monitoring.** Where provided, monitoring of fire alarm systems shall comply
67.13 with Sections 907.6.6.1 and 907.6.6.2.

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

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

67.16 **7511.0909 SECTION 909, SMOKE CONTROL SYSTEMS.**

67.17 Subpart 1. [Repealed, 40 SR 1437]

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

67.19 **909.1 Scope and purpose.** This section applies to mechanical or passive smoke control
67.20 systems when they are required for new buildings or portions thereof by provisions of this
67.21 code or the Building Code. The purpose of this section is to establish minimum requirements
67.22 for the design, installation, and acceptance testing of smoke control systems that are intended
67.23 to provide a tenable environment for the evacuation or relocation of occupants and for fire

68.1 suppression and overhaul efforts. These provisions are not intended for the preservation of
68.2 contents or the timely restoration of operations.

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

68.4 **909.4.6 Duration of operations.** All portions of the active or passive smoke control
68.5 system shall be capable of continued operation after detection of the fire event for a
68.6 period of not less than 20 minutes. System design shall be for 20 minutes; however
68.7 fans shall continue to operate after 20 minutes and shall continue to operate
68.8 automatically for smoke removal during fire suppression and overhaul efforts for a
68.9 minimum of 5 minutes for every 10 feet vertically of protected space.

68.10 Subp. 1c. **IFC section 909.4.8.** IFC section 909.4 is amended by adding a section to
68.11 read as follows:

68.12 **909.4.8 Door opening force.** With any of the design methods allowed by Section 909,
68.13 the door opening force, latch release, and set-in-motion force shall comply with Section
68.14 1010.1.3 requirements when the system is in smoke control mode.

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

68.17 **909.20 Maintenance.** Smoke control systems and post-fire smoke exhaust systems shall
68.18 be maintained to ensure to a reasonable degree that the system is capable of controlling
68.19 smoke for the duration required. The system shall be maintained in accordance with the
68.20 manufacturer's instructions and Sections 909.20.1 through 909.20.7.

68.21 (Sections 909.20.1 to 909.20.6 remain unchanged.)

68.22 **909.20.7 Qualifications.** Special inspection agencies for smoke control shall have
68.23 expertise in fire protection engineering, mechanical engineering, and certification as
68.24 air balancers.

69.1 Subp. 2. **IFC section 909.22.** IFC section 909 is amended by adding a section to read:

69.2 **909.22 High-rise and covered mall smoke-exhaust systems.** High-rise buildings, not
69.3 provided with a smoke control or a post-fire smoke exhaust system, shall be equipped with
69.4 a smoke removal system installed and maintained in accordance with the Building Code.
69.5 Covered mall buildings exceeding 50,000 square feet (4,645 m²) in floor area, excluding
69.6 anchor stores, and not provided with a smoke control system, shall be equipped with a
69.7 post-fire smoke exhaust system installed and maintained in accordance with the Building
69.8 Code.

69.9 **7511.0910 SECTION 910, SMOKE AND HEAT REMOVAL.**

69.10 Subpart 1. **IFC section 910.1.** IFC section 910.1 is amended by adding sections to
69.11 read:

69.12 **910.1.1 Required venting method.** Required smoke and heat venting shall be
69.13 accomplished with mechanical smoke exhaust according to Section 910.4.

69.14 **Exceptions:**

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

69.17 2. For non-sprinklered buildings, smoke and heat vents as specified in Section
69.18 910.3 shall be permitted.

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

69.21 **910.1.2 Listing.** Smoke and heat vents and mechanical smoke exhaust fans shall be
69.22 listed for the intended purpose.

69.23 **910.1.3 Curtain boards.** When mechanical smoke exhaust is provided in accordance
69.24 with Section 910.4 or 910.5, curtain boards are only required at the separation between

70.1 areas protected with early suppression fast response (ESFR) sprinklers and conventional
70.2 sprinkler systems.

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

70.4 **910.4 Mechanical smoke exhaust.** Mechanical smoke exhaust shall be in accordance with
70.5 Sections 910.4.1 through 910.4.7.

70.6 (Subsections 910.4.1 through 910.4.7 remain unchanged except as amended in subparts
70.7 2a and 3.)

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

70.9 **910.4.3.1 Supply air.** Supply air for exhaust fans shall be sized to provide a
70.10 minimum of 50 percent of the required exhaust. Air velocity at each supply air
70.11 opening shall not exceed an average of 200 feet per minute when measured 4 feet
70.12 (1,219 mm) in front of the opening. Openings for supply air shall be uniformly
70.13 distributed around the periphery of the area served and be located or ducted to a
70.14 position not more than one-half the storage height above the floor. Supply air
70.15 openings shall open automatically upon operation of the smoke exhaust system
70.16 and shall not require a manual action at each supply opening for operation. Supply
70.17 air openings shall be kept clear of storage or obstructions to airflow for at least 4
70.18 feet (1,219 mm) in front of the opening. Supply air openings shall be separated
70.19 from exhaust fans and exterior combustibles to prevent introduction of smoke into
70.20 the building.

70.21 Subp. 3. **IFC section 910.4.4.** IFC section 910.4.4 is amended to read:

70.22 **910.4.4 Operation.** Mechanical smoke exhaust fans shall be manually activated.
70.23 Individual manual controls of each fan unit shall also be provided.

70.24 Subp. 4. [Renumbered subp 2a]

71.1 Subp. 5. **IFC section 910.5.** IFC section 910.5 is amended and subsections added to
71.2 read as follows:

71.3 **910.5 Calculated engineering design of mechanical smoke exhaust.** Calculated engineering
71.4 design of mechanical smoke exhaust shall be in accordance with Sections 910.5.1 through
71.5 910.5.5.

71.6 **910.5.1 Methodology.** Mechanical smoke exhaust systems shall be designed to remove
71.7 smoke after a fire is extinguished and to assist the fire department during suppression
71.8 operations or during marginal sprinkler control situations. They are not considered life
71.9 safety systems and are not designed for occupant safety.

71.10 **910.5.2 Calculation method.** Volumetric flow rate calculations shall demonstrate that
71.11 the system will provide at least three air changes per hour for the space required to be
71.12 provided with smoke exhaust. When only a portion of a space is used for high-piled
71.13 storage requiring smoke exhaust, the volume to be extracted shall be based on the
71.14 ceiling height multiplied by the actual gross floor area for storage.

71.15 **910.5.3 Operation.** Mechanical smoke exhaust fans shall be manually activated. In
71.16 addition, individual manual controls of each fan unit shall also be provided.

71.17 **910.5.4 Supply air.** Supply air for exhaust fans shall be sized to provide a minimum
71.18 of 50 percent of the required exhaust. Air velocity at each supply air opening shall not
71.19 exceed an average of 200 feet per minute when measured 4 feet (1,219 mm) in front
71.20 of the opening. Openings for supply air shall be uniformly distributed around the
71.21 periphery of the area served and be located or ducted to a position not more than one-half
71.22 the storage height above the floor. Supply air openings shall open automatically upon
71.23 operation of the smoke exhaust system and shall not require a manual action at each
71.24 supply opening for operation. Supply air openings shall be kept clear of storage or
71.25 obstructions to airflow for at least 4 feet (1,219 mm) in front of the opening. Supply

72.1 air openings shall be separated from exhaust fans and exterior combustibles to prevent
72.2 introduction of smoke into the building.

72.3 **910.5.5 Equipment.** Wiring and controls shall be as required in Sections 910.4.5 and
72.4 910.4.6. Interlock controls shall be as required in Section 910.4.7. Exhaust fans shall
72.5 be uniformly spaced and each fan shall have a maximum individual capacity of 30,000
72.6 cfm (850 m³/min).

72.7 Subp. 6. **IFC section 910.6.** IFC section 910 is amended by adding a subsection to
72.8 read as follows:

72.9 **910.6 Testing and maintenance.** Mechanical smoke exhaust systems shall be tested and
72.10 maintained as required in Sections 910.6.1 through 910.6.4.

72.11 **910.6.1 Acceptance testing.** Mechanical smoke exhaust systems shall be acceptance
72.12 tested as required by Sections 909.18 and 909.19.

72.13 **910.6.1.1 Controls.** For testing purposes, each smoke exhaust system equipped
72.14 for automatic activation shall be put into operation by the actuation of the automatic
72.15 initiating device. Control sequences shall be verified throughout the system,
72.16 including verification of override from the firefighter's control panel when systems
72.17 are equipped for automatic activation.

72.18 **910.6.2 Special inspections.** Special inspections for mechanical smoke exhaust shall
72.19 be conducted according to Section 909.18.8.

72.20 **910.6.3 Maintenance.** Mechanical smoke exhaust systems, including exhaust fans,
72.21 supply air openings and controls, shall be maintained and unobstructed.

72.22 **910.6.4 Operational testing.** Operational testing of the smoke exhaust system shall
72.23 include all equipment such as initiating devices, fans, dampers, controls and supply air
72.24 openings. Mechanical smoke exhaust systems shall be operated and tested under each
72.25 control sequence at least annually.

73.1 Subp. 7. **IFC section 910.7.** IFC section 910 is amended by adding a section to read
73.2 as follows:

73.3 **910.7 Maintenance.** Smoke and heat vents shall be maintained in an operative condition
73.4 in accordance with NFPA 204. Fusible links shall be promptly replaced whenever fused,
73.5 damaged, or painted. Smoke and heat vents shall not be modified.

73.6 **7511.0915 SECTION 915, CARBON MONOXIDE DETECTION.**

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

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

73.13 Subp. 2. **IFC section 915.2.** IFC section 915.2 and subsections 915.2.1 and 915.2.2
73.14 are amended to read as follows:

73.15 **915.2 Locations.** Where required by Section 915.1.1, carbon monoxide detection shall be
73.16 installed in the locations specified in Sections 915.2.1 through 915.2.3.

73.17 **915.2.1 Dwelling units.** Carbon monoxide detection shall be installed in dwelling units
73.18 outside of each separate sleeping area within 10 feet of the bedrooms. Where a
73.19 fuel-burning appliance is located in a bedroom or its attached bathroom, carbon
73.20 monoxide detection shall be installed within the bedroom.

73.21 **915.2.2 Sleeping units.** Carbon monoxide detection shall be installed in sleeping units.

73.22 **Exception:** Carbon monoxide detection shall be allowed to be installed outside
73.23 of each separate sleeping area within 10 feet of the sleeping unit where the sleeping

74.1 unit or its attached bedroom does not contain a fuel-burning appliance and is not
74.2 served by a forced air furnace.

74.3 (Section 915.2.3 remains unchanged.)

74.4 **7511.1001 SECTION 1001, ADMINISTRATION.**

74.5 Subpart 1. **IFC section 1001.1.** IFC section 1001.1 is amended to read:

74.6 **1001.1 General.** Buildings or portions thereof shall be provided with a means of egress
74.7 system as required by this chapter. The provisions of this chapter shall control the design,
74.8 construction, and arrangement of means of egress components required to provide an
74.9 approved means of egress from structures and portions thereof. Sections 1003 through 1031
74.10 shall apply to new construction. Sections 1001, 1002, 1031, and 1104 shall apply to existing
74.11 buildings.

74.12 **1001.1.1 Compliance options.** Means of egress installed and maintained in accordance
74.13 with the Minnesota Residential Code or Building Code, when applicable, shall be
74.14 deemed to comply with this chapter.

74.15 Subp. 1a. [See repealer.]

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

74.17 **7511.1006 SECTION 1006, NUMBER OF EXITS AND EXIT ACCESS DOORWAYS.**

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

74.19 **TABLE 1006.2.1**

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

74.21 Maximum Common Path of Egress Travel Distance (feet)

74.22 Without Sprinkler System (feet)

75.1		Maximum	Occupant Load		With Sprinkler System (feet)
75.2		of Space			
75.3			Occupant Load		
75.4	Occupancy		OL ≤ 30	OL > 30	
75.5	A ^c , E, M	49	75	75	75 ^a
75.6	B	49	100	75	100 ^a
75.7	F	49	75	75	100 ^a
75.8	H-1, H-2, H-3	3	NP	NP	25 ^b
75.9	H-4, H-5	10	NP	NP	75 ^b
75.10	I-1, I-2 ^d	10	NP	NP	75 ^a
75.11	I-3	10	NP	NP	100 ^a
75.12	I-4	10	75	75	75 ^a
75.13	R-1	10	75	75	75 ^a
75.14	R-2	20	75	75	125 ^a
75.15	R-3	20	75	75	125 ^{a,f}
75.16	R-4	20	75	75	125 ^{a,f}
75.17	S ^c	29	100	75	100 ^a
75.18	U	49	100	75	75 ^a

75.19 NP = Not Permitted

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

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

75.25 ^c For a room or space used for assembly purposes having fixed seating, see Section
 75.26 1029.8.

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

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

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

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

76.9 **1006.2.2.1 Boiler, incinerator, and furnace rooms.** Two exit access doorways
76.10 are required in boiler, incinerator, and furnace rooms where the area is over 500
76.11 square feet (46 m²) and any fuel-fired equipment exceeds 400,000 British thermal
76.12 units (Btu) (422,000 kJ) input capacity. Where two exit access doorways are
76.13 required, one is permitted to be a fixed ladder or an alternating tread device. Exit
76.14 access doorways shall be separated by a horizontal distance equal to one-half the
76.15 length of the maximum overall diagonal dimension of the room. The exit access
76.16 path of travel shall not converge to a separation distance less than one-third the
76.17 length of the maximum overall diagonal dimension of the room.

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

76.19 **1006.2.2.4 Group E and I-4 means of egress.** Group E and I-4 facilities, rooms,
76.20 or spaces where care is provided for more than ten children that are 2-1/2 years of
76.21 age or less, shall have access to not less than two exits or exit access doorways.

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

76.24 **1006.2.2.7 Educational occupancy laboratories and prep areas.** Laboratories
76.25 and prep areas containing hazardous materials shall be provided with not less than

77.1 two means of egress when located in an E occupancy and the space is greater than
77.2 500 square feet.

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

77.4 **1006.3.3 Single exits.** A single exit or access to a single exit shall be permitted from
77.5 any story or occupied roof where one of the following conditions exists.

77.6 1. The occupant load; number of dwelling units or sleeping units; and common
77.7 path of egress travel distance do not exceed the values in Table 1006.3.3(1) or
77.8 1006.3.3(2).

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

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

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

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

77.19 5.1 Each dwelling unit and sleeping unit complies with Section 1006.2.1 as
77.20 a space with one means of egress.

77.21 5.2 Each sleeping unit and dwelling unit either: (a) has an exit that discharges
77.22 directly to the exterior at the level of exit discharge; or (b) has an exit access
77.23 outside the entrance door that provides access to at least two approved
77.24 independent exits.

78.1 (Subsection 1006.3.3.1 remains unchanged.)

78.2 **7511.1008 [Renumbered 7511.1010]**

78.3 **7511.1009 SECTION 1009, ACCESSIBLE MEANS OF EGRESS.**

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

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

78.6 **7511.1009 [Renumbered 7511.1011]**

78.7 **7511.1010 SECTION 1010, DOORS, GATES AND TURNSTILES.**

78.8 Subpart 1. **IFC section 1010.1.5.** IFC section 1010.1.5 is amended by modifying
78.9 exception 5 to read as follows:

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

78.13 Subp. 1a. **IFC section 1010.1.9.1.** IFC section 1010.1.9.1 is amended to read:

78.14 **1010.1.9.1 Hardware.** Except as permitted by Section 1010.1.9.4, door handles,
78.15 pulls, latches, locks, and other operating devices on doors shall only require a
78.16 single operation to release the door from the egress side.

78.17 Subp. 1b. **IFC section 1010.1.9.2.** The exception to IFC section 1010.1.9.2 is amended
78.18 to read as follows:

78.19 **Exception:** The ingress side of access doors or gates in barrier walls and
78.20 fences protecting pools, spas, and hot tubs shall be permitted to have operable
78.21 parts of the latch release on self-latching devices at 54 inches (1,370 mm)
78.22 maximum above the finished floor or ground, provided that the self-latching
78.23 devices are not also self-locking devices operated by means of a key, electronic