NFPA 11-2005 Standard for Low-, Medium, and High-Expansion Foam

NFPA 11-2005: Low-, Medium-, and High-Expansion Foam (The following Indiana Amendments are reprinted here from the Indiana government web site for your convenience. We have not edited or reformatted these pages, nor have we reviewed the for accuracy. We assume them to be identical to the official amendments as originally printed in the Indiana Register. We make no stated or implied claim as to their accuracy.)

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675 IAC 28-1-3 NFPA 11; standard for low-, medium-, and high-expansion foam

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 10-19-2; IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 3. (a) Standard for Low-, Medium-, and High-Expansion Foam, NFPA 11, 2005 edition, published by National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, Massachusetts 02269-9101 is adopted by reference except as revised hereafter.

b) The following documents referenced in NFPA 11 are not adopted, are not enforceable, and are for information purposes only:

(1) NFPA 16, NFPA 24, NFPA 30, NFPA 1150, NFPA 1901, and NFPA 1961.

(2) ANSI B1.20.1, B16.1, B16.3, B16.4, B16.5, B16.9, B16.11, and B16.25.

(3) ASTM A 53, A 105, A 106, A 135, A 182, A 216, A 234, A 312, A 395, A 795, and SI 10.

(4) AWS D10.9.

(5) API 650.

(6) IEEE 45.

(7) IMO Safety of life at Sea SOLAS Regulations II-2/4.3 and 4.3.5.

(8) UL 162.

(9) Notes: (2) and (3) in Table 5.2.5.2.2.

(c) The following documents referenced in NFPA 11 are adopted and are enforceable:

(1) NFPA 13, as adopted in 675 IAC 13-1-8.

(2) NFPA 15, as adopted in section 8 of this rule.

(3) NFPA 20, as adopted in 675 IAC 13-1-10.

(4) NFPA 70, as adopted in 675 IAC 17.

(5) NFPA 72, as adopted in section 28 of this rule.

(d) Delete Section 1.2.2, and substitute to read as follows: For alternate materials, methods, and design see the General Administrative Rules (675 IAC 12-6-11).

(e) Delete subsection 1.4 in its entirety without substitution.

(f) Delete subsection 1.5 in its entirety and substitute "See 675 IAC 12-6-11.".

(g) Amend the following definitions in Chapter 3 to read as follows:

APPROVED means acceptance by the authority having jurisdiction by one (1) of the following methods:

(1) Investigation or tests conducted by nationally recognized authorities; or

(2) Investigation or tests conducted by nationally recognized technical or scientific organizations; or

(3) Nationally accepted principles.

The investigation, tests, or principles shall establish that the method, material, equipment, design, or type of construction is safe for its intended purpose.

AUTHORITY HAVING JURISDICTION means the Division of Fire and Building Safety or officer of a local unit of government empowered by law to administer and enforce the rules of the commission.

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 of production of labeled equipment or materials and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner. LISTED. 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.

(h) Add the following definitions to Chapter 3 as follows:

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.

NFPA 70, National Electrical Code means the Indiana Electrical Code (675 IAC 17).

TRAINED means one who has undergone the instructions necessary to design, install, and perform the maintenance and recharge service.

(i) Delete subsection 4.2.1.5 in its entirety without substitution.

(j) Amend subsection 4.2.1.6 to read as follows: Water supply or premixed solution shall be protected against freezing.

(k) Delete subsection 4.3.2.1 in its entirety and substitute: Storage Facilities. Foam concentrates and equipment shall be stored in an accessible location not exposed to the hazard they protect. If housed, they shall be in a noncombustible structure. Off-premises supplies shall be of the proper type for use in the systems of the given installation. At the time of a fire, these off-premises supplies shall be accumulated in sufficient quantities, before placing the equipment in operation, to ensure uninterrupted foam production at the design rate for the required period of time.

(l) Amend subsection 4.3.2.5.1 to read as follows: The consumption rates shall be based on the percentage concentrate used in the system design (e.g., three percent (3%) or six percent (6%) or other, if so listed).

(m) Delete subsection 4.7.1.3 without substitution.

(n) Insert subsection 4.8.1 Fixed Systems. These systems are complete installations in which foam is piped from a central foam station, discharging through fixed delivery outlets to the hazard to be protected. Any required pumps are permanently installed.

(o) Insert subsection 4.8.2 Semifixed Systems. These systems are the type in which the hazard is equipped with fixed discharge outlets connected to piping that terminates at a safe distance. The fixed piping installation might or might not include a foam maker. Necessary foam-producing materials are transported to the scene after the fire starts and are connected to the piping.

(p) Insert subsection 4.8.3 Mobile Systems. These systems include any foam-producing unit that is mounted on wheels and that is self-propelled or towed by a vehicle. These units can be connected to a suitable water supply or can utilize a premixed foam solution.

(q) Insert subsection 4.8.4 Portable Systems. These systems are the type in which the foam-producing equipment and materials, hose, etc., are transported by hand.

(r) Delete subsection 4.9.2.3 without substitution.

(s) Delete subsection 4.9.2.4 without substitution.

(t) Delete subsection 4.9.2.5.2 without substitution.

(u) Delete subsection 4.9.2.7 in its entirety and substitute: Where automatic shutdown is required, an alarm condition shall remain until manually reset.

(v) Amend Section 5.2.4.3.2 by deleting the "," between "approved" and "for".

(w) Amend Section 5.2.5.1.3 by inserting "securely" before "attached".

(x) Amend Section 5.2.5.1.5 by inserting "a" before "seal".

(y) Amend Section 5.2.6.4 by inserting "as specified in 675 IAC 12-6-11" after "testing laboratories".

(z) Delete Chapter 7 and substitute the following: Plans and specifications shall be filed as required by the General Administrative Rules (675 IAC 12)

(aa) Delete subsection 8.3.4.1 in its entirety without substitution.

(bb) Amend Section 8.3.4.2 by inserting "." at the end of each sentence for items (1), (2), and (3).

(cc) Delete subsection 8.5.1.4 without substitution.

(dd) Amend Section 6.5.2 by deleting "in the opinion of the authority having jurisdiction".

(ee) Delete Section 6.7.1.1.1 in its entirety without substitution.

(ff) Amend Section 6.11.3.3 by deleting "acceptable to" and substituting "approved by".
(gg) Amend Section 9.1.1 by deleting "where required by the AHJ".
(hh) Delete Section 9.12.2 in its entirety without substitution.
(ii) Amend Section 10.3.1 to read as follows: The completed system shall be tested by trained personnel.
(jj) Amend Section 10.3.2 to read as follows: The tests shall be adequate to determine that the system has been properly installed and that it functions as intended.
(kk) Delete in Section 11.1.6, "competent" and substitute "trained".
(ll) Chapter 2 and the appendices are not adopted as part of this code and are intended for use as a guide, and the standardsreferenced therein are not enforceable as part of this code.

(Fire Prevention and Building Safety Commission; 675 IAC 28-1-3; filed Aug 23, 2006, 4:03 p.m.: 20060906-IR-675050104FRA; readopted filed Aug 8, 2012, 8:08 a.m.: 20120905-IR-675120260RFA; readopted filed Jul 3, 2018, 2:22 p.m.: 20180801-IR-675180204RFA)