

# RULES CERTIFICATE

## Department of Commerce

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Philip Edw. Albert, Secretary of the Department of Commerce,  
and custodian of the official records of said department, do hereby certify that the annexed rule(s) relating to  
Building and Heating Ventilating & Air Conditioning Code, Chapters Comm 50-64

were duly approved and adopted by this department.

I further certify that said copy has been compared by me with the original on file in the department and  
that the same is a true copy thereof, and of the whole of such original.



IN TESTIMONY WHEREOF, I have hereunto set  
my hand at 201 West Washington Avenue  
in the city of Madison, this 21<sup>st</sup>  
day of December A.D. 19 98

Philip Edw. Albert  
Secretary

# ORDER OF ADOPTION

## Department of Commerce

Pursuant to authority vested in the Department of Commerce by section(s) 101.02 (1) & (15), and

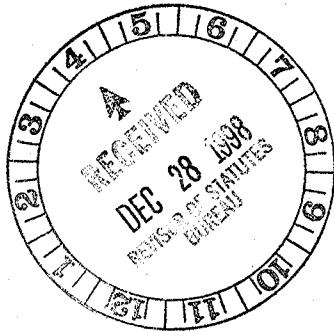
101.14 (4) Stats., the Department of Commerce  creates;  amends;

repeals and recreates;  repeals and adopts rules of Wisconsin Administrative Code chapter(s):

Comm 50-64  
(number)

Building and Heating Ventilating & Air Conditioning  
(Title)

The attached rules shall take effect on the first day of the month following publication in the Wisconsin  
Administrative Register pursuant to section 227.22, Stats.



Adopted at Madison, Wisconsin this

date: December 21, 1998

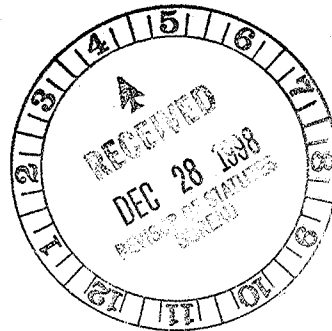
DEPARTMENT OF COMMERCE

Philip John Albert  
Secretary



State of Wisconsin \ Department of Commerce

# RULES in FINAL DRAFT FORM



**Rule No.:** Section Comm 51.25-17 & Related Sections

**Relating to:** Update of Adopted NFPA Standards in the Building Code

**Clearinghouse Rule No.:** 98-103

The Wisconsin Department of Commerce (formerly Industry, Labor and Human Relations) proposes an order to repeal ss. Comm 16.50 and ILHR 64.45 (1) Note;

to amend ss. Comm 51.06 (6) (a) 3. b., Comm 51.24 (intro.), Comm 51.24 (10), Comm 51.245 (1), Comm 51.25 Table 51.25-17, ILHR 52.01 (2) (d) 3., ILHR 52.01 (2) (d) 4., ILHR 52.01 (2) (e) 2: Note, Comm 54.02 (2) (f) 2., Comm 56.03 (2) (b), Comm 56.61 (1) (a) 1., Comm 56.63 (9) (b) 2., Comm 56.64 (3) (a), Comm 56.65 (3) (a), ILHR 58.27 (3) (a), ILHR 58.65 (1), and ILHR 64.45 (1);

and to repeal and recreate ss. Comm 51.19 (2) (c) 1. Note, Comm 51.245 (2) (a), Comm 51.245 (3) (intro.) and ILHR 52.011 (2) Note.



Analysis of Proposed Rules

Statutory Authority: ss. 101.02 (1) and (15), and 101.14 (4)

Statutes Interpreted: ss. 101.02 (1) and (15), and 101.14 (4) and (4m)

Under ss. 101.02 and 101.14, Stats., the Department has the responsibility to supervise every public building and place of employment, including the fire detection, prevention or suppression devices, in order to protect the life, health, safety and welfare of every employe, every frequenter and every tenant. Updating currently adopted standards related to building construction, building equipment, commodity storage, and fire detection, prevention and suppression is one part of that responsibility.

The proposed rule change updates the currently adopted National Fire Protection Association (NFPA) standards in the Building and Heating, Ventilating and Air Conditioning Code, chapters ILHR 50-64. No additional standards are adopted at this time, except for NFPA 72, which replaces four previously adopted standards. These four obsolete standards, NFPA 71, 72A, 72E, and 74 are repealed under this proposed change. Minor wording changes had to be made to the text to accommodate the scope of NFPA 72 and to correct the new designations or titles of the standards.

Some of the more important changes in these new editions include: 1) From NFPA 13, a single sprinkler may now cover up to 400 square feet, up from 225 square feet in previous editions.

2) Also from NFPA 13, light hazard occupancies now require quick-response type sprinklers.

3) From NFPA 72, smoke detectors in residential occupancies require battery backup in addition to the household current primary source. Although the NFPA 72 standard requires a smoke detector in each individual sleeping room of a new residential occupancy, this requirement is not adopted into the code at this time because of statutory language specifying the detector location.



SECTION 1. Comm 16.50 is repealed.

SECTION 2. Comm 51.06 (6) (a) 3. b. is amended to read:

Comm 51.06 (6) (a) 3. b. Freezer warehouses may be constructed without automatic fire sprinkler system protection provided the entire freezer warehouse is equipped with a fire detection system conforming to NFPA ~~72E~~ 72 and the system is connected to a constantly attended station; the freezer warehouse is separated from all other use areas of the building (i.e., offices, loading docks, nonrefrigerated storage, mechanical rooms) by at least 2-hour fire-resistive rated construction; the freezer warehouse or separated freezer warehouse part within a building is located to provide at least 30 foot separation to any property line or other building on the same property; and the foam plastic material complies with the provisions of sub. (7).

SECTION 3. Comm 51.19 (2) (c) 1. Note is repealed and recreated to read:

Comm 51.19 (2) (c) 1. Note: See NFPA 72 for requirements on door closer initiating devices.

SECTION 4. Comm 51.24 (intro.) is amended to read:

Comm 51.24 (intro.) FIRE ALARM SYSTEMS. Interior fire alarm systems required under ss. Comm 54.17, 56.19 and ILHR 57.17 shall be designed and constructed in conformity with NFPA 72 and the following requirements:

SECTION 5. Comm 51.24 (10) is amended to read:

Comm 51.24 (10) MAINTENANCE. All fire alarm systems, ~~whether required by this code or not,~~ shall be maintained in ~~an operable condition~~ accordance with NFPA 72.

SECTION 6. Comm 51.245 (1) is amended to read:

Comm 51.245 (1) GENERAL REQUIREMENTS. All ~~required~~ smoke detectors shall be approved by the department and shall comply with the provisions of NFPA ~~72E~~ or NFPA ~~74~~ 72.

SECTION 7. Comm 51.245 (2) (a) is repealed and recreated to read:

Comm 51.245 (2) (a) 1. Except as provided under subd. 2., smoke detectors and smoke detector systems shall be installed in accordance with the provisions of NFPA 72 and in accordance with the manufacturer's directions and specifications.

2. Residential occupancies shall have smoke detectors provided as specified in s. ILHR 57.16 or 66.49.

SECTION 8. Comm 51.245 (3) (intro.) is repealed and recreated to read:

Comm 51.245 (3) (intro.) MAINTENANCE. Smoke detectors shall be maintained in accordance with NFPA 72 and the following requirements:

SECTION 9. Comm 51.25, Table 51.25-17 is amended to read:

Table 51.25-17

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~~NFPA~~ NFPA National Fire Protection Association  
 One Batterymarch Park  
 P.O. Box 9101  
 Quincy Massachusetts 02269 - 9101

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Standard Reference Number	Title
1. 10 - <del>1988</del> <u>1998</u>	Standard for Portable Fire Extinguishers.
2. 13 - <del>1994</del> <u>1996</u>	Standard for the Installation of Sprinkler Systems.
3. 13R - <del>1994</del> <u>1996</u>	Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height.
4. 15 - <del>1990</del> <u>1996</u>	Standard for Water Spray Fixed Systems for Fire Protection.
5. 20 - <del>1987</del> <u>1996</u>	Standard for the Installation of Centrifugal Fire Pumps.
6. 22 - <del>1987</del> <u>1996</u>	Standard for Water Tanks for Private Fire Protection.
7. 24 - <del>1987</del> <u>1995</u>	Standard for the Installation of Private Fire Service Mains and Their Appurtenances.
8. 25 - <del>1992</del> <u>1998</u>	Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.
9. 31 - <del>1987</del> <u>1997</u>	Standard for the Installation of Oil-Burning Equipment.
10. 54 - <del>1992</del> <u>1996</u>	National Fuel Gas Code.
<del>11. 71 - 1987</del>	<del>Standard for the Installation, Maintenance and Use of Protective Signaling Systems.</del>

<del>12. 72A - 1990</del>	<del>Standard for the Installation, Maintenance and Use of Local Protective Signaling Systems for Guard's Tour, Fire Alarm and Supervisory Service.</del>
<del>13. 72E - 1987</del>	<del>Standard on Automatic Fire Detectors.</del>
<del>14. 74 - 1989</del>	<del>Standard for the Installation, Maintenance and Use of Household Fire Warning Equipment.</del>
<u>11. 72 - 1996</u>	<u>National Fire Alarm Code.</u>
<u>15 12. 90A - 1985 1996</u>	Standard for the Installation of Air Conditioning and Ventilating Systems.
<u>16 13. 96 - 1994</u>	Standard for the Installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment.
<u>17 14. 211 - 1988 1996</u>	Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances.
<u>18 15. 231 - 1990 1998</u>	Standard for General Storage.
<u>19 16. 231C - 1990 1998</u>	Standard for Rack Storage of Materials.

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SECTION 10. ILHR 52.01 (2) (d) 3. is amended to read:

ILHR 52.01 (2) (d) 3. The manual alarm and automatic detection system shall conform to the Wisconsin State Electrical Code, volume 2, ch. Comm 16 and ~~one of the following standards:~~

~~a. NFPA 71; or~~

~~b. NFPA 72.~~

SECTION 11. ILHR 52.01 (2) (d) 4. is amended to read:

ILHR 52.01 (2) (d) 4. Detectors shall conform to NFPA ~~72E~~ 72.

SECTION 12. ILHR 52.01 (2) (e) 2. Note is amended to read:

ILHR 52.01 (2) (e) 2. Note: The department will accept systems installed in accordance with ~~the Standard for the Installation, Maintenance and Use of Local Protective Signaling Systems for Watchmen, Fire Alarm and Supervisory Service, NFPA No. 72A. NFPA 72.~~

SECTION 13. ILHR 52.011 (2) Note is repealed and recreated to read:

ILHR 52.011 (2) Note: See s. Comm 51.23 for additional system installation requirements.

SECTION 14. Comm 54.02 (2) (f) 2. is amended to read:

Comm 54.02 (2) (f) 2. Smoke detection in accord with NFPA ~~72E~~ 72, or an equivalent system acceptable to the department, is provided to all parts of the building within 100 feet of the mezzanine, with the detectors on the main floor and a horn in the mezzanine level.

SECTION 15. Comm 56.03 (2) (b) is amended to read:

Comm 56.03 (2) (b) Smoke detection systems shall be installed in accordance with NFPA ~~No. 72E or NFPA No. 74-72~~; but in no case shall smoke detectors be spaced more than 30 feet apart on center or more than 15 feet from any wall.

SECTION 16. Comm 56.61 (1) (a) 1. is amended to read:

Comm 56.61 (1) (a) 1. Additional smoke detectors complying with NFPA ~~72E~~ 72;

SECTION 17. Comm 56.63 (9) (b) 2. is amended to read:

Comm 56.63 (9) (b) 2. Smoke detectors shall be installed in accordance with NFPA ~~72E~~ 72. Activation of smoke detectors shall sound an alarm audible in a normally occupied area of the building or shall activate the building fire alarm system.

SECTION 18. Comm 56.64 (3) (a) is amended to read:

Comm 56.64 (3) (a) Where a stairway smoke-enclosure does not provide direct exiting to grade, the passageway connecting the stairway smoke-enclosure to the exterior exit shall be protected with smoke detectors. The detectors shall be located in accordance with NFPA ~~72E~~ 72.

SECTION 19. Comm 56.65 (3) (a) is amended to read:

Comm 56.65 (3) (a) Where stairway smoke cut-offs are provided, at least one smoke detector shall be placed at the head of the open stairway at the uppermost floor level. Additional smoke detectors shall be placed throughout the open corridor leading to the stairway. The smoke detectors shall be located in accordance with NFPA ~~72E~~ 72.



SECTION 20. ILHR 58.27 (3) (a) is amended to read:

ILHR 58.27 (3) (a) Except as provided in par. (b), an approved automatic smoke detection system shall be installed in all corridors in nursing homes. Such systems shall be installed and maintained as specified in NFPA ~~72E~~ 72 but in no case shall smoke detectors be spaced more than 30 feet apart on center or more than 15 feet from any wall. All automatic smoke detection systems required by this section shall be electrically interconnected to the fire alarm system.

SECTION 21. ILHR 58.65 (1) is amended to read:

ILHR 58.65 (1) An approved automatic smoke detection system shall be installed in all sleeping rooms, holding rooms, and in all corridors in connection with the sleeping room areas. Such systems shall be installed in accordance with NFPA ~~72E~~ 72 but in no case shall smoke detectors be spaced more than 30 feet apart on center or more than 15 feet from any wall, except as provided in sub. (2). All automatic smoke detection systems required by this section shall be electrically interconnected to the fire alarm system.

SECTION 22. ILHR 64.45 (1) is amended to read:

ILHR 64.45 (1) GENERAL REQUIREMENTS. Heating equipment using solid, liquid or gas fuels shall be vented to the outside, except as permitted in s. ILHR 64.21. A natural draft chimney or other venting device shall have the height and area to remove the products of combustion. Chimneys, smoke stacks, gas vents, mechanical draft and venting devices shall comply with the requirements of NFPA 211.

SECTION 23 ILHR 64.45 (1) Note is repealed.

(END)

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EFFECTIVE DATE

Pursuant to s. 227.22 (2) (intro.), Stats., these rules shall take effect on the first day of the month following publication in the Wisconsin Administrative Register.

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December 22, 1998

Gary Poulson  
Assistant Revisor of Statutes  
Suite 800  
131 West Wilson Street  
Madison, Wisconsin 53703-3233

Douglas LaFollette  
Secretary of State  
10th Floor  
30 West Mifflin Street  
Madison, Wisconsin 53703

Dear Messrs. Poulson and LaFollette:

**TRANSMITTAL OF RULE ADOPTION**

CLEARINGHOUSE RULE NO.: 98-103

RULE NO.: Section Comm 51.25-17 & Related Sections

RELATING TO: Update of Adopted NFPA Standards in the Commercial Building Code

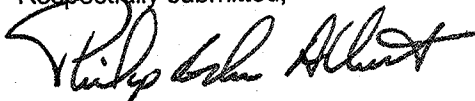
Pursuant to section 227.20, Stats., agencies are required to file a certified copy of every rule adopted by the agency with the offices of the Secretary of State and the Revisor of Statutes.

At this time, the following material is being submitted to you:

1. Order of Adoption.
2. Rules Certificate Form.
3. Rules in Final Draft Form.

Pursuant to section 227.114, Stats., a summary of the final regulatory flexibility analysis is also included.

Respectfully submitted,



Philip Edw. Albert  
Acting Secretary

