



THREE LESS WORRIES.

New Jersey Carbon Monoxide Guidelines

For Occupancies that Contain Fuel-Burning Appliances (FBA) or an Attached Garage with a Door Entering the Building

Overview:

All New Construction: (Effective 12/5/2017)

Uniform Construction Code, Section 915 pages 238 & 239

-Minimum Requirement: Hard Wired 110v with Battery Back Up CO Alarms

Exceptions: When no commercial power is available, battery operated alarms are permitted

Buildings Under Rehabilitation (Effective 12/5/2017)

Applies to Existing Building under Rehabilitation

Uniform Construction Code – Subchapter 6

-Minimum Requirement: Battery Operated or Plug-In Type CO Alarms

Exceptions: Change of Use to I-1, I-2, I-4 or any Group R or classrooms in Group E use the Uniform Construction Code (UCC) must be followed. (Battery Operated and Plug-Ins are prohibited)

Existing Buildings – NJ Uniform Fire Code: (Effective 9/3/2017)

NJ Uniform Fire Code – Subchapter 4

EFFECTIVE DATE: SEPTEMBER 3RD, 2017

-Minimum Requirement: Battery Operated or Plug-In Type CO Alarms

The following are applicable in all cases:

1. CO Detection System installed in accordance with NFPA-720 are acceptable.
2. CO Detection System shall be listed in accordance with UL 2075.
3. CO Alarms shall be manufactured in accordance with UL 2034.
4. CO Alarms shall be installed and maintained in accordance with NFPA-720.
5. Combination fire alarm and carbon monoxide detection systems installed in accordance with NFPA-720 are acceptable.

The Following references were used to create this document:

New Jersey Uniform Fire Code 2006– June 5th, 2017 Update

New Jersey Uniform Construction Code 2015 – June 5th, 2017 Update

Always consult local officials for complete guidance.

For All New Buildings (Effective Dec. 5th, 2017)

Use Group: All Occupancies

Carbon Monoxide Alarm Locations:

1. In every room adjacent to the rooms containing FBAs and every corridor, hall and lobby adjacent to room;
2. In the immediate vicinity of any ventilated shaft, including, but not limited to, stair shafts, elevator shafts, or ventilation shafts on the story of the FBA and
3. In the first area serviced by each main duct leaving an area where the FBA is located and;
4. On any story within 2 stories above or below the story containing the FBA

Use Group: Dwelling Units

Carbon Monoxide Alarm Locations:

1. Immediate vicinity of each sleeping area

Use Group: Sleeping Units

Carbon Monoxide Alarm Locations:

1. Inside sleeping unit(s) when FBA is located inside unit or attached bathroom
2. Inside sleeping unit(s) when served by forced air furnace

Use Group: Group E Occupancies:

Carbon Monoxide Alarm Locations:

1. Inside each classroom

Use Group: Other Occupancies:

Carbon Monoxide Alarm Locations:

1. Carbon monoxide detection equipment shall be installed in other occupancies. Systems using detectors shall have a distinct visual and audible notification at an approved location. When alarms are installed in lieu of detectors, they shall be located such that the audible signal is not less than 15db above the average ambient sound level.

EXCEPTIONS

1. Adverse Ambient Conditions:
 - a. Repair Garages
 - b. Immediate area of large-drop battery charging
 - c. Unconditioned Space(s) where detectors or alarms may be subject to ambient conditions outside its operating range. (i.e. temperature, dirt, etc.)



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- d. Occupiable space(s) not connected by duct work or ventilation shafts to any room with FBAs or attached garage provided the building has a common area CO Detection System and all common area detectors are connected to an approved supervisory station or other approved local visual and auditory supervisory signal; and provided an individual CO alarm is located:
 - i. In every room adjacent to the rooms containing FBAs, and every corridor, hall and lobby adjacent to such room.
 - ii. In the immediate vicinity of any ventilated shaft, including but not limited to stair shafts, elevator shafts, or ventilation shafts on the story of the FBA
 - iii. In the first area serviced by each main duct leaving an area where FBA is located and;
2. Occupied Space(s) located more than 1 story above or below floor with fuel-burning appliance or an attached garage
3. Occupied Space(s) is not connected by duct or ventilation shafts to any room containing fuel-burning appliance or an attached garage; and the building has a common area carbon monoxide alarm system with common area detectors connected to an approved supervisory station or other approved local visual and audible supervisory signal
4. Automatic transmission is not required in Group E occupancies with load of 30 people or less.

Existing Buildings – Renovations (Effective Dec. 5th, 2017)

Use Group: All Occupancies

Carbon Monoxide Alarm Locations:

1. In every room adjacent to the rooms containing FBAs and every corridor, hall and lobby adjacent to room;
2. In the immediate vicinity of any ventilated shaft, including, but not limited to, stair shafts, elevator shafts, or ventilation shafts on the story of the FBA and
3. In the first area serviced by each main duct leaving an area where the FBA is located and;
4. On any story within 2 stories above or below the story containing the FBA

Use Group: Dwelling Units

Carbon Monoxide Alarm Locations:

1. Immediate vicinity of each sleeping area

Use Group: Sleeping Units

Carbon Monoxide Alarm Locations:

1. Inside sleeping unit(s) when FBA is located inside unit or attached bathroom
2. Inside sleeping unit(s) when served by forced air furnace

Use Group: Group E Occupancies:

Carbon Monoxide Alarm Locations:

1. Inside each classroom

Use Group: Other Occupancies:

Carbon Monoxide Alarm Locations:

1. Carbon monoxide detection equipment shall be installed in other occupancies. Systems using detectors shall have a distinct visual and audible notification at an approved location. When alarms are installed in lieu of detectors, they shall be located such that the audible signal is not less than 15db above the average ambient sound level.



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EXCEPTIONS

1. Adverse Ambient Conditions:

- a. Repair Garages
 - b. Immediate area of large-drop battery charging
 - c. Unconditioned Space(s) where detectors or alarms may be subject to ambient conditions outside its operating range. (i.e. temperature, dirt, etc.)
 - d. Occupiable space(s) not connected by duct work or ventilation shafts to any room with FBAs or attached garage provided the building has a common area CO Detection System and all common area detectors are connected to an approved supervisory station or other approved local visual and auditory supervisory signal; and provided an individual CO alarm is located:
 - i. In every room adjacent to the rooms containing FBAs, and every corridor, hall and lobby adjacent to such room.
 - ii. In the immediate vicinity of any ventilated shaft, including but not limited to stair shafts, elevator shafts, or ventilation shafts on the story of the FBA
 - iii. In the first area serviced by each main duct leaving an area where FBA is located and;
2. Occupied Space(s) located more than 1 story above or below floor with fuel-burning appliance or an attached garage
3. Occupied Space(s) is not connected by duct or ventilation shafts to any room containing fuel-burning appliance or an attached garage; and the building has a common area carbon monoxide alarm system with common area detectors connected to an approved supervisory station or other approved local visual and audible supervisory signal
4. Change of use to I-1, I-2, I-4 or any Group R or classrooms in Group E the new Building Requirements of the Uniform Construction Code must be used and followed (Battery Operated or Plug-Ins are prohibited)
5. Automatic transmission is not required in Group E occupancies with load of 30 people or less



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All Existing Buildings (Effective Sept. 3rd, 2017):

Use Group: I-1, R-1, R-2

Carbon Monoxide Alarm Locations:

1. Immediate vicinity of each sleeping area;
2. Every room adjacent to a room containing a Fuel-Burning Appliance (FBA)
3. Every corridor, hall or lobby adjacent to a room containing the FBA
4. Immediate vicinity of any ventilated shaft, including but not limited to, stair shafts, elevator shafts, ventilation shafts on the story containing the FBA; and
5. On any story within 2 stories above or below story containing the FBA

EXCEPTIONS

1. 1. Adverse Ambient Conditions:
 - a. Repair Garages
 - b. Immediate area of large-drop battery charging
 - c. Unconditioned Space(s) where detectors or alarms may be subject to ambient conditions outside its operating range. (i.e. temperature, dirt, etc.)
 - d. Occupiable space(s) not connected by duct work or ventilation shafts to any room with FBAs or attached garage provided the building has a common area CO Detection System and all common area detectors are connected to an approved supervisory station or other approved local visual and auditory supervisory signal; and provided an individual CO alarm is located:
 - i. In every room adjacent to the rooms containing FBAs, and every corridor, hall and lobby adjacent to such room.
 - ii. In the immediate vicinity of any ventilated shaft, including but not limited to stair shafts, elevator shafts, or ventilation shafts on the story of the FBA
 - iii. In the first area serviced by each main duct leaving an area where FBA is located and;
 - iv. On any story within 2 stories above or below the story containing the FBA