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## OFFICE OF THE STATE FIRE MARSHAL

## NOTICE OF PROPOSED RULES

- 1) Heading of the Part: Carbon Monoxide Alarms and Detectors
- 2) Code Citation: 41 Ill. Adm. Code 112
- 3) 

<u>Section Numbers:</u>	<u>Proposed Actions:</u>
112.100	New Section
112.120	New Section
112.140	New Section
112.180	New Section
112.200	New Section
112.230	New Section
112.250	New Section
- 4) Statutory Authority: Implementing and authorized by Sections 5/10-20.56 and 5/34-18.49 of the School Code [105 ILCS 5/10-20.56 and 5/34-18.49] and Section 5 of the Carbon Monoxide Alarm Detector Act [430 ILCS 135/5]
- 5) A Complete Description of the Subjects and Issues Involved: PA 99-470 places responsibility on the Office of the State Fire Marshal to establish the guidelines for approved carbon monoxide detectors under this Act and carbon monoxide alarms under the Carbon Monoxide Alarm Detector Act [430 ILCS 135/1]. This proposal will establish the minimum requirements for approved carbon monoxide alarms and detectors in new and existing public schools to provide clarity to local school boards. It will also clarify the requirements for carbon monoxide alarms under the Carbon Monoxide Alarm Detector Act.
- 6) Published studies or reports, and sources of underlying data used to compose this rulemaking: None
- 7) Will this rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes
- 10) Are there any other rulemakings pending on this Part? No

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- 11) Statement of Statewide Policy Objective: PA 99-470 took effect on January 1, 2016 and mandates local school boards to require each school under its authority to be equipped with carbon monoxide alarms or carbon monoxide detectors.
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Persons wishing to comment on this proposed rulemaking may submit comments no later than 45 days after the publication of this Notice to:

Deborah J. Williams  
Division of Legal Counsel  
Office of the State Fire Marshal  
1035 Stevenson Dr.  
Springfield IL 62703-4259

217/785-0978
- 13) Initial Regulatory Flexibility Analysis:
  - A) Types of small businesses, small municipalities and not-for-profit corporations affected: This rulemaking has no impact on small businesses or not-for-profit corporations. The rules may affect small municipalities with public schools that are required to install carbon monoxide alarms or detection systems pursuant to PA 99-470 (January 1, 2016) by providing guidance to local school boards on how to achieve compliance.
  - B) Reporting, bookkeeping or other procedures required for compliance: None
  - C) Types of Professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: January 2016

The full text of the Proposed Rules begins on the next page:

## OFFICE OF THE STATE FIRE MARSHAL

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TITLE 41: FIRE PROTECTION  
CHAPTER I: OFFICE OF THE STATE FIRE MARSHALPART 112  
CARBON MONOXIDE ALARMS AND DETECTORS

Section	
112.100	Purpose and Scope
112.120	Severability
112.140	Definitions
112.180	Incorporations by Reference
112.200	Approved Carbon Monoxide Alarms for Use in Dwelling Units
112.230	Approved Carbon Monoxide Alarms for Use in Public Schools
112.250	General Requirements for Carbon Monoxide Detectors or Detection Systems in Public Schools

**AUTHORITY:** Implementing and authorized by Sections 10-20.56 and 34-18.49 of the School Code [105 ILCS 5/10-20.56 and 34-18.49] and the Carbon Monoxide Alarm Detector Act [430 ILCS 135].

**SOURCE:** Adopted at 40 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

**Section 112.100 Purpose and Scope**

This Part implements the provisions of the School Code that delegate responsibility to the Office of the State Fire Marshal to promulgate regulations defining the carbon monoxide detectors that may be used public schools. (See 105 ILCS 5/10-20.56 and 34-18.49.) This Part also includes the specifications for approved carbon monoxide alarms established by the Carbon Monoxide Alarm Detector Act [430 ILCS 135] as referenced in the School Code.

**Section 112.120 Severability**

If any Section, subsection, sentence or clause of this Part shall be held by a court of competent jurisdiction to be invalid, that holding shall not affect the remaining portions of this Part.

**Section 112.140 Definitions**

The following definitions are used in this Part:

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"Act" means the Carbon Monoxide Alarm Detector Act [430 ILCS 135].

"Alarm control unit" means a carbon monoxide detection system or fire alarm system component that monitors inputs and controls outputs through various types of circuits.

"Carbon monoxide alarm" or "alarm" means a single-station or multiple-station carbon monoxide alarm intended for the purpose of detecting carbon monoxide gas and alerting occupants by a distinct audible signal. An alarm is comprised of an assembly that incorporates a sensor, control components, and an alarm notification appliance in a single unit operated from a power source either located in the unit or obtained at the point of installation.

"Carbon monoxide detection system" means a system that consists of an alarm control unit, components, and circuits arranged to monitor and annunciate the status of carbon monoxide alarm initiating devices and to initiate the appropriate response to those signals.

*"Carbon monoxide detector" or "detector" means a device having a sensor that responds to carbon monoxide gas and that is connected to an alarm control unit.* [105 ILCS 5/10-20.56(a) and 34-18.49(a)]

"NFPA" means the National Fire Protection Association.

"UL" means Underwriters Laboratories.

**Section 112.180 Incorporations by Reference**

- a) All the materials incorporated by reference in this Section are incorporated as of the date specified and include no later editions or amendments.
- b) The following materials are incorporated by reference:

NFPA 720: Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment, (2015 edition), NFPA; 1 Batterymarch Park, Quincy MA 02269; (617)770-3000 or (800)344-3555; [www.nfpa.org](http://www.nfpa.org).

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UL 217: Standard for Smoke Alarms (8<sup>th</sup> edition; October 30, 2015); Underwriters Laboratories, 333 Pfingsten Road, Northbrook IL 60062; (877)854-3577; www.ul.com.

UL 268: Smoke Detectors for Fire Alarm Systems (7<sup>th</sup> edition; January 11, 2016); Underwriters Laboratories, 333 Pfingsten Road, Northbrook IL 60062; (877)854-3577; www.ul.com.

UL 2034: Standard for Single and Multiple Station Carbon Monoxide Alarms (3<sup>rd</sup> edition; February 28, 2008); Underwriters Laboratories, 333 Pfingsten Road, Northbrook IL 60062; (877)854-3577; www.ul.com.

UL 2075: Standard for Gas and Vapor Detectors and Sensors (2<sup>nd</sup> edition; March 5, 2013); Underwriter's Laboratories, 333 Pfingsten Road, Northbrook IL 60062; (877)854-3577; www.ul.com.

**Section 112.200 Approved Carbon Monoxide Alarms for Use in Dwelling Units**

An approved carbon monoxide alarm used in an occupancy or structure that has one or more dwelling units, as defined in the Act, must be listed in accordance with UL 2034, as incorporated by reference in Section 112.180. An approved combined carbon monoxide and smoke alarm used in an occupancy or structure that has one or more dwelling units, as defined in the Act, must be listed in accordance with UL 2034 and UL 217, as incorporated by reference in Section 112.180.

**Section 112.230 Approved Carbon Monoxide Alarms for Use in Public Schools**

- a) Carbon monoxide alarms in public schools must be listed in accordance with UL 2034, as incorporated by reference in Section 112.180.
- b) Combined carbon monoxide and smoke alarms must be listed in accordance with UL 2034 and UL 217, as incorporated by reference in Section 112.180.
- c) For public schools designed on or after January 1, 2016, any carbon monoxide alarm installed to achieve compliance with the School Code and this Part must be monitored by any required fire alarm system and must be permanently powered by the building's electrical system. Such carbon monoxide alarms for use in new public schools may not be electric plug-in or battery operated.

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**Section 112.250 General Requirements for Carbon Monoxide Detectors or Detection Systems in Public Schools**

- a) For public schools designed on or after January 1, 2016, a carbon monoxide detection system or carbon monoxide detectors installed to achieve compliance with the School Code and this Part must be monitored by any required fire alarm system and must be permanently powered by the building's electrical system.
- b) A carbon monoxide detection system constructed and installed pursuant to this Section and its components must be listed by UL for the purpose for which it is used and must be cross-listed by UL with the panel to which it is connected.
- c) Carbon monoxide detectors shall be listed in accordance with UL 2075, incorporated by reference in Section 112.180.
- d) Combined carbon monoxide and smoke detectors installed in carbon monoxide detection systems shall be an acceptable alternative to carbon monoxide detectors provided the combination detectors are listed in accordance with UL 2075 and UL 268.
- e) Carbon monoxide detection system or carbon monoxide detector components must be installed and maintained in accordance with the manufacturer's published instructions and NFPA 720, incorporated by reference in Section 112.180, except that the location and the frequency of inspection and testing of carbon monoxide detectors shall be as prescribed in Section 10-20.56(b) or 34-18.49(b) of the School Code, as applicable.
- f) All carbon monoxide detection systems and carbon monoxide detectors must have an audible alarm signal that is distinctive from other alarm signals and is a four-pulse temporal pattern as prescribed in NFPA 720.
- g) Carbon monoxide detection systems or carbon monoxide detectors must have occupant notification throughout the building, except where the signal is transmitted to a constantly attended location on-premise or off-premise where response action can be taken. The occupant notification zone may be limited to the area where the carbon monoxide alarm signal was initiated.

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- h) Signals from carbon monoxide detection systems and carbon monoxide detectors transmitted to a fire alarm system shall not transmit a fire alarm signal.