

Enacted**Appendix A****(A) Operational permits****(1) A01.1 Operational permits.**

- (a) **A01.1.1 Aerosol products.** An operational permit to manufacture, store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 pounds (227 kg) net weight.
- (b) **A01.1.2 Amusement buildings.** An operational permit to operate a special amusement building.
- (c) **A01.1.3 Aviation facilities.** An operational permit to use a Group H or Group S occupancy for aircraft servicing or repair and aircraft fuel-servicing vehicles.
- (d) **A01.1.4 Carnivals and fairs.** An operational permit to conduct a carnival or fair.
- (e) **A01.1.5 Battery systems.** A permit to install stationary lead-acid battery systems having a liquid capacity of more than 50 gallons (189 L).
- (f) **A01.1.6 Cellulose nitrate film.** An operational permit to store, handle or use cellulose nitrate film in a Group A occupancy.
- (g) **A01.1.7 Combustible dust-producing operations.** An operational permit *for* a grain elevator, flour starch mill, feed mill, or a plant pulverizing aluminum, coal, cocoa, magnesium, spices or sugar, or other operations producing combustible dusts as defined in *rule 1301:7-7-02 of the Administrative Code*.
- (h) **A01.1.8 Combustible fibers.** An operational permit for the storage and handling of combustible fibers in quantities greater than 100 cubic feet (2.8 m³).

Exception: A permit for agricultural storage.

- (i) **A01.1.9 Compressed gases.** An operational permit for the storage, use or handling at normal temperature and pressure (NTP) of compressed gases in excess of the amounts listed in Table A01.1.9 *of this appendix*.

Exception: Vehicles equipped for and using compressed gas as a fuel for propelling the vehicle.

Table A01.1.9
Permit amounts for compressed gases

| Type of gas | Amount (cubic feet at NTP) |
|---|-----------------------------------|
| Corrosive | 200 |
| Flammable (except cryogenic fluids and liquefied petroleum gases) | 200 |
| Highly toxic | Any Amount |
| Inert and simple asphyxiant | 6,000 |
| Oxidizing (including oxygen) | 504 |
| Pyrophoric | Any Amount |
| Toxic | Any Amount |

For SI: 1 cubic foot = 0.02832 m³.

- (j) **A01.1.10 Covered mall buildings.** An operational permit for:
- (i) The placement of retail fixtures and displays, concession equipment, displays of highly combustible goods and similar items in the mall.
 - (ii) The display of liquid- or gas-fired equipment in the mall.
 - (iii) The use of open-flame or flame-producing equipment in the mall.
- (k) **A01.1.11 Cryogenic fluids.** An operational permit to produce, store, transport on site, use, handle or dispense cryogenic fluids in excess of the amounts listed in ~~Table A128.1.11~~ A01.1.11 of this appendix.

Exception: Permits for vehicles equipped for and using cryogenic fluids as a fuel for propelling the vehicle or for refrigerating the lading.

Table A01.1.11
Permit amounts for cryogenic fluids

| Type of cryogenic fluid | Inside building (gallons) | Outside building (gallons) |
|---|--------------------------------------|---------------------------------------|
| Flammable | More than 1 | 60 |
| Inert | 60 | 500 |
| Oxidizing (includes oxygen) | 10 | 50 |
| Physical or health hazard not indicated above | Any amount | Any amount |

For SI: 1 gallon = 3.785 L.

- (l) **A01.1.12 Cutting and welding.** An operational permit to conduct cutting or welding operations within the jurisdiction.
- (m) **A01.1.13 Dry cleaning plants.** An operational permit to engage in the business of dry cleaning or to change to a more hazardous cleaning solvent used in existing dry cleaning equipment.
- (n) **A01.1.14 Exhibits and trade shows.** An operational permit to operate exhibits and trade shows.
- (o) **A01.1.15 Explosives.** An operational permit for the manufacture, storage, handling, sale or use of any quantity of explosive, explosive material, fireworks, or pyrotechnic special effects within the scope of *rule 1301:7-7-33 of the Administrative Code*.

Exception: Storage in Group R-3 occupancies of smokeless propellant, black powder and small arms primers for personal use, not for resale and in accordance with *paragraph (F)(3306) of rule 1301:7-7-33 of the Administrative Code*.

- (p) **A01.1.16 Fire hydrants and valves.** An operational permit to use or operate fire hydrants or valves intended for fire suppression purposes which are installed on water systems and accessible to a fire apparatus access road that is open to or generally used by the public.

Exception: A permit for authorized employees of the water company that supplies the system or the fire department to use or operate fire hydrants or valves.

- (q) **A01.1.17 Flammable and combustible liquids.** An operational permit:
 - (i) To use or operate a pipeline for the transportation within facilities of flammable or combustible liquids. This requirement shall not apply to the off-site transportation in pipelines regulated by the Department of Transportation (DOTn) nor does it apply to piping systems.
 - (ii) To store, handle or use Class I liquids in excess of 5 gallons (19 L) in a building or in excess of 10 gallons (37.9 L) outside of a building, except for the following:
 - (a) The storage or use of Class I liquids in the fuel tank of a motor vehicle, aircraft, motorboat, mobile power plant or mobile heating plant, unless such storage, in the opinion of the *local* fire code official, would cause an unsafe condition.

- (b) The storage or use of paints, oils, varnishes or similar flammable mixtures when such liquids are stored for maintenance, painting or similar purposes for a period of not more than 30 days.
- (iii) To store, handle or use Class II or Class IIIA liquids in excess of 25 gallons (95 L) in a building or in excess of 60 gallons (227 L) outside a building, except for fuel oil used in connection with oil-burning equipment.
- (iv) To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes.
- (v) To operate tank vehicles, equipment, tanks, plants, terminals, fuel-dispensing stations, refineries, distilleries and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed or used.
- (vi) To place temporarily out of service (for more than 90 days) an underground, protected aboveground or aboveground flammable or combustible liquid tank.
- (vii) To change the type of contents stored in a flammable or combustible liquid tank to a material which poses a greater hazard than that for which the tank was designed and constructed.
- (viii) To manufacture, process, blend or refine flammable or combustible liquids.
- (ix) To engage in the dispensing of liquid fuels into the fuel tanks of motor vehicles at commercial, industrial, governmental or manufacturing establishments.
- (x) To utilize a site for the dispensing of liquid fuels from tank vehicles into the fuel tanks of motor vehicles at commercial, industrial, governmental, or manufacturing establishments.
- (r) **A01.1.18 Floor finishing.** An operational permit for floor finishing or surfacing operations exceeding 350 square feet (33 m²) using Class I or Class II liquids.
- (s) **A01.1.19 Fruit and crop ripening.** An operational permit to operate a fruit-, or crop-ripening facility or conduct a fruit-ripening process using ethylene gas.
- (t) **A01.1.20 Fumigation and thermal insecticidal fogging.** An operational permit to *conduct* a business of fumigation or thermal insecticidal fogging and to

maintain a room, vault or chamber in which a toxic or flammable fumigant is used.

- (u) **A01.1.21 Hazardous materials.** An operational permit to store, transport on site, dispense, use or handle hazardous materials in excess of the amounts listed in ~~Table A128.1.21~~ Table A01.1.21 *of this appendix*.

Table A01.1.21
Permit amounts for hazardous materials

| Type of material | Amount |
|-------------------------|--|
| Combustible liquids | See <i>paragraph (A01.1.17) of this appendix</i> |
| Corrosive materials | |
| Gases | See <i>paragraph (A01.1.9) of this appendix</i> |
| Liquids | 55 gallons |
| Solids | 1000 pounds |
| Explosive materials | See <i>paragraph (A01.1.15) of this appendix</i> |
| Flammable materials | |
| Gases | See <i>paragraph (A01.1.9) of this appendix</i> |
| Liquids | See <i>paragraph (A01.1.17) of this appendix</i> |
| Solids | 100 pounds |
| Highly toxic materials | |
| Gases | See <i>paragraph (A01.1.9) of this appendix</i> |
| Liquids | Any amount |
| Solids | Any amount |
| Oxidizing materials | |
| Gases | See <i>paragraph (A01.1.9) of this appendix</i> |
| Liquids | |
| Class 4 | Any amount |
| Class 3 | 1 gallon ^a |
| Class 2 | 10 gallons |
| Class 1 | 55 gallons |
| Solids | |
| Class 4 | Any amount |
| Class 3 | 10 pounds ^b |
| Class 2 | 100 pounds |
| Class 1 | 500 pounds |
| Organic peroxides | |
| Liquids | |
| Class I | Any amount |
| Class II | Any amount |
| Class III | 1 gallon |
| Class IV | 2 gallons |
| Class V | No permit required |
| Solids | |
| Class I | Any amount |
| Class II | Any amount |
| Class III | 10 pounds |
| Class IV | 20 pounds |
| Class V | No permit required |

Table A01.1.21 Continued
Permit amounts for hazardous materials

| Type of material | Amount |
|-------------------------------|---|
| Pyrophoric materials | |
| Gases | See paragraph (A01.1.9) of this appendix <u>Any amount</u> |
| Liquids | Any amount |
| Solids | Any amount |
| Toxic materials | |
| Gases | See paragraph (A01.1.9) of this appendix |
| Liquids | 10 gallons |
| Solids | 100 pounds |
| Unstable (reactive) materials | |
| Liquids | |
| Class 4 | Any amount |
| Class 3 | Any amount |
| Class 2 | 5 gallons |
| Class 1 | 10 gallons |
| Solids | |
| Class 4 | Any amount |
| Class 3 | Any amount |
| Class 2 | 50 pounds |
| Class 1 | 100 pounds |
| Water-reactive materials | |
| Liquids | |
| Class 3 | Any amount |
| Class 2 | 5 gallons |
| Class 1 | 55 gallons |
| Solids | |
| Class 3 | Any amount |
| Class 2 | 50 pounds |
| Class 1 | 500 pounds |

For SI: 1 gallon = 3.785 L, 1 pound = 0.454 kg.

- a. 20 gallons when Table 2703.1.1(1) of rule 1301:7-7-27 of the Administrative Code Note k applies and hazard identification signs in accordance with paragraph (C)(5)(2703.5) of rule 1301:7-7-27 of the Administrative Code are provided for quantities of 20 gallons or less.
- b. 200 pounds when Table 2703.1.1(1) of rule 1301:7-7-27 of the Administrative Code Note k applies and hazard identification signs in accordance with paragraph (C)(5)(2703.5) of rule 1301:7-7-27 of the Administrative Code are provided for quantities of 200 pounds or less.

- (v) **A01.1.22 HPM facilities.** An operational permit to store, handle or use hazardous production materials.
- (w) **A01.1.23 High-piled storage.** An operational permit to use a building or portion thereof as a high-piled storage area exceeding 500 square feet (46 m²).
- (x) **A01.1.24 Hot work operations.** An operational permit for hot work including, but not limited to:
 - (i) Public exhibitions and demonstrations where hot work is conducted.
 - (ii) Use of portable hot work equipment inside a structure.

Exception: Work that is conducted under a construction permit.
 - (iii) Fixed-site hot work equipment such as welding booths.
 - (iv) Hot work conducted within a hazardous fire area.
 - (v) Application of roof coverings with the use of an open-flame device.
 - (vi) When approved, the fire code official *may* issue a permit to carry out a Hot Work Program. This program allows approved personnel to regulate their facility's hot work operations. The approved personnel shall be trained in the fire safety aspects denoted in the state fire code and shall be responsible for issuing permits requiring compliance with the requirements found in *rule 1301:7-7-26 of the Administrative Code*. These permits shall be issued only to their employees or hot work operations under their supervision.
- (y) **A01.1.25 Industrial ovens.** An operational permit for operation of industrial ovens regulated by *rule 1301:7-7-21 of the Administrative Code*.
- (z) **A01.1.26 Lumber yards and woodworking plants.** An operational permit for the storage or processing of lumber exceeding 100,000 board feet (8333 ft³) (236 m³).
- (aa) **A01.1.27 Liquid- or gas-fueled vehicles or equipment in assembly buildings.** An operational permit to display, operate or demonstrate liquid- or gas-fueled vehicles or equipment in assembly buildings.
- (bb) **A01.1.28 LP-gas.** An operational permit for:
 - (i) Storage and use of LP-gas.

Exception: A permit for individual containers with a 500-gallon (1893 L) water capacity or less serving occupancies in Group R-3.

- (ii) Operation of cargo tankers that transport LP-gas.
- (cc) **A01.1.29 Magnesium.** An operational permit to melt, cast, heat treat or grind more than 10 pounds (4.54 kg) of magnesium.

- (dd) **A01.1.30 Miscellaneous combustible storage.** An operational permit to store in any building or upon any premises in excess of 2,500 cubic feet (71 m³) gross volume of combustible empty packing cases, boxes, barrels or similar containers, rubber tires, rubber, cork or similar combustible material.
- (ee) **A01.1.31 Open burning.** An operational permit for the kindling or maintaining of an open fire or a fire on any public street, alley, road, or other public or private ground. Instructions and stipulations of the permit shall be adhered to.

Exception: Recreational fires.

- (ff) **A01.1.32 Open flames and torches.** An operational permit to remove paint with a torch; or to use a torch or open-flame device in a hazardous fire area.
- (gg) **A01.1.33 Open flames and candles.** An operational permit to use open flames or candles in connection with assembly areas, dining areas of restaurants or drinking establishments.
- (hh) **A01.1.34 Organic coatings.** An operational permit for any organic-coating manufacturing operation producing more than 1 gallon (4 L) of an organic coating in one day.
- (ii) **A01.1.35 Places of assembly.** An operational permit *for* a place of assembly.
- (jj) **A01.1.36 Private fire hydrants.** An operational permit for the removal from service, use or operation of private fire hydrants.

Exception: A permit for private industry with trained maintenance personnel, private fire brigade or fire departments to maintain, test and use private hydrants.

- (kk) **A01.1.37 Pyrotechnic special effects material.** An operational permit is required for use and handling of pyrotechnic special effects material.
- (ll) **A01.1.38 Pyroxylin plastics.** An operational permit for storage or handling of more than 25 pounds (11 kg) of cellulose nitrate (pyroxylin) plastics and for the assembly or manufacture of articles involving pyroxylin plastics.
- (mm) **A01.1.39 Refrigeration equipment.** An operational permit to operate a mechanical refrigeration unit or system regulated *by rule 1301:7-7-06 of the Administrative Code.*
- (nn) **A01.1.40 Repair garages and motor fuel-dispensing facilities.** An operational permit for operation of repair garages and automotive, marine and fleet motor fuel-dispensing facilities.

- (oo) **A01.1.41 Rooftop heliports.** An operational permit for the operation of a rooftop heliport.
- (pp) **A01.1.42 Spraying or dipping.** An operational permit to conduct a spraying or dipping operation utilizing flammable or combustible liquids or the application of combustible powders regulated *by rule 1301:7-7-15 of the Administrative Code*.
- (qq) **A01.1.43 Storage of scrap tires and tire byproducts.** An operational permit to establish, conduct or maintain storage of scrap tires and tire byproducts that exceeds 2,500 cubic feet (71 m³) of total volume of scrap tires and for indoor storage of tires and tire byproducts.
- (rr) **A01.1.44 Temporary membrane structures, tents and canopies.** An operational permit to operate an air-supported temporary membrane structure or a tent having an area in excess of 200 square feet (19 m²), or a canopy in excess of 400 square feet (37 m²).

Exceptions:

- 1. Tents used exclusively for recreational camping purposes.
 - 2. Fabric canopies and awnings open on all sides which comply with all of the following:
 - 2.1 Individual canopies having a maximum size of 700 square feet (65 m²).
 - 2.2 The aggregate area of multiple canopies placed side by side without a fire break clearance of not less than 12 feet (3658 mm) not exceeding 700 square feet (65 m²) total.
 - 2.3 A minimum clearance of 12 feet (3658 mm) to structures and other tents *is* provided.
- (ss) **A01.1.45 Tire-rebuilding plants.** An operational permit for the operation and maintenance of a tire-rebuilding plant.
 - (tt) **A01.1.46 Waste handling.** An operational permit for the operation of wrecking yards, junk yards and waste material-handling facilities.
 - (uu) **A01.1.47 Wood products.** An operational permit to store chips, hogged material, lumber or plywood in excess of 200 cubic feet (6 m³).

(B) **Construction permits**

(1) **A02.1 Construction permits.**

- (a) **A02.1.1 Automatic fire-extinguishing systems.** A construction permit for installation of or modification to an automatic fire-extinguishing system. Maintenance performed in accordance with the state fire code is not considered a modification and does not require a permit.
- (b) **A02.1.2 Compressed gases.** When the compressed gases in use or storage exceed the amounts listed in Table ~~A02.1.9~~ A01.1.9 *of this appendix*, a construction permit to install, repair damage to, abandon, remove, place temporarily out of service, or close or substantially modify a compressed gas system.

Exceptions:

- 1. Routine maintenance.
- 2. For emergency repair work performed on an emergency basis, application shall be made within two working days of commencement of work.

The applicant shall apply for approval to close storage, use or handling facilities at least 30 days prior to the termination of the storage, use or handling of compressed or liquefied gases. Such application shall include any change or alteration of the facility closure plan filed pursuant to *rule 1301:7-7-27 of the Administrative Code*. The 30-day period is not applicable when approved based on special circumstances requiring such waiver.

- (c) **A02.1.3 Fire alarm and detection systems and related equipment.** A construction permit for installation of or modification to fire alarm and detection systems and related equipment. Maintenance performed in accordance with the state fire code is not considered a modification and does not require a permit.
- (d) **A02.1.4 Fire pumps and related equipment.** A construction permit for installation of or modification to fire pumps and related fuel tanks, jockey pumps, controllers, and generators. Maintenance performed in accordance with the state fire code is not considered a modification and does not require a permit.
- (e) **A02.1.5 Flammable and combustible liquids.** A construction permit:
 - (i) To repair or modify a pipeline for the transportation of flammable or combustible liquids.

- (ii) To install, construct or alter tank vehicles, equipment, tanks, plants, terminals, fuel-dispensing stations, refineries, distilleries and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed or used.
- (iii) To install, alter, remove, abandon or otherwise dispose of a flammable or combustible liquid tank *and any line or dispensing device connected thereto*.
- (f) **A02.1.6 Hazardous materials.** A construction permit to install, repair damage to, abandon, remove, place temporarily out of service, or close or substantially modify a storage facility or other area regulated by *rule 1301:7-7-27 of the Administrative Code* when the hazardous materials in use or storage exceed the amounts listed in Table ~~A128.1.21~~ A01.1.21 *of this appendix*.

Exceptions:

- 1. Routine maintenance.
- 2. For emergency repair work performed on an emergency basis, application for permit shall be made within two working days of commencement of work.
- (g) **A02.1.7 Industrial ovens.** A construction permit for installation of industrial ovens covered by *rule 1301:7-7-21 of the Administrative Code*.

Exceptions:

- 1. Routine maintenance.
- 2. For repair work performed on an emergency basis, application for permit shall be made within two working days of commencement of work.
- (h) **A02.1.8 LP-gas.** A construction permit for installation of or modification to an LP-gas system.
- (i) **A02.1.9 Private fire hydrants.** A construction permit for the installation or modification of private fire hydrants.
- (j) **A02.1.10 Spraying or dipping.** A construction permit to install or modify a spray room, dip tank or booth.
- (k) **A02.1.11 Standpipe systems.** A construction permit for the installation, modification, or removal from service of a standpipe system. Maintenance

performed in accordance with the state fire code is not considered a modification and does not require a permit.

- (1) **A02.1.12 Temporary membrane structures, tents and canopies.** A construction permit to erect an air-supported temporary membrane structure or a tent having an area in excess of 200 square feet (19 m²), or a canopy in excess of 400 square feet (37 m²).

Exceptions:

1. Tents used exclusively for recreational camping purposes.
2. Funeral tents and curtains or extensions attached thereto, when used for funeral services.
3. Fabric canopies and awnings open on all sides which comply with all of the following:
 - 3.1 Individual canopies shall have a maximum size of 700 square feet (65 m²).
 - 3.2 The aggregate area of multiple canopies placed side by side without a fire break clearance of not less than 12 feet (3658 mm) not exceeding 700 square feet (65m²) total.
 - 3.3 A minimum clearance of 12 feet (3658 mm) to structures and other tents *is* maintained.