

1301:7-7-50 Hazardous materials – general provisions.

Chapter 50 of the International Fire Code, 2021 edition, as incorporated by reference and modified in Section 101.1.1 of this code, is further modified as follows:

1. Modify section **5001.1 Scope** and its **Exception 4** as follows:

In the second paragraph after “except that where specific requirements” insert “, exceptions or exemptions”.

Delete “apply in accordance with the applicable chapter” and insert “take precedence over the similar requirements of this chapter”.

In exception 4, after “The off-site” insert “and on-site”.

In exception 4, delete “accordance with” and insert “compliance with and regulated by the”.

In exception 8, delete “fireworks and”

Add exception 8.1 as follows:

8.1 Unless specifically referenced in Table 5003.1.1(1) of this chapter or as otherwise stated in Chapter 56 as being regulated in this chapter, the display, storage, sale or use of fireworks in accordance with Chapter 56.

2. Add section **5001.1.2** as follows:

5001.1.2. Notwithstanding Sections 102.1 and 102.2 and unless otherwise noted in this chapter, the provisions of this chapter relating to motor fuel-dispensing facilities and flammable and combustible liquids as otherwise regulated in Chapters 23 and 57 shall not apply to facilities, equipment, structures or installations existing or approved for construction or installation prior to the effective date of this chapter, except in those cases where the fire code official demonstrates by a preponderance of the evidence that the existing facility, equipment, structure or installation creates a distinct hazard to life or adjacent property.

3. Modify section **5001.5 Permits** as follows:

Delete “Sections 105.5 and 105.6” and insert “Chapter I”.

After “Where” insert “a permit is”.

Delete the text beginning “by the fire code official” through and including “apply for approval”.

Delete the period at the end of the first sentence.

Delete the second sentence (beginning “Such application”) in its entirety.

At the beginning of the third sentence delete “The” and insert “the”.

In the third sentence delete “an approved” and insert “a”.

4. Modify section **5001.6.1 Temporarily out-of-service facilities** as follows:

Delete “maintain a permit and”.

At the end of the paragraph after “and inspected” insert “in accordance with the requirements of this code and any required permit”.

5. Modify section **5001.6.2 Permanently out-of-service facilities** as follows:

Delete “for which a permit is not kept current or is”.

After “on a regular basis” insert “in accordance with the requirements of this code and any required permits”.

Delete “permittees” and insert “the responsible person”.

Delete “an approved” and insert “a”.

6. Modify section **5001.6.3 Facility closure plan** as follows:

After “handling or use of hazardous materials,” delete “it” and insert “the plan”.

7. Add section **5002.2** as follows:

5002.2 “Approved” as used in Chapter 50. *As used in this chapter and notwithstanding the definition as set forth in Chapter 2, the term “approved,” unless otherwise further specified or defined in this chapter, means: listed and labeled, or tested and documented in authenticated research reports from an authoritative source listed in Section 118.2, or otherwise acceptable to the fire code official.*

8. Modify **Table 5003.1.1(1) Maximum allowable quantity per control area of hazardous materials posing a physical hazard** as follows:

After the row for “Combustible liquid” insert a new row into the table for consumer fireworks as follows: “Consumer fireworks 1.4G H-3^s 0^r NA NA NA NA NA NA NA”.

In the row for Explosives – Division 1.4G, in the “Solid pounds (cubic feet)” column, delete “125^{e, b}” and insert “0”.

In the row for Flammable gas - liquified, in the “Storage - Liquid gallons (pounds)” column after “(150)^{d, e}” add “, u”

In the row for Flammable gas - gaseous, in the “Gas (cubic feet at NTP)” column after “(1,000)^{d, e}” add “, l”

In the row for Flammable gas - liquified, in the “Use-closed systems - Liquid gallons (pounds)” column after “(150)^{d,e}” add “, u”

In the row for Flammable gas - gaseous, in the “Use-closed systems - Gas (cubic feet at NTP)” column after “(1,000)^{d,e}” add “, t”

In footnote d delete “approved”.

In footnote f delete “approved”.

Delete the text of footnote l and insert “Deleted”.

In footnote p, subparagraph 4, delete “International Mechanical Code” and insert “mechanical code”.

Add footnotes r, s, t and u as follows:

- r. For material classified as consumer fireworks by DOTn and exempted from regulation as fireworks pursuant to Section 3743.80 of the Revised Code, such as novelties and trick noisemakers and wire sparklers as defined in Section 3743.01 of the Revised Code and labeled as 1.4G materials by DOTn, shall have a maximum allowable quantity per control area of 125 pounds.
- s. Except as noted in this footnote, the “Consumer Fireworks” row of this table shall not apply to structures containing material classified as 1.4G (consumer) fireworks by DOTn and further defined as a fountain device pursuant to division (H) of section 3743.01 of the Revised Code and Chapter 2 when such devices are possessed and sold pursuant to a license issued under section 3743.26 of the Revised Code. Such structures, or portions thereof, shall comply with all other applicable portions of this code and the building code for the approved occupancy classification or use of the structure. Such structures shall comply with this table, including the “Consumer Fireworks” row, when any materials subject to this table other than those defined as a 1.4G (Consumer) fireworks fountain device are possessed within the structure.
- t. The maximum allowable quantity of A2L refrigerants is 195,000 cubic feet at NTP in Group M and S occupancies and 162,500 cubic feet at NTP in all other occupancy groups. Where Notes d and e apply, the applicable increases shall be applied.
- u. The maximum allowable quantity of A2L refrigerants is 20,000 pounds in Group M and S occupancies and 10,000 pounds in all other occupancies. Where Notes d and e apply, the applicable increases shall be applied. In Group S occupancies equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, the maximum allowable quantities in storage areas exceeding 50,000 square feet are allowed to be increase by 2 percent for each 1,000 square feet of area in excess of 50,000 square feet, up to an aggregate amount per control area of 80,000 pounds.

9. Modify **Table 5003.1.1(2) Maximum allowable quantity per control area of hazardous materials posing a health hazard** as follows:
In footnote d delete “approved”.
10. Modify **Table 5003.1.1(3) Maximum allowable quantity per control area of hazardous materials posing a physical hazard in an outdoor control area** as follows:
In the row for Flammable gas - liquified, in the “Storage - Liquid gallons (pounds)” column after “(300)” add “^e”

In the row for Flammable gas - gaseous, in the “Gas cubic feet at NTP” column after “(3,000)” add “^e”

In the row for Flammable gas - liquified, in the “Use-closed systems - Liquid gallons (pounds)” column after “(150)” insert “^f”

In the row for Flammable gas - gaseous, in the “Use-closed systems – Gas cubic feet at NTP” column after “(1,500)” add “^f”

Add footnotes e and f as follows:
 - e. *The maximum allowable quantity of A2L refrigerants is 195,000 gas cubic feet at NTP and 20,000 pounds as a liquid in storage.*
 - f. *The maximum allowable quantity of A2L refrigerants is 97,500 gas cubic feet at NTP and 10,000 pounds as a liquid in a closed system.*
11. Modify section **5003.2.1 Design and construction of containers, cylinders and tanks** as follows:
After “constructed in accordance with” insert “*this code and other*”.
12. Modify section **5003.2.2 Piping, tubing, valves and fittings** as follows:
Delete “ASME B31.1” and insert “*this code*”.
13. Modify section **5003.2.2.2 Additional regulations for supply piping for health-hazard materials, Exception** as follows:
Delete “International Building Code” and insert “*building code*”.
14. Modify section **5003.2.3 Equipment, machinery and alarms** as follows:
Delete “listed or”.
15. Modify section **5003.2.4.2 Above-ground tanks** as follows:
After “of the particular matter involved” insert “*as provided by this code*”.
16. Modify section **5003.2.8 Seismic protection** as follows:
Delete “International Building Code” and insert “*building code*”.

17. Modify section **5003.3.1.1 Records** as follows:
Delete “permittee” and insert “*responsible person*”.
18. Modify section **5003.6 Signs** as follows:
Delete “Signs” and insert “*Unless otherwise provided for in NFPA 704, signs*”.
19. Modify section **5003.8.1 Buildings** as follows:
Delete “International Building Code” and insert “*building code*”.
20. Modify **Table 5003.8.2 Detached building required, footnote a.** as follows:
Delete “International Building Code” and insert “*building code*”.
21. Modify section **5003.8.3 Control areas, Exception** as follows:
Delete “International Building Code” and insert “*building code*”.
22. Modify section **5003.8.3.1 Construction requirements** as follows:
Delete “International Building Code” and insert “*building code*” at all occurrences (2).
23. Modify section **5003.8.3.3 Number** as follows:
Delete “International Building Code” and insert “*building code*”.
24. Modify section **5003.8.4.1 Construction** as follows:
Delete “International Building Code” and insert “*building code*”.
25. Modify section **5003.8.4.2 Ventilation systems** as follows:
Delete “International Mechanical Code” and insert “*mechanical code*”.
26. Modify section **5003.8.5.2 Ventilation** as follows:
Delete “International Mechanical Code” and insert “*mechanical code*”.
27. Modify section **5003.8.5.3 Fire-extinguishing system** as follows:
Deleted “approved”.
28. Modify section **5003.8.6.2 Ventilation** as follows:
Delete “International Mechanical Code” and insert “*mechanical code*”.
29. Modify section **5003.9.2 Security** as follows:
Delete “in a manner approved by the fire code official” and insert “*against inappropriate access*”.
30. Modify section **5003.9.9 Shelf storage** as follows:
Delete “International Building Code” and insert “*building code*”.

Move the fourth sentence, beginning “Shelf storage of” below Exception #2 at the same level/indentation as the opening paragraph.

31. Modify section **5003.10.2 Carts and trucks required, Exception 2** as follows:
Delete “drums” and insert “*containers*”.

Before “trucks” delete “drum” and insert “*carts or*”.
32. Modify section **5003.11 Group M storage and display and Group S storage** as follows:
After “Group M occupancy, or an outdoor control area” insert “*associated with a Group M or Group S occupancy*”.
33. Modify **Table 5003.11.1 Maximum allowable quantity per indoor and outdoor control area in Group M and S occupancies-nonflammable solids, nonflammable and noncombustible liquids** as follows:
In the row for “Toxics”, in the “Solids” column, after “1,000” insert “*k*”.

Delete “>” in the row for Class 3 Oxidizers at all occurrences (3).

In footnote b delete “approved”.
34. Modify section **5004.2 Sill control and secondary containment for liquid and solid hazardous materials, Exception** as follows:
Delete “approved”.
35. Modify section **5004.2.2.4 Outdoor design** as follows:
In the second sentence after “If the” insert “*secondary containment*”.

After “open to rainfall,” insert “*the*”.

After “secondary containment” (which will be the 2nd occurrence of the term in the 2nd sentence after the above edit) insert “*area*”.
36. Modify section **5004.2.2.6 Drainage system design** as follows:
Delete “International Plumbing Code” and insert “*plumbing code*”.
37. Modify section **5004.3.1 System requirements, subparagraph 1** as follows:
Delete “International Mechanical Code” and insert “*mechanical code*”.
38. Modify section **5004.5 Automatic sprinkler systems** as follows:
Delete “approved”.
39. Modify section **5004.11 Clearance from combustibles** as follows:
After “kept clear of” insert “*weeds, debris and other*”.

Delete “and vegetation” and insert “*not necessary to the storage*”.
40. Modify section **5004.13 Weather protection** as follows:
Delete “International Building Code” and insert “*building code*”.

41. Modify section **5005.2 Indoor dispensing and use** as follows:
Delete “International Building Code” and insert “*building code*”.
42. Modify section **5005.3.9 Weather protection** as follows:
Delete “International Building Code” and insert “*building code*”.