

661—221.4(101) Flammable or combustible liquids. The IFC, 2024 edition, published by the ICC, Chapter 34 and references contained therein, and NFPA 30, Flammable and Combustible Liquids Code, 2024 edition, and references contained therein, subject to amendments that follow, are adopted by reference as the rules for transportation, storage, handling, and use of flammable or combustible liquids. In any case in which a provision of the IFC conflicts with a provision of NFPA 30, the NFPA provision controls. Any refinery shall comply with the provisions of this rule.

221.4(1) Amendments to the IFC, 2024 edition, are as follows:

- a. The category of combustible liquids does not include compressed gases or cryogenic fluids.
- b. Delete the definition of refinery and insert in lieu thereof the following:

REFINERY. A plant in which flammable or combustible liquids are produced on a commercial scale from crude petroleum, natural gasoline or other sources.

- c. Add the following new sections:

5703.6.12 Each connection to an aboveground tank through which liquid can normally flow shall be provided with an external control valve that is located as close as practical to the shell of the tank as well as an emergency internal check valve at each pipe connection to any tank opening below normal liquid level effectively located inside the tank shell and operable both manually and by an effective heat-activated device that, in case of fire, will automatically close the valve to prevent the flow of liquid from the tank even though the pipelines from the tank are broken.

5703.6.13 Any device dispensing Class I or Class II flammable liquids shall not be constructed or installed less than 100 feet from any existing dwelling unit.

- d. Delete section 5704.2.9.2.2.1, introductory paragraph, and insert in lieu thereof the following:

5704.2.9.2.2.1 Foam fire protection shall:

- a. If required, be provided in accordance with NFPA 11, 2024 edition, and be of a type or types and amount appropriate to suppress fires involving types and amounts of flammable or combustible liquids found on the premises.

- b. Where the flammable or combustible liquid contains more than 10 percent alcohol, be alcohol-resistant and stored separately from any area in which flammable or combustible liquids are stored and, in an area, or areas that will be readily accessible to fire fighters responding to a fire at the facility.

- e. Amend the exception to section 5704.2.9.2.2.1 by adding the following new numbered paragraphs:

6. The premises are not a refinery.

7. The premises do not include bulk storage of flammable or combustible liquids.

8. The premises do not contain total storage capacity to store one million gallons or more of flammable or combustible liquids.

- f. Delete section 5704.3.1.1 and insert in lieu thereof the following:

5704.3.1.1 Approved containers. Only approved containers and portable tanks shall be used, and no flammable or combustible liquid be placed into, stored in, or carried in any container other than one which is metal or hard plastic or be placed into, stored in, or carried in any temporary or disposable container.

221.4(2) Amend NFPA 30, section 22.11.4, by adding the following new paragraphs:

(11) Each secondary containment tank shall have top-only openings and be either a steel double-walled tank or a steel inner tank with an outer containment tank wall constructed in accordance with nationally accepted industry standards, such as those codified by the American Petroleum Institute, the Steel Tank Institute and the American Concrete Institute. Each tank will be listed by an independent testing laboratory.

(12) Each fill opening in a secondary containment tank shall be provided with a spill container that will hold at least 5 gallons.

(13) For any secondary containment tank, interstitial tank space shall be monitored by an approved, continuous, automatic detection system that is capable of detecting liquids, including water. An automatic detection system may be either electronically or mechanically operated.

[ARC 9181C, IAB 4/30/25, effective 6/4/25]