

1301:7-7-141301:7-7-33 Fire safety during construction and demolition.

(A) Section **14013301** General

(1) **1401.13301.1** Scope. This rule shall apply to structures in the course of construction, alteration or demolition, including those in underground locations. Compliance with NFPA 241 as listed in rule 1301:7-7-471301:7-7-80 of the Administrative Code is required for items not specifically addressed herein.

(2) **1401.23301.2** Purpose. This rule prescribes minimum safeguards for construction, alteration and demolition operations to provide reasonable safety to life and property from fire during such operations.

(B) Section **14023302** Definitions

(1) **1402.13302.1** Terms defined in rule 1301:7-7-02 of the Administrative Code. Words and terms used in this rule and defined in rule 1301:7-7-02 of the Administrative Code shall have the meanings ascribed to them as defined therein.

(C) Section **14033303** Temporary heating equipment

(1) **1403.13303.1** Listed. Temporary heating devices shall be listed and labeled in accordance with the mechanical code or the International Fuel Gas Code as listed in rule 1301:7-7-471301:7-7-80 of the Administrative Code. Installation, maintenance and use of temporary heating devices shall be in accordance with the terms of the listing.

(2) **1403.23303.2** Oil-fired heaters. Oil-fired heaters shall comply with paragraph (C)(603) of rule 1301:7-7-06 of the Administrative Code.

(3) **1403.33303.3** LP-gas heaters. Fuel supplies for liquefied-petroleum gas-fired heaters shall comply with rule ~~1301:7-7-38~~1301:7-7-61 of the Administrative Code and the International Fuel Gas Code as listed in rule 1301:7-7-471301:7-7-80 of the Administrative Code.

(4) **1403.43303.4** Refueling. Refueling operations for liquid-fueled equipment or appliances shall be conducted in accordance with paragraph (E)(~~3405~~5705) of rule ~~1301:7-7-34~~1301:7-7-57 of the Administrative Code. The equipment or appliance shall be allowed to cool prior to refueling.

(5) **1403.53303.5** Installation. Clearance to combustibles from temporary heating devices shall be maintained in accordance with the labeled equipment. When in operation, temporary heating devices shall be fixed in place and protected from damage, dislodgment or overturning in accordance with the manufacturer's instructions.

(6) **1403.63303.6** Supervision. The use of temporary heating devices shall be supervised and maintained only by competent personnel.

(D) Section **14043304** Precautions against fire

(1) **1404.13304.1** Smoking. Smoking shall be prohibited except in approved areas. Signs shall be posted in accordance with paragraph (J)(310) of rule 1301:7-7-03 of the Administrative Code. In approved areas where smoking is permitted, approved ashtrays shall be provided in accordance with paragraph (J)(310) of rule 1301:7-7-03 of the Administrative Code.

(2) ~~1404.2 Waste disposal. Combustible debris shall not be accumulated within buildings. Combustible debris, rubbish and waste material shall be removed from buildings at the end of each shift of work. Combustible debris, rubbish and waste material shall not be disposed of by burning on the site unless approved.~~**3304.2 Combustible debris, rubbish and waste.** Combustible debris, rubbish and waste material shall comply with the requirements of paragraphs (D)(2)(a)(3304.2.1) to (D)(2)(d)(3304.2.4) of this rule.

(a) 3304.2.1 Combustible waste material accumulation. Combustible debris, rubbish and waste material shall not be accumulated within buildings.

(b) 3304.2.2 Combustible waste material removal. Combustible debris, rubbish and water material shall be removed from buildings at the end of each shift of work.

(c) 3304.2.3 Rubbish containers. Where rubbish containers with a capacity exceeding 5.33 cubic feet (40 gallons) (0.15 m³) are used for temporary storage of combustible debris, rubbish and waste material, they shall have tight-fitting or self-closing lids. Such rubbish containers shall be constructed entirely of materials that comply with either of the following:

(i) Noncombustible materials.

(ii) Materials that meet a peak rate of heat release not exceeding 300 kW/m² when tested in accordance with ASTM E 1354 as listed in rule 1301:7-7-80 of the Administrative Code at an incident heat flux of 50 kW/m² in the horizontal orientation.

(d) 3304.2.4 Spontaneous ignition. Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposal container.

(3) 3304.3 Burning of combustible debris, rubbish and waste. Combustible debris, rubbish and waste material shall not be disposed of by burning on the site unless approved.

~~(3) 1404.3~~(4) 3304.4 Open burning. Open burning shall comply with paragraph (G)(307) of rule 1301:7-7-03 of the Administrative Code.

~~(4) 1404.4~~3304.4 Spontaneous ignition. Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposal container.

(5) ~~1404.5~~3304.5 Fire watch. ~~When~~Where required by the fire code official for building demolition, or building construction during working hours that is hazardous in nature, qualified personnel shall be provided to serve as an on-site fire watch. Fire watch personnel shall be provided with ~~at least~~not less than one approved means for notification of the fire department and their sole duty shall be to perform constant patrols and watch for the occurrence of fire.

(6) ~~1404.6~~3304.6 Cutting and welding. Operations involving the use of cutting and welding shall be done in accordance with ~~rule 1301:7-7-26~~1301:7-7-35 of the Administrative Code.

(7) ~~1404.7~~3304.7 Electrical. Temporary wiring for electrical power and lighting installations used in connection with the construction, alteration or demolition of buildings, structures, equipment or similar activities shall comply with NFPA 70 as listed in rule ~~1301:7-7-47~~1301:7-7-80 of the Administrative Code.

(E) Section ~~1405.3~~3305 Flammable and combustible liquids

(1) ~~1405.1~~3305.1 Storage of flammable and combustible liquids. Storage of flammable and combustible liquids shall be in accordance with paragraph (D)~~(3404.5704)~~ of rule ~~1301:7-7-34~~1301:7-7-57 of the Administrative Code.

(2) ~~1405.2~~3305.2 Class I and Class II liquids. The storage, use and handling of flammable and combustible liquids at construction sites shall be in accordance with paragraph (F)(2)~~(3406.25706.2)~~ of rule ~~1301:7-7-34~~1301:7-7-57 of the Administrative Code. Ventilation shall be provided for operations involving the application of materials containing flammable solvents.

(3) ~~1405.3~~3305.3 Housekeeping. Flammable and combustible liquid storage areas shall be maintained clear of combustible vegetation and waste materials. Such storage areas shall not be used for the storage of combustible materials.

(4) ~~1405.4~~3305.4 Precautions against fire. Sources of ignition and smoking shall be prohibited in flammable and combustible liquid storage areas. Signs shall be posted in accordance with paragraph (J)(310) of rule 1301:7-7-03 of the Administrative Code.

(5) ~~1405.5~~3305.5 Handling at point of final use. Class I and II liquids shall be kept in approved safety containers.

(6) ~~1405.6~~3305.6 Leakage and spills. Leaking vessels shall be immediately repaired or taken out of service and spills shall be cleaned up and disposed of properly.

(F) Section ~~1406.3~~3306 Flammable gases

(1) ~~1406.1~~3306.1 Storage and handling. The storage, use and handling of flammable gases shall comply with rule ~~1301:7-7-35~~1301:7-7-58 of the Administrative Code.

(2) ~~3306.2~~ **Cleaning with flammable gas.** Flammable gases shall not be used to clean or remove debris from piping open to the atmosphere.

(a) ~~3306.2.1~~ **Pipe cleaning and purging.** The cleaning and purging of flammable gas piping systems, including cleaning new or existing piping systems, purging piping systems into service and purging piping systems out of service, shall comply with NFPA 56 as listed in rule ~~1301:7-7-80~~ of the Administrative Code.

Exceptions:

1. Compressed gas piping systems other than fuel gas piping systems where in accordance with rule ~~1301:7-7-53~~ of the Administrative Code.

2. Piping systems regulated by the International Fuel Gas Code as listed in rule ~~1301:7-7-80~~ of the Administrative Code.

3. Liquefied petroleum gas systems in accordance with rule ~~1301:7-7-61~~ of the Administrative Code.

(G) Section ~~14073307~~ Explosive materials

(1) ~~1407.13307.1~~ **Storage and handling.** Explosive materials shall be stored, used and handled in accordance with rule ~~1301:7-7-33~~1301:7-7-56 of the Administrative Code.

(2) ~~1407.23307.2~~ **Supervision.** Blasting operations shall be conducted in accordance with rule ~~1301:7-7-33~~1301:7-7-56 of the Administrative Code.

(3) ~~1407.33307.3~~ **Demolition using explosives.** Approved fire hoses for use by demolition personnel shall be maintained at the demolition site whenever explosives are used for demolition. Such fire hoses shall be connected to an approved water supply and shall be capable of being brought to bear on post-detonation fires anywhere on the site of the demolition operation.

(H) Section ~~14083308~~ Owner's responsibility for fire protection

(1) ~~1408.13308.1~~ **Program superintendent.** The owner shall designate a person to be the fire prevention program superintendent who shall be responsible for the fire prevention program and ensure that it is carried out through completion of the project. The fire prevention program superintendent shall have the authority to enforce the provisions of this rule and other provisions as necessary to secure the intent of this rule. Where guard service is provided, the superintendent shall be responsible for the guard service.

(2) ~~1408.23308.2~~ **Prefire plans.** The fire prevention program superintendent shall develop and maintain an approved prefire plan in cooperation with the fire chief. The fire chief and the fire code official shall be notified of changes affecting the utilization of information contained in such prefire plans.

(3) ~~1408.33308.3~~ **Training.** Training of responsible personnel in the use of fire protection equipment shall be the responsibility of the fire prevention program superintendent.

(4) ~~1408.43308.4~~ **Fire protection devices.** The fire prevention program superintendent shall determine that all fire protection equipment is maintained and serviced in accordance with this code. The quantity and type of fire protection equipment shall be approved.

(5) ~~1408.53308.5~~ **Hot work operations.** The fire prevention program superintendent shall be responsible for supervising the permit system for hot work operations in accordance with rule ~~1301:7-7-26~~1301:7-7-35 of the Administrative Code.

(6) ~~1408.63308.6~~ **Impairment of fire protection systems.** Impairments to any fire protection system shall be in accordance with paragraph (A)(901) of rule ~~1301:7-7-09~~ of the Administrative Code.

(7) ~~1408.73308.7~~ **Temporary covering of fire protection devices.** Coverings placed on or over fire protection devices to protect them from damage during construction processes shall be immediately removed upon the completion of the construction processes in the room or area in which the devices are installed.

(I) Section ~~14093309~~ Fire reporting

(1) **1409.13309.1 Emergency telephone.** Readily accessible emergency telephone facilities shall be provided in an approved location at the construction site. The street address of the construction site and the emergency telephone number of the fire department shall be posted adjacent to the telephone.

(J) **Section 14103310 Access for fire fighting**

(1) **1410.13310.1 Required access.** Approved vehicle access for fire fighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet (30 480 mm) of temporary or permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available.

(2) **1410.23310.2 Key boxes.** Key boxes shall be provided as required by *rule 1301:7-7-05 of the Administrative Code*.

(K) **Section 14113311 Means of egress**

(1) [B] **1411.13311.1 Stairways required.** Where a building has been constructed to a building height of 50 feet (15 240 mm) or four stories, or where an existing building exceeding 50 feet (15 240 mm) in building height is altered, ~~at least~~**not less than** one temporary lighted stairway shall be provided unless one or more of the permanent stairways are erected as the construction progresses.

(2) **1411.23311.2 Maintenance.** Required means of egress shall be maintained during construction and demolition, remodeling or alterations and additions to any building.

Exception: Approved temporary means of egress systems and facilities.

(L) **Section 14123312 Water supply for fire protection**

(1) **1412.13312.1 When required.** An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible material arrives on the site.

(M) **Section 14133313 Standpipes**

(1) **1413.13313.1 Where required.** In buildings required to have standpipes by *paragraph (E)(3)(a)(905.3.1) of rule 1301:7-7-09 of the Administrative Code*, not less than one standpipe shall be provided for use during construction. Such standpipes shall be installed ~~when the progress of prior to~~ construction ~~is not more than~~**exceeding** 40 feet (12 192 mm) in height above the lowest level of fire department vehicle access. Such standpipe shall be provided with fire department hose connections at accessible locations adjacent to usable ~~stairs~~**stairways**. Such standpipes shall be extended as construction progresses to within one floor of the highest point of construction having secured decking or flooring.

(2) **1413.23313.2 Buildings being demolished.** Where a building is being demolished and a standpipe is existing within such a building, such standpipe shall be maintained in an operable condition so as to be available for use by the fire department. Such standpipe shall be demolished with the building but shall not be demolished more than one floor below the floor being demolished.

(3) **1413.33313.3 Detailed requirements.** Standpipes shall be installed in accordance with the provisions of *paragraph (E)(905) of rule 1301:7-7-09 of the Administrative Code*.

Exception: Standpipes shall be either temporary or permanent in nature, and with or without a water supply, provided that such standpipes comply with the requirements of *paragraph (E)(905) of rule 1301:7-7-09 of the Administrative Code* as to capacity, outlets and materials.

(N) **Section 14143314 Automatic sprinkler system**

(1) **1414.13314.1 Completion before occupancy.** In buildings where an automatic sprinkler system is required by this code or the *building code as listed in rule 1301:7-7-471301:7-7-80 of the Administrative Code*, it shall be unlawful to occupy any portion of a building or structure until the automatic sprinkler system installation has been tested and approved, except as provided in *paragraph (E)(3)(d)(105.3.4) of rule 1301:7-7-01 of the Administrative Code*.

(2) **1414.23314.2 Operation of valves.** Operation of sprinkler control valves shall be allowed only by properly authorized personnel and shall be accompanied by notification of duly designated parties. ~~When~~**Where** the sprinkler protection is being regularly turned off

and on to facilitate connection of newly completed segments, the sprinkler control valves shall be checked at the end of each work period to ascertain that protection is in service.

(O) Section ~~14153315~~ **Portable fire extinguishers**

(1) ~~1415.13315.1~~ **Where required.** Structures under construction, alteration or demolition shall be provided with not less than one approved portable fire extinguisher in accordance with *paragraph (F)(906) of rule 1301:7-7-09 of the Administrative Code* and sized for not less than ordinary hazard as follows:

(a) At each stairway on all floor levels where combustible materials have accumulated.

(b) In every storage and construction shed.

(c) Additional portable fire extinguishers shall be provided where special hazards exist including, but not limited to, the storage and use of flammable and combustible liquids.

(P) Section ~~14163316~~ **Motorized equipment**

(1) ~~1416.13316.1~~ **Conditions of use.** Internal-combustion-powered construction equipment shall be used in accordance with all of the following conditions:

(a) Equipment shall be located so that exhausts do not discharge against combustible material.

(b) Exhausts shall be piped to the outside of the building.

(c) Equipment shall not be refueled while in operation.

(d) Fuel for equipment shall be stored in an approved area outside of the building.

(Q) Section ~~14173317~~ **Safeguarding roofing operations**

(1) ~~1417.13317.1~~ **General.** Roofing operations utilizing heat-producing systems or other ignition sources shall be conducted in accordance with *paragraphs (Q)(2)(~~1417.23317.2~~) and (Q)(3)(~~1417.33317.3~~) of this rule and rule ~~1301:7-7-261301:7-7-35~~ of the Administrative Code.*

(2) ~~1417.23317.2~~ **Asphalt and tar kettles.** Asphalt and tar kettles shall be operated in accordance with *paragraph (C)(303) of rule 1301:7-7-03 of the Administrative Code.*

(3) ~~1417.33317.3~~ **Fire extinguishers for roofing operations.** Fire extinguishers shall comply with *paragraph (F)(906) of rule 1301:7-7-09 of the Administrative Code.* There shall be not less than one multipurpose portable fire extinguisher with a minimum 3-A 40-B:C rating on the roof being covered or repaired.