



## CHANGES TO THE TEXT OF THE 2010 CODE BOOKS

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The State Uniform Fire Prevention and Building Code (the Uniform Code) includes the publications that are incorporated by reference in Parts 1220 to 1227 of Title 19 of the *New York Codes, Rules and Regulations* (the NYCRR). Effective December 28, 2010, those publications will include the August 2010 editions of:

- the *Residential Code of New York State* (the 2010 RCNYS),
- the *Building Code of New York State* (the 2010 BCNYS),
- the *Plumbing Code of New York State* (the 2010 PCNYS),
- the *Mechanical Code of New York State* (the 2010 MCNYS),
- the *Fuel Gas Code of New York State* (the 2010 FGCNYS),
- the *Fire Code of New York State* (the 2010 FCNYS),
- the *Property Maintenance Code of New York State* (the 2010 PMCNYS), and
- the *Existing Building Code of New York State* (the 2010 EBCNYS).

The 2010 RCNYS, 2010 BCNYS, 2010 PCNYS, 2010 MCNYS, 2010 FGCNYS, 2010 FCNYS, 2010 PMCNYS and 2010 EBCNYS are referred to collectively as the 2010 Code Books.

Certain provisions in the 2010 Code Books have been changed, and certain new provisions have been added to the 2010 Code Books, by provisions included in the 19 NYCRR Parts 1220 to 1227. For the purposes of applying the 2010 Code Books in this State, the 2010 Code Books are deemed to be amended in the manner specified in the NYCRR.

This Memorandum summarizes the amendments to the 2010 Code Books that have been made by the NYCRR. This Memorandum reflects actions taken by the State Fire Prevention and Building Code Council (the Code Council) through and including December 1, 2010. The Code Council may make further changes and additions to the 2010 Code Books at subsequent meetings of the Code Council. In addition, the Code Council may add new provisions to the Uniform Code from time to time by amending Part 1228 of Title 19 of the NYCRR. Regulated parties, code enforcement officials and



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other interested parties may contact the Division of Code Enforcement and Administration for further information.

### SECTIONS CHANGED OR ADDED THROUGH DECEMBER 1, 2010

Code Book	Incorporated by Reference in:	Changed by:	Section(s) Changed or Added:
2010 RCNYS	19 NYCRR Part 1220	19 NYCRR § 1220.1(c)	313.2 313.4 2411.2.2 3509.7 App. J, Section J102 App. J, Section J704 App. J, Section J401.3 App. J, Section J501.3 App. J, Section J601.5 App. J, Section J803.2 App. J, Section J901.3 App. J, Section J1001.4
2010 BCNYS	19 NYCRR Part 1221	19 NYCRR § 1221.1(c)	Table 508.2 Table 508.3.3
2010 PCNYS	19 NYCRR Part 1222	N/A	NONE
2010 MCNYS	19 NYCRR Part 1223	N/A	NONE
2010 FGCNYS	19 NYCRR Part 1224	19 NYCRR § 1224.1(c)	Section 310.2.2
2010 FCNYS	19 NYCRR Part 1225	19 NYCRR § 1225.1(c)	Section 610 Section 1028.8.2 Section 1029.7 Section 1103.5
2010 PMCNYS	19 NYCRR Part 1226	N/A	NONE
2010 EBCNYS	19 NYCRR Part 1227	19 NYCRR § 1227.1(c)	Section 506.1



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### DESCRIPTION OF CHANGES / ADDITIONS MADE THROUGH DECEMEBR 1, 2010

2010 RCNYS Section R313.2	The following sentence is added to end of this section:  “Existing dwellings not undergoing repair, alteration, change of occupancy, addition or relocation shall be provided with smoke alarms as required by Section 704 of the Property Maintenance Code of New York State or Section 907 of the Fire Code of New York State, as applicable, and shall be provided with carbon monoxide alarms as required by Section 610 of the Fire Code of New York State.”
2010 RCNYS Section R313.4	This Section (“Carbon monoxide alarms”) is amended and restated in its entirety. <i>See attached Exhibit A for the amended and restated text of this Section.</i>
2010 RCNYS Section 2411.2.2	The second sentence of this Section is amended and restated in its entirety to read as follows:  “The bonding clamp shall be attached to the gas piping system on the down-stream side of the gas meter or regulator, in an unconcealed and readily accessible space, and as close as practicable to the point where the bonding jumper is connected to the electrical service grounding electrode system.”
2010 RCNYS Section 3509.7	The following exception is added to this Section:  “ <b>EXCEPTION:</b> Gas piping systems that contain corrugated stainless steel tubing (CSST) shall be installed and bonded in accordance with Section G2411.2 of this code.”
2010 RCNYS App. J, Section J102	New Section J102.6 is added to 2010 RCNYS Appendix J, Section J102. New Section J102.6 reads as follows:  “ <b>Section J102.6. Lead-based paint.</b> In addition to requirements of this code, 40 CFR 745 (titled “Lead-based Paint Poisoning Prevention in Certain Residential Structures”), a regulation issued and enforced by the Federal Environmental Protection Agency, applies to certain activities in buildings that may contain lead-based paint, including renovations performed for compensation in “target housing” and “child-occupied facilities,” “abatement” of lead-based paint hazards and other “lead-based paint activities” (as those terms are defined in 40 CFR Part 745).”
2010 RCNYS App. J, Section J704.	A new section AJ704 (including sections AJ704.1, AJ704.2, AJ704.3 and AJ704.4) is added to 2010 RCNYS Appendix J. <i>See attached Exhibit B for the text of new Section AJ704.</i>
2010 RCNYS App. J, Sections J401.3, J501.3, J601.5, J803.2, J901.3 and J1001.4	These Sections are amended and restated in their entirety. <i>See attached Exhibit C for the amended and restated text of these Sections.</i>
2010 BCNYS	In Table 508.2 of the 2010 BCNYS, the entry for “Storage rooms over 100 square feet” in the



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Table 508.2	<p>“ROOM OR AREA” column ends with footnote “b.” This entry should end with footnote “a.” This entry is amended and restated in its entirety to read as follows:</p> <p style="text-align: center;">“Storage rooms over 100 square feet <sup>a</sup>”</p>
2010 BCNYS Table 508.3.3	<p>The following footnote “e” is added to this Table:</p> <p>“<sup>e</sup> Commercial kitchens need not be separated from the restaurant seating areas that they serve”</p>
2010 FGCNYS Section 310.2.2	<p>The second sentence in this Section is amended and restated in its entirety to read as follows:</p> <p>“The bonding clamp shall be attached to the gas piping system on the down-stream side of the gas meter or regulator, in an unconcealed and readily accessible space, and as close as practicable to the point where the bonding jumper is connected to the electrical service grounding electrode system.”</p>
2010 FCNYS Section 610	<p>This Section (“Carbon Monoxide Alarms”) is amended and restated in its entirety. <i>See attached Exhibit D for the amended and restated text of this section.</i></p>
2010 FCNYS Section 1028.8.2	<p>This Section is amended and restated in its entirety to read as follows:</p> <p><b>“1028.8.2 Means of egress.</b> Means of egress shall conform with Section 1028.8.2.1, 1028.8.2.2 or 1028.8.2.3.”</p>
2010 FCNYS Section 1029.7	<p>This Section is amended and restated in its entirety to read as follows:</p> <p><b>“1029.7 Exits signs.</b> Exits signs shall comply with Sections 1029.7.1 through 1029.7.5.”</p>
2010 FCNYS Section 1103.5	<p>This Section is amended and restated in its entirety to read as follows:</p> <p><b>“1103.5 Dispensing of flammable and combustible liquids.</b> The dispensing, transferring and storage of flammable and combustible liquids shall be in accordance with this chapter and Chapter 34.</p> <p style="padding-left: 40px;"><b>“EXCEPTION:</b> The dispensing, transferring and storage of flammable and combustible liquids in aircraft motor vehicle fuel-dispensing stations shall be in accordance with NFPA 407.”</p>
2010 EBCNYS Section 506.1	<p>The first sentence in the introductory portion of this Section (which reads “Seismic provisions of this chapter shall only apply to buildings built after January 1, 2003.”) is deleted, and the introductory portion of this Section is amended and restated in its entirety to read as follows:</p> <p><b>“506.1 General.</b> Repairs of structural elements shall comply with this section.”</p>



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### EXHIBIT A

#### AMENDED AND RESTATED TEXT OF 2010 RCNYS SECTION R313.4

**R313.4 Carbon monoxide alarms.** This section covers the application, installation, performance and maintenance of carbon monoxide alarms and carbon monoxide detectors, and their components, in new one- and two-family dwellings and new townhouses. New bed and breakfast dwellings and new buildings which are under the custody, licensure, supervision or jurisdiction of a department or agency of the State of New York and which are regulated as one- or two-family dwellings or townhouses in accordance with established laws or regulations of that department or agency shall comply with the stricter of this section or Section 610 of the Fire Code of New York State. Existing one- and two-family dwellings, existing townhouses, existing bed and breakfast dwellings, and existing buildings which are under the custody, licensure, supervision or jurisdiction of a department or agency of the State of New York and which are regulated as one- or two-family dwellings or townhouses in accordance with established laws or regulations of that department or agency shall comply with Section 610 of the Fire Code of New York State.

**R313.4.1 General.** Carbon monoxide alarms (or, where permitted, carbon monoxide detectors) shall be installed, operated and maintained in accordance with the provisions of this section, or in accordance with the provisions of NFPA 720.

**Exception:** Carbon monoxide alarms and/or carbon monoxide detectors shall not be required in a building or structure that contains no carbon monoxide source.

**R313.4.2 Required locations.** Carbon monoxide alarms shall be provided at each of the following locations within each dwelling unit:

1. On each story containing a sleeping area, within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.
2. On each story that contains a carbon monoxide source.

**Exceptions.**



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1. Where coverage at a location is required by more than one provision of this section, providing one carbon monoxide alarm at such location shall be deemed to satisfy all such provisions.
2. In lieu of a carbon monoxide alarm, a carbon monoxide detector may be provided at any location where coverage is required, provided that such carbon monoxide detector is part of a system that causes an alarm to sound at such location when carbon monoxide is detected at such location.

**R313.4.3 Power source.** Carbon monoxide alarms, carbon monoxide detectors and the alarm control units to which carbon monoxide detectors are connected shall receive their primary power from the building wiring, and shall be equipped with a battery backup system that automatically provides power from one or more batteries when primary power is interrupted. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection.

### **Exceptions.**

1. Carbon monoxide alarms and carbon monoxide detectors installed in a building or structure without an electrical power source shall be battery operated.
2. In buildings that undergo repair, alteration, change of occupancy, addition or relocation in accordance with Appendix J, carbon monoxide alarms may be battery operated, cord-type or direct plug.

**R313.4.4 Equipment.** Carbon monoxide alarms shall be listed and labeled as complying with UL 2034 or CAN/CSA 6.19. Carbon monoxide detectors shall be listed and labeled as complying with UL 2975 and shall meet the sensitivity testing and alarm thresholds of UL 2034 or CSA 6.19. Carbon monoxide alarms and carbon monoxide detectors shall be installed in accordance with this section and the manufacturer's installation instructions.

**R313.4.4.1 Maintenance and testing.** Carbon monoxide alarms, carbon monoxide detectors, and alarm control units shall be maintained in an operative condition at all times. Carbon monoxide alarms, carbon monoxide detectors, and alarm control units shall be periodically tested in accordance with the manufacturer's instructions. The battery or batteries used as the primary or backup power source shall be replaced when low or when otherwise required by the manufacturer's instructions. Carbon monoxide



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alarms, carbon monoxide detectors, and alarm control units shall be replaced or repaired when defective, and shall be replaced when they cease to operate as intended.

**R313.4.4.2 Disabling of alarms.** No carbon monoxide alarm, carbon monoxide detector, or alarm control unit shall be removed or disabled, except for service, repair or replacement purposes.

**R313.4.5 Interconnection of carbon monoxide alarms.** When more than one carbon monoxide alarm or carbon monoxide detector is required to be installed within an individual dwelling unit, sleeping unit or sleeping area, all carbon monoxide alarms and all carbon monoxide detectors in such dwelling unit, sleeping unit or sleeping area shall be interconnected.

**Exception:** Interconnection is not required where battery operated, cord-type or direct plug carbon monoxide alarms and carbon monoxide detectors are permitted.”



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### EXHIBIT B

#### TEXT OF NEW 2010 RCNYS APPENDIX J, SECTION RAJ704

##### Section RAJ704. BED AND BREAKFAST DWELLINGS

**RAJ704.1 Scope.** Owner-occupied one-family dwellings converted for use as bed and breakfast dwellings as defined in Section RAJ202 shall comply with this section.

**RAJ704.2 Occupancy.** A residence converted to a bed and breakfast dwelling shall have no more than five sleeping rooms for accommodating up to 10 transient lodgers.

**RAJ704.3 Special conditions.** A one-family dwelling is permitted to be converted for use as a bed and breakfast dwelling under the following conditions:

1. No sleeping rooms for transient use shall be located above the second story.
2. A fire-safety notice shall be affixed to the occupied side of the entrance door of each bedroom for transient use indicating:
  1. Means of egress;
  2. Location of means for transmitting fire alarms, if any; and
  3. Evacuation procedures to be followed in the event of a fire or smoke condition or upon activation of a fire or smoke-detecting or other alarm device.

**RAJ704.4 Means of egress.** Means of egress shall include at least one of the following alternatives:

1. A limited area sprinkler system installed in conformance with NFPA 13D protecting all interior stairs serving as a means of egress;
2. An exterior stair conforming to the requirements of §RR311.1 and §RR311.5 of this code, providing a second means of egress from all above grade stories or levels; or



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3. An opening for emergency use conforming to the requirements of Section R310 of this code within each bedroom for transient use, such opening to have a sill not more than 14 feet above level grade directly below and, as permanent equipment, a portable escape ladder that attaches securely to such sill. Such ladder shall be constructed with rigid rungs designed to stand off from the building wall, shall be capable of sustaining a minimum load of 1,000 pounds, and shall extend to and provide unobstructed egress to open space at grade.”



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### EXHIBIT C

#### AMENDED AND RESTATED TEXT OF 2010 RCNYS APPENDIX J, SECTIONS AJ401.3, AJ501.3, AJ601.5, AJ 803.2, AJ901.3 AND AJ1001.4

**§AJ401.3 Flood hazard areas.** In flood hazard areas, repairs that constitute substantial improvement shall require that the building comply with Section R324 of this code.

**§AJ501.3 Flood hazard areas.** In flood hazard areas, alterations that constitute substantial improvement shall require that the building comply with Section R324 of this code.

**§AJ601.5 Flood hazard areas.** In flood hazard areas, alterations that constitute substantial improvement shall require that the building comply with Section R324 of this code.

**§AJ803.2 Flood hazard areas.** Additions and foundations in flood hazard areas shall comply with the following requirements:

1. For horizontal additions that are structurally interconnected to the existing building:

1.1. If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and the addition shall comply with Section R324 of this code.

1.2. If the addition constitutes substantial improvement, the existing building and the addition shall comply with Section R324.

2. For horizontal additions that are not structurally interconnected to the existing building:

2.1. The addition shall comply with Section R324.



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- 2.2. If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and the addition shall comply with Section R324.
3. For vertical additions and all other proposed work that, when combined, constitute substantial improvement, the existing building shall comply with Section R324.
4. For a new, replacement, raised, or extended foundation, if the foundation work and all other proposed work, when combined, constitute substantial improvement, the existing building shall comply with Section R324.

**§AJ901.3 Flood hazard areas.** In flood hazard areas, if all proposed work, including repairs, work required because of a change of occupancy, and alterations, constitutes substantial improvement, then the existing building shall comply with Section R324.

**§AJ1001.4 Flood hazard areas.** If relocated or moved into a flood hazard area, buildings shall comply with Section R324.



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### EXHIBIT D AMENDED AND RESTATED TEXT OF 2010 FCNYS SECTION 610

#### SECTION 610 CARBON MONOXIDE ALARMS

**610.1. General.** Section 610 covers the application, installation, performance and maintenance of carbon monoxide alarms and carbon monoxide detectors, and their components, in new and existing one-and two-family dwellings; multiple single-family dwellings (townhouses); buildings owned as condominiums or cooperatives and containing dwelling units; bed and breakfast dwellings; and other buildings and structures which contain one or more dwelling units, sleeping units or sleeping areas and which are classified, in whole or in part, in one or more of the following occupancy Groups: E, I-1, I-2 (except hospitals), I-4, R-1, R-2, R-3 or R-4. Carbon monoxide alarms (or, where permitted, carbon monoxide detectors) shall be provided in all new and existing buildings and structures described in Section 610.1, without regard to the date of construction of the building or structure and without regard to whether such building or structure shall or shall not have been offered for sale. Carbon monoxide alarms (or, where permitted, carbon monoxide detectors) shall be installed, operated and maintained in accordance with the provisions of Section 610 or, in the alternative, in accordance with the provisions of NFPA 720.

**Exception:** Carbon monoxide alarms and/or carbon monoxide detectors shall not be required in a building or structure that contains no carbon monoxide source.

**610.2. Definitions.** For the purposes of this Section 610, the following terms shall have the following meanings:

**Carbon monoxide alarm.** A single or multiple-station device that has (1) a sensor capable of detecting the presence of carbon monoxide and (2) an alarm that sounds when carbon monoxide is detected.

**Carbon monoxide detector.** A device that (1) has a sensor capable of detecting the presence of carbon monoxide and (2) is connected to an alarm control unit that sounds an alarm when carbon monoxide is detected.

**Carbon monoxide source.** Any appliance, equipment, device or system that may emit carbon monoxide (including, but not limited to, fuel fired furnaces; fuel fired boilers; space heaters with



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pilot lights or open flames; kerosene heaters; wood stoves; fireplaces; and stoves, ovens, dryers, water heaters and refrigerators that use gas or liquid fuel), garages, and other motor vehicle related occupancies.

**Dwelling unit.** A single unit providing complete, independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation. Dwelling units include, but are not limited to, one-family dwellings, each unit in a two-family dwelling, each unit in a multiple single-family dwelling (townhouse), bed and breakfast dwellings, apartments, and dormitory suites having living areas, bedrooms, bathrooms and kitchens.

**Sleeping area.** A room or space that can be used, either on an occasional or permanent basis, for sleeping. Sleeping areas include, but are not limited to, bedrooms and places where children sleep in a daycare facility.

**Sleeping unit.** A room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units. Sleeping units include, but are not limited to, dormitory suites with living areas, bedrooms and bathrooms.

**610.3. Required locations.** Carbon monoxide alarms shall be provided in the locations determined pursuant to Section 610.3.

**Exceptions:**

1. Where coverage at a location is required by more than one provision of Section 610.3, providing one carbon monoxide alarm at such location shall be deemed to satisfy all such provisions.
2. In lieu of a carbon monoxide alarm, a carbon monoxide detector may be provided at any location where coverage is required, provided that such carbon monoxide detector is part of a system that causes an alarm to sound at such location when carbon monoxide is detected at such location.



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### **610.3.1. One- Family Dwellings.**

#### **610.3.1.1. Buildings constructed on or after January 1, 2008.**

**610.3.1.1.1.** A carbon monoxide alarm shall be provided on each story containing a sleeping area, within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.

**610.3.1.1.2.** A carbon monoxide alarm shall be provided on each story that contains a carbon monoxide source.

**610.3.1.2. Buildings constructed prior to January 1, 2008.** A carbon monoxide alarm shall be provided on the lowest story containing a sleeping area, within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.

### **610.3.2. Two-family dwellings, multiple single-family dwellings (townhouses), and buildings owned as condominiums or cooperatives and containing dwelling units.**

#### **610.3.2.1. Buildings constructed on or after January 1, 2008.** Within each dwelling unit:

**610.3.2.1.1.** A carbon monoxide alarm shall be provided on every story containing a sleeping area, within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.

**610.3.2.1.2.** A carbon monoxide alarm shall be provided on every story that contains a carbon monoxide source.

**610.3.2.2. Buildings constructed prior to January 1, 2008.** Within each dwelling unit, a carbon monoxide alarm shall be provided on the lowest story containing a sleeping area, within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.



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**610.3.3. Bed and breakfast dwellings and buildings and structures which (1) contain one or more sleeping areas, (2) are classified in one or more of the following occupancy Groups: E, I-2 (except hospitals), I-4, R-1, R-2, R-3 or R-4, and (3) are not covered by section 610.3.1 or section 610.3.2.**

### **610.3.3.1. Buildings and structures constructed on or after January 1, 2008.**

**610.3.3.1.1. Dwelling units and sleeping units.** Carbon monoxide alarms shall be provided within each dwelling unit and within each sleeping unit at the locations specified in this section 610.3.3.1.1.

**610.3.3.1.1.1.** In a dwelling unit or sleeping unit that contains a carbon monoxide source, a carbon monoxide alarm shall be provided on each story that contains a sleeping area. The carbon monoxide alarm shall be located within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm. In addition, a carbon monoxide alarm shall be provided within each sleeping area that contains a carbon monoxide source.

**610.3.3.1.1.2.** In a dwelling unit or sleeping unit which contains no carbon monoxide source, but which is located (in whole or in part) on the same story as a carbon monoxide source, a carbon monoxide alarm shall be provided on each story that contains a sleeping area. The carbon monoxide alarm shall be located within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.

**610.3.3.1.1.3.** In a dwelling unit or sleeping unit which contains no carbon monoxide source and which is not located (in whole or in part) on the same story as a carbon monoxide source, no carbon monoxide alarm is required.

**610.3.3.1.2. Sleeping areas not located within a dwelling unit.** Carbon monoxide alarms shall be provided within sleeping areas that are not located within a dwelling unit when required by this section 610.3.3.1.2.



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**610.3.3.1.2.1.** A carbon monoxide alarm shall be provided within each sleeping area that contains a carbon monoxide source.

**610.3.3.1.2.2.** A carbon monoxide alarm shall be provided within each sleeping area that is located (in whole or in part) on the same story as a carbon monoxide source.

**610.3.3.1.3. Stories which (1) contain a carbon monoxide source and (2) contain no dwelling unit, sleeping unit or sleeping area.** A carbon monoxide alarm shall be provided on every story which (1) contains a carbon monoxide source and (2) contains no dwelling unit, sleeping unit or sleeping area.

### **610.3.3.2. Buildings and structures constructed prior to January 1, 2008.**

**610.3.3.2.1. Dwelling units and sleeping units.** Carbon monoxide alarms shall be provided within each dwelling unit and within each sleeping unit at the locations specified in this section 610.3.3.2.1.

**610.3.3.2.1.1.** In a dwelling unit or sleeping unit that contains a carbon monoxide source, a carbon monoxide alarm shall be provided on the lowest story that contains a sleeping area. The carbon monoxide alarm shall be located within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm. In addition, a carbon monoxide alarm shall be provided within each sleeping area that contains a carbon monoxide source.

**610.3.3.2.1.2.** In a dwelling unit or sleeping unit which contains no carbon monoxide source, but which is located (in whole or in part) on the same story as a carbon monoxide source, a carbon monoxide alarm shall be provided on the lowest story that contains a sleeping area. The carbon monoxide alarm shall be located within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.



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**610.3.3.2.1.3.** In a dwelling unit or sleeping unit which contains no carbon monoxide source and which is not located (in whole or in part) on the same story as a carbon monoxide source, no carbon monoxide alarm is required.

**610.3.3.2.2. Sleeping areas not located within a dwelling unit.** Carbon monoxide alarms shall be provided within sleeping areas that are not located within a dwelling unit when required by this section 610.3.3.2.2.

**610.3.3.2.2.1.** A carbon monoxide alarm shall be provided within each sleeping area that contains a carbon monoxide source.

**610.3.3.2.2.2.** A carbon monoxide alarm shall be provided within each sleeping area that is located (in whole or in part) on the same story as a carbon monoxide source.

**610.3.3.2.3. Stories which (1) contain a carbon monoxide source and (2) contain no dwelling unit, sleeping unit or sleeping area.** A carbon monoxide alarm shall be provided on every story which (1) contains a carbon monoxide source and (2) contains no dwelling unit, sleeping unit or sleeping area.

### **610.3.4. Buildings and structures classified in Occupancy Group I-1:**

#### **610.3.4.1. Buildings and structures constructed on or after January 1, 2008.**

**610.3.4.1.1.** A carbon monoxide alarm shall be provided on every story containing a sleeping area, within 15 feet of the sleeping area. More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.

**610.3.4.1.2.** A carbon monoxide alarm shall be provided on every story that contains a carbon monoxide source.

**610.3.4.2. Buildings and structures constructed prior to January 1, 2008.** A carbon monoxide alarm shall be provided on every story containing a sleeping area, within 15 feet of the sleeping area.



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More than one carbon monoxide alarm shall be provided where necessary to assure that no sleeping area on such story is more than 15 feet away from a carbon monoxide alarm.

**610.4. New carbon monoxide source.** This section applies when a carbon monoxide source is installed in, or added, or attached to a building or structure after the date of original construction of the building or structure. This section applies without regard to the date of original construction of the building or structure. When a carbon monoxide source is installed in, or added, or attached to a building or structure, the building or structure (with such new carbon monoxide source) shall be evaluated as if such building or structure (with such new carbon monoxide source) were constructed on or after January 1, 2008, and a carbon monoxide alarm shall be provided at each location determined for such building or structure (with such new carbon monoxide source) pursuant to Section 610.3.

**Exception:** In lieu of a carbon monoxide alarm, a carbon monoxide detector may be provided at any location where coverage is required, provided that such carbon monoxide detector is part of a system that causes an alarm to sound at such location when carbon monoxide is detected at such location.

**610.5. Power source.** Carbon monoxide alarms, carbon monoxide detectors, and the alarm control units to which carbon monoxide detectors are connected shall receive their primary power from the building wiring, and shall be equipped with a battery backup system that automatically provides power from one or more batteries when primary power is interrupted. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection.

**Exceptions:**

1. Carbon monoxide alarms and carbon monoxide detectors installed in a building or structure without an electrical power source shall be battery operated.
2. Carbon monoxide alarms and carbon monoxide detectors installed in a building or structure constructed prior to January 1, 2008 may be battery operated, cord-type or direct plug.
3. Carbon monoxide alarms and carbon monoxide detectors installed in a building or structure pursuant to Section 610.4 may be battery operated, cord-type or direct plug.



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4. In the case of a building or structure constructed on or after January 1, 2008 and prior to the effective date of this code, when a carbon monoxide alarm or carbon monoxide detector is provided at a location where coverage was not required by prior versions of the Uniform Code, but where coverage is required by Section 610, such carbon monoxide alarm or carbon monoxide detector may be battery operated, cord-type or direct plug.

**610.6. Equipment.** Carbon monoxide alarms shall be listed and labeled as complying with UL 2034 or CAN/CSA 6.19. Carbon monoxide detectors shall be listed and labeled as complying with UL 2075 and shall meet the sensitivity testing and alarm thresholds of UL 2034 or CAN/CSA 6.19. Carbon monoxide alarms, carbon monoxide detectors and alarm control units shall be installed in accordance with Section 610 and the manufacturer's installation instructions.

**610.6.1. Connection of multiple carbon monoxide alarms and detectors.** When more than one carbon monoxide alarm is required to be installed within an individual dwelling unit, sleeping unit, or sleeping area, all carbon monoxide alarms in such dwelling unit, sleeping unit, or sleeping area shall be interconnected.

**Exception:** Interconnection is not required where battery operated, cord-type or direct plug carbon monoxide alarms and carbon monoxide detectors are permitted.

**610.6.2. Maintenance and testing.** Carbon monoxide alarms, carbon monoxide detectors, and alarm control units shall be maintained in an operative condition at all times. Carbon monoxide alarms, carbon monoxide detectors, and alarm control units shall be periodically tested in accordance with the manufacturer's instructions. The battery or batteries used as the primary or backup power source shall be replaced when low or when otherwise required by the manufacturer's instructions. Carbon monoxide alarms, carbon monoxide detectors, and alarm control units shall be replaced or repaired where defective, and shall be replaced when they cease to operate as intended.

**610.6.3. Disabling of alarms.** No carbon monoxide alarm, carbon monoxide detector, or alarm control unit shall be removed or disabled, except for service, repair or replacement purposes.