(Fire Prevention and Building Safety Commission; 675 IAC 18-1.5-7; filed Mar 18, 2008, 2:22 p.m.: 20080423-IR-675070477FRA, eff 90 days after filing with the Publisher; filed Nov 24, 2010, 3:21 p.m.: 20101222-IR-675100251FRA)

SECTION 11. 675 IAC 18-1.5-15 IS AMENDED TO READ AS FOLLOWS:

675 IAC 18-1.5-15 Chapter 15; referenced standards

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

Sec. 15. (a) Amend, in the third sentence of Chapter 15, "Section 102.8" to "Section 101.4".

(b) Delete the following standards: NFPA 37-02, NFPA 58-04, and NFPA ~~72-03.~~ **72-02.**

(c) Amend Chapter 15 by inserting ", 506.3.10.2" as a "Referenced in code section number" for standard "ASTM E814".

(d) Amend Chapter 15 by inserting "506.3.1.1," and ", 506.3.6" as "Referenced in code section number" for standard "UL 1978".

(e) Amend Chapter 15 by inserting ", 506.3.10.1" as a "Referenced in code section number" for standard "UL 2221".

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SECTION 12. 675 IAC 22-2.4-4 IS AMENDED TO READ AS FOLLOWS:

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 ~~nonsprinklered~~ **sprinklered** 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 K-rated wet 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-today 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 hot walkers, 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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SECTION 13. 675 IAC 22-2.4-34 IS AMENDED TO READ AS FOLLOWS:

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) Delete Section 3301.1.2 in its entirety 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~~ **("Inhabited** 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 casehardened 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 3305.2 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; errata filed Jul 9, 2008, 12:34 p.m.: 20080723-IR-675070478ACA; filed Oct 27, 2009, 2:39 p.m.: 20091125-IR-675090187FRA; filed Nov 24, 2010, 3:21 p.m.: 20101222-IR-675100251FRA)

SECTION 14. THE FOLLOWING ARE REPEALED: 675 IAC 23-1-1; 675 IAC 23-1-2; 675 IAC 23-1-3; 675 IAC 23-1-4; 675 IAC 23-1-5; 675 IAC 23-1-6; 675 IAC 23-1-7; 675 IAC 23-1-8; 675 IAC 23-1-9; 675 IAC 23-1-10; 675 IAC 23-1-12; 675 IAC 23-1-13; 675 IAC 23-1-14; 675 IAC 23-1-15; 675 IAC 23-1-16; 675 IAC 23-1-17; 675 IAC 23-1-18; 675 IAC 23-1-19; 675 IAC 23-1-21; 675 IAC 23-1-22; 675 IAC 23-1-23; 675 IAC 23-1-24; 675 IAC 23-1-25; 675 IAC 23-1-26; 675 IAC 23-1-27; 675 IAC 23-1-28; 675 IAC 23-1-29; 675 IAC 23-1-30; 675 IAC 23-1-31; 675 IAC 23-1-32; 675 IAC 23-1-33; 675 IAC 23-1-34; 675 IAC 23-1-35; 675 IAC 23-1-36; 675 IAC 23-1-37; 675 IAC 23-1-38; 675 IAC 23-1-39; 675 IAC 23-1-40; 675 IAC 23-1-41; 675 IAC 23-1-42; 675 IAC 23-1-43; 675 IAC 23-1-44; 675 IAC 23-1-45; 675 IAC 23-1-46; 675 IAC 23-1-47; 675 IAC 23-1-48; 675 IAC 23-1-49; 675 IAC 23-1-50; 675 IAC 23-1-51; 675 IAC 23-1-52; 675 IAC 23-1-53; 675 IAC 23-1-54; 675 IAC 23-1-55; 675 IAC 23-1-56; 675 IAC 23-1-57; 675 IAC 23-1-58; 675 IAC 23-1-59; 675 IAC 23-1-60; 675 IAC 23-1-61; 675 IAC 23-1-64; 675 IAC 23-2-1; 675 IAC 23-2-2; 675 IAC 23-2-3; 675 IAC 23-2-4; 675 IAC 23-2-5; 675 IAC 23-2-6; 675 IAC 23-2-7; 675 IAC 23-2-8; 675 IAC 23-2-9; 675 IAC 23-2-10; 675 IAC 23-2-11; 675 IAC 23-2-12; 675 IAC 23-2-13; 675 IAC 23-2-14.

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