Indiana Fire Code

2008 Edition
Title 675 IAC 22-2.4

Indiana Fire Code Amendments

Rule 2.4. Indiana Fire Code, 2008 Edition

675 IAC 22-2.4-1 Adoption by reference
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 1. That certain document being titled the International Fire Code, 2006 Edition, first printing, as published by the International Code Council, Inc., 500 New Jersey Avenue, NW, Sixth Floor, Washington, D.C. 20001-2070, is hereby adopted by reference as if fully set out in this rule save and except those revisions made in sections 2 through 49 of this rule. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-1; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-2 Chapter 1; administration
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 2. Chapter 1 is amended as follows:
(1) Amend Section 101.1 by deleting it in its entirety and substituting the following: 101.1 Title; Availability. This rule shall be known as the 2008 Indiana Fire Code and shall be published, except incorporated documents, by the Department of Homeland Security for general distribution and use under that title. Wherever the term "this code" is used throughout this rule, it shall mean the 2008 Indiana Fire Code. This rule and incorporated documents therein are available to review and as reference at the Department of Homeland Security, Code Services Section, Indiana Government Center-South, 302 West Washington Street, Room W246, Indianapolis, Indiana 46204.
(2) Amend Section 101.2 by deleting it in its entirety and substituting the following: The provisions of this code shall apply to existing conditions as well as to conditions arising after the adoption thereof. Buildings, systems, and uses legally in existence at the adoption of this code shall be permitted to continue so long as they are maintained in a condition that is equivalent to the quality and fire resistive characteristics that existed when the building was constructed, altered, added to, or repaired.
(3) Amend Section 101.3 by deleting the text in its entirety and substituting the following: 101.3 Intent. The intent of this code is to prescribe maintenance, new construction requirements, and operational rules for the safeguarding, to a reasonable degree, of life and property from the hazards of fire or explosion arising from the storage, handling, or use of substances, materials, and devices.
(4) Delete Sections 102.1, 102.2, 102.3, 102.4, 102.5, 102.7, 102.8, and 102.9 in their entirety without substitution.
(5) Amend Section 102.6 by deleting the text in its entirety and substituting the following: 102.6 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 45, and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of Chapter 45 and the standards directly adopted by the Commission, the standards adopted by the Commission shall govern.
(6) Delete Section 103 in its entirety without substitution.
(7) Delete Sections 104.1 through 104.6 in their entirety without substitution.
(8) Amend Section 104.7 by deleting it in its entirety and substituting the following: 104.7 Approval. Wherever in this code the State Fire Marshal, the Division of Fire and Building Safety, the chief of the fire department, or the code official are authorized to approve any location, method, material, system, or product in achieving compliance with this code, that decision shall be based on the following:
(1) Investigation or tests conducted by recognized authorities; or
(2) Investigation or tests conducted by technical or scientific organizations; or
(3) Accepted principles.
The investigation, tests, or principles shall establish that the materials, equipment, and types of construction are safe for their intended purpose.
(9) Delete Section 104.7.1 in its entirety without substitution.

(10) Amend Section 104.7.2 by deleting the second sentence and substituting the following: The opinion and report shall be prepared by a design professional, as defined in 675 IAC 12-6-2(d) and shall analyze the fire safety properties of the design, operation, or use of the building or premises and the facilities and appurtenances situated thereon to recommend necessary changes.
(11) Amend Section 104.7.2 by deleting the last sentence without substitution.
(12) Delete Sections 104.8 through 104.10.1 without substitution.
(13) Amend Section 104.11 by deleting ", in the judgment of the fire chief," in the last sentence without substitution.
(14) Delete Section 105 in its entirety without substitution.
(15) Delete Section 106 in its entirety without substitution.
(16) Delete Section 107.1 in its entirety without substitution.
(17) Amend Section 107.2.1 by deleting the text after "times" without substitution.
(18) Amend Section 107.2.2 by deleting the text and substituting the following: Written records of maintenance, tests, and inspections shall be maintained on the premises where the equipment is located or at a corporate central office and shall be made immediately available to the inspection authority on request.
(19) Delete Sections 108 through 111 in their entirety without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-2; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-3 Chapter 2; definitions

Authority: IC 22-13-2-2

Affected: IC 10-19-2; IC 22-12-2-1; IC 22-12-2-4; IC 22-12-7; IC 22-13; IC 22-14; IC 25-4; IC 25-31; IC 36-7-2-9; IC 36-8-17-9

Sec. 3. Chapter 2 is amended as follows:
(1) Amend Section 201.3 by deleting the text in its entirety and substituting as follows: Where terms are not defined in this code and are defined in the Indiana Building Code (675 IAC 13), Indiana Electrical Code (675 IAC 17), Indiana Fuel Gas Code (675 IAC 25), Indiana Mechanical Code (675 IAC 18), or Indiana Plumbing Code (675 IAC 16), such terms shall have the meanings ascribed to them as in those codes.
(2) Amend Section 202 by adding or amending the following definitions:

(A) ACCESSIBLE means capable of being reached safely and quickly for operation repair or inspection without requiring those for whom ready access is requisite to climb over or remove obstacles, or to resort to the use of portable access equipment.
(B) Amend APPROVED by deleting the text and substituting the following: APPROVED means as to materials, equipment, design, and types of construction, acceptance by the code official by one (1) of the following methods:

(i) Investigation or tests conducted by recognized authorities; or
(ii) Investigation or tests conducted by technical or scientific organizations; or
(iii) Accepted principles.

The investigation, tests, or principles shall establish that the materials, equipment, and types of construction are safe for the intended purpose.
(C) AUTHORITY HAVING JURISDICTION; See Code Official.
(D) AUTOMOTIVE SERVICE STATION means MOTOR FUEL DISPENSING FACILITY. See Section 2202.1.
(E) BUILDING CODE means the Indiana Building Code.
(F) BUILDING OFFICIAL; see Code Official.
(G) CODE OFFICIAL means the division of fire and building safety, the local building official as authorized under IC 36-7-2-9 and local ordinance, or the fire department as authorized under IC 36-8-17-9.
(H) COMMISSION means the Indiana Fire Prevention and Building Safety Commission as set forth at IC 22-12-2-1.
(I) COMPATIBLE means approved equipment that functions effectively with other approved

equipment within an alarm system.
(J) CONSTRUCTION DOCUMENTS, delete without substitution.
(K) CONTROL UNIT means a combination of equipment that contains the primary and secondary power supplies, receives signals from initiating devices, transmits signals to signaling devices, and electrically supervises the system circuitry.
(L) DIVISION OF FIRE AND BUILDING SAFETY means the Division of Fire and Building Safety of the Indiana Department of Homeland Security created pursuant to IC 10-19-2.
(M) Amend DWELLING UNIT by deleting the text and substituting the following: Means any building or portion thereof that contains living facilities, including provisions for sleeping, eating, cooking, and sanitation, as required by this code, for not more than one (1) family, or congregate resident for sixteen (16) or fewer persons.
(N) ELECTRICAL CODE means the Indiana Electrical Code in effect in Indiana at the time of construction, remodeling, alteration, addition, or repair of the structure.
(O) Amend FACILITY by deleting the text and substituting the following: Means a Class 1 structure as defined in IC 22-12-1-4.
(P) Delete FIRE ALARM in its entirety without substitution.
(Q) Amend FIRE ALARM SYSTEM by deleting the text and substituting the following: Means a combination of approved equipment that with operation of an alarm initiating device produces an alarm signal.
(R) FIRE CODE means the Indiana Fire Code.
(S) FLAME RESISTANT MATERIAL means material that has been modified in its chemical composition by impregnation, coating, or has inherent composition that makes the material resistant to ignition and combustion when exposed to a small ignition source.
(T) FLAME RETARDANT means an approved chemical, chemical compound, or mixture that, when applied in an approved manner to any fabric or other material, will render such fabric or material incapable of supporting combustion.
(U) HOTELS AND MOTELS means buildings or structures kept, maintained, used, advertised, or held out to the public as inns or places where sleeping accommodations are furnished for hire for transient guests.
(V) ICC ELECTRICAL CODE means the INDIANA ELECTRICAL CODE (675 IAC 17).
(W) INDIANA BUILDING CODE means the rules adopted at 675 IAC 13 in effect in Indiana at the time of construction, remodeling, alteration, addition, or repair of the structure.
(X) INDIANA FIRE CODE means the rules adopted at 675 IAC 22 in effect in Indiana at the time of inspection by the inspection authority or, with respect to construction required to be filed under 675 IAC 12-6, 675 IAC 22 in effect at the time of construction, remodeling, alteration, addition, or repair of the structure.
(Y) INSPECTION AUTHORITY; See Code Official.
(Z) INDIANA ELECTRICAL CODE means the rules adopted at 675 IAC 17 in effect in Indiana at the time of construction, remodeling, alteration, addition, or repair of the structure.
(AA) INDIANA MECHANICAL CODE (IMC) means the rules adopted at 675 IAC 18 in effect in Indiana at the time of construction, remodeling, alteration, addition, or repair of the structure.
(BB) INDIANA PLUMBING CODE (IPC) means the rules adopted at 675 IAC 13, or the applicable rules of the predecessor to the commission, in effect in Indiana at the time of construction, remodeling, alteration, addition, or repair of the structure.
(CC) INTERNATIONAL BUILDING CODE means the Indiana Building Code.
(DD) INTERNATIONAL FIRE CODE means the Indiana Fire Code.
(EE) INTERNATIONAL FUEL GAS CODE means the Indiana Fuel Gas Code.
(FF) INTERNATIONAL MECHANICAL CODE means the Indiana Mechanical Code.
(GG) INTERNATIONAL PLUMBING CODE means the Indiana Plumbing Code.
(HH) Amend LABELED by deleting the text and substituting the following: Means equipment or materials to which has been attached a label, symbol, or other identifying mark of an organization engaged in product evaluation, that maintains periodic inspection of production of labeled

equipment or materials, and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.
(II) Amend LISTED by deleting the text and substituting the following: Means equipment or materials included in a list published by an organization engaged in product evaluation that maintains periodic inspection of production of listed equipment or materials and whose listing states either that the equipment or material meets appropriate standards or has been tested and found suitable for use in a specified manner.
(JJ) MARINE SERVICE STATION means MARINE MOTOR FUEL DISPENSING FACILITY. See Section 2202.1.
(KK) MECHANICAL CODE means the Indiana Mechanical Code in effect in Indiana at the time of construction, remodeling, alteration, addition, or repair of a structure.
(LL) NFPA 70, National Electrical Code means the Indiana Electrical Code (675 IAC 17).
(MM) NORMAL TEMPERATURE AND PRESSURE (NTP). See Section 2702.1.
(NN) Amend OCCUPANCY CLASSIFICATION by deleting the text and substituting the following: Occupancy classification shall be as specified in the Building Code in effect at the time of construction, alteration, or change of occupancy.
(OO) PLUMBING CODE means the Indiana Plumbing Code (675 IAC 13 or the applicable rules of the predecessor to the commission) in effect in Indiana at the time of construction, remodeling, alteration, addition, or repair of the structure.
(PP) QUALIFIED INDIVIDUAL means a person who has successfully completed instruction related to the equipment being installed, serviced, or repaired.
(QQ) Amend REGISTERED DESIGN PROFESSIONAL by deleting the text and substituting the following: Means an architect who is registered under IC 25-4 or professional engineer registered under IC 25-31. If a registered design professional is not required by 675 IAC 12-6 or 675 IAC 15, then it means the owner.
(RR) SEASONALLY OCCUPIED DWELLINGS means hotels and motels open to the public for occupancy by guests only during any period of time between April 15 and October 15 each year.
(SS) SINGLE LEVEL DWELLING means all single level (no more than one (1) level above ground) hotels and motels that have no interior corridors and whose individual rooms have exterior exits.
(TT) SERVICING FIRE DEPARTMENT; See CODE OFFICIAL.
(UU) SPECIAL AMUSEMENT BUILDING by deleting the text and inserting "See Indiana Building code".
(VV) SPRAY AREA means an area in which quantities of flammable vapors or combustible residues, dusts, or deposits are present due to the operation of spraying processes.
(WW) SPRAY BOOTH means a mechanically ventilated appliance of varying dimensions and construction provided to enclose or accommodate a spraying operation and to confine and limit the escape of spray vapor and residue and to exhaust it safely.
(XX) SPRAY ROOM means a room designed to accommodate spraying operations complying with the building code requirements for a Group H, Division 2 Occupancy.
(YY) STORY means that portion of a building included between the upper surface of any floor and the upper surface of the floor next above, except that the topmost story shall be that portion of a building included between the upper surface of the topmost floor and the ceiling or roof above. If the finished floor level directly above a usable or unused under-floor space is more than six (6) feet above grade as defined herein for more than fifty (50) percent of the total perimeter or is more than twelve (12) feet above grade as defined herein at any point, such usable or unused under-floor space shall be considered as a story.
(ZZ) TRAINED means one who has undergone the instructions necessary to design, install, and perform the maintenance and recharge service.
(AAA) TRANSIENT means the use of an R-1 Occupancy by an individual for less than thirty (30) days.

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675 IAC 22-2.4-4 Chapter 3; general precautions against fire

Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 4. Chapter 3 is amended as follows:

(1) Delete Section 301.2 in its entirety without substitution.

(2) Amend Section 304.1.2 by deleting the last sentence in its entirety without substitution.

(3) Amend Section 304.2 by deleting the text and substituting the following: Storage of combustible rubbish shall not produce conditions that will create a fire hazard that endangers the safety of persons or property.

(4) Amend Section 307.1.1 by deleting the text and substituting the following: Discontinuance. The fire chief is authorized to require open burning be immediately discontinued if such open burning constitutes a hazardous condition.

(5) Amend Section 307.2 by deleting the text and substituting the following: Notification. Prior to commencement of open burning, the fire department having jurisdiction shall be notified.

(6) Amend Section 307.2.1 by deleting the text and substituting the following: Material restrictions. Open burning of rubbish is prohibited.

(7) Delete Section 307.3 in its entirety without substitution.

(8) Amend Section 307.5 by deleting the text and substituting the following: Burning material shall be constantly attended by a person knowledgeable in the use of the fire-extinguishing equipment required by this section and familiar with any limitations that restrict open burning. An attendant shall supervise the burning material until the fire has been extinguished.

(9) Amend Section 308.3 by deleting "obtaining a permit in accordance with Section 105.6" and substituting "notifying the fire department having jurisdiction".

(10) Amend Section 308.3.1.1 by deleting the text between "having an LP gas container and LP-gas capacity", adding a number "1" before the exception, and adding a second exception: "2. Where buildings, balconies, and decks are protected by an automatic sprinkler system.".

(11) Amend Section 308.3.5 by deleting "in the opinion of the code official, adequate" and substituting "approved".

(12) Amend Section 308.3.7 as follows:

(A) Delete the section heading "Group A Occupancies" and substitute "Affected Occupancies".

(B) In the first sentence, delete "a Group A Occupancy" and substitute "any occupancy other than Group R-2, apartment houses, convents, fraternities and sororities, hotels, monasteries, motels, and vacation time share properties, Group R-3 and Group R-4 occupancies".

(13) Amend Section 308.4.1 by deleting the text and substituting the following: Prior to using a torch or flame-producing device to remove paint from a structure, the fire department having jurisdiction shall be notified.

(14) Amend Section 308.5 by deleting all the text after "hazardous fire areas" in the first sentence and substituting "when approved".

(15) Amend Section 310.2 by deleting the text and substituting the following: Whenever smoking constitutes a fire hazard in any area of piers, wharfs, warehouses, stores, industrial plants, institutions, schools, places of assembly, and in open spaces where combustible materials are stored or handled, the fire chief is authorized to order the owner or occupant to post approved NO SMOKING signs in each building, structure, room, or place in which smoking is prohibited. Such signs shall be conspicuously and suitably located and shall be maintained.

Exceptions: 1. Buildings or structures that are smoke-free environments and are posted as such at all public and employee entrances.

2. No visible evidence of prohibited smoking exists within the building or structure.

(16) Delete Section 310.3 in its entirety without substitution.

(17) Delete Section 311.1.1 in its entirety without substitution.

(18) Amend Section 311.2.2 by deleting "in the opinion of the fire code official" in Exception 1 and

substituting "where approved by the code official".
(19) Delete Section 311.5 in its entirety without substitution.
(20) Amend Section 315.1 by deleting the last sentence without substitution.
(21) Amend Section 315.2.1 by adding an exception: Exception: Sidewall storage to a maximum depth of thirty (30) inches (seventy-six and two-tenths (76.2) centimeters) of in-rack storage shall be acceptable to the ceiling in non sprinkled *[sic, nonsprinklered]* buildings.
(22) Add a new section to read as follows: SECTION 316. CARNIVALS AND FAIRS
316.1 General. The grounds of carnivals and fairs, including concession booths, shall be in accordance with Section 316.
316.2 Grounds.
316.2.1 General. Grounds shall be in accordance with Section 316.2.
316.2.2 Access. Fire apparatus access roads shall be provided in accordance with Section 503.
316.2.3 Fire appliances.
316.2.3.1 General. Fire appliances shall be provided for the entire midway, as approved by the chief.
316.2.3.2 Location. Maximum travel distance to a portable fire extinguisher shall not exceed seventy-five (75) feet (twenty-two and eighty-six hundredths (22.86) meters).
316.2.4 Electrical equipment. Electrical equipment and installations shall comply with the Electrical Code (675 IAC 17).
316.3 Concession Stands.
316.3.1 General. Concession stands shall be in accordance with Section 316.3.
316.3.2 Location. Concession stands utilized for cooking shall have a minimum of ten (10) feet (three and forty-eight thousandths (3.048) meters) of clearance on two (2) sides and shall not be located within ten (10) feet (three and forty-eight thousandths (3.048) meters) of amusement rides or devices.
316.3.3 Fire extinguishers. A 40-B:C-rated dry chemical fire extinguisher shall be provided where deep-fat fryers are used.
316.3.4 Hinges, awnings, and braces must be safety keyed. Nails shall not be used for hinge or support pins.
316.3.5 When tent stakes and ropes extend into traffic areas, highly visible covers shall be provided.
316.4 Internal Combustion Power Sources.
316.4.1 General. Internal combustion power sources, including motor vehicles, generators, and similar equipment, shall be in accordance with Section 316.4.
316.4.2 Fueling. Fuel tanks shall be of adequate capacity to permit uninterrupted operation during normal operating hours. Refueling shall be conducted only when the ride is not in use.
316.4.3 Protection. Internal combustion power sources shall be isolated from contact with the public by either physical guards, fencing, or an enclosure.
316.4.4 Fire extinguishers. A minimum of one (1) fire extinguisher with a rating of not less than 2-A:10-B:C shall be provided.
316.4.5 Notification. The servicing fire department shall be notified not less than seventy-two (72) hours prior to the admission of the public.
316.4.6 Vehicular traffic. No vehicle except emergency fire or rescue equipment shall be permitted on the midway from the time the midway opens until closing (including owners, operators, vendors, and service vehicles).
(23) Add a new section to read as follows: SECTION 317 HAUNTED HOUSES AND SIMILAR TEMPORARY INSTALLATIONS
This section applies to haunted houses and similar installations set up for temporary use, not exceeding ninety (90) days. Any interior within a structure not designed for this specific use shall comply with the following and all other applicable rules:

(1) In any facility using the maze concept, there shall be no dead-end corridors and there shall be an obvious exit out of the maze for every fifty (50) feet (fifteen and twenty-four hundredths (15.24) meters) of linear travel. All stairways shall be illuminated at a level of a least one (1) foot-candle (eleven (11) lux).

(2) A group shall consist of twenty (20) individuals or fewer. Each group shall be accompanied or supervised by a staff person who is eighteen (18) years of age or older. This staff person shall have

in his or her possession an operable flashlight and shall be completely familiar with the facility.
(3) There shall be no smoking allowed at any time by anyone inside the building.
(4) All electrical installations shall meet 675 IAC 17, the Indiana Electrical Code.
(5) The servicing fire department shall be contacted at least three (3) working days prior to the placing of the facility in operation for an inspection and planning of evacuation procedures. A sketch of the floor plan shall be provided to the servicing fire department to facilitate these procedures.
(6) The total number of occupants in the facility at any time shall be limited to the number allowed by the total exits from the installation, as determined by the Indiana Building Code (675 IAC 13) in effect at the time of construction of the building, building system, or alterations.
(7) Fire extinguishers shall be distributed throughout the building so that not more than seventy-five (75) feet (twenty-two and eighty-six hundredths (22.86) meters) must be traversed to each fire extinguisher.
(8) There shall be no open flame devices or temporary heaters used in the building.
(9) Automatic smoke detectors shall be installed in accordance with NFPA 72 (675 IAC 22-2.2). All smoke detectors shall be interconnected so that when one is activated, all are activated. When activated, the alarm shall be loud enough to be heard over all other sounds or the activation shall automatically shut down all sound devices within the facility.
(10) All areas of a maze shall be at least three (3) feet (ninety-one and four-tenths (91.4) centimeters) wide and five (5) feet (one and five hundred twenty-four thousandths (1.524) meters) high, except that a section not exceeding four (4) feet (one and twenty-two hundredths (1.22) meters) in length may be two (2) feet (sixty and ninety-six hundredths (60.96) centimeters) high and two (2) feet (sixty and ninety-six hundredths (60.96) centimeters) wide. There shall not be more than one (1) such four (4) foot (one and twenty-two hundredths (1.22) meter) section in every fifty (50) linear feet (fifteen and twenty-four hundredths (15.24) meters).
(11) All material used in all display areas of a haunted house and all material used in the construction of a maze shall be inherently flame resistant or made so by treatment with a flame retardant. All substances used to make materials flame resistant shall be applied in accordance with the manufacturer's instructions, and the containers and proof of purchase of the substances shall be retained for inspection by the code official.

(24) Add a new section to read as follows: SECTION 318 FIRE SAFETY IN RACETRACK STABLES

318.1 Scope. Racetrack stables shall be in accordance with this section.

318.2 Definitions

For purposes of this section, the following definitions apply:

ASSIGNED BARN. The barn area where a trainer has been allocated stalls and space for the trainer's horses and equipment.
ASSISTANT TRAINER. The person next to the listed trainer of record, and the one who frequently handles the day-to-day affairs in training a horse or horses.
CONCESSIONAIRES. The holders of a concession, such as the track kitchen, granted by the racetrack management.
HALTER. Piece of equipment that fits around a horse's head, like a bridle, but lacking a bit. It is used in handling horses around the stable. In the event of a fire, horses can be led from stalls by halters.
MECHANICAL HOTWALKER. An electrical device that automatically walks a horse or several horses in a circle with an approximate radius of ten (10) to fifteen (15) feet (three and forty-eight thousandths (3.048) to four and fifty-seven hundredths (4.57) meters).
MIXED OCCUPANCY. A building or stable area where both horses and humans reside.
RACETRACK MANAGEMENT. The persons who control or execute the affairs of the track itself.
TACK. Stable gear; also rider's racing equipment.
TACK ROOM. A storage area for tack and stable equipment.
TRACK SECURITY. Persons employed to protect racetrack property and to ensure the proper

passage of licensed personnel; track security may be internal or external.

TRAINER. The person responsible for the care and training of a horse or horses.

318.3 Management responsibilities.

318.3.1 All trainers or a designated assistant and all concessionaires or a designated assistant shall serve as liaison between the track security and fire protection supervisors and the employees of the trainers and concessionaires.

318.3.2 All trainers or their assistants and all concessionaires or their assistants shall acquaint themselves with and brief their employees as to the following:

(1) Smoking regulations.

(2) Location of fire alarm notification system devices in the immediate area of an assigned barn.

(3) Location of all fire extinguishers and extinguishing equipment in assigned barn area.

(4) Regulations regarding occupancy, use of extension cords for extending electrical circuits, and use of electrical appliances.

(5) Regulations regarding storage and use of feed, straw, tack, and supplies.

(6) Track regulations with regard to fire and security, copies of which shall be provided to all trainers or their assistants and concessionaires or their assistants. These regulations shall be used in instructing members of the trainers' and concessionaires' staffs assigned to the barn area.

318.3.3 Open burning. Open burning is prohibited. Open flame heating devices are prohibited. Un-vented portable oil-burning heating appliances are not permitted in stables.

318.3.4 Smoking. Smoking is prohibited in assigned barns. Approved "No Smoking" signs shall be posted in assigned barns.

318.3.5 Trash removal. All combustible trash and waste shall be removed from all buildings daily. Noncombustible trash and waste containers shall be provided for other than stall waste and shall be emptied daily.

318.3.6 Hay or straw storage. Storage shall not exceed the amount for two (2) days' use by the horses in the assigned barn. All other hay and straw must be in a separate, approved outside storage area. Hay and straw piles shall not exceed twenty (20) bales (rectangular) per pile and shall not exceed seven (7) feet (two and thirteen-hundredths (2.13) meters) in height. Each pile must be separated by a distance of not less than fifty (50) feet (fifteen and twenty-four hundredths (15.24) meters). Hay and straw shall not be stored in aisle space or in aisles.

318.3.7 Electrical systems and appliances.

318.3.7.1 The use of any portable electrical appliance shall be as follows:

(1) Multiple-outlet adapters are prohibited.

(2) Not more than one (1) continuous extension cord shall be used to connect one (1) appliance to the fixed electrical receptacle, and such cord shall be listed for hard service and properly sized for the intended application.

(3) Extension cords shall not be used as a substitute for permanent wiring.

318.3.7.2 Extension cords shall not be supported by any metal object, such as a nail, screw, hook, or pipe.

318.3.7.3 Plug caps and receptacles used in extension cords shall be heavy-duty type equipped with a reliable grounding pole and attached to the cord in a manner to provide strain relief.

318.3.7.4 All electrical appliances used in the stable area shall be listed for the use.

318.3.7.5 Outdoor electrical appliances, for example, mechanical hotwalkers, served by the barn electrical system shall be installed in accordance with the Indiana Electrical Code (675 IAC 17).

318.3.7.6 Portable cooking and heating appliances shall not be used in assigned barns.

318.3.7.7 Use of exposed-element heating appliances is prohibited.

318.3.7.8 The storage of flammable and combustible liquids, except those used for medicinal purposes, is prohibited.

318.3.7.9 Vehicles shall not be permitted in assigned barns. Aisles shall be maintained clear of obstructions at all times, and access to fire equipment shall not be blocked.

318.4 Animal evacuation.

318.4.1 Every horse shall wear a halter at all times while inside the assigned barn.

318.4.2 Horses shall be restricted to ground level stalls.

318.4.3 An assigned barn escape plan shall be established for each stable building.
318.4.4 The assigned barn escape plan shall be posted by each exit from the assigned barn, and a copy shall be given to all stall renters.
318.4.5 A fire safety and evacuation drill shall be conducted quarterly for employees only.
318.4.6 A predetermined location shall be designated for placement of horses when they are evacuated from the assigned barns.
318.4.7 Racetrack management shall ensure that all employees are trained in the assigned barn escape plan.
318.5 Where automatic sprinklers are installed, they shall be installed, tested, and maintained in accordance with the applicable rules of the commission.
318.6 Fire extinguishers shall be provided in all assigned barns as follows:

(1) Fire extinguishers shall have a minimum 2A rating.
(2) Fire extinguishers shall be placed so that travel distance shall be not more than seventy-five (75) feet (twenty-two and eighty-six hundredths (22.86) meters) from any point within a building.
(3) Fire extinguishers within twenty (20) feet (six and ninety-six thousandths (6.096) meters) of electrical control boxes shall have a Class C rating.
(4) Fire extinguishers shall be installed, tested, and maintained in accordance with the applicable rules of the commission.

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675 IAC 22-2.4-5 Chapter 4; emergency planning and preparedness

Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-10.5; IC 36-8-17

Sec. 5. Chapter 4 is amended as follows:
(1) Delete Section 401.2 in its entirety without substitution.
(2) Amend Section 403.1 by deleting the text and substituting the following: Section 403.1, Fire Watch Personnel, to read as follows: Whenever it is essential for public safety in any Class 1 structure or any other place where people congregate, due to the number of persons or the nature of the activity being conducted, the fire chief may require the owner, agent, or lessee to employ one (1) or more qualified persons, to be approved by the fire chief, to be on duty in such Class 1 structure to serve as a fire watch. Such persons shall:

(A) Be subject to the fire chief's orders at all times;
(B) Be in uniform; and
(C) Remain on duty at all times that such Class 1 structure is open to the public.

Such persons shall not be required or permitted, while on duty, to perform any duties other than the fire watch. Such persons shall be provided at the ratio of one (1) qualified person per five hundred (500) occupant load.
(3) Amend by inserting a new Section 403.1.2 to read as follows: Section 403.1.2, Qualified person. For the purposes of Section 403, "qualified person" means a person who has been certified at the mandatory firefighter training level, per IC 36-8-10.5.
(4) Amend Section 403.2 by deleting "fire", before code official, in lines two (2) and six (6) without substitution.
(5) Amend by inserting a new Section 403.3 to read as follows: Section 403.3, Overcrowding. Overcrowding and admittance of persons beyond the approved occupant load are prohibited. The code official, upon finding:

(A) Overcrowding conditions or obstructions in aisles, corridors, or other means of egress; or
(B) A condition that constitutes a serious menace to life; is authorized to cause all activities in the room or space to cease until such overcrowding, obstructions, or conditions are corrected. The code official is also authorized to order the evacuation of the building, if necessary, to eliminate the overcrowding.

(6) Amend Section 405.1 by deleting "or when required by the fire code official" without substitution.

(7) Amend Section 405.6 by deleting "Where required by the fire code official," without substitution.
(8) Amend Section 405.7 by deleting the text and inserting the following: Section 405.7 Initiation. Where a fire alarm system is provided, emergency drills shall be initiated by activating the fire alarm system upon request of the Code Official.

Exception: Fire drills within Group *[sic, Groups]* E and I-4 occupancies shall be initiated by activating the fire alarm system, where a fire alarm system is provided.

(9) Delete Section 407 in its entirety without substitution.
(10) Amend Section 408.5.5 by adding "all" after "of" and before "residents".
(11) Amend Section 408.7.3 by deleting the text and substituting the following: Provisions shall be made for residents in Use Conditions 3, 4, and 5 as defined in the Indiana Building Code (675 IAC 13) Section 308.4 to immediately notify staff of an emergency.
(12) Amend Section 408.8.1 by adding "in accordance with Appendix A-1" after "diagram" and before "depicting".
(13) Delete Section 408.8.3 in its entirety without substitution.
(14) Amend Section 408.9.1 by adding "See Appendix A-2." to the end of the last sentence.
(15) Amend Section 408.11.1.1 by deleting the text between "plan" and "shall" without substitution.
(16) Amend Section 408.11.1.2 by deleting the second sentence and substituting "The code official shall be notified when there are changes in tenants or occupancies.".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-5; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-6 Chapter 5; fire services features

Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 6. Chapter 5 is amended as follows:
(1) Delete Section 501.2 without substitution.
(2) Amend Section 501.3 by deleting "and approval" without substitution.
(3) Amend Section 503.1.1 by deleting the text of the exception and substituting the following: Buildings protected throughout by a supervised automatic fire sprinkler system and not used for high-piled combustible storage in excess of twelve thousand (12,000) square feet.
(4) Delete Section 503.1.2 in its entirety without substitution.
(5) Add a new Section 503.1.4 to read as follows: For exterior lumber storage, see Section 1909.
(6) Amend Section 503.2.2 by deleting the title and text and substituting the following: Vertical clearances or widths required by this section shall be increased when vertical clearances or widths do not provide fire apparatus access for the largest vehicle available to the servicing fire department.
(7) Amend Section 503.2.3 by deleting the text and substituting the following: Fire apparatus access roads shall be designed and constructed to support the imposed live loads of the heaviest piece of fire department apparatus available to the servicing fire department and shall be provided with a surface so as to provide all-weather driving capabilities.
(8) Amend Section 503.2.4 by deleting the text and substituting the following: The turning radius of a fire apparatus access road shall be determined after consultation with the servicing fire department and shall be at least equal to the minimum required radius for the fire apparatus. Such roads shall be designed and constructed to permit turning of the longest piece of fire apparatus available to the servicing fire department.
(9) Amend Section 503.2.5 by deleting the text and substituting the following: Dead-end fire apparatus access roads in excess of one hundred fifty (150) feet in length shall be designed and constructed so as to allow the turning around of the longest piece of fire apparatus available to the servicing fire department.
(10) Amend Section 503.2.6 by deleting and substituting the following:

(A) In the first sentence, insert "an approved manner" after "in".
(B) In the first sentence, delete "accordance with AASHTO HB 17".
(C) In the third sentence, delete "when required by the code official".

(D) Amend the last sentence to read as follows: Where elevated surfaces designed for emergency vehicle use are adjacent to surfaces that are not designed for such use, approved barriers or approved signs shall be installed.

(11) Amend Section 503.2.7 by deleting the text and substituting the following: The gradient for all fire apparatus access roads shall not exceed the maximum that the apparatus available to the servicing fire department can accommodate.

(12) Amend Section 503.3 by deleting the text and substituting the following: When required by local ordinance, signs, or other notices shall be provided and maintained for the fire apparatus access roads to identify such roads and prohibit the obstruction thereof.

(13) Amend Section 503.5 by inserting "When required by local ordinance," at the beginning of the first sentence.

(14) Amend Section 503.5.1 by deleting and substituting as follows:

(A) By adding "approved by" before "the code official" in the last sentence.

(B) By deleting "the" and substituting "their" in the exception.

(15) Amend Section 504.1 by deleting the last sentence without substitution.

(16) Amend Section 504.2 by deleting the first sentence and substituting the following: Required fire department access doors, exit and exit access doors shall not be obstructed or eliminated and shall comply with Chapter 10.

(17) Amend Section 504.3 by inserting "of" after "buildings" in the first sentence.

(18) Add a new section to read as follows: Section 505.1.1, Additional Numbers. New and existing Class 1 structures that have three (3) or more separate tenants where such tenants have both a front or main entrance and a rear entrance with an all weather surface for vehicular traffic that is tenant specific, such rear entrance shall have a posted address visible from the all weather surface.

(19) Amend Section 506 by deleting the title and text and substituting the following: When required. Whenever the servicing fire department has instituted a key box emergency access system, a key box compatible with that system shall be installed in an accessible location if:

(A) The building is protected with an automatic sprinkler system equipped with a local or transmitted water-flow alarm, or

(B) The building is provided with any fire alarm system equipped with an outside audible/visual signaling device, or

(C) The building is provided with any fire alarm system where the alarm is transmitted to an off-site location, or to the fire alarm center for the servicing fire department.

506.2 Responsibility for Key Box. Key boxes are to be provided by the building owner and shall contain such keys necessary to access all protected areas of the building. Multi-tenant buildings may share an owner-provided box, and the building owner shall assume responsibility for insuring that keys are updated as appropriate. Tenant-provided boxes may not be shared with any other tenant, and the tenant assumes responsibility for key updates for the subject tenant space.

Exception: Key boxes for apartment houses are not required to contain keys to individual apartment dwelling units.

506.3 Existing Buildings. When a design release is issued by the division of fire and building safety or a permit by local government when a design release is not required for construction, buildings constructed prior to April 30, 1998, shall not be required to provide a key box or key boxes under this section. Any new tenancy within a space previously occupied by a different tenant shall require that a key box be provided in accordance with Sections 506.1 and 506.2. Existing buildings required to install a key box or key boxes by this section shall not be in violation of this section until one (1) year after the effective date of this code.

(20) Amend Section 507.2.1 by deleting "from the outside of the building" without substitution.

(21) Amend Sections 508.1 and 508.2 by deleting the text and substituting the following: Required Water Supply for Fire Protection. A water supply capable of supplying the required fire flow, for firefighting purposes, as determined by local ordinance, shall be provided to all premises upon which a Class 1 building or a portion of a Class 1 building is hereafter constructed. The water supply shall be provided as follows:

(A) When a public water supply is available to a premises, there shall be provided fire hydrants and mains capable of supplying the required fire flow.

(B) When a public water supply is not available to a premises, the water supply shall consist of a pond, stream, river, canal, lake, reservoir, quarry, pressure tank, elevated tank, swimming pool, other fixed systems, or fire department delivered portable system capable of providing the required fire flow. The on-site water supply shall be accessible to the fire department and be located within one hundred fifty (150) feet of the Class 1 building or structure being protected with an automatic fire extinguishing system. If the on-site water supply is not within one hundred fifty (150) feet of the structure being protected, the water supply shall be connected to on-site fire hydrants and mains capable of supplying the required fire flow. The owner shall verify the water supply requirements with the servicing fire department prior to final design and construction.

(22) Amend Section 508.3 by deleting the text and substituting the following: Local ordinance may adopt Appendix B to set requirements for fire flow.

(23) Amend Section 508.5.1 by deleting "the code official" and substituting the following: by local ordinance requiring a water supply capable of supplying the required fire flow for firefighting purposes.

(24) Amend Section 508.5.2 by deleting the first sentence without substitution.

(25) Amend Section 508.5.3 to insert, after NFPA 25, "(675 IAC 28-1-12)".

(26) Amend Section 509.1 by deleting the fifth sentence and substituting the following: A layout of the fire command center and all features required by this section shall be submitted to the fire department having jurisdiction prior to installation.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-6; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-7 Chapter 6; building services and systems

Authority: IC 22-13-2-2

Affected: IC 22-12-7-6; IC 22-13; IC 22-14; IC 36-8-17-9

Sec. 7. Chapter 6 is amended as follows:

(1) Delete Section 601.2 without substitution.

(2) Amend Section 603.3.1 by deleting "NFPA 31" and substituting "Chapter 34 of this code".

(3) Amend Section 603.3.3 by deleting "NFPA 31" and substituting "Chapter 34 of this code".

(4) Amend Section 603.4 by deleting the text and substituting the following: The use of listed portable unvented oil burning heating appliances shall be limited to supplemental heating in detached single family residences.

Exception: Upon approval of the code official, portable unvented oil-burning heating appliances may be permitted in any occupancy during the construction process when such is necessary for the construction and the use does not represent a hazard of life or property.

(5) Amend Section 603.6.1 by deleting the text and substituting the following: Masonry chimneys that, upon inspection, are found to be without a flue liner and that have open mortar joints that will permit smoke or gases to be discharged into the building, or that are cracked as to be dangerous, shall be repaired or relined with a chimney liner system installed in accordance with the manufacturer's installation instructions or a flue lining system installed in accordance with the requirements of the International Building Code and appropriate for the intended class of chimney service.

(6) Amend Section 603.7 by deleting and substituting the following:

(A) Delete "fire" in the first and second sentences.

(B) Delete the words after "appliances" in the first sentence.

(C) Insert "in accordance with IC 22-12-7-6 or IC 36-8-17-9" between "measures" and "to" in the second sentence.

(D) Delete "without notice" after "appliance" in the second sentence.

(7) Amend Section 603.8.5 by deleting the text and substituting the following: The fire chief is authorized to require incinerator use to be immediately discontinued if the use of the incinerator constitutes a hazardous condition.

(8) Amend Section 604.1 by deleting and substituting the following:

(A) Delete "NFPA 110 and NFPA 111".

(B) Delete "original approval" and substitute "rules of the commission".

(9) Amend Section 604.1.1 by deleting "in accordance with UL 2200" and substituting "for their intended use".

(10) Amend Section 604.2.6 by inserting "as is currently adopted by the commission" after "A18.1".

(11) Amend Section 604.2.15.1.1, Exception, by inserting, after "pipelines", "or propane gas lines".

(12) Amend Section 604.3 by deleting "NFPA 110 and NFPA 111" and substituting "the rules of the commission".

(13) Amend Section 604.5 by deleting "properly instructed" and inserting "trained".

(14) Amend Section 605.3 by deleting Exception 2 without substitution.

(15) Amend Section 605.4.1 by deleting "in accordance with UL 1363" without substitution.

(16) Amend Section 605.5.1 by deleting "power tap or multi-plug adapter" without substitution.

(17) Amend Section 606.5 by deleting "as required by the code official" without substitution.

(18) Amend Section 606.6.1 by deleting "and as required by the code official" without substitution.

(19) Amend Section 606.7 by inserting "as adopted by the commission" after "NFPA 704".

(20) Amend Section 606.10.1.2 by deleting "When required by the code official" without substitution.

(21) Amend Section 606.10.2.1 by deleting "effected" and substituting "affected".

(22) Amend Section 606.10.2.2 by deleting "effected" and substituting "affected".

(23) Amend Section 606.12.3 by deleting the text from Exception 2 and substituting the following: 2. When the code official determines, upon review of an engineering analysis prepared in accordance with Section 104.7.2, that a fire or explosion hazard would not result from discharging ammonia directly to atmosphere.

(24) Amend Section 606.14 by deleting the text and substituting the following: The code official shall be notified immediately when a discharge becomes reportable under Section 2703.3.1.

(25) Amend Section 607 by deleting the text and substituting the following: See the Indiana Elevator Code (675 IAC 21).

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-7; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-8 Chapter 7; fire-resistance-rated construction

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 8. Chapter 7 is amended as follows:

(1) Amend Section 703.1.2 by adding "shall be" after "openings" and before "protected".

(2) Amend Section 703.2 by deleting the first sentence and substituting the following: Opening protectives shall be maintained in accordance with the rules of the commission.

(3) Amend Section 703.2.1 by deleting the text and substituting the following: A sign shall be displayed permanently near or on each required fire door in letters not less than one (1) inch (twenty-five and four-tenths (25.4) mm) high to read as follows:

(A) For doors designed to be kept normally open: FIRE DOOR - DO NOT BLOCK.

(B) For doors designed to be kept normally closed: FIRE DOOR - KEEP CLOSED.

For the purposes of this section, fire door means an assembly that is part of a fire-rated assembly.

(4) Delete Section 704 in its entirety without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-8; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-9 Chapter 8; interior finish, decorative materials and furnishings

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 9. Chapter 8 is amended as follows:

(1) Amend Section 805.1.1.2, #2 as follows:

(A) Delete "5" and substitute "10" before "minutes".

(B) Delete "24" and substitute "25" before "megajoules".

(2) Add Section 806.1.4 to read as follows: A natural cut tree. At least two (2) days prior to placing a natural cut tree in a public building the fire department having jurisdiction shall be notified.

(3) Amend Section 807.1.2 by deleting the second exception without substitution.

(4) Amend Section 808.2 by deleting ", subject to the approval of the fire code official".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-9; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-10 Chapter 9; fire protection systems

Authority: IC 22-13-2-2

Affected: IC 22-12-1-4; IC 22-12-1-5; IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 10. Chapter 9 is amended as follows:

(1) Amend Section 901.2 by deleting the text and substituting the following: Complete plans and specifications for fire alarm systems; fire-extinguishing systems, including automatic sprinklers, wet and dry standpipes; halon systems and other special types of automatic fire-extinguishing systems; basement pipe inlets; and other fire protection systems and appurtenances thereto shall be submitted for review prior to system installation in accordance with 675 IAC 12-6 and with the local unit of government where required by local ordinance. Plans and specifications for fire alarm systems shall include,

(A) a floor plan;

(B) location of all alarm-initiating and alarm signaling devices;

(C) alarm control and trouble-signaling equipment;

(D) annunciation;

(E) power connection;

(F) battery calculations;

(G) conductor type calculations;

(H) voltage drop calculations;

(I) manufacture, model numbers, and listing information for all equipment, devices, and materials; and

(J) any other documentation necessary to evidence that the system will perform in compliance with the rules of the Commission.

(2) Amend Section 901.2.1 by deleting "where required by the code official".

(3) Delete Section 901.3 in its entirety without substitution.

(4) Amend Section 901.4 by deleting text after the first sentence and substituting to read as follows: Alterations to fire protection systems shall be done in accordance with the applicable rules of the commission.

(5) Delete Section 901.4.3 in its entirety without substitution.

(6) Amend Section 901.5 by deleting "and as approved by the code official".

(7) Amend Section 901.7 by deleting "where required by the code official".

(8) Amend Section 901.7.3 by deleting the last sentence without substitution.

(9) Amend Section 901.8 by deleting ", or where approved by the fire code official".

(10) Amend Section 901.8.1 by deleting "direction" and substituting "request".

(11) Amend Section 902 to make the following changes:

(A) Delete the text of the following definitions and substitute as follows:

ALARM SIGNAL. An audible or visual signal indicating the existence of an emergency requiring immediate action.

BUILDING OFFICIAL. See Code Official.

FIRE ALARM SYSTEM. A combination of approved equipment which with operation of an alarm initiating device produces an alarm signal.

(B) Add the following definition to read as follows: LABELED. Equipment or materials to which has been attached a label, symbol, or other identifying mark of an organization engaged in product evaluation, that maintains periodic inspection or production of labeled equipment or materials and

by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.

(C) Delete the definition of RECORD DRAWINGS without substitution.

(12) Amend Section 903.1.1 by deleting the text and substituting the following "See 675 IAC 12-6-11.".

(13) Amend Section 903.2.1.3 as follows:

(A) Change the exception by adding "1" in front of it.

(B) Add Exception 2 to read as follows: 2. Fire areas not exceeding 7,000 square feet (650.3 m^2) used primarily for worship with or without fixed seating and not used for exhibition or display, and the fire area is not located on a floor level other than that of exit discharge.

(14) Amend Section 903.2.5 as follows:

(A) Change the exception by adding the number "1." in front of it.

(B) Add Exception 2 to read as follows: 2. In jails, prisons, and reformatories, the piping system may be dry provided a manually operated valve is installed at a continuously monitored location. Opening the valve will cause the system to be charged. The valve may be located in a locked cabinet or enclosure provided the activation of a sprinkler unlocks the cabinet or enclosure.

(15) Amend Section 903.3.1.1.1 as follows:

(A) In #2 delete ", when approved by the fire code official".

(B) Delete the text of item 4 and substitute the following: Elevator equipment rooms and hoistways used exclusively for the operation of elevators and that are separated from the remainder of the building by two (2) hour fire resistive construction. Penetrations between machine rooms and hoistways necessary for the safe operation of an elevator and vents required by Section 3004 of this code need not be fire-rated.

(16) Amend Section 903.3.1.2 by inserting "Occupancies" after "Group R".

(17) Delete Section 903.3.1.3 in its entirety without substitution.

(18) Amend Section 903.3.5.1.1, in number 1, Exception, by deleting "An approved" and substituting "A listed".

(19) Amend Section 903.3.6 by deleting the text and substituting the following: Fire hose threads used in connection with automatic sprinkler systems shall be compatible with the equipment used by the servicing fire department.

(20) Amend Section 903.3.7 by deleting the text and substituting the following: The servicing fire department shall be consulted before placing the fire department hose connections at specific locations.

(21) Amend Section 903.4 by deleting Exception 1 in its entirety without substitution.

(22) Amend Section 903.4.2 by deleting the text and substituting the following: Listed audible and visible devices shall be connected to every automatic sprinkler system. Such sprinkler water flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Alarm devices shall be provided on the exterior of the building facing the public street, road, or highway that is in accordance with its legal address. Where buildings are not directly facing the public street, road, or highway or are in excess of two hundred fifty (250) feet from the public street, road, or highway, the servicing fire department shall be consulted in determining a location prior to the installation of the exterior audible and visible device. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

Exception: Sprinkler systems that are monitored by an approved supervisory station are not required to have the listed audible and visible device located on the exterior wall facing the public street, road, or highway.

(23) Amend Section 903.4.3 as follows:

(A) Delete "approved" and substitute "a listed".

(B) Delete "high-rise buildings" and substitute "buildings 4 stories or more in height".

(24) Delete Section 903.6 in its entirety without substitution.

(25) Amend Section 904.2 by deleting "approved by the code official" and substituting "in accordance with the rules of the commission".

(26) Amend Section 904.2.1 by deleting "610" and substituting "609" after "Section".

(27) Amend Section 904.11.6.5 as follows:

(A) Add a "#1" before the exception.

(B) Add a second exception to read as follows:

Exception 2. When automatic bulb-type sprinklers or spray nozzles are used and an annual examination shows no buildup of grease or other material on the sprinkler or spray nozzle. Hoods, grease-removal devices, fans, ducts, and other appurtenances shall be cleaned at frequent intervals in accordance with Section 1006.1.

(28) Amend Section 905.1 as follows:

(A) Delete "approved" and substitute "listed" in the second sentence.

(B) Add "the servicing" between "with" and "fire" in the second sentence.

(C) Delete "approved" and substitute "in accordance with Section 912.2" in the third sentence.

(29) Amend Section 905.2 by adding an exception to read as follows: Exception: In other than high rise buildings where buildings are sprinklered in accordance with Section 903.3.1.1, the water supply pressure for the standpipe system is not required to exceed the pressure requirements for the sprinkler system.

(30) Add a new Section 905.2.1 to read as follows: 905.2.1, Fire Department Connections. The location of fire department connections shall be in accordance with Section 903.3.7.

(31) Amend Section 905.3.1 to delete the text of Exception 3 and insert as follows: 3. Class I manual dry standpipes are allowed in open parking garages that are subject to freezing temperatures. Standpipes shall be provided in accordance with Section 905.4, and hose connections shall meet the spacing requirements for Class II standpipes in accordance with Section 905.5.

(32) Add a new Section 905.3.1.1 to read as follows: 905.3.1.1, Building Area. In buildings exceeding 10,000 square feet in area per story, Class I automatic wet or manual wet standpipes shall be provided where any portion of the buildings interior is more than 200 feet of travel, vertically or horizontally, from the nearest point of fire department vehicle access.

Exceptions:

1. Buildings equipped throughout with automatic sprinkler systems installed in accordance with Section 903.3.1.1.
2. Group A-4, A-5, F-2, R-2, S-2, or U Occupancies.
3. Automatic dry and semiautomatic dry standpipes are allowed for in NFPA 14.

(33) Amend Section 905.3.4.1 by deleting the text and substituting the following: Proper cap and chain shall be provided for the hose connection valve assembly. Hose connection valve assembly shall comply with the provisions in Section 903.3.6.

(34) Amend Section 905.4 to read as follows:

(A) Delete item 1 and substitute as follows: 1. In every required stairway, a hose connection shall be provided for each floor level above or below grade. Hose connections shall be located at an intermediate floor level landing between floors. Where there are multiple intermediate floor landings between floors, hose connections shall be located at the landing closest to being midway between floors. If intermediate floor level landings are not provided in the required stairway, the hose connection shall be located on the floor-level landing.

(B) Delete item 5 and substitute as follows: 5. Where the roof has a slope less than four (4) units vertical in twelve (12) units horizontal, one (1) standpipe shall be provided with a hose connection located either on the roof or at the highest landing of the stairways with stair access to the roof. Two (2) hose connections shall be provided for testing. The control valve for the standpipes extending on to the roof may be located in the stair enclosures.

(C) Delete item 6 and substitute as follows: 6. Where the most remote portion of a nonsprinklered floor or story is more than one hundred fifty (150) feet from a hose connection or the most remote portion of a sprinklered floor or story is two hundred (200) feet from a hose connection, additional hose connections shall be provided in exit passageways which are 1-hour rated.

(35) Amend Section 905.8 by deleting the text and substituting the following: In buildings requiring standpipes, dry standpipes complying with NFPA 14 (675 IAC 13-1-8) are permitted when the building or structure is unheated and the standpipe is subject to freezing temperatures.

(36) Delete Section 905.11 in its entirety without substitution.

(37) Amend Section 906.1 by deleting the text and substituting to read as follows: Portable fire

extinguishers shall be installed where required by TABLE 906.1 and where required by local ordinance.
(38) Amend Section 907.1.1 by deleting the text and substituting to read as follows: See the General Administrative Rules (675 IAC 12-6).
(39) Amend Section 907.2.1.1 by deleting the exception without substitution.
(40) Amend Section 907.2.3 as follows:

(A) Delete Exception 2.3 and substitute the following: 2.3 Shops and laboratories involving dust or vapors are protected by heat detectors or other listed detection devices.

(B) Amend Exception 2.6 by deleting ", except in locations specifically designated by the building official" without substitution.

(41) Amend Section 907.2.7 by inserting, in Exception 1, "not" before "required".
(42) Add a new section to read as follows: Section 907.2.10.1.1.1, R-1 Hotels and Motels.

(1) This section only applies to hotels and motels.

(2) All hotels and motels must have functional smoke detectors and comply with this section and Section 907.2.10.1.1.

(3) Except as provided in (6), a detector must be installed in all interior corridors adjacent to sleeping rooms and must be spaced no further apart than thirty (30) feet (nine and one hundred forty-four thousandths (9.144) meters) on center or more than fifteen (15) feet (four and five hundred seventy-two thousandths (4.572) meters) from any wall.

(4) The detectors must be hard wired into a building's electrical system, except as provided in (6).

(5) The detectors must be wired in a manner that activates all the devices in a corridor when one is activated, except as provided in (6).

(6) All single level dwellings, all seasonably occupied dwellings, and all hotels and motels with twelve (12) sleeping rooms or less (and containing no interior corridors) are exempt from the requirements of (3), (4), and (5). In such units:

(A) A detector must be installed in each sleeping room; and

(B) The detector may be battery operated, when allowed by Section 907.2.10.2.

If a battery operated detector is installed, it must contain a tamper resistant cover to protect the batteries. For the purpose of Section 907.2.10.1.1.1, the following definitions shall apply:

DWELLING means a residence with at least one (1) dwelling unit as set forth in IC 22-12-1-4(a)(1)(B) and IC 22-12-1-5(a)(1).

HOTELS AND MOTELS means buildings or structures kept, maintained, used, advertised, or held out to the public as inns or places where sleeping accommodations are furnished for hire for transient guests.

SEASONALLY OCCUPIED DWELLINGS means hotels and motels open to the public for occupancy by guests only during any period of time between April 15 and October 15 each year.

SINGLE LEVEL DWELLING means all single level (not more than one (1) level above ground) hotels and motels that have no interior corridors and whose individual rooms have exterior exits.

(43) Amend Section 907.2.10.1.2 by deleting "and maintained" without substitution.
(44) Amend Section 907.2.15 by deleting the text and substituting the following: When special egress-control devices or systems are installed, such devices or systems shall be maintained in accordance with the building code requirements for the original installation.
(45) Delete Section 907.3 in its entirety without substitution.
(46) Amend Section 907.4.5 by deleting the text and substituting the following: Listed manual fire alarm box protective covers may be installed when approved.
(47) Delete Section 907.8 in its entirety without substitution.
(48) Amend Section 907.9.1 by deleting the text and substituting the following: A zoning indicator panel and associated controls shall be provided in a location the servicing fire department will use as their main entrance point to the building. The panel shall be identifiable and accessible at all times. The visual zone indication shall lock in until the system is reset and shall not be canceled by the operation of an audible alarm-silencing switch.

(49) Amend Section 907.10.1.1 by adding "areas" after "public" in the title.
(50) Amend Section 907.15 by deleting the text and inserting the following: Where required by this chapter or by local ordinance, an approved supervising station in accordance with NFPA 72 (675 IAC 28-1-28) shall monitor fire alarm systems.
(51) Amend Section 907.16 by deleting the text and substituting the following: Automatic telephone-dialing devices used to transmit an emergency alarm shall not be connected to any fire department telephone number unless approved by the code official and the fire department.
(52) Delete Section 907.18 in its entirety without substitution.
(53) Delete Section 907.19 in its entirety without substitution.
(54) Amend Section 907.20.1 by deleting "applicable NFPA requirements or as directed by the code official" and substituting "the rules of the commission".
(55) Amend Section 907.20.2 by deleting all the text after "NFPA 72" without substitution.
(56) Amend Section 909.2 by deleting the text and substituting as follows:

(A) Buildings, structures, or parts thereof required by this code to have a smoke control system or systems shall have such systems designed in accordance with the applicable requirements of Section 909 and other applicable rules of the commission. Construction documents shall be as required by the General Administrative Rules (675 IAC 12-6).

(B) Delete Equation 9-8 in its entirety without substitution.

(57) Amend Section 909.3 by deleting the text and substituting the following: For inspections and testing, see the General Administrative Rules (675 IAC 12-6-6(c)(10)(D)).
(58) Amend Section 909.10.2, in the third sentence, by deleting "nationally accepted" and substituting "approved practices".
(59) Amend Table 910.3 to read as follows: Revise the section references in column 1, rows 3 through 6 of the table, by deleting "910.2.3" and substituting "910.2.2".
(60) Amend Section 909.15 by deleting the text and substituting the following: Identical control diagrams showing all devices in the system and identifying their location and function shall be maintained current and kept on file with the building official, the servicing fire department, and in the fire command center in an approved manner and format.
(61) Amend Section 909.18.8 by deleting the text and substituting: See the General Administrative Rules (675 IAC 12-6-6(c)(10)(D)).
(62) Amend Section 909.19 by deleting the title and text and substituting the following: Acceptance test. Smoke removal systems shall be tested in accordance with the rules of the commission at the expense of the owner or owner's representative. When requested by the servicing fire department and/or local building official, such tests shall be conducted in their presence. Prior to conducting such tests, the requesting official shall be given at least 48-hour notice. It shall be unlawful to occupy portions of the structure until the required smoke removal system within that portion of the structure has been completed, successfully tested, and is fully operational with appropriate reports and other documentation provided to the servicing fire department and/or local building official.
(63) Amend Section 910.2.1 by deleting "repair" in the exception.
(64) Amend Section 910.3.2.2 by deleting the text and substituting the following: Where installed in buildings equipped with an approved automatic sprinkler system, smoke and heat vents shall open by approved manual releases. The servicing fire department shall be consulted in determining location of such manual releases prior to the installation of the smoke and heat vents.
(65) Amend Section 910.4 by deleting the text and substituting the following: In buildings protected throughout with an approved automatic sprinkler system, manually operated exhaust fans may be utilized for fire department mop-up operations. The exhaust rate shall be equal to one (1) cfm per square foot of floor area. The fans shall be wired ahead of the main building disconnect switch. Manual controls for the fans shall be provided individually for each fan unit. The servicing fire department shall be consulted in determining the location of the controls for the exhaust fans.
(66) Amend Section 912.2 by deleting "The location of fire department connections shall be approved" and substituting "The servicing fire department shall be consulted before placing the fire department hose connections at specific locations, or the connections shall be placed as required by local ordinance".

(67) Amend Section 912.2.2 by deleting "subject to the approval of" and inserting "approved by" in the last sentence.

(68) Amend Section 912.3.1 by deleting "The fire code official is authorized to require" and inserting, after "systems" and before "where", "shall be required".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-10; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-11 Chapter 10; means of egress

Authority: IC 22-13-2-2

Affected: IC 22-11-17-2; IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 11. Chapter 10 is amended as follows:

(1) Amend Section 1001.2 by deleting the text and substituting the following: See the General Administrative Rules (675 IAC 12-4-12).

(2) Amend Section 1002 by adding the following definition after "Handrail": ICC A117.1. Chapter 11 of the Indiana Building Code (675 IAC 13).

(3) Amend Section 1004.1.1 by deleting the exception without substitution.

(4) Amend Section 1004.2 to delete the text and insert as follows: Increased Occupant Load. The occupant load permitted in any building, or portion thereof, is permitted to be increased from that number established for the occupancies in Table 1004.1.1, provided that all other requirements of this code are also met based on such modified number and the occupant load does not exceed one occupant per 7 square feet (0.65 m2) of occupiable floor space. An aisle, seating, or fixed equipment diagram substantiating any increase in occupant load shall be submitted to the building official upon request.

(5) Amend Section 1007.2 as follows:

(A) Delete "one or more" and substitute "at least one".

(B) In item 6, delete "1021" and insert "1022".

(6) Amend Section 1007.6.2 by deleting "1021" and substituting "1022".

(7) Amend Section 1008.1 by deleting "1017.2" and substituting "1018.2".

(8) Amend Section 1008.1.1 by deleting Exception 8 in its entirety without substitution.

(9) Amend Section 1008.1.4, Exception 5, by deleting the text and substituting the following: 5. Exterior decks, patios, or balconies that are part of a dwelling unit regulated under part 2 of Chapter 11 of the Indiana Building Code (675 IAC 13) and have impervious surfaces, and that are not more than four (4) inches (one hundred two (102) mm) below the finished floor level of the adjacent interior space of the dwelling unit.

(10) Amend Section 1008.1.7, Exception 3, by deleting the text and substituting the following: 3. Doors within individual dwelling units in Groups R-2 and R-3 as applicable in Section 1001.1.

(11) Amend Section 1008.1.8.3 as follows:

(A) Delete Exception 2.3 in its entirety without substitution.

(B) Add Exception 5 to read as follows: 5. Licensed Health Care Facilities that comply with IC 22-11-17-2.

(12) Amend Section 1008.1.8.6 by deleting the exception to item 4 without substitution.

(13) Amend Section 1009.3 as follows:

(A) Delete Exception 4 and substitute the following: 4. Within dwelling units in occupancies in Group R-3, as applicable in the Indiana Building Code (675 IAC 13), and within dwelling units in occupancies in Group R-2, as applicable in the Indiana Building Code (675 IAC 13), the maximum riser height shall be eight and one-fourth (8 1/4) inches (two hundred ten (210) mm), the minimum tread depth shall be nine (9) inches (two hundred twenty-nine (229) mm). A nosing not less than seventy-five hundredths (0.75) inch (nineteen and one-tenth (19.1) mm) but not more than one and twenty-five hundredths (1.25) inches (thirty-two (32) mm) shall be provided on stairways with solid risers where the tread is less than eleven (11) inches. In occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in the Indiana Building Code (675 IAC 13), the maximum riser height shall be seven and seventy-five hundredths (7.75) inches (one hundred

ninety-seven (197) mm) and the minimum tread depth shall be ten (10) inches (two hundred fifty-four (254) mm) and the nosing requirements shall remain the same as above.

(B) Amend Exception 5 by deleting the text and substituting the following: The replacement of existing stairways shall be in accordance with the General Administrative Rules (675 IAC 12-9).

(14) Add a new (14) to amend Section 1009.5.3 to delete the last sentence and insert as follows: The open space under exit stairways shall not be used for any purpose.

(15) Add a new Section 1009.12 to read as follows: Section 1009.12, Fire escapes. A fire escape that is used as an exit shall comply with the provisions of this section as follows:

(1) The fire escape shall not be the primary or the only exit.

(2) The fire escape shall not take the place of stairways required by the applicable rules of the commission or its predecessors in effect at the time the building was built.

(3) Access to a fire escape from a corridor shall not be through an intervening room.

Exception: Access through an intervening room may be permitted if the intervening door is not lockable and an exit sign is installed above the door directing occupants to the fire escape.

(4) No encumbrances or obstacles of any kind shall be placed on or in front of any fire escape.

(5) Fire escapes shall be kept clear and unobstructed and shall be maintained in a fully operational working condition at all times.

(6) Exit signs shall be maintained in accordance with the Indiana Fire Code, 675 IAC 22, or the code in effect at the time of construction. All doors and windows providing access to a fire escape shall be provided with signs stating "FIRE ESCAPE" in letters at least as large as those required for exit signs under the current rules of the commission.

(7) Fire escape stairways and their balconies shall support their dead load plus a live load of not less than one hundred (100) pounds per square foot (four hundred eighty-eight (488) kilograms per square meter) or a concentrated load of three hundred (300) pounds (one hundred thirty-six (136) kilograms) placed anywhere on the balcony or stairway so as to produce the maximum stress condition.

(8) Fire escape stairways and balconies shall be provided with a top and intermediate handrail on the open side. All stair and balcony railings shall support a horizontal force of not less than fifty (50) pounds per linear foot (seventy-four and four-tenths (74.4) kilograms per meter) applied to the top handrail.

(9) Documentation evidencing compliance with items (7) and (8) shall be maintained on site for review by the code official.

(10) Tubular fire escapes shall comply with items (1) through (9) and shall be kept rust free.

(16) Amend Section 1012.3 by adding an exception: Exception: Within Group R-2 dwelling units, the handgrip portion of handrails shall have a circular cross section of one and one-fourth (1 1/4) inches (thirty-two (32) mm) minimum to two and seven-eighths (2 7/8) inches (seventy-three (73) mm) maximum. Other handrail shapes that provide equivalent grasping surface are permissible. Edges shall have a minimum radius of one-eighth (1/8) inch (three and two-tenths (3.2) mm).

(17) Amend Section 1013.3 by deleting Exception 2 and substituting the following: 2. At elevated walking surfaces for access to and use of electrical, mechanical, or plumbing systems, fire department access doors required by the Indiana Fire Code (675 IAC 22) that are not a required exit, or equipment guards shall have balusters or be of solid materials such that a sphere with a diameter of 21 inches (533 mm) cannot pass through any opening.

(18) Amend Table 1016.1 as follows: Revise column 3 and add note c, as follows:

WITH SPRINKLER SYSTEM b (feet)

250 b

300 c

400 c

75 c

100 c

150 c

175 c
200 c
200 c
c. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

(19) Amend Section 1020.1.7 by adding "of the International Building Code" at the end of the last paragraph.
(20) Amend Section 1022.2 by deleting "with no unprotected openings" in the first paragraph without substitution.
(21) Amend Section 1023.5 by deleting "1023.3" and substituting "1024.3".
(22) Amend Section 1025.12 as follows:
(A) Delete the text of Exception 1 and substitute to read as follows: In places of assembly or portions thereof without ramped or tiered floors for seating, portable and folding seats of any quantity, or permanent seats of 200 or fewer, shall not be required to be fastened to the floor.
(B) Delete the text of Exception 3 and substitute to read as follows: In places of assembly or portions thereof with ramped or tiered floors for seating, and where the seats include more than 200 permanent, portable or folding chairs in any combination of each individual ramped or tiered area, all seats on the ramped or tiered area shall be fastened together in groups of not fewer than three (3) or all seats shall be fastened to the floor.
(C) Delete the last sentence of Exception 4 without substitution.
(23) Add a new section to read as follows:
(1) Section 1026.6. Exterior Rescue Access. Exterior access for fire department use in performing rescue operations when emergency escape and rescue openings are required shall comply with Sections 1026.6.1 and 1026.6.2.
(2) Section 1026.6.1. The exterior grade adjacent to emergency escape and rescue openings shall not have a slope of more than two (2) inches in twelve (12) inches. The grade requirement shall extend from the structure to a point that will allow the placement of a fire department ground ladder to the sill of the emergency escape and rescue opening when such ladder is placed at a seventy-five (75) degree angle maximum from the horizontal plane.
(3) Section 1026.6.2. No obstructions, such as wire, trees, shrubs, signs, cornices, overhangs, awnings, canopies, parking, or other features, shall be permitted.
Exception: Canopies and similar types of building features may be used as a portion of the rescue access system if the slope of the canopy does not exceed two (2) inches in twelve (12) inches and access as required in Section 1009.6.1 is provided from the ground to the top edge of the canopy.
(24) Amend Section 1027.1 by deleting the text and substituting "See 675 IAC 12-4-9.".
(25) Amend Section 1027.10 by deleting the text and substituting "See 675 IAC 12-4-9.".
(26) Amend Section 1027.10.1 by deleting the text and substituting "See 675 IAC 12-4-9.".
(27) Amend Section 1027.16.5 by deleting the last sentence without substitution.
(28) Amend Section 1028.2 by deleting "subject to approval of" and substituting "approved by".
(29) Amend Section 1028.7 by deleting "required" in the last sentence and substituting "requested".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-11; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-12 Chapter 11; aviation facilities
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 12. Chapter 11 is amended as follows:
(1) Delete Section 1101.3 in its entirety without substitution.
(2) Amend Section 1106.3.3 by deleting "proper" and substituting "approved" in the last sentence.
(3) Amend Section 1106.3.6 by deleting "substantially" without substitution.

(4) Amend Section 1106.3.7.1 as follows:

(A) Delete "a substantial heavy-duty" and substitute "an approved or listed".

(B) Delete "a suitable" and substitute "an approved or listed".

(5) Delete the last sentence of Section 1106.3.7.2 without substitution.

(6) Amend Section 1106.5.2.3 by deleting "where required" without substitution.

(7) Amend Section 1106.6.4 by deleting the last sentence and substituting the following: The fueling-system operator shall maintain a complete record of the last two (2) tests at all times, and the complete record shall be made available to the code official upon request.

(8) Delete Section 1106.15.1 in its entirety without substitution.

(9) Amend Section 1106.16 as follows:

(A) Delete "The fire code official is authorized to require" without substitution.

(B) Delete "to", after "operator" and before "establish", and substitute "shall".

(10) Amend Section 1106.19.2 by deleting the last sentence and substituting the following: Hoses removed from service shall not be returned to service until repaired or rendered safe.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-12; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-13 Chapter 12; dry cleaning

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 13. Chapter 12 is amended as follows:

(1) Delete Section 1201.2 in its entirety without substitution.

(2) Amend Section 1204.2.1 by deleting the text and substituting the following: Ventilation shall be in accordance with the Indiana Mechanical Code (675 IAC 18).

(3) Amend Section 1205.1.5 by deleting the first sentence and substituting the following: Equipment shall be maintained and operated in accordance with the manufacturer's instructions.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-13; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-14 Chapter 13; combustible dust-producing operations

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17-6

Sec. 14. Chapter 13 is amended as follows:

(1) Delete Section 1301.2 in its entirety without substitution.

(2) Amend Section 1304.1 by deleting the text and substituting the following: See IC 36-8-17-6.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-14; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-15 Chapter 14; fire safety during construction and demolition

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 15. Chapter 14 is amended as follows:

(1) Amend Section 1404.5 as follows:

(A) Delete "When required by the fire code official" without substitution.

(B) Delete "qualified" without substitution.

(C) Insert, after "nature" and before the comma, "the fire chief or Division of Fire and Building Safety shall require that approved".

(2) Delete Section 1411.3 in its entirety without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-15; filed Mar 18, 2008, 2:30 p.m.: 20080423-

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675 IAC 22-2.4-16 Chapter 15; flammable finishes
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 16. Chapter 15 is amended as follows:
(1) Delete Section 1501.2 in its entirety without substitution.
(2) Amend Section 1502, in the definition of Spraying Space, by deleting the last sentence without substitution.
(3) Amend Section 1504.3.2.5, in the definition of Clear Space, in Exceptions 1 and 2, by deleting "adequately" without substitution.
(4) Amend Section 1505.3.2 as follows:
(A) Amend the exception to number it #1.
(B) Add a second exception to read as follows: Exception 2. Bottom drains shall not be required for tanks that are equipped with automatic closing covers in accordance with Section 1505.7.
(5) Amend Section 1505.4.1 by deleting "1505.7" and substituting "1505.3.4".
(6) Amend Section 1505.9.1 by deleting the text and substituting the following: Tanks shall be located an approved distance from furnaces and combustible floors and shall not be located on combustible floors.
(7) Amend Section 1507.3.1 Barriers by deleting "adequately grounded" and substituting "grounded in an approved manner".
(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-16; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-17 Chapter 16; fruit and crop ripening
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 17. Chapter 16 is amended by deleting Section 1601.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-17; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-18 Chapter 17; fumigation and thermal insecticidal fogging
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 18. Chapter 17 is amended as follows:
(1) Delete Section 1701.2 in its entirety without substitution.
(2) Amend Section 1703.3.1 by deleting the text after "premises" without substitution.
(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-18; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-19 Chapter 18; semiconductor fabrication facilities
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 19. Chapter 18 is amended as follows:
(1) Delete Section 1801.5 in its entirety without substitution.
(2) Amend Section 1803.14.1 by deleting the second sentence of number one without substitution.
(3) Delete Section 1805.2.2.1 in its entirety without substitution.
(4) Delete Section 1805.2.2.2 in its entirety without substitution.
(5) Delete Section 1805.2.2.3 in its entirety without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-19; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-20 Chapter 19; lumber yards and woodworking facilities

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 20. Chapter 19 is amended as follows:

(1) Delete Section 1901.2 in its entirety without substitution.

(2) Amend Section 1903.7 by deleting the text after "submitted" and substituting "to the code official".

(3) Amend Section 1906.2 by deleting the exception in its entirety without substitution.

(4) Amend Section 1907.2 by deleting the exception in its entirety without substitution.

(5) Amend Section 1908.3 by deleting the exception in its entirety without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-20; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-21 Chapter 20; manufacture of organic coatings

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 21. Chapter 20 is amended as follows:

(1) Delete Section 2001.2 in its entirety without substitution.

(2) Amend Section 2006.5 by deleting the last two (2) sentences and substituting the following: The thin-down tank shall have an approved vent. Thinning operations shall be provided with an approved vapor removal system.

(3) Amend Section 2007.3 by deleting "adequately" in the first sentence and substituting "in an approved manner" after "physical damage".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-21; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-22 Chapter 21; industrial ovens

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 22. Chapter 21 is amended as follows:

(1) Delete Section 2101.2 in its entirety without substitution.

(2) Delete Section 2103.2 in its entirety without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-22; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-23 Chapter 22; motor fuel dispensing facilities and repair garages

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 23. Chapter 22 is amended as follows:

(1) Delete Section 2201.2 in its entirety without substitution.

(2) Amend Section 2201.3 by deleting the text and substituting the following: Plans and specifications shall be submitted in accordance with the General Administrative Rules (675 IAC 12-6).

(3) Amend Section 2202.1, Definitions, as follows:

(A) Amend AUTOMOTIVE FUEL DISPENSING FACILITY by adding "or approved containers" to the end of the definition.

(B) Add the following definition: SUPERVISED means that there is an attendant present to

oversee the operation of the dispensing devices.

(C) Add the following definition: UNSUPERVISED means that there is not an attendant present to oversee the operation of the dispensing devices.

(4) Amend Section 2204.3.2 by deleting the text and substituting the following: Dispensing devices shall comply with Section 2206.7. Dispensing devices operated by the insertion of coins or currency may be used provided change or credit can be issued.

(5) Amend Section 2204.3.7 by deleting numbers 1 and 2 in their entirety and substituting the following:

(1) Dispensing devices for Class I fuel shall be programmed or set to limit uninterrupted fuel delivery to twenty-five (25) gallons (ninety-five (95) L) and require a manual action to resume delivery; or

(2) The amount of fuel being dispensed shall be limited in quantity by a preprogrammed card.

(6) Delete Section 2205.1.1 in its entirety without substitution.

(7) Amend Section 2205.1.2 by deleting "an approved" and substituting "a".

(8) Amend Section 2205.1.3 by deleting "one thousand (1,000)" and substituting "one thousand one hundred (1,100)".

(9) Amend Section 2205.2.2 by deleting the text in its entirety and substituting the following: Automatic closing emergency shut-off valves required by Section 2206.7.4 shall be maintained in accordance with the manufacturer's instructions.

(10) Amend Section 2206.2 by deleting "motor" without substitution.

(11) Amend Section 2206.2.1.1 by deleting the text in its entirety and substituting the following: Accurate daily inventory records shall be maintained and reconciled on underground fuel storage tanks for indication of possible leakage from tanks and piping. The records shall be kept at the premises or readily available for inspection by the code official upon written request and shall include records for each product showing daily reconciliation between sales, use, receipts, and inventory on hand.

(12) Amend TABLE 2206.2.3 as follows:

(A) Add a listing to TABLE 2206.2.3 as follows:

Tank Type	Capacity	Nearest Building	Nearest Dispenser	Lot Line	Public Way	Between Tanks
Class III Liquids ASTs	Equal or less than 1,100	5	0[c]	10	10	5

(B) Add Footnote c to read: c Class III Fuel Dispensers.

(13) Amend Section 2206.2.3 by deleting the text in its entirety and substituting the following: Aboveground tanks located outside, above grade. Aboveground tanks shall not be used for the storage and dispensing of Class I, II, or IIIA liquid motor fuels except as provided by this section.

(1) Class I, II, or III-A liquids shall not be dispensed into the fuel tank of a motor vehicle from aboveground tanks at retail automotive service or self-service stations.

(2) Class I and II liquids shall not be dispensed into the fuel tanks of a motor vehicle from aboveground tanks at fleet vehicle service station except when such tanks are installed in accordance with the following:

1. INSTALLATION OF TANKS

Tanks shall be installed in accordance with Chapter 34 and shall be installed in special enclosures constructed in accordance with Section 2206.2.4 or in listed and approved tank enclosures or materials providing fire protection of not less than two (2) hours. The following additional criteria shall apply:

(a) Guard posts or other means shall be provided to protect the area where tanks are installed. The design shall be in accordance with Section 312,

(b) Each tank and each special enclosure shall be surrounded by a clear space of not less than three (3) feet to allow for maintenance and inspection,

(c) Warning signs and identification signs shall be installed to clearly identify hazards. The design shall be in accordance with Sections 2205.6, 2209.5.7, and 3404.2.3. Conspicuous signs prohibiting simultaneous tank filling and fuel dispensing shall be posted,

(d) Tanks containing motor fuels shall not exceed a ten thousand (10,000) gallon individual or eighteen thousand (18,000) gallon aggregate capacity. Installations having the maximum allowable aggregate capacity shall be separated from other such installations by not less than one hundred (100) feet, and

(e) Tanks shall be provided with automatic fuel shut-off devices capable of stopping the delivery of fuel when the level in the tank reaches ninety percent (90%) of tank capacity.

Exceptions: 1. Aboveground storage tanks for motor vehicle fuel-dispensing stations legally installed according to the code in effect at the time of installation and in operation prior to September 7, 1992.

2. Single tank installations where the fuel tank has a capacity of one thousand one hundred (1,100) gallons or less that are in compliance with Chapter 34 of this code.

3. Diesel tanks and dispensing operations when all the following criteria are met:

A. The distance in feet from any property line when not adjacent to a public way shall be double the distance specified in Table 2206.2.3.

B. The distance in feet from a property line adjacent to a public way, to include the opposite sides of a public way, shall be double the distance specified in Table 2206.2.3.

C. The distance in feet from adjacent structures shall be double the distance specified in Table 2206.2.3.

D. In compliance with Chapter 34 of this code.

E. The diesel tank shall be double the distance specified in Table 2206.2.3 for the property line including the opposite side of the public way from any nondiesel fuel tank or dispensing operation.

2. INSTALLATION OF DISPENSING SYSTEMS

Dispensing systems shall be installed in accordance with Chapters 22 and 34 except as follows:

(a) Motor fuels shall be transferred from tanks by means of fixed pumps that are designed and equipped to allow control of the flow and to prevent leakage or accidental discharge,

(b) Tank and tank enclosure openings shall be through the top only. Approved antisiphon devices shall be installed at each connection of piping to a tank when such piping extends below the level of the top of such tank, and

(c) Dispensing devices are allowed to be installed on top of special enclosures.

3. PLANS

Plans submitted under 675 IAC 12-6, Design Releases, shall include the method of storage and dispensing, quantities and types of liquids to be stored, distances from tanks and dispensers to property lines and buildings, vehicle access, fire appliances, collision barriers, design and construction of tanks and tank supports, secondary containment tank venting, vapor recovery provisions, and emergency controls.

4. MAINTENANCE

Tanks, special enclosures, and dispensing systems shall be maintained in proper condition. Damage shall be repaired immediately using materials having equal or greater strength and fire resistance.

(14) Add a new section follows: Section 2206.2.3.1 Storage Tanks at Bulk Plants. Aboveground tanks serving as bulk storage tanks shall not be used for fueling operations.

(15) Amend Section 2206.2.5 by deleting "Where approved by the fire code official" and "The approval shall include a definite time limit" and substituting "Temporary for the purpose of this section shall mean

not more than 90 days in any 365 day period.".

(16) Amend Section 2206.5 as follows:

(A) In the first paragraph, delete "Chapter 34" and substitute "Section 3404.2.10".

(B) Add an exception as follows: Exception: Approved aboveground tanks with a capacity of five hundred (500) gallons or less, utilized solely for the storage of used motor oil, and in compliance with EPA 40 CFR 279.22 and EPA 40 CFR 264.175 are exempt from the requirements of Section 3404.2.10.

(17) Amend Section 2206.7.4 to delete as follows: at least yearly thereafter in accordance with Section 2205.2.2.

(18) Amend Section 2206.7.6.1 by deleting item 2 in its entirety and renumbering items 3 and 4 accordingly.

(19) Amend Section 2206.7.9.1.3 by deleting the last sentence and substituting the following: Condensate tanks shall be designed and installed in accordance with the manufacturer's recommendation.

(20) Amend Section 2206.7.9.2.2 by deleting the last paragraph without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-23; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-24 Chapter 23; high-piled combustible storage

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-7-2-9; IC 36-8-17

Sec. 24. Chapter 23 is amended as follows:

(1) Delete Section 2301.2 in its entirety without substitution.

(2) Amend Section 2301.3 by deleting the first three (3) sentences and substituting the following: Plans including the information specified in Section 2301.3 shall be provided to the fire department authorized under IC 36-8-17, the local building official authorized under IC 36-7-2-9, and a local ordinance approved by the Commission. A copy of the plans shall be maintained on the premises.

(3) Amend Section 2301.4 by deleting the text and substituting the following: An evacuation plan for public accessible areas and a separate set of plans indicating location and width of aisles, location of exits and exit signs, height of storage, and locations of hazardous materials shall be provided to the fire department having jurisdiction for review. Following review of the plans, a copy of the plans shall be maintained on the premises in an approved location.

(4) Amend Section 2302.1, in the definition of HIGH PILED COMBUSTIBLE STORAGE as follows:

(A) Delete "When required by the fire code official,".

(B) Add a second sentence to read as follows: Aisles separating storage piles and racks shall be included in calculating the storage area.

(5) Amend TABLE 2306.2 by deleting "when required by the code official" from Footnotes d and g without substitution.

(6) Amend Section 2306.6 by deleting the exception without substitution.

(7) Amend Section 2306.6.1 by adding to the last sentence "and shall have landings in accordance with the Indiana Building Code (675 IAC 13) Section 1003.3.1.4".

(8) Amend Section 2306.6.1.1 by adding the following: Exception: In buildings having ESFR sprinkler systems, a minimum of one (1) access door shall be provided in each two hundred (200) lineal feet (sixty thousand nine hundred sixty (60,960 mm), or fraction thereof, of the exterior walls that face the required fire apparatus access road. Spacing between doors shall not exceed two hundred (200) lineal feet.

(9) Amend Section 2308.5 by deleting the text in its entirety and substituting the following: Extra high rack combustible storage shall be approved by the fire code official prior to installation.

(10) Amend Section 2308.5.1 by deleting ", when required by the fire code official" without substitution.

(11) Amend Section 2310.1, by deleting "NFPA 230" without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-24; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-25 Chapter 24; tents, canopies, and other membrane structures

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 25. Chapter 24 is amended as follows:

(1) Amend Section 2401.1 by deleting the text in its entirety and substituting the following: Except as otherwise provided in Sections 2404.7, 2404.15.5, and 2404.15.6, tents and membrane structures having an area in excess of 200 square feet and canopies in excess of 400 square feet shall be in accordance with Chapter 24.

Exception: Tents and membrane structures used exclusively for recreational camping purposes.

(2) Amend Section 2402.1 by adding the following definitions:

COMMERCIAL FOOD HEAT PROCESSING APPLIANCES. See the 2003 Indiana Mechanical Code (675 IAC 18-1.4).

COOKING. Cooking means to prepare food using processes such as: boiling, roasting, baking, broiling, and frying by a method of exposure to flame or heat that prepares food suitable for consumption.

OPEN OR EXPOSED FLAME EQUIPMENT. Open or exposed flame equipment means equipment with flame that is visible during the ordinary use of the equipment or device.

(3) Delete Section 2403.2 in its entirety without substitution.

(4) Amend Section 2403.3 by adding the following two (2) sentences: A tent, canopy, temporary membrane structure, air-supported or air-inflated structure with an occupant load of 50 or more shall be considered a place of assembly. Open or exposed flame equipment shall not be permitted in a place of assembly.

(5) Delete Section 2403.4 in its entirety without substitution.

(6) Amend Section 2403.5 by deleting "180" and substituting "30".

(7) Amend Section 2403.6 by deleting "with each application for approval" and substituting "to the fire department having jurisdiction".

(8) Amend Section 2403.7.1 by deleting the text in its entirety and substituting the following: An inspection report shall be made available to the fire department having jurisdiction and shall consist of maintenance, anchors, and fabric inspections.

(9) Amend Section 2403.8.1 by deleting the text in its entirety and substituting the following: Fire apparatus access roads shall be provided in accordance with Section 503 and shall extend to within 150 feet of all portions of the structure.

(10) Amend Section 2403.8.2 by deleting the text in its entirety and substituting the following: Temporary membrane structures, tents, canopies, air-supported, or air-inflated structures shall not be located within 20 feet of lot lines, buildings, other temporary membrane structures, other tents and canopies, parked vehicles, or internal combustion engines. For purposes of determining required distances, support ropes and guy wires shall be considered as part of the temporary membrane structure, tent, or canopy.

Exceptions: 1. Separation distance between temporary membrane structures, tents, and canopies, in which open or exposed flame equipment is not used, is not required when the aggregate floor area does not exceed 15,000 square feet.

2. Temporary membrane structures, tents, and canopies need not be separated from buildings when all of the following conditions are met:

2.1 The aggregate floor area of the temporary membrane structure, tent, or canopy shall not exceed 10,000 square feet.

2.2 The aggregate floor area of the building and temporary membrane structure, tent, or canopy shall not exceed the allowable floor area including increases in the Indiana Building Code.

2.3 All required exiting provisions for the building and the temporary membrane structure, tent, or canopy, including travel distance.

2.4 Fire apparatus access roads are provided in accordance with Section 503.

(11) Amend Section 2403.8.3 by deleting the text in its entirety and substituting the following: Tents, air-supported, air-inflated, or tensioned membrane structures having a single structure area of 15,000 square

feet or more shall be located not less than 50 feet from other tents or structures as measured from the side wall of the tent unless joined by a corridor.

(12) Amend Section 2403.8.4 by deleting the text in its entirety and substituting the following: Tents, air-supported, air-inflated, or tensioned membrane structures having a single structure area of 15,000 square feet or more are allowed to be joined by means of a corridor. Exits shall be provided at each end of such corridor. On each side of such corridor and approximately opposite each other, there shall be provided openings not less than 12 feet wide.

(13) Amend Section 2403.8.5 by deleting the text in its entirety and substituting the following: Temporary membrane structures, tents, canopies, and air-inflated and air-supported structures where the aggregate floor area is 15,000 square feet or greater shall have an unobstructed fire break passageway or fire road not less than 12 feet wide and free from guy ropes or other obstructions and shall be maintained on all sides of all tents, canopies, and air-supported, air-inflated, or tensioned membrane structures.

(14) Amend Section 2403.12.5.1 by deleting the text in its entirety and substituting the following: A plan indicating the exit ways, aisles, and seating shall be provided to the fire department having jurisdiction, and a copy shall be maintained on the premises. Aisles shall be maintained clear at all times during occupancy.

(15) Amend Section 2404.2 as follows:

(A) Delete "before a permit is granted" without substitution.

(B) Delete "by the permit" without substitution.

(16) Delete Section 2404.4 in its entirety without substitution.

(17) Amend Section 2404.7 by deleting the text in its entirety and substituting the following: Open or exposed flame equipment. Open or exposed flame equipment emitting flame that is visible during the ordinary use of the equipment shall be permitted in temporary membrane structures or tents having an aggregate area less than 200 square feet and canopies having an aggregate area less than 400 square feet. All temporary membrane structures, tents, canopies, air-inflated, air-supported, tensioned membrane structures, buildings, parked vehicles, or internal combustion engines shall not be located within 10 feet.

(18) Delete Section 2404.13 in its entirety without substitution.

(19) Amend Section 2404.15.1 by deleting "and shall be approved by the code official" and substituting "in effect at the time the equipment is installed".

(20) Amend Section 2404.15.2 as follows:

(A) At the end of the first sentence, add ", in effect at the time the equipment is installed".

(B) Delete "when required" from the second sentence and substitute "having openings not exceeding one-fourth (1/4) inch (six and four-tenths (6.4) mm) wire mesh".

(21) Amend Section 2404.15.5 by deleting the text in its entirety and substituting the following:

(1) Temporary membrane structures, tents, and canopies where open or exposed flame equipment is used for cooking shall comply with Section 2406.6.

(2) Temporary membrane structures, tents, and canopies where open or exposed flame cooking is performed shall be separated from other temporary membrane structures, tents, canopies, air-inflated, air-supported, and tensioned membrane structures, buildings, parked vehicles, or internal combustion engines by a minimum distance of 10 feet.

(3) Cooking that produces grease-laden vapors is permitted in temporary membrane structures, tents, or canopies when commercial food heat-processing appliances are used that are listed and installed in accordance with Sections 2411.1 and 2411.2.

(4) When open or exposed flame cooking equipment, other than commercial food heat-processing appliances, is used, surfaces subject to oil or grease deposits shall be cleaned at intervals frequently enough to prevent oil or grease deposits from exceeding a thickness of twenty-five thousandths (0.025) inch.

(5) Cooking that does not use open or exposed flame cooking equipment may be performed in tents, canopies, and temporary membrane structures that comply with Section 2406.1.

(22) Amend Section 2404.15.6 by deleting the text in its entirety and substituting the following: Outdoor cooking that produces sparks shall not be performed within 10 feet of a temporary membrane structure, tent, canopy, air-inflated, air-supported, or tensioned membrane structure.

(23) Amend Section 2404.16.2.1 by deleting the text in its entirety and substituting the following: Portable

LP-gas containers of 500 gallons or less capacity shall have a minimum separation between the container and any fuel-operated device, including, without limitation, LP-gas, gasoline, electric, wood, coal, or charcoal-fueled equipment of not less than 10 feet, but in no event shall the container be located within or under the tent, canopy, or temporary membrane structure.

(24) Delete Section 2404.16.2.2 in its entirety without substitution.

(25) Delete Section 2404.20 in its entirety without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-25; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-26 Chapter 25; tire rebuilding and tire storage

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 26. Chapter 25 is amended as follows:

(1) Delete Section 2501.2 in its entirety without substitution.

(2) Amend Section 2504.5 by deleting "and approval" in the first sentence without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-26; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-27 Chapter 26; welding and other hot work

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 27. Chapter 26 is amended as follows:

(1) Delete Section 2601.2 in its entirety without substitution.

(2) Amend Section 2601.3 as follows:

(A) Delete "unless approval has been obtained from the code official" without substitution.

(B) Delete "4" and "5" without substitution.

(3) Amend Section 2602.1 to change the definition of HOTWORKS PERMITS by deleting "and prepermitted by the code official" without substitution.

(4) Amend Section 2604.1.8 by deleting the text in the last sentence in its entirety and substituting the following: The code official shall be notified where the sprinkler protection is impaired.

(5) Amend Section 2604.1.9 by deleting "approved" without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-27; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-28 Chapter 27; hazardous materials – general provisions

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 28. Chapter 27 is amended as follows:

(1) Amend Section 2701.1 by adding a new exception to read as follows: Exception 11. Laboratory use of hazardous chemicals provided a Chemical Hygiene Plan as defined in Section 2702 of the code has been implemented at the facility.

(2) Amend Section 2701.2.1 by deleting the text after "reference standards;" and substituting "by a recognized organization, or material safety data sheet (MSDS)".

(3) Amend Section 2701.3 by deleting it in its entirety and substituting the following: "See 675 IAC 12-6-11.".

(4) Delete Section 2701.5 in its entirety without substitution.

(5) Amend Section 2701.5.1 by deleting the text in its entirety and substituting the following: Hazardous materials management plan. Regulation by the Emergency Planning and Community Right to Know Act (EPCRA) as set forth at 42 U.S.C. 11001, et seq., constitutes compliance with Section 2701.4.1. For

hazardous materials used, stored, dispensed, or handled in excess of quantities listed in TABLES 2703.1.1, an owner or operator of a facility not regulated by the Federal Emergency Planning and Community Right to Know Act shall notify the servicing fire department in writing and shall, when asked, allow the fire department to conduct an on-site health hazardous materials inspection of the facility and to provide the fire department specific location information on those hazardous materials.

(6) Amend Section 2701.5.2 by deleting the text in its entirety and substituting the following: Hazardous materials management plan. This section does not apply to facilities regulated under the Emergency Planning and Community Right to Know Act (EPCRA) as set forth at 42 U.S.C. 11001, et seq. For hazardous materials used, stored, dispensed, or handled in excess of the quantities listed in TABLES 2703.1.1, an owner or operator of a facility not regulated by the Federal Emergency Planning and Community Right to Know Act shall notify the servicing fire department in writing and shall, when asked, allow the fire department to conduct on *[sic]* on-site health hazardous materials inspection of the facility and provide to the fire department specific location information on those hazardous materials.

(7) Amend Section 2701.6.1 by deleting "maintain a permit and" without substitution.

(8) Amend Section 2701.6.2, by changing the following:

(A) Delete "permit" and substitute "hazardous materials management plan".

(B) Delete "an approved manner" and substitute "accordance with Section 2701.5.3".

(C) Delete the second and third sentences without substitution.

(9) Amend Section 2701.6.3 by deleting the text in its entirety and substituting the following: Facility closure plan. The owner or operator shall submit a plan to the servicing fire department to terminate storage, dispensing, handling, or use of hazardous materials at least thirty (30) days prior to facility closure. The plan shall demonstrate that hazardous materials that were stored, dispensed, handled, or used in the facility have been transported, disposed of, or reused in a manner that eliminates the need for further maintenance and any threat to public health and safety.

(10) Amend Section 2702.1 by adding the following definition: LABORATORY means a facility where the "laboratory use of hazardous chemicals" occurs. It is a facility where relatively small quantities of hazardous chemicals are used on a nonproduction basis.

(11) Amend Section 2703.2.6.1.1 by deleting "be tested in an approved manner" and substituting "not be defective and shall be compatible with the liquid to be stored".

(12) Amend Section 2703.3.1 by deleting the text in its entirety and substituting the following: Any unplanned sudden or nonsudden release into the environment of a listed hazardous substance that exceeds in any 24-hour period the reportable quantity for that substance, as identified in TABLE 302.4 of 40 CFR 302 and 40 CFR 355 Appendix A (July 1, 1997), and either causes a fire and/or explosion hazard, such as one that threatens contiguous property or the general public or causes an injury requiring emergency medical treatment, must be immediately reported to the servicing fire department.

(13) Amend Section 2703.3.1.1 by deleting the text in its entirety and substituting the following: Records shall be provided of the unauthorized discharge of hazardous materials by the owner or the operator.

(14) Amend Table 2703.1.1(1) as follows:

(A) Add a "q" to the table next to "Cryogenic Oxidizing" in the "Material" column.

(B) Add a footnote as follows:

q. I-2 occupancies shall be permitted to contain the following quantities:

1. 300 cu. ft. or less per smoke compartment may be stored without an enclosure if associated with patient care areas. (See Section 407.4 for smoke compartment requirements.)

2. 3,000 cu. ft. or less per room may be stored in rooms separated from adjacent spaces by smoke partitions complying with Section 710.

3. 20,000 cu. ft. or less per room may be stored in rooms separated from adjacent spaces by 1-hour fire barriers complying with Section 706.

4. Regardless of quantities, rooms containing manifolds shall be separated from adjacent spaces by 1-hour fire barriers complying with Section 706.

5. Regardless of quantities, rooms used for liquid oxygen transfer shall be separated from adjacent spaces by 1-hour fire barriers complying with Section

706.

(15) Amend Section 2703.3.1.4 by deleting the title and text in its entirety and substituting the following: Responsibility for control and mitigation. The person, firm, or corporation responsible for an unplanned sudden or nonsudden release shall institute and complete all actions necessary to remedy the effects of such unplanned release at no cost to the servicing fire department. Control and mitigation may be initiated by the fire department or by an authorized individual or firm. Cost associated with such control or mitigation shall be borne by the owner, operator, or other person responsible for the release.

(16) Amend Section 2703.4 by deleting the text in its entirety and substituting the following: 2703.4 Material Safety Data Sheets (MSDS) for applicable hazardous materials shall be kept in a location that is acceptable to both the facility operator and the servicing fire department.

(17) Amend Table 2703.8.3.2 by adding a "c" by the title of the table and adding a footnote "c" as follows,

c. This Table shall not apply to the storage or use of Oxidizing Cryogenics, Oxidizing Gasses, and Liquefied Oxidizing Gasses in I-2 occupancies.

(18) Amend Section 2703.8.7.1 by deleting "either be listed in accordance with UL 1275 as suitable for the intended storage or constructed in accordance with the following" in the last sentence and substituting the following: be one of the following:

a. listed in accordance with UL 1275 as suitable to the intended storage

b. approved by the code official

c. in compliance with the rules of the Commission or its predecessor agencies in effect at the time that the materials, including quantities and their location, were first stored, or

d. constructed in accordance with the following:

(19) Amend Section 2704.10 by adding an exception as follows: Exception: A facility that is provided with a watchman service and is provided with an audible fire alarm system that can be heard by the watchman in all areas of the facility.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-28; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-29 Chapter 28; aerosols

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 29. Chapter 28 is amended as follows:

(1) Delete Section 2801.2 in its entirety without substitution.

(2) Amend Section 2801.3 by deleting "at an approved location" without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-29; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-30 Chapter 29; combustible fibers

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 30. Chapter 29 is amended as follows:

(1) Delete Section 2901.3 in its entirety without substitution.

(2) Amend Section 2903.4 by deleting the text in its entirety and substituting the following: Agricultural products and combustible fibers. Combustible fibers, hay, straw, or similar agricultural products shall not be stored adjacent to structures or combustible materials unless a clear horizontal distance equal to the height of a pile is maintained between such storage and structures or combustible materials. Storage shall be limited to stacks of one hundred (100) tons (ninety-one (91) metric tons) each. Stacks shall be separated by a minimum of twenty (20) feet (six thousand ninety-six (6,096) mm) of clear space. Exterior storage of agricultural products and combustible fibers shall be surrounded with an approved fence. Fences shall be a minimum of six (6) feet (one thousand eight hundred twenty-nine (1,829) mm) in height. Quantities of hay, straw, and other agricultural products shall not be limited or fencing required when stored in or near farm

structures located outside closely built areas. A permit shall not be required for agricultural storage.

(3) Amend Section 2904.3 by deleting "approved" and substituting "listed".

(4) Amend Section 2904.4 by deleting "approved" and substituting "listed".

(5) Amend Section 2905.1 by adding a sentence to the end as follows: Automatic sprinkler protection shall be provided for interior storage of quantities exceeding one thousand (1,000) cubic feet.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-30; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-31 Chapter 30; compressed gases

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 31. Chapter 30 is amended as follows:

(1) Delete Section 3001.2 in its entirety without substitution.

(2) Amend Section 3003.5.1 by deleting "in an approved manner" without substitution.

(3) Amend Section 3003.15 by deleting "approved" without substitution.

(4) Amend Section 3003.16.1 by deleting, in the exception, "Where approved by the fire code official,".

(5) Amend Section 3006.2 by deleting "the permit amount" and substituting "(five hundred four (504) cubic feet)".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-31; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-32 Chapter 31; corrosive materials

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 32. Chapter 31 is amended as follows: Delete Section 3101.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-32; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-33 Chapter 32; cryogenic fluids

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 33. Chapter 32 is amended as follows:

(1) Delete Section 3201.2 in its entirety without substitution.

(2) Amend Section 3203.1.1.1 by deleting item 6 without substitution.

(3) Amend Section 3203.11 by deleting "when required," without substitution.

(4) Amend Section 3204.3.1.3, by deleting, from the exception, "it is determined by the code official that" without substitution.

(5) Amend Section 3204.3.2.2 by deleting the exception without substitution.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-33; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-34 Chapter 33; explosives and fireworks

Authority: IC 22-13-2-2

Affected: IC 22-11-14-1; IC 22-12-7; IC 22-13; IC 22-14-4-2; IC 35-47.5-3-1; IC 35-47.5-4-4.5; IC 36-8-17

Sec. 34. Chapter 33 is amended as follows:

(1) Amend the title of this chapter by adding "Manufacturing and Storage of" before "fireworks".

(2) Amend Section 3301.1 as follows:

(A) Delete Exception 4 and substitute "Commercially manufactured black powder in quantities not to exceed fifty (50) pounds, percussion caps, safety and pyrotechnic fuses, quills, quick and slow matches, and friction primers, if the black powder is intended to be uses solely for sporting, recreational, or cultural purposes in antique firearms or antique devices."

(B) Add an Exception 10 to read as follows: 10. The sale, possession, use, and handling of fireworks 1.3G (Special fireworks) as set forth in NFPA 1123 (675 IAC 28-1-39).

(C) Add an Exception 11 to read as follows: 11. The sale, possession, or use of fireworks 1.4G (Class C common fireworks).

(D) Add an Exception 12 to read as follows: 12. The sale, transfer, storage, possession, use and handling of pyrotechnics before a proximate audience as set forth in NFPA 1126 (675 IAC 22-2.2-26).

(3) Amend Section 3301.1.1 as follows:

(A) Delete ", sale, handling" without substitution.

(B) Insert a second sentence "NFPA 495 is adopted by the Commission at 675 IAC 26-3 as part of the regulations for possession and usage of explosives for all uses except coal mining.".

(4) Amend Section 3301.1.2 by deleting ", the operation of explosive material terminals shall conform to the provisions of NFPA 498" without substitution.

(5) Delete Section 3301.1.3 in its entirety without substitution.

(6) Delete Section 3301.1.4 in its entirety without substitution.

(7) Amend Section 3301.1.5 as follows:

(A) Delete "NFPA 490 and" without substitution.

(B) Insert "and 675 IAC 26-3" after Chapter 40.

(C) Delete the exception without substitution.

(8) Amend Section 3301.2 by deleting the text in its entirety and substituting "Permits shall be as required in IC 22-11-14, IC 22-14-4, 675 IAC 12-3 and 675 IAC 12-9-4.".

(9) Amend Section 3301.2.1 by deleting the title and text in its entirety and substituting the following: Bond. See IC 22-14-4-2.

(10) Delete Section 3301.2.2 in its entirety without substitution.

(11) Delete Section 3301.2.3 in its entirety without substitution.

(12) Delete Section 3301.2.4 in its entirety without substitution.

(13) Delete Section 3301.2.4.1 in its entirety without substitution.

(14) Delete Section 3301.2.4.2 in its entirety without substitution.

(15) Delete Section 3301.3 in its entirety without substitution.

(16) Amend Section 3301.4 as follows:

(A) Delete "blasting," without substitution.

(B) Insert a new sentence "Persons in charge of blasting shall comply with IC 35-47.5-4-4.5.".

(17) Delete Section 3301.5 in its entirety without substitution.

(18) Amend Section 3301.6 by deleting "48 hours in advance, not including Saturdays, Sundays and holidays," and substituting "immediately".

(19) Delete Section 3301.7 in its entirety without substitution.

(20) Amend Section 3301.8.1.1 by deleting "3304.5.2(2)" and substituting "3304.5.2(1)".

(21) Amend Section 3301.8.1.2 by deleting "3304.5.2(3)" and substituting "3304.5.2(2)" in numbers 1 and 2.

(22) Amend Table 3301.8.1(1), in Column 2 ("Magazine"), Column 6 ("Operating Building"), and Column 8 ("Public Traffic Route"), Rows 2, 3, 4, and 5, by deleting "3304.5.2(2)" and substituting "3304.5.2(1)".

(23) Amend Table 3301.8.1(2), in Column 2 ("Magazine"), Column 6 ("Inhabited Building"), and Column 8 ("Public Traffic Route"), Rows 2, 3, 4, and 5, by deleting "3304.5.2(3)" and substituting "3304.5.2(2)".

(24) Amend Table 3301.8.1(3), in Column 2 ("Magazine"), Column 4 ("Operating Building"), Column 6 ("Inhabited Building"), and Column 8 ("Public Traffic Route"), Rows 2, 3, 4, and 5, by deleting "3304.5.2(4)" and substituting "3304.5.2(3)".

(25) Amend Section 3301.8.1.3 as follows:

(A) In number 1, delete "3304.5.2(3) or" without substitution.

(B) In number 2, delete "3304.5.2(2)" and substitute "3304.5.2(1)".
(C) In number 2, delete "3304.5.2(3)" and substitute "3304.5.2(2)".
(D) In number 3, delete "3304.5.2(2)" and substitute "3304.5.2(1)".
(E) In number 4, delete "3304.5.2(2)" and substitute "3304.5.2(1)".
(F) In number 4, delete "3304.5.2(3)" and substitute "3304.5.2(2).

(26) Amend Section 3302, Definitions, as follows:

(A) Amend Blast Area by deleting the text in its entirety and substituting "See 675 IAC 26-3-1".
(B) Amend Blaster by deleting the text in its entirety and substituting "See 675 IAC 26-3-1(e)".
(C) Add the following definition for Blasting Cap: BLASTING CAP. A blasting cap is a shell closed at one (1) end and containing a charge of a detonating compound which is ignited by a safety fuse. It is used for detonating explosives.
(D) Amend Bullet Resistant by adding the following after the last sentence: Magazines that are required to be bullet resistant shall be constructed using a method described in items (1) through (20) below. Steel and wood dimensions indicated are actual thicknesses. Concrete block and brick dimensions indicated are the manufacturer's represented thicknesses.

1. Exterior of five-eighths (5/8) inch (fifteen and nine-tenths (15.9) mm) steel, lined with an interior of any type of nonsparking material.
2. Exterior of one-half (1/2) inch (twelve and seven-tenths (12.7) mm) steel, lined with an interior of not less than three-eighths (3/8) inch (nine and five-tenths (9.5) mm) plywood.
3. Exterior of three-eighths (3/8) inch (nine and five-tenths (9.5) mm) steel, lined with an interior of two (2) inches (fifty and eight-tenths (50.8) mm) of hardwood.
4. Exterior of three-eighths (3/8) inch (nine and five-tenths (9.5) mm) steel, lined with an interior of three (3) inches (seventy-six and two-tenths (76.2) mm) of softwood or two and one-fourth (2 1/4) inches (fifty-seven and two-tenths (57.2) mm) of plywood.
5. Exterior of one-fourth (1/4) inch (six and four-tenths (6.4) mm) steel, lined with an interior of three (3) inches (seventy-six and two-tenths (76.2) mm) of hardwood.
6. Exterior of one-fourth (1/4) inch (six and four-tenths (6.4) mm) steel, lined with an interior of five (5) inches (one hundred twenty-seven (127) mm) of softwood or five and one-fourth (5 1/4) inches (one hundred thirty-three and four-tenths (133.4) mm) of plywood.
7. Exterior of one-fourth (1/4) inch (six and four-tenths (6.4) mm) steel, lined with an intermediate layer of two (2) inches (fifty and eight-tenths (50.8) mm) of hardwood, and an interior lining of one and one-half (1 1/2) inches (thirty-eight and one-tenth (38.1) mm) of plywood.
8. Exterior of three-sixteenths (3/16) inch (four and eight-tenths (4.8) mm) steel, lined with an interior of four (4) inches (one hundred one and six-tenths (101.6) mm) of hardwood.
9. Exterior of three-sixteenths (3/16) inch (four and eight-tenths (4.8) mm) steel, lined with an interior of seven (7) inches (one hundred seventy-seven and eight-tenths (177.8) mm) of softwood or six and three-fourths (6 3/4) inches (one hundred seventy one and four-tenths (171.4) mm) of plywood.
10. Exterior of three-sixteenths (3/16) inch (four and eight-tenths (4.8) mm) steel, lined with an intermediate layer of three (3) inches (seventy-six and two-tenths (76.2) mm) of hardwood, and an interior lining of three-fourths (3/4) inch (nineteen and one-tenth (19.1) mm) of plywood.
11. Exterior of one-eight (1/8) inch (three and two-tenths (3.2) mm) steel, lined with an interior of five (5) inches (one hundred twenty-seven (127) mm) of hardwood.
12. Exterior of one-eighth (1/8) inch (three and two-tenths (3.2) mm) steel, lined with an interior of nine (9) inches (two hundred twenty-eight and six-tenths (228.6) mm) of softwood.
13. Exterior of one-eighth (1/8) inch (three and two-tenths (3.2) mm) steel, lined with an intermediate layer of four (4) inches (one hundred one and six-tenths (101.6) mm) of

hardwood, and an interior lining of three-fourths (3/4) inch (nineteen and one-tenth (19.1) mm) plywood.

14. Exterior of any type of fire resistant material which is structurally sound, lined with an intermediate layer of four (4) inches (one hundred one and six-tenths (101.6) mm) of solid concrete block or four (4) inches (one hundred one and six-tenths (101.6) mm) of solid brick or four (4) inches (one hundred one and six-tenths (101.6) mm) of solid concrete, and an interior lining of one-half (1/2) inch (twelve and seven-tenths (12.7) mm) plywood placed securely against the masonry lining.

15. Standard eight (8) inch (two hundred three and two-tenths (203.2) mm) concrete block with voids filled with a well-tamped sand/cement mixture.

16. Standard eight (8) inch (two hundred three and two-tenths (203.2) mm) solid brick.

17. Exterior of any type of fire resistant material which is structurally sound, lined with an intermediate six (6) inch (one hundred fifty-two and four-tenths (152.4) mm) space filled with well-tamped dry sand or a well-tamped sand/cement mixture.

18. Exterior of one-eighth (1/8) inch (three and two-tenths (3.2) mm) steel, lined with a first intermediate layer of three-fourths (3/4) inch (nineteen and one-tenth (19.1) mm) plywood, a second intermediate layer of three and five-eighths (3 5/8) inches (ninety-two and one-tenth (92.1) mm) of a well-tamped dry sand or sand/cement mixture, and an interior lining of three-fourths (3/4) inch (nineteen and one-tenth (19.1) mm) plywood.

19. Exterior of any type of fire resistant material, lined with a first intermediate layer of three-fourths (3/4) inch (nineteen and one-tenth (19.1) mm) plywood, a second intermediate layer of three and five-eighths (3 5/8) inches (ninety-two and one-tenth (92.1) mm) of a well-tamped dry sand or sand/cement mixture, a third intermediate layer of three-fourths (3/4) inch (nineteen and one-tenth (19.1) mm) plywood, and a fourth intermediate layer of two (2) inches (fifty and eight-tenths (50.8) mm) of hardwood or not less than sixty-eight thousandths (0.068) inch (one and seven-tenths (1.7) mm) of steel, and an interior lining of three-fourths (3/4) inch (nineteen and one-tenth (19.1) mm) plywood.

20. Eight (8) inch thick (two hundred three and two-tenths (203.2) mm) solid concrete.

Methods of construction other than those specified above are acceptable as bullet resistant construction when tested as described below as follows:

(A) Tests to determine bullet resistance shall be conducted on test panels or empty magazines that shall resist five (5) out of five (5) shots placed independently of each other in an area three (3) feet by three (3) feet (nine hundred fourteen and four-tenths (914.4) mm by nine hundred fourteen and four-tenths (914.4) mm).

(B) For ceilings and roofs, the bullet shall be fired at an angle of forty-five (45) degrees from the perpendicular.

(C) For walls and doors, the bullet shall be fired perpendicular to the wall or door.

(E) Add the following definition for Deflagration: DEFLAGRATION. Deflagration is an exothermic reaction, such as the extremely rapid oxidation of a combustible dust or flammable vapor in air, in which the reaction progresses through the unburned material at a rate less than the velocity of sound. A deflagration can have an explosive effect.

(F) Amend Discharge Site by deleting the text and inserting "See 675 IAC 28-1-39".

(G) Add Display as follows: DISPLAY. See 675 IAC 28-1-39.

(H) Amend Display Site by deleting the text and inserting "See 675 IAC 28-1-39".

(I) Add the following definition for DOT: DOT. DOT is the United States Department of Transportation.

(J) Add the following definition for Electric Blasting Cap: ELECTRIC BLASTING CAP. An electric blasting cap is a detonator that consists of a shell closed at one (1) end. The other end contains electric wires that have been sealed into the shell. It contains a charge of detonating

compound that is ignited or initiated by applying electric current to the wires protruding from the detonator.

(K) Amend Explosive by deleting "The term 'explosive' includes any material determined to be within the scope of USC Title 18: Chapter 40 and also includes any material classified as an explosive other than consumer fireworks, 1.4G (Class C, Common) by the hazardous materials regulations of DOTn 49 CFR" and inserting "The term 'explosive' includes regulated explosives as defined in IC 35-47.5-3-1.".

(L) Amend Explosive Material by deleting the text and inserting "See 675 IAC 26-3-1.".

(M) Amend Fallout Area by deleting the text and inserting "See 675 IAC 28-1-39.".

(N) Add the following definition for Fire Resistant: FIRE RESISTANT. Fire resistant refers to the construction designed to provide reasonable protection against fire. For exterior walls of magazines constructed of wood, this shall mean fire-resistance equivalency provided by sheet metal of not less than one hundred seventy-nine ten thousandths (0.0179) inch (forty-five hundredths (0.45) mm) (twenty-six (26) manufacturer's standard gage).

(O) Amend Fireworks by deleting the text and inserting "See IC 22-11-14-1.".

(P) Amend Fireworks Display by deleting the text and inserting "See 675 IAC 28-1-39.".

(Q) Add the following definition for Hardwood: HARDWOOD. Hardwood refers to types of wood, such as red oak, white oak, hard maple, ash, or hickory, each of which is free from knots, wind shakes, or similar defects.

(R) Add the following definition for Intraplant Distance: INTRAPLANT DISTANCE. Intraplant distance refers to the minimum distance permitted between two (2) buildings on an explosives manufacturing site, when at least one (1) of the buildings contains or is designed to contain explosives.

(S) Amend Magazine by deleting the text after the first sentence and inserting the following: INDOOR. An indoor magazine is a portable structure, such as a box, bin, or other container. Indoor magazines shall be fire resistant and theft resistant. Indoor magazines constructed of wood shall have sides, bottoms, and lids or doors constructed of two (2) inch (fifty and eight-tenths (50.8) mm) wood and shall be well braced at corners. The magazines shall be covered on the exterior with steel not less than sixteen-thousandths (0.016) inch (forty-one hundredths (0.41) mm) (twenty-six (26) gage) thick. Indoor magazines constructed of metal shall have sides, bottoms, and lids or doors constructed of not less than ninety-seven thousandths (0.097) inch (two and five-tenths (2.5) mm) (twelve (12) gage) steel and shall be lined with a minimum of one-half (1/2) inch (twelve and seven-tenths (12.7) mm) of nonsparking material.

Exception: Type 5 indoor magazines used for the storage of blasting agents need not be fire resistant.

Indoor magazines need not be bullet resistant or weather resistant if the buildings in which they are stored provide protection from the weather and bullet penetration. Hinges and hasps shall be attached to doors or lids by welding, riveting, or bolting with nuts on the inside so that doors or lids cannot be removed when closed and locked. Each magazine shall be equipped with a steel padlock, which need not be protected by a steel hood, having at least five (5) tumblers with a case-hardened shackle of at least three-eighths (3/8) inch (nine and five-tenths (9.5) mm) diameter. Indoor magazines shall have substantial wheels or casters to facilitate removal from a building in case of emergency. The least horizontal dimension shall not exceed the clear width of the entrance door. Magazines shall be painted red, and the lid or door shall bear in conspicuous white lettering, at least three (3) inches (seventy-six and two-tenths (76.2) mm) high, EXPLOSIVES–KEEP FIRE AWAY. The indoor storage of high explosives shall not exceed fifty (50) pounds (twenty-two and seven-tenths (22.7) kg). Detonators shall be stored in a separate magazine from other explosive materials, and the total number of detonators stored shall not exceed five thousand (5,000). Indoor magazines containing blasting agents in excess of fifty (50) pounds (twenty-two and seven-tenths (22.7) kg) shall be located in accordance with Table 3304.5.2(1). See also Section 3304.5.

TYPE 1 MAGAZINES. A Type 1 magazine is a permanent structure, such as a building or igloo, that is bullet resistant, fire resistant, theft resistant, weather resistant, and ventilated. Floors shall be

constructed of wood or other suitable nonsparking materials. Foundations shall be constructed of brick, concrete, cement block, stone, or wood posts. If piers or posts are used in lieu of a continuous foundation, the space under the buildings shall be enclosed with fire resistant materials. Where it is possible for a bullet to be fired directly through the roof and into the magazine at such an angle that the bullet could strike the explosives within, the magazine roof shall be bullet resistant or shall be protected by one (1) of the following methods:

1. A sand tray having a depth of four (4) inches (one hundred one and six-tenths (101.6) mm) of sand and located at the top of the inner walls covering the entire ceiling area, except that portion necessary for ventilation.
2. Either not less than thirty-three thousandths (0.033) inch (eighty-four hundredths (0.84) mm) (twenty (20) gage) steel with four (4) inches (one hundred one and six-tenths (101.6) mm) of hardwood or not less than forty-three thousandths (0.043) inch (one and one-tenth (1.1) mm) (eighteen (18) gage) aluminum with seven (7) inches (one hundred seventy-seven and eight-tenths (177.8) mm) of hardwood. Doors shall be bullet resistant. Hinges and hasps shall be attached to the doors by welding, riveting, or bolting with nuts on the inside of the door. Hinges and hasps shall be installed in such a manner that they cannot be removed when the doors are closed and locked. Each door shall be equipped with two (2) mortise locks, two (2) padlocks fastened in separate hasps and staples, a combination of a mortise lock and a padlock, a mortise lock that requires two (2) keys to open, or a three-point or equivalent-type lock that secures the door to the frame at more than one (1) point. Padlocks shall be steel having at least five (5) tumblers and at least a three-eighths (3/8) inch (nine and five-tenths (9.5) mm) diameter case-hardened shackle. Padlocks shall be protected by not less than one-fourth (1/4) inch (six and four-tenths (6.4) mm) steel hoods constructed in a manner which prevents sawing or lever action on the locks, hasps, and staples.

Exception: Magazine doors that are secured on the inside by means of a bolt, lock, or bar that cannot be actuated from the outside.

Ventilation shall be provided to prevent dampness and heating of stored explosive materials. Ventilation openings shall be screened to prevent the entrance of sparks. Ventilation openings in side walls and foundations shall be offset or shielded for bullet resistant purposes. Magazines having foundation and roof ventilators with the air circulating between the side walls and the floors and between the side walls and the ceiling shall have a wooden lattice or equivalent to prevent the packages of explosive materials from being stacked against the side walls and blocking the air circulation. Sparking material shall not be exposed to contact with the stored explosive materials. Ferrous metal nails in the floor and side walls, which could be exposed to contact with explosive materials, shall be blind nailed, countersunk, or covered with a nonsparking latticework or other nonsparking material. See also Section 3304.5.

TYPE 2 MAGAZINES. A Type 2 magazine shall be a box, trailer, semitrailer, or other mobile facility. A Type 2 magazine shall be bullet resistant, fire resistant, weather resistant, theft resistant, and ventilated. Walls, ceiling and roof construction, hinges, hasps, locks, ventilation, and interior construction shall be constructed as required for Type 1 magazines. Type 2 magazines shall be supported to prevent the floor from having direct contact with the ground. Magazines less than one (1) cubic yard (seventy-six hundredths (0.76) m^3) in size shall be fastened to a fixed object to prevent theft of the entire magazine. Vehicular magazines shall be immobilized by removing the wheels, locking with a kingpin locking device, or other approved methods.

TYPE 3 MAGAZINES. A Type 3 magazine shall be a "day box" or other portable magazine. Type 3 magazines shall be theft resistant, fire resistant, and weather resistant. Type 3 magazines shall be constructed of not less than ninety-seven thousandths (0.097) inch (two and five-tenths (2.5) mm) (twelve (12) gage) steel lined with at least one-half (1/2) inch (twelve and seven-tenths (12.7) mm) plywood or masonite. Doors shall overlap sides by at least one (1) inch (twenty-five and four-tenths (25.4) mm). Hinges and hasps shall be attached by welding, riveting, or bolting with nuts on the inside. Type 3 magazines shall have one (1) steel padlock having at least five (5) tumblers and

a case-hardened shackle of at least three-eighths (3/8) inch (nine and five-tenths (9.5) mm) diameter. Explosive materials shall not be left unattended in a Type 3 magazine. When Type 3 magazines will be left unattended, explosive materials shall first be moved to a Type 1 or 2 magazine.

TYPE 4 MAGAZINES. A Type 4 magazine shall be a permanent, portable, or mobile structure, such as a building, igloo, box, semitrailer, or other mobile container, that shall be fire resistant, theft resistant, and weather resistant. Outdoor magazines shall be constructed of masonry, metal-covered wood, fabricated metal, or a combination of these materials. Doors shall be metal or solid wood covered with metal. Permanent magazines shall be constructed as required for Type 1 magazines with respect to foundations, floors, ventilation, and locking devices. Vehicular magazines shall be immobilized when unattended as required for Type 2 magazines.

TYPE 5 MAGAZINES. A Type 5 magazine shall be a building, igloo, box, bin, tank, semitrailer, bulk-trailer, tank trailer, bulk truck, tank truck, or other mobile container. Outdoor Type 5 magazines shall be weather resistant and theft resistant. Construction shall be of wood, wood covered with metal, masonry, fabricated metal, or a combination of these materials. Doors shall be metal or solid wood. Permanent Type 5 magazines shall be constructed as required for Type 1 magazines with respect to foundations, floors, ventilation, and locking devices. Vehicular magazines shall be immobilized when unattended, as required for Type 2 vehicular magazines. Over-the-road trucks and semitrailers used for temporary storage shall have each door locked with one (1) steel padlock having at least five (5) tumblers and a case-hardened shackle of at least three-eighths (3/8) inch (nine and five-tenths (9.5) mm) diameter. The door hinges and lock hasp shall be securely fastened to the magazine and the door frame.

Exception: Magazine doors that are adequately secured on the inside by means of a bolt, lock, or bar that cannot be actuated from the outside. Type 5 storage magazines in trailers shall display BLASTING AGENT placards on the trailer when any quantity of blasting agents is contained therein.

(T) Delete the text of the definition of Mortar and substitute "See 675 IAC 28-1-39.".

(U) Add the following definition for Percussion Cap: PERCUSSION CAP. A percussion cap is a device used to ignite the powder charge of small arms ammunition.

(V) Add the following definition for Plywood: PLYWOOD. Plywood refers to a type of wood product with a grade of A-C exterior grade plywood.

(W) Delete the text of the definition of proximate audience and substitute "See 675 IAC 22-2.2-26.".

(X) Amend Pyrotechnic Composition by deleting the text and inserting "See IC 22-11-14-1.".

(Y) PYROTECHNIC SPECIAL EFFECT see 675 IAC 22-2.2-26.

(Z) Amend Pyrotechnic Special Effect Material by deleting the text and inserting "See 675 IAC 22-2.2-26.".

(AA) Add the following definition for Qualified Person: QUALIFIED PERSON. A person having successfully completed a course of instruction related to the equipment being installed, serviced, or repaired. Such instruction shall be provided by the manufacturer of the equipment or their authorized representative.

(BB) Add the following definition for Safety Cap: SAFETY CAP. See 675 IAC 28-1-39.

(CC) Add the following definition for Softwood: SOFTWOOD. Softwood refers to types of wood, such as douglas fir, pine, or other softwood of equal bullet-resistance, free from loose knots, wind shakes, or similar defects.

(DD) Add the following definition for Steel: STEEL. Steel refers to a type of metal, such as general purpose, hot- or cold-rolled, low carbon steel.

(EE) Add the following definition for Temporary Storage: TEMPORARY STORAGE. See 675 IAC 22-2.2-26.

(27) Amend Section 3303.5 by deleting "pyrotechnic display operator or" and "all aerial shells that fail to fire or" without substitution.

(28) Amend Section 3303.6 by deleting "DOL 29 CFR, Part 1810.1200, and" without substitution.

(29) Amend Section 3304.2 as follows:

(A) Delete "or NFPA 1124" without substitution.

(B) Insert, after NFPA 495, "as adopted by the commission at 675 IAC 26-3".

(C) Delete Exception 2 without substitution.

(D) Delete "Exceptions" and insert "Exception".

(E) Delete the number (1.) for the first exception.

(F) Insert, after NFPA 1123, "as adopted at 675 IAC 28-1-39".

(G) Delete "NFPA 1126" without substitution.

(30) Amend Table 3304.5.2(1), in the row, Pounds over 500/Pounds not over 600, Column 3, by deleting "240" and inserting "340".

(31) Amend Section 3304.5.3.1 by deleting "Wherever practicable," without substitution.

(32) Amend Section 3304.6.2 by deleting "as prescribed in NFPA 495" without substitution.

(33) Amend Section 3304.6.3 by deleting ", except as provided in NFPA 495" without substitution.

(34) Amend Section 3304.6.5.2 as follows:

(A) Delete "as required" without substitution.

(B) Delete "by DOTn 49 CFR, Part 172 and DOTy 27 CFR, Part 55" without substitution.

(35) Amend Section 3304.7.1 by inserting "as adopted by the Commission at 675 IAC 26-3" after NFPA 495.

(36) Delete Section 3304.10.1 in its entirety without substitution.

(37) Amend Section 3304.10.5 as follows:

(A) Delete "practicable" without substitution.

(B) Delete "When possible," without substitution.

(C) Delete "barricades" and insert "Barricades".

(D) Delete "adequate" and substitute "approved".

(38) Amend Section 3305.1 as follows:

(A) Insert "as adopted by the Commission at 675 IAC 26-3" after "NFPA 495".

(B) Delete "and NFPA 1124" without substitution.

(C) Add "as adopted by the Commission at 675 IAC 26-3" in Exception 2 after "495".

(D) Add "as adopted by the Commission at 675 IAC 22-2.2-26" in Exception 3 after "1126".

(39) Amend Section 3805.2 to insert "and" before 406 and delete "and 407" at the end of the sentence.

(40) Delete Section 3305.2.1 in its entirety without substitution.

(41) Delete Section 3305.2.2 in its entirety without substitution.

(42) Amend Section 3305.3 as follows:

(A) Delete the exception in its entirety without substitution.

(B) Delete "a suitable" and substitute "an approved" in the third sentence.

(C) Delete "adequate" and substitute "approved" in the third sentence.

(D) Delete the last paragraph without substitution.

(43) Amend Section 3305.4 by deleting the exception in its entirety without substitution.

(44) Amend Section 3305.5 by deleting the exception in its entirety without substitution.

(45) Amend Section 3305.5.3 as follows:

(A) Delete "Where necessary," without substitution.

(B) Delete "the operator" and insert "The operator".

(46) Amend Section 3305.6.1 by deleting "warrants" and substituting "creates a significant fire or explosion hazard".

(47) Amend Section 3305.6.4.1 by deleting "appropriate" and substituting "approved".

(48) Amend Section 3305.6.8 by deleting the exception in its entirety without substitution.

(49) Amend Section 3305.8 by deleting "only in isolated areas where distance, protection from missiles, shrapnel or fly rock, and other safeguards provides protection against injury to personnel or damage to property" and substituting "in accordance with 675 IAC 26-3".

(50) Amend Section 3306.1 as follows:

(A) Add "as adopted by the Commission at 675 IAC 26-3" after "NFPA 495".

(B) Add an exception to read as follows: Exception: Section 3306 does not apply to the hand

loading of small arms ammunition prepared for personal use and not for resale.

(51) Amend Section 3306.3 by deleting "conforming to DOTn 49 CFR, Part 173" without substitution.

(52) Amend Section 3306.3.2 by deleting the exception in its entirety without substitution.

(53) Delete Section 3306.4 in its entirety without substitution.

(54) Delete Section 3306.4.1 in its entirety without substitution.

(55) Delete Section 3306.4.2 in its entirety without substitution.

(56) Amend Section 3306.5.2.3 by deleting number 1 and substituting "Quantities not to exceed 750,000 small arms primers stored in a building shall be arranged such that not more than 100,000 small arms primers are stored in any one pile and piles are at least 15 feet (4,572 mm) apart.".

(57) Amend Section 3307 by deleting the text in its entirety and substituting "See 675 IAC 26-3.".

(58) Amend Section 3308 by deleting the text in its entirety and substituting "See 675 IAC 28-1-39.".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-34; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-35 Chapter 34; flammable and combustible liquids

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 35. Chapter 34 is amended as follows:

(1) Amend Section 3401.4 by deleting it in its entirety and substituting the following: 3401.4 Plans. Prior to commencement of construction to store more than six hundred sixty (660) gallons (two thousand four hundred ninety-eight (2,498) L) of liquid outside of buildings in drums or tanks, the owner shall notify the servicing fire department, in writing, of the proposed storage and that a copy of the plans released under 675 IAC 12-6 are available upon request. A copy of the released plans shall indicate the method of storage, quantities to be stored, distances from the buildings and property lines, accessways, fire protection facilities, and provisions for spill control, drainage control, and secondary containment.

(2) Amend Section 3403.5 by deleting the first sentence and substituting the following: The inspection authority is authorized to require warning signs for the purpose of identifying hazards of storing or using flammable liquids, when such storage or using would cause a fire or explosion hazard.

(3) Amend Section 3404.2.2 by deleting the text in its entirety and substituting the following: 3404.2.2 Use of tank vehicles and tank cars as storage tanks. Tank cars and tank vehicles shall not be used as permanent storage tanks.

(4) Amend Section 3404.2.3.1 by adding an exception to read as follows: Exception: Buildings or structures that are smoke-free environments and are posted as such at all public and employee entrances, and no visible evidence of prohibited smoking exist within the building or structure.

(5) Amend Section 3404.2.7.5.5.2 by deleting "1,000 gallons (3,785 L)" and substituting "one thousand one hundred (1,100) gallons (four thousand one hundred sixty-four (4,164) L)".

(6) Amend Section 3404.2.7.5.8 by adding "underground" after "liquid" and before "storage".

(7) Amend Section 3404.2.9.5.1 by deleting "(see Section 3 of the Sample Ordinance for Adoption of the International Fire Code on page v)" without substitution.

(8) Amend Section 3404.2.10 by deleting both exceptions in their entirety and substituting the following:

Exceptions: 1. Aboveground tanks are not required to be provided with diking when the tank complies with the requirements of Section 2206.2.3 Installation of Tanks, including subsections (a), (b), and (c), and secondary containment systems are monitored for leak detection with an automatic alarm system, visual and/or audible.

2. Approved aboveground tanks with a capacity of five hundred (500) gallons or less, utilized solely for the storage of used motor oil, and in compliance with EPA 40 CFR 279.22 and EPA 40 CFR 264.175 are exempt from the requirements of 3404.2.10.

3. Drainage control and diking is not required for listed secondary containment tanks.

(9) Amend Section 3404.2.10.5 by adding Exception 3 as follows: Exception 3. Tanks storing more than five thousand (5,000) gallons of gasoline, diesel fuel, or kerosene may have pumps and manifolds attached directly to the tank within diked areas.

(10) Amend Section 3404.2.11.4 by deleting the text in its entirety and substituting the following: 3404.2.11.4 Overfill protection and prevention systems. Fill pipes shall be equipped with a spill container and an overfill prevention system for each tank. The system shall either:

(1) Automatically shut off the flow of liquid into the tank when the tank is not more than ninety-five (95) percent of tank capacity; or

(2) Have an alarm which provides an audible and visual signal when the quantity of liquid in the tank reaches ninety (90) percent of the tank capacity; or

(3) Restrict flow thirty (30) minutes prior to overfilling and alert the transfer operator with a high level alarm one (1) minute before overfilling or automatically shut off flow into the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.

(11) Amend Section 3404.2.12.2 by deleting "in the presence of the code official" and by adding a sentence before the last sentence to read "A Tank Tightness Test report shall be forwarded to the local code official within forty-eight (48) hours.".

(12) Amend Section 3404.3.1.1 by deleting the text in its entirety and substituting the following: Only listed or labeled containers and portable tanks shall be used.

(13) Amend Section 3404.3.2.1.1 as follows:

(A) Delete "listed in accordance with UL1275, or constructed of approved wood or metal in accordance with the following:" and substitute the following:

(1) One of the following:

a. listed in accordance with UL 1275

b. approved by the code official

c. in compliance with the rules of the Commission or its predecessor agencies in effect at the time the materials, including quantities and their location, were first stored

d. constructed of approved wood or metal in accordance with the following:

(B) Delete "Unlisted" in items 1 and 2.

(C) Delete "metal" and substitute "Metal".

(D) Delete "wood" and substitute "Wood".

(14) Amend Section 3404.3.2.1.3 by adding an exception to read as follows: Exception: Doors on cabinets that comply with 3404.3.2.1.1 (b) or 3404.3.2.1.1 (c).

(15) Amend Section 3404.3.2.2 by adding ", with not more than 60 gallons (227 L) being Class I or II liquids" to the end of the section.

(16) Add a new Section 3404.3.2.3: Section 3404.3.2.3. Number of storage cabinets. Not more than three storage cabinets shall be located in a single fire area, except that in a Group F occupancy, additional cabinets are allowed to be located in the same fire area if the additional cabinets (or groups of up to three cabinets) are separated from other cabinets or groups of cabinets by at least 100 feet (30,480 mm).

(17) Amend Section 3404.3.3.9 by deleting "NFPA 230" without substitution.

(18) Amend Section 3404.3.6.5 by deleting "When required by the code official" without substitution.

(19) Amend Section 3405.3.1 by deleting the exception in its entirety without substitution.

(20) Amend Section 3405.3.7.5.1 by deleting the exception in its entirety without substitution.

(21) Amend Section 3405.3.7.5.3 by deleting the first sentence and substituting the following: Spill control shall be provided in accordance with Section 3403.4 where Class I, II, or IIIA liquids are dispensed into containers exceeding a two (2) gallon (seven and six-tenths (7.6) liter) capacity or mixed or used in open containers or systems exceeding five and three-tenths (5.3) gallon (twenty (20) liter) capacity.

(22) Amend Section 3406.2.2 by deleting the last sentence without substitution.

(23) Amend Section 3406.2.4.3 by deleting "50 feet (15,240 mm)" and substituting "ten (10) feet (three thousand forty-eight (3,048) mm)" in two (2) places."

(24) Amend Section 3406.2.4.4 by deleting "(see Section 3 of the Sample Ordinance for Adoption of the International Fire Code on page v)" without substitution.

(25) Amend Section 3406.2.8 by deleting number 1 in its entirety and substituting the following: The tank vehicle is equipped to supply fuel to motor vehicle fuel tanks.

(26) Amend Section 3406.2.8.1 by deleting "50 feet (15,240 mm)" and substituting "twenty-five (25) feet

(seven thousand six hundred twenty (7,620) mm)".

(27) Amend Section 3406.4 by adding a sentence at the end to read as follows: Also see Section 2206.2.3.1 of this code.

(28) Amend Section 3406.5.1.18 as follows: Delete Exception 2 in its entirety without substitution and renumber Exception 3 as Exception 2.

(29) Amend Section 3406.5.4.4 by deleting the text in its entirety and substituting the following: Fueling of vehicles at construction sites and similar areas. Transfer of liquid from tank vehicles to motor vehicles at construction sites, earth-moving projects, gravel pits, and borrow pits is allowed in accordance with Section 3406.2.8.

(30) Amend Section 3406.6.2.1 by deleting the text in its entirety and substituting the following: (a) Tank vehicles shall not be left unattended on any street, highway, avenue, or alley, provided that drivers are not prevented from those necessary absences from the vehicle connected with their normal duties, nor shall this requirement prevent stops for meals or rest stops during the day or night.

Exception 1. This shall not apply to an emergency.

Exception 2. This shall not apply to vehicles parked in accordance with (b).

(b) Tank vehicles shall not be parked in congested areas. Such vehicles shall be permitted to be parked off the street in uncongested areas if at least fifty (50) feet (fifteen (15) m) from any building used for assembly, institutional, or multiple residential occupancy. This requirement shall not prohibit the parking of cargo vehicles of three thousand five hundred (3,500) gallons (thirteen (13) m^3) water capacity or less on streets adjacent to the driver's residence in uncongested residential areas, provided such parking locations are at least fifty (50) feet (fifteen (15) m) from a building used for assembly, institutional, or multiple residential occupancy.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-35; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-36 Chapter 35; flammable gases

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 36. Chapter 35 is amended as follows:

(1) Delete Section 3501.2 in its entirety without substitution.

(2) Add a new Section 3503.1.6, Liquefied flammable gases and flammable gases in solution: Containers of liquefied flammable gases and flammable gases in solution shall be positioned in the upright position or positioned so that the pressure relief valve is in direct contact with the vapor space of the container.

Exceptions:

1. Containers of flammable gases in solution with a capacity of 1.3 gallons (5 L) or less.
2. Containers of flammable liquefied gases, with a capacity not exceeding 1.3 gallons (5 L), designed to preclude the discharge of liquid from safety relief devices.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-36; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-37 Chapter 36; flammable solids

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 37. Chapter 36 is amended as follows:

(1) Delete Section 3601.2 in its entirety without substitution.

(2) Amend Section 3606.1 by deleting "3606.8" and substituting "3606.5.8".

(3) Amend Section 3606.5.5 by deleting "shall be approved types and shall be approved" and substituting "shall be listed".

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-37; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-38 Chapter 37; highly toxic and toxic materials
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 38. Chapter 37 is amended as follows: Delete Section 3701.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-38; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-39 Chapter 38; liquefied petroleum gases
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 39. Chapter 38 is amended as follows:
(1) Delete Section 3801.2 in its entirety without substitution.
(2) Amend Section 3801.3 by inserting "in accordance with the General Administrative Rules (675 IAC 12)".
(3) Amend Section 3803.2.1.2 by inserting "LP gas" after "portable" and before "containers".
(4) Amend Section 3804.1 by deleting "and be subject to the approval of the code official".
(5) Amend Section 3804.2 by deleting the exception without substitution.
(6) Amend Section 3805.2 by deleting the text after "except" and substituting "as provided by NFPA 58 (675 IAC 22-2.2-14)".
(7) Amend Section 3806.1 by deleting "a qualified attendant" and substituting "qualified personnel".
(8) Amend Section 3807.2 by deleting the text in its entirety and substituting the following: NO SMOKING signs complying with Section 310 shall be posted. Smoking within twenty-five (25) feet (seven thousand six hundred twenty-five (7,625) mm) of a point of transfer, while filling operations are in progress at containers or vehicles, shall be prohibited. Control of other sources of ignition shall comply with NFPA 58 (675 IAC 22-2.2-14).
(9) Amend Section 3809.7 by inserting "crawl" after "under floor" and before "spaces".
(10) Amend Section 3809.12 by deleting the text in its entirety and substituting the following: Storage outside of buildings, for containers awaiting use, resale, or part of a cylinder exchange program, shall be located and protected in accordance with NFPA 58 (675 IAC 22-2.2-14).
(11) Delete Section 3809.14 in its entirety without substitution.
(12) Amend Section 3809.15 by deleting the section number and substituting 3809.14.
(13) Amend Section 3811.2 by deleting the text in its entirety and substituting the following: The unattended parking of LP-gas tank vehicles shall be in accordance with Section 3406.6.2.1.
(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-39; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-40 Chapter 39; organic peroxides
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 40. Chapter 39 is amended as follows: Delete 3901.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-40; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-41 Chapter 40; oxidizers
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 41. Chapter 40 is amended as follows: Delete Section 4001.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-41; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-*

675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-42 Chapter 41; pyrophoric materials
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 42. Chapter 41 is amended as follows: Delete 4101.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-42; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-43 Chapter 42; pyroxylin (cellulose nitrate) plastics
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 43. Chapter 42 is amended as follows: Delete Section 4201.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-43; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-44 Chapter 43; unstable (reactive) materials
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 44. Chapter 43 is amended as follows: Delete Section 4301.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-44; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-45 Chapter 44; water-reactive solids and liquids
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

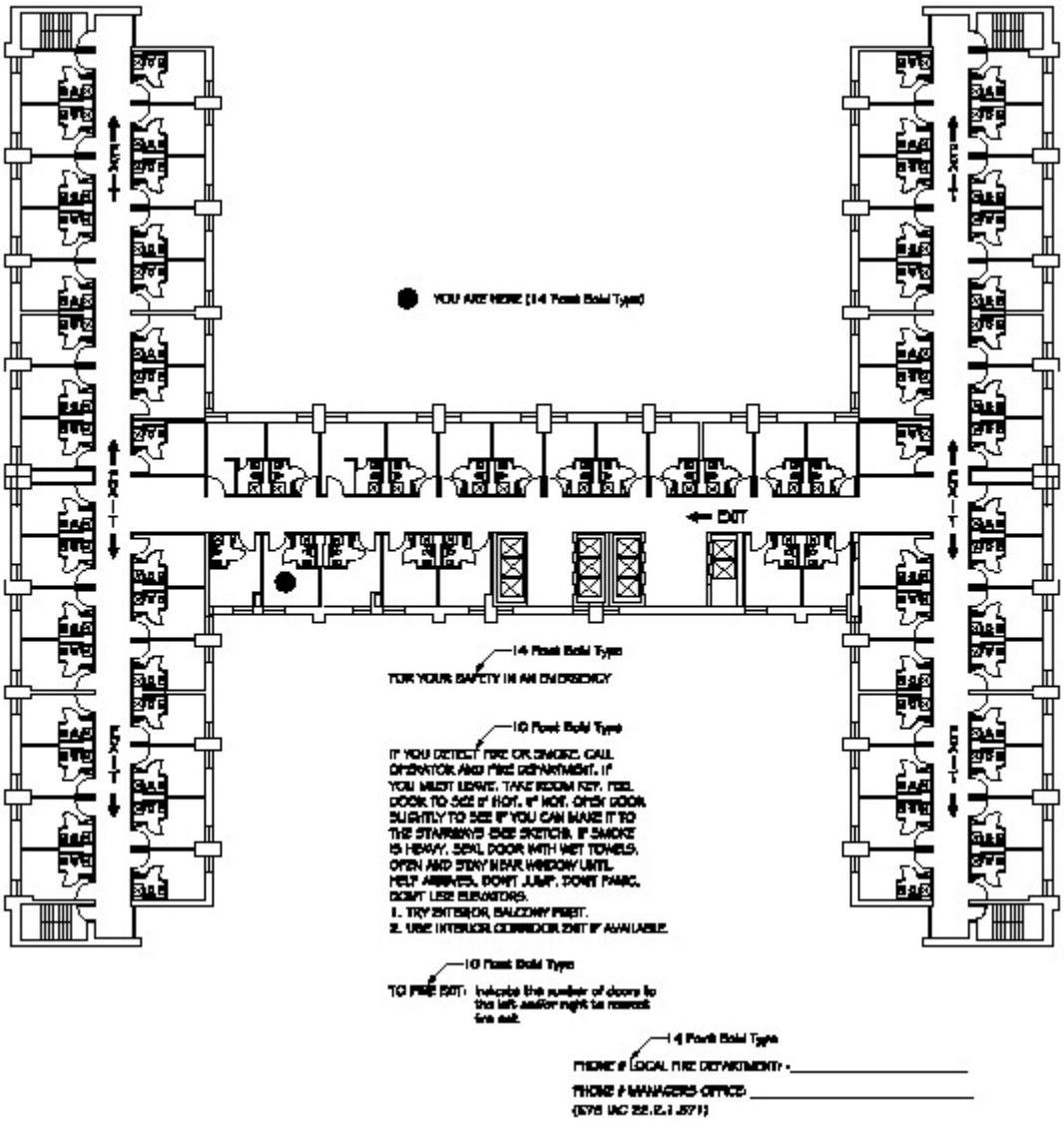
Sec. 45. Chapter 44 is amended as follows: Delete Section 4401.2 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-45; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

675 IAC 22-2.4-46 Appendix A; board of appeals
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 46. Appendix A is amended as follows: Delete Appendix A, Board of Appeals, in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-46; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)*

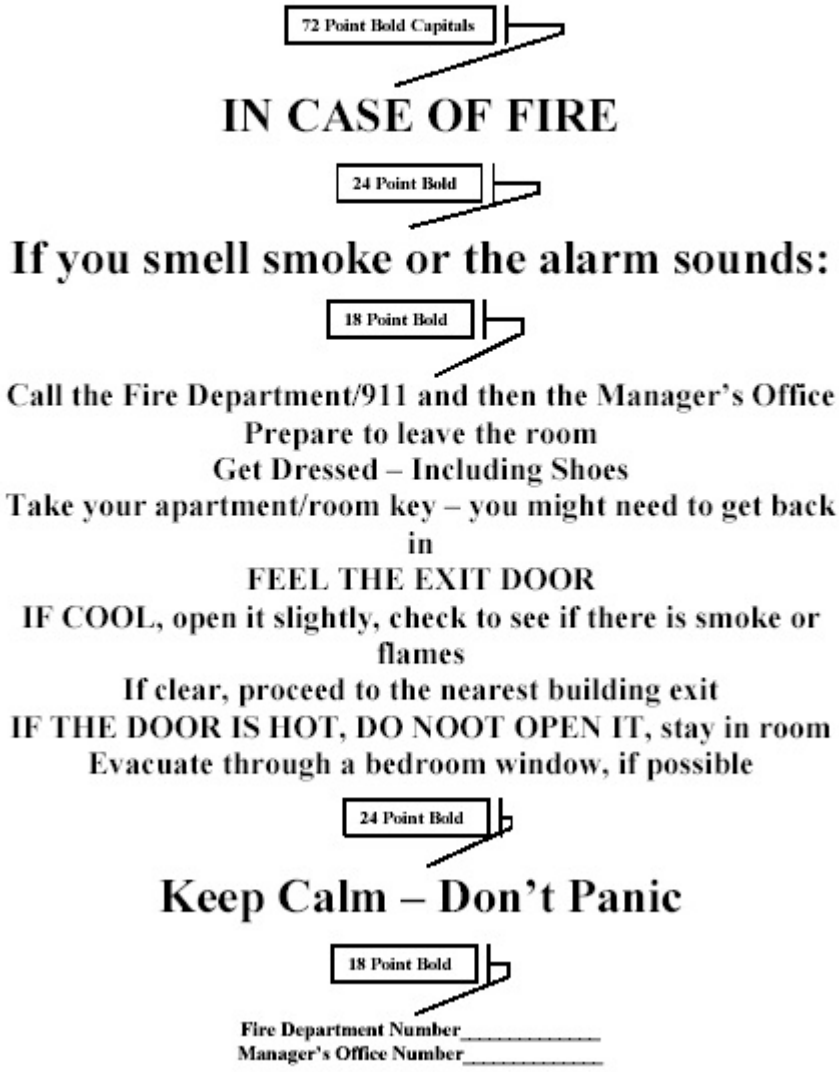
675 IAC 22-2.4-47 Appendix A-1 and A-2; emergency escape plan and emergency information
Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 47. Add Appendix A-1 and A-2 as follows:
(1) Appendix A-1: Emergency Escape Plan Sign



(2) Appendix A-2: Emergency Information Sign

Appendix A-2
Emergency Information Sign Sample



(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-47; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-48 Appendices B through G

Authority: IC 22-13-2-2
Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 48. The following appendices are not adopted but may be used for information purposes only:
(1) Appendix B; Fire-flow Requirements for Buildings.
(2) Appendix C; Fire Hydrant Locations and Distribution.
(3) Appendix D; Fire Apparatus Access Roads.
(4) Appendix E; Hazard Categories.
(5) Appendix F; Hazard Ranking.

(6) Appendix G; Cryogenic Fluids–Weight and Volume Equivalents.

(Fire Prevention and Building Safety Commission; 675 IAC 22-2.4-48; filed Mar 18, 2008, 2:30 p.m.: 20080423-IR-675070478FRA, eff 90 days after filing with the Publisher)

675 IAC 22-2.4-49 Appendix VI-F; recommended separation distances for explosives

Authority: IC 22-13-2-2

Affected: IC 22-12-7; IC 22-13; IC 22-14; IC 36-8-17

Sec. 49. (a) Portions of this work are reproduced from the 1997 edition of the Uniform Fire Code, Appendix VI-F, copyright© 1997, with the permission of the publisher, the International Conference of Building Officials. ICBO assumes no responsibility for the accuracy or completion of summaries provided therein.

(b) Add Appendix VI-F to read as follows:

APPENDIX VI-F

RECOMMENDED SEPARATION DISTANCES FOR EXPLOSIVE MATERIALS (See Chapter 33)

The following information is provided as reference information for application of Chapter 33 and IC 22-11-14.

The information provided in Section 1 is excerpted from federal regulations in 49 CFR, Parts 171-173. A discussion of the new regulations is also provided.

Table A-VI-F-5 is reprinted with permission of the Institute of Makers of Explosives with the provision that the entire table, complete with all explanatory footnotes, is printed. Table A-VI-F-5 is used for magazines containing high explosives or a combination of high explosives and low explosives, and for magazines containing blasting agents.

TABLE A-VI-F-2 - DEFINITIONS FOR DIVISIONS OF CLASS 1 (EXPLOSIVE) MATERIALS

DIVISION	DEFINITION
1.1	Explosives that have a mass hazard explosion. A mass explosion is one that affects almost the entire load instantaneously. (Examples include dynamite, cap-sensitive water gels, slurries, emulsions, and cast boosters.)
1.2	Explosives that have a projection hazard but not a mass explosion hazard. (Examples include ammunition, projectiles, and bombs.)
1.3	Explosives that have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard. (Examples include some propellants, some fireworks, and flares.)
1.4	Explosive devices that present a minor explosion hazard. External fire must not cause virtually instantaneous explosion of almost the entire contents of the package. (Examples include some detonators and detonating cords, safety fuse, electric squibs, igniters, igniting cord, and some fireworks.)
1.5	Very insensitive explosives. This division is comprised of substances that have a mass explosion hazard but are so insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport. (Examples include blasting agents.)
1.6	Extremely incentive articles that do not have a mass explosion hazard. This division is comprised of articles that contain only extremely insensitive detonation substances and that demonstrate a negligible probability of accidental initiation or propagation. (This division is not commonly used for commercial explosives.)

TABLE A-VI-F-3 - COMPARISON OF OLD TO CURRENT EXPLOSIVES CLASSIFICATIONS

CLASS A EXPLOSIVES	May be either DIVISION 1.1 or 1.2 depending on the material
CLASS B EXPLOSIVES	May be either DIVISION 1.2 or 1.3 depending on the material
CLASS C EXPLOSIVES	DIVISION 1.4
BLASTING AGENTS	DIVISION 1.5
(NO APPLICABLE CLASS)	DIVISION 1.6

TABLE A-VI-F-4 - EXPLOSIVES COMPATIBILITY GROUPS

DESCRIPTION OF SUBSTANCES OR ARTICLE TO BE CLASSIFIED	COMPATIBILITY GROUP	CLASSIFICATION CODE
Primary explosive substance.	A	1.1A
Article containing a primary explosive substance and not containing two or more effective protective substances.	B	1.1B, 1.2B, 1.4B
Propellant explosive substance or other deflagrating explosive substance or article containing such explosive substance.	C	1.1C, 1.2C, 1.3C, 1.4C
Secondary detonating explosive substance or black powder or article containing a secondary detonating explosive substance, in each case without means of initiation and without a propelling charge, or article containing a primary explosive substance and containing two or more effective protective features.	D	1.1D, 1.2D, 1.4D, 1.5D
Article containing a secondary detonating explosive substance, without means of initiation, with a propelling charge (other than one containing flammable liquid or hypergolic liquid).	E	1.1E, 1.2E, 1.4E
Article containing a secondary detonating explosive substance with its means of initiation, with a propelling charge (other than one containing flammable liquid or hypergolic liquid) or without a propelling charge.	F	1.1F, 1.2F, 1.3F, 1.4F
Pyrotechnic substance or article containing a pyrotechnic substance, or article containing both an explosive substance and an illuminating, incendiary, tear-producing or smoke-producing substance (other than a water-activated article or one containing white phosphorus, phosphide, or flammable liquid or gel or hypergolic liquid).	G	1.1G, 1.2G, 1.3G, 1.4G
Article containing both an explosive substance and white phosphorus.	H	1.2H,1.3H
Article containing both an explosive substance and flammable liquid or gel.	J	1.1J, 1.2J, 1.3J
Article containing both an explosive substance and a toxic chemical agent.	K	1.2K, 1.3K
Explosive substance or article containing an explosive substance and presenting a special risk (e.g., due to water-activation or presence of hypergolic liquids, phosphides, or pyrophoric substances) needing isolation of each type.	L	1.1L, 1.2L, 1.3L
Articles containing only extremely insensitive detonating substances.	N	1.6N
Substance or article so packed or designed that any hazardous effects arising from accidental functioning are limited to the extent that they do not significantly hinder or prohibit firefighting or other emergency response efforts in the immediate vicinity of the package.	S	1.4S

TABLE A-VI-F-5 - AMERICAN TABLE OF DISTANCES FOR STORAGE OF EXPLOSIVE MATERIALS
As Revised and Approved by the Institute of Makers of Explosives - June 1991[14]

QUANTITY OF EXPLOSIVE MATERIALS[1,2,3,4,15]		DISTANCES IN FEET x 304.8 Per mm							
		Inhabited Buildings[9]		Public Highways with Traffic Volume of less than 3,000 Vehicles per Day		Passenger Railways - Public Highways with Traffic Volume of more than 3,000 Vehicles /Day[10,11]		Separation of Magazines[5,12]	
Pounds Over	Pounds Not Over	Barricaded[6,7,8]	Unbarricaded	Barricaded[6,7,8]	Unbarricaded	Barricaded[6,7,8]	Unbarricaded	Barricaded[6,7,8]	Unbarricaded
x 0.454 Per kg									

Indiana Fire Code Amendments

FIRE CODES

0	5	70	140	30	60	51	102	6	12
5	10	90	180	35	70	64	128	8	16
10	20	110	220	45	90	81	162	10	20
20	30	125	250	50	100	93	186	11	22
30	40	140	280	55	110	103	206	12	24
40	50	150	300	60	120	110	220	14	28
50	75	170	340	70	140	127	254	15	30
75	100	190	380	75	150	139	278	16	32
100	125	200	400	80	160	150	300	18	36
125	150	215	430	85	170	159	318	19	38
150	200	235	470	95	190	175	350	21	42
200	250	255	510	105	210	189	378	23	46
250	300	270	540	110	220	201	402	24	48
300	400	295	590	120	240	221	442	27	54
400	500	320	640	130	260	238	476	29	58
500	600	340	680	135	270	253	506	31	62
600	700	355	710	145	290	266	522	32	64
700	800	375	750	150	300	278	556	33	66
800	900	390	780	155	310	289	578	34	68
900	1,000	400	800	160	320	300	600	36	72
1,000	1,200	425	850	165	330	318	636	39	78
1,200	1,400	450	900	170	340	336	672	41	82
1,400	1,600	470	940	175	350	351	702	43	86
1,600	1,800	490	980	180	360	366	732	44	88
1,800	2,000	505	1,010	185	370	378	756	45	90
2,000	2,500	545	1,090	190	380	408	816	49	98
2,500	3,000	580	1,160	195	390	432	864	52	104
3,000	4,000	635	1,270	210	420	474	949	58	116
4,000	5,000	685	1,370	225	450	513	1,026	61	122
5,000	6,000	730	1,460	235	470	546	1,092	65	130
6,000	7,000	770	1,540	245	490	573	1,146	68	136
7,000	8,000	800	1,600	250	500	600	1,200	72	144
8,000	9,000	835	1,670	255	510	624	1,248	75	150
9,000	10,000	865	1,730	260	520	645	1,290	78	156
10,000	12,000	875	1,750	270	520	687	1,374	82	164
12,000	14,000	885	1,770	275	550	723	1,446	87	174
14,000	16,000	900	1,800	280	560	756	1,512	90	180
16,000	18,000	940	1,880	285	570	786	1,572	94	188
18,000	20,000	975	1,950	290	580	813	1,626	98	196
20,000	25,000	1,055	2,000	315	630	876	1,752	105	210
25,000	30,000	1,130	2,000	340	680	933	1,866	112	224
30,000	35,000	1,205	2,000	360	720	981	1,962	119	238
35,000	40,000	1,275	2,000	380	760	1,026	2,000	124	248
40,000	45,000	1,340	2,000	400	800	1,068	2,000	129	258
45,000	50,000	1,400	2,000	420	840	1,104	2,000	135	270
50,000	55,000	1,460	2,000	440	880	1,140	2,000	140	280
55,000	60,000	1,515	2,000	455	910	1,173	2,000	145	290
60,000	65,000	1,565	2,000	470	940	1,206	2,000	150	300
65,000	70,000	1,610	2,000	485	970	1,236	2,000	155	310
70,000	75,000	1,655	2,000	500	1,000	1,263	2,000	160	320
75,000	80,000	1,695	2,000	510	1,020	1,293	2,000	165	330
80,000	85,000	1,730	2,000	520	1,040	1,317	2,000	170	340

85,000	90,000	1,760	2,000	530	1,060	1,344	2,000	175	350
90,000	95,000	1,790	2,000	540	1,080	1,368	2,000	180	360
95,000	100,000	1,815	2,000	545	1,090	1,392	2,000	185	370
100,000	110,000	1,835	2,000	550	1,100	1,437	2,000	195	390
110,000	120,000	1,855	2,000	555	1,110	1,479	2,000	205	410
120,000	130,000	1,875	2,000	560	1,120	1,521	2,000	215	430
130,000	140,000	1,890	2,000	565	1,130	1,557	2,000	225	450
140,000	150,000	1,900	2,000	570	1,140	1,593	2,000	235	470
150,000	160,000	1,935	2,000	580	1,160	1,629	1,866	245	490
160,000	170,000	1,990	2,000	590	1,180	1,662	1,962	255	510
170,000	180,000	2,010	2,000	600	1,200	1,695	2,000	265	530
180,000	190,000	2,030	2,000	605	1,210	1,725	2,000	275	550
190,000	200,000	2,055	2,000	610	1,220	1,755	2,000	285	570
205,000	210,000	2,055	2,000	620	1,240	1,762	2,000	295	590
210,000	230,000	2,100	2,000	635	1,270	1,836	2,000	315	630
230,000	250,000	2,155	2,000	650	1,300	1,890	2,000	335	670
250,000	275,000	2,215	2,000	670	1,340	1,950	2,000	360	720
275,000	300,000[13]	2,275	2,000	690	1,380	2,000	2,000	385	770

[1] "Explosive materials" means explosives, blasting agents and detonators.

[2] "Explosives" means any chemical compound, mixture, or device, the primary or common purpose of which is to function by explosion. A list of explosives determined to be within the coverage of 18 U.S.C. Chapter 40, Importation, Manufacturer, Distribution and Storage of Explosive Materials, is issued at least annually by the director of the Bureau of Alcohol, Tobacco and Firearms of the Department of the Treasury. For quantity and distance purposes, detonating cord of 50 grains per foot (10.7g/m) should be calculated as equivalent to 8 pounds (3.6 kg) of high explosives per 1,000 feet (304.8 m). Heavier or lighter core loads should be rated proportionately.

[3] "Blasting agents" means any material or mixture, consisting of fuel and oxidizer, intended for blasting, not otherwise defined as an explosive, provided that the finished product, as mixed for use or shipment, cannot be detonated by means of a No. 8 test blasting cap when unconfined.

delay types, blasting caps for use within safety fuses, detonating cord delay connectors, and non-electric instantaneous and delay blasting caps that use detonating cord, shock tube, or any other replacement for electric leg wires. All types of detonators in strengths through No. 8 cap should be rated at 1 1/2 pounds (0.68 kg) of explosives per 1,000 caps. For strengths higher than No. 8 cap, consult the manufacturer.

[5] "Magazine" means any building, structure, or container, other than an explosives manufacturing building, approved for the storage of explosive materials.

[6] "Natural barricade" means natural features of the ground such as hills, or timber of sufficient density that the surrounding exposure which require protection cannot be seen from the magazine when the trees are bare of leaves.

[7] "Artificial barricade" means an artificial mound or riveted wall of earth of a minimum thickness of 3 feet (914.4 mm).
[8] "Barricaded" means the effective screening of a building containing explosive materials from the magazine or other building, railway or highway by a natural
[9] "Inhabited building" means a building regularly occupied in whole or part as a habitation for human beings, or any church, schoolhouse, railroad station, store, or other structure where people are accustomed to assemble, except any building or structure occupied in connection with the manufacture, transportation, storage, or use of explosive materials.
[10] "Railway" means any steam, electric, or other railroad or railway that carries passengers for hire.
[11] "Highway" means any public street, public alley, or public road.
[12] When two or more storage magazines are located on the same property, each magazine must comply with the minimum distances specified from inhabited buildings, railways, and highways, and in addition, they should be separated from each other by not less than the distances shown for "Separation of Magazines", except that the quantity of explosive materials contained in detonator magazines shall govern in regard to the spacing of said detonator magazines from magazines containing other explosive materials. If any two or more magazines are separated from each other by less than the specified "Separation of Magazines" distances, then such two or more magazines, as a group, must be considered as one magazine, and the total quantity of explosive materials stored in such group must be treated as if stored in a single magazine located on the site of any magazine of the group and must comply with the minimum of distances specified from other magazines, inhabited buildings, railways, and highways.
[13] Storage in excess of 300,000 pounds (136,077.6 kg) of explosive materials in one magazine is generally not required for commercial enterprises.
[14] This table applies only to the manufacture and permanent storage of commercial explosive materials. It is not applicable to transportation of explosives or any handling or temporary storage necessary or incidental thereto. It is not intended to apply to bombs, projectiles, or other heavily encased explosives.
[15] When a manufacturing building on an explosive materials plant site is designed to contain explosive materials, such building shall be located from inhabited buildings, public highways, and passenger railways in accordance with Table A-VI-F-5 based on the maximum quantity of explosive materials permitted to be in the building at one time.

NOTE: The American Table of Distances (Table A-VI-F-5) is reprinted by permission of the Institute of Makers of Explosives with the provision that the entire table, complete with all explanatory footnotes, be printed.

TABLE A-VI-F-6 - TABLE OF RECOMMENDED SEPARATION DISTANCES OF AMMONIUM NITRATE AND BLASTING AGENTS FROM EXPLOSIVES OR BLASTING AGENTS[16]

DONOR WEIGHT		MINIMUM SEPARATION DISTANCE OF ACCEPTOR WHEN BARRICADED[2] (feet)		MINIMUM THICKNESS OF ARTIFICIAL BARRICADES[5] (inches)
Pounds Over	Pounds Not Over	X 304.8 Per mm		
X 0.484 Per kg		Ammonium Nitrate[3]	Blasting Agent[4]	X 25.4 Per mm
	100	3	11	12
100	300	4	14	12
300	600	5	18	12
600	1,000	6	22	12
1,000	1,600	7	25	12
1,600	2,000	8	29	12
2,000	3,000	9	32	15
3,000	4,000	10	36	15
4,000	6,000	11	40	15
6,000	8,000	12	42	20
8,000	10,000	13	47	20
10,000	12,000	14	50	20
12,000	16,000	15	54	25
16,000	20,000	16	58	25

20,000	25,000	18	65	25
25,000	30,000	19	68	30
30,000	35,000	20	72	30
35,000	40,000	21	76	30
40,000	45,000	22	79	35
45,000	50,000	23	83	35
50,000	55,000	24	86	35
55,000	60,000	25	90	35
60,000	70,000	26	94	40
70,000	80,000	28	101	40
80,000	90,000	30	108	40
90,000	100,000	32	115	40
100,000	120,000	34	122	50
120,000	140,000	37	133	50
140,000	160,000	40	144	50
160,000	180,000	44	158	50
180,000	200,000	48	173	50
200,000	220,000	52	187	60
220,000	250,000	56	202	60
250,000	275,000	60	216	60
275,000	300,000	64	230	60

[1] Recommended separation distances to prevent explosion of ammonium nitrate and ammonium nitrate-based agents by propagation from nearby stores of high explosives or blasting agents referred to in Table A-VI-F-6 as the "donor." Ammonium nitrate, by itself, is not considered to be a donor when applying Table A-1 Recommended separation distances to prevent explosion of ammonium nitrate and ammonium nitrate-based agents by propagation from nearby stores of high explosives or blasting agents referred to in Table A-VI-F-6 as the "donor." Ammonium nitrate, by itself, is not considered to be a donor when applying Table A-VI-F-6, Ammonium nitrate, ammonium nitrate-fuel oil, or combination thereof are acceptors. If stores of ammonium nitrate are located within the sympathetic detonation distance of explosives or blasting agents, one-half the mass of the ammonium nitrate should be included in the mass of the donor.

[2] When the ammonium nitrate or blasting agent is not barricaded, the distances shown in Table A-VI-F-6 shall be multiplied by six. These distances allow for the possibility of high velocity metal fragments from mixers, hoppers, truck bodies, sheet metal structures, metal containers, and the like that may enclose the "donor." Where storage is in bullet resistant magazines recommended for explosives or where the storage is protected by a bullet resistant wall, distances and barricade thicknesses in excess of those prescribed in Table A-VI-F-5, Footnote 7, are not required. For construction of bullet resistant magazines, see Article 77.

[3] The distances in Table A-VI-F-6 apply to ammonium nitrate that passes the insensitivity test prescribed in the definition of ammonium nitrate fertilizer promulgated by the Fertilizer Institute (Definitions and Test Procedure for Ammonium Nitrate Fertilizer, Fertilizer Institute 1964); and ammonium nitrate failing to pass said test shall be stored at separation distances determined by competent persons and approved by the authority having jurisdiction.

[4] These distances apply to blasting agents which pass the insensitivity test prescribed in regulations of the United States Department of Transportation and the United States Department of the Treasury, Bureau of Alcohol, Tobacco and Firearms.

[5] Earth, or sand dikes, or enclosures filled with the prescribed minimum thickness of earth or sand are acceptable artificial barricades. Natural barricades, such as hills or timber of sufficient density that the surrounding exposure which requires protection cannot be seen from the "donor" when the trees are bare of leaves, are also acceptable.

[6] For determining the distances to be maintained from inhabited buildings, passenger railways, and public highways, see Table A-VI-F-5 (High Explosives and Blasting Agents) or Table A-VI-F-7 (Low Explosives).

TABLE A-VI-F-7

TABLE OF DISTANCES FOR STORAGE OF LOW EXPLOSIVES

LOW EXPLOSIVES (pounds) X 0.484 per kg	FROM INHABITED BUILDING DISTANCE (feet)	FROM PUBLIC RAILROAD AND HIGHWAY DISTANCE (feet)	FROM ABOVEGROUND MAGAZINE (feet)

Over	Not Over	× 304.3 per cm		
0	1,000	75	75	60
1,000	5,000	115	115	75
5,000	10,000	130	130	100
10,000	20,000	180	180	125
20,000	30,000	215	215	145
30,000	40,000	235	235	155
40,000	50,000	250	250	165
50,000	60,000	260	260	175
60,000	70,000	270	270	185
70,000	80,000	300	300	190
80,000	90,000	325	325	195
90,000	100,000	350	350	200
100,000	200,000	375	375	250
200,000	300,000	400	400	300

TABLE A-VI-F-8 - DISTANCES FOR THE OPEN BURNING OF EXPLOSIVES[1]

QUANTITY OF EXPLOSIVES[2 3 4 5] (Not Over)	MINIMUM DISTANCE IN FEET × 304.8 Per mm						
	Inhabited Buildings[9]		Public Highways with Traffic Volume of less than 3,000 Vehicles per Day		Passenger Railways and Public Highways with Traffic Volumes more than 3,000 Vehicles per Day[10 11]		Separation From Other Open Burning Units
Pounds X 0.484 Per kg	No Missile Hazard	Missile Hazard Without Barricade[6 7 8]	No Missile Hazard	Missile Hazard Without Barricade	No Missile Hazard	Missile Hazard Without Barricade	
10	90	180	35	70	64	128	8
20	110	220	45	90	81	162	10
50	150	300	60	120	110	220	14
75	170	340	70	140	127	254	15
100	190	380	75	150	139	278	16
250	255	510	105	210	189	378	23
500	320	640	130	260	238	476	29
1,000	400	800	160	320	300	600	36
1,600	470	940	175	350	351	702	43
2,000	505	1,010	185	370	378	756	45
2,500	545	1,090	190	380	408	816	49
3,000	580	1,160	195	390	432	864	52
4,000	635	1,270	210	420	474	948	58
5,000	685	1,370	225	450	513	1,026	61
6,000	730	1,460	235	470	546	1,092	65
7,000	770	1,540	245	490	573	1,146	68
8,000	800	1,600	250	500	600	1,200	72
9,000	835	1,670	255	510	624	1,248	75
10,000	865	1,730	260	520	645	1,290	78

[1] This table is intended only for application of open burning of commercial explosive materials. The distances stated in this table should be measured from the center of the unit, except for separations from other open-burning units, which are measured from the edge of the unit.

[2] "Explosive materials" means any explosive, slurry, emulsion, detonating cord, blasting agents, and detonators.

[3] "Explosives" means any chemical compound, mixture, or device, the primary or common purpose of which is to function by explosion. A list of explosives determined to be within the coverage of 18 U.S.C. Chapter 40, Importation, Manufacture, Distribution and Storage of Explosive Material, is issued at least annually by the director of the Bureau of Alcohol, Tobacco, and Firearms of the Department of the Treasury. For quantity and distance purposes, detonating cord of 50 grains per foot (10.7 g/m) should be calculated as equivalent to 8 pounds (3.6 kg) of high explosives per 1,000 feet (304.8 m). Heavier or lighter core loads should be rated proportionally.

[4] "Blasting agents" means any material or mixture, consisting of fuel and oxidizer, intended for blasting, not otherwise defined as an explosive, provided the finished product, as mixed for use or shipment, cannot be detonated by means of a No. 8 test blasting cap when unconfined.

[5] "Detonator" means any device containing any initiating or primary explosive that is used for initiating detonation. A detonator may not contain more than 10 grams of total explosives by weight, excluding ignition or delay charges. The term includes, but is not limited to, electric blasting caps of instantaneous and delay blasting caps that use detonating cord, shock tube, or any other replacement for electric wires. All types of detonators in strengths through No. 8 cap should be rated at 1 1/2 pounds (0.68 kg) of explosives per 1,000 caps. For strengths higher than No. 8 cap, consult the manufacturer.

[6] "Natural barricade" means natural features of the ground, such as hills, or timber of sufficient density that the surrounding exposures that require protection cannot be seen from the magazine when the trees are bare of leaves.

[7] "Artificial barricade" means an artificial mound or riveted wall of earth of a minimum thickness of 3 feet (914.4 mm).

[8] "Barricaded" means the effective screening of a building containing explosive materials from the magazine or other building, OB/OD site, railway, or highway by a natural or an artificial barrier. A straight line from the top of any sidewall of the building containing explosive materials to the eave line of any magazine or other building or to a point 12 feet (3,657.6 mm) above the center of a railway or highway shall pass through such a barrier.

[9] "Inhabited building" means a building, regularly occupied in whole or part as a habitation for human beings, or any church, schoolhouse, railroad station, store, or other structure where people are accustomed to assemble. This does not mean any office, warehouse, production, laboratory, or other buildings that are a part of the facility where the open burning or open detonation sites are located.

[10] "Highway" means any public street, public alley, or public road.

[11] "Railway" means any steam, electric, or other railroad or railway that carries passengers for hire.

TABLE A-VI-F-9 - DISTANCES FOR THE OPEN DETONATION OF EXPLOSIVES[1]

QUANTITY OF EXPLOSIVES[2] [3] [4] [5] (Not Over)	MINIMUM DISTANCE IN FEET X 304.8 Per mm							
	Inhabited Buildings[9]		Public Highways with Traffic Volume of less than 3,000 Vehicles per Day		Passenger Railways and Public Highways with Traffic Volumes more than 3,000 Vehicles per Day[10] [11]		Separation From Other Open Detonation Units	
Pounds	No Missile Hazard	Missile Hazard Without Barricade[6] [7] [8]	No Missile Hazard	Missile Hazard Without Barricade[6] [7] [8]	No Missile Hazard	Missile Hazard Without Barricade[6] [7] [8]	No Missile Hazard	Missile Hazard Without Barricade[6] [7] [8]
1	730	730	325	325	480	480	6	12
2	920	920	410	410	600	600	6	12
5	1,250	1,250	550	550	820	820	6	12
10	1,600	1,600	695	695	1,030	1,030	8	16
20	1,990	1,990	875	875	1,295	1,295	10	20
50	2,700	2,700	1,190	1,190	1,760	1,760	14	28
75	3,080	3,080	1,360	1,360	2,015	2,015	15	30
100	3,400	3,400	1,500	1,500	2,220	2,220	16	32
150	3,900	3,900	1,715	1,715	2,535	2,535	19	38

200	4,275	4,275	1,890	1,890	2,795	2,795	21	42
300	4,900	4,900	2,160	2,160	3,200	3,200	24	48
400	5,400	5,400	2,380	2,380	3,520	3,520	27	54
500	5,800	5,800	2,560	2,560	3,790	3,790	29	58

[1] This table is intended only for application of open burning of commercial explosive materials. The distances stated in this table should be measured from the center of the unit, except for separations from other open-burning units, which are measured from the edge of the unit.

[2] "Explosive materials" means any explosive, slurry, emulsion, detonating cord, blasting agents, and detonators.

[3] "Explosives" means any chemical compound, mixture or device, the primary or common purpose of which is to function by explosion. A list of explosives determined to be within the coverage of 18 U.S.C. Chapter 40, Importation, Manufacture, Distribution and Storage of Explosive Material, is issued at least annually by the director of the Bureau of Alcohol, Tobacco, and Firearms of the Department of the Treasury. For quantity and distance purposes, detonating cord of 50 grains per foot (10.7 g/m) should be calculated as equivalent to 8 pounds (3.6 kg) of high explosives per 1,000 feet (304.8 m). Heavier or lighter core loads should be rated proportionally.

[4] "Blasting agents" means any material or mixture, consisting of fuel and oxidizer, intended for blasting, not otherwise defined as an explosive, provided the finished product, as mixed for use or shipment, cannot be detonated by means of a No. 8 test blasting cap when unconfined.

[5] "Detonator" means any device containing any initiating or primary explosive that is used for initiating detonation. A detonator may not contain more than 10 grams of total explosives by weight, excluding ignition or delay charges. The term includes, but is not limited to, electric blasting caps of instantaneous and delay blasting caps that use detonating cord, shock tube, or any other replacement for electric wires. All types of detonators in strengths through No. 8 cap should be rated at 1 1/2 pounds (0.68 kg) of explosives per 1,000 caps. For strengths higher than No. 8 cap, consult the manufacturer.

[6] "Natural barricade" means natural features of the ground, such as hills, or timber of sufficient density that the surrounding exposures that require protection cannot be seen from the magazine when the trees are bare of leaves.

[7] "Artificial barricade" means an artificial mound or riveted wall of earth of a minimum thickness of 3 feet (914.4 mm).

[8] "Barricaded" means the effective screening of a building containing explosive materials from the magazine or other building, OB/OD site, railway, or highway by a natural or an artificial barrier. A straight line from the top of any sidewall of the building containing explosive materials to the eave line of any magazine or other building or to a point 12 feet (3,657.6 mm) above the center of a railway or highway shall pass through such a barrier.

[9] "Inhabited building" means a building, regularly occupied in whole or part as a habitation for human beings, or any church, schoolhouse, railroad station, store, or other structure where people are accustomed to assemble. This does not mean any office, warehouse, production, laboratory, or other buildings that are a part of the facility where the open burning or open detonation sites are located.

[10] "Highway" means any public street, public alley, or public road.

[11] "Railway" means any steam, electric, or other railroad or railway that carries passengers for hire.

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