Article 28 - NFPA 2001-2004: Standard on Clean Agent Fire Extinguishing Systems

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675 IAC 28-1-40 NFPA 2001; standard on clean agent fire extinguishing systems

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. 40. (a) Standard on Clean Agent Fire Extinguishing Systems, NFPA 2001, 2004 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 2001 are not adopted, are not enforceable, and are for information purposes only:

(1) ANSI B1.20.1.
(2) ANSI C2.
(3) ASME B31.1.
(4) ASTM A 120.
(5) ASTM SI 10.
(6) CGA C-6.
(7) CAN/CSA-Z234.1.
(8) IMO MSC/Circular 848.
(9) ISO/IEC Guide 7.
(10) UL 2127.
(11) UL 2166.
(12) ULC S524-M91.
(13) ULC S529-M87.
(14) OSHA, Title 29 CFR.
(15) Title 46 CFR, Part 72.
(16) Title 46 CFR, Subchapter J.
(17) Title 49 CFR, Parts 170-190.

(c) The following documents referenced in NFPA 2001 are adopted and are enforceable:

(1) NFPA 70, as adopted in 675 IAC 17.
(2) NFPA 72, as adopted in section 28 of this rule.
(3) ASME Boiler and Pressure Vessel Code, as adopted at 680 IAC 2-1-1.

(d) Delete the last sentence of subsection 1.2.1 and substitute to read as follows: For alternate materials, methods, and design, see the General Administrative Rules (675 IAC 12-6-11).

(e) 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.

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.

(f) 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).

TESTING LABORATORY means an independent nationally recognized testing laboratory or other organization listed in the General Administrative Rules (675 IAC 12-6-11).

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

(g) Amend subsection 1.4.2.2 to read as follows: Clean agents shall not be used on fires involving the following materials:

(1) Certain chemicals or mixtures of chemicals, such as cellulose, nitrate, and gunpowder, that are capable of rapid oxidation in the absence of air.

(2) Reactive metals, such as lithium, sodium, potassium, magnesium, titanium, zirconium, uranium, and plutonium.

(3) Metal hydrides.

(4) Chemicals capable of undergoing autothermal decomposition, such as certain organic peroxides and hydrazine.

(h) Delete subsection 4.1.1.2 in its entirety without substitution.

(i) Amend subsection 4.1.3.3 by deleting "suitable" and inserting "approved".

(j) Amend subsection 4.1.4.3 to read as follows: The design pressure shall be suitable for the maximum pressure developed at one hundred thirty degrees Fahrenheit (130°F) (fifty-five degrees Celsius (55°C)) or at the maximum controlled temperature limit.

(k) Delete subsection 4.1.4.4 in its entirety without substitution.

(l) Amend subsection 4.2.1.3 to read as follows: Pipe identification shall not be painted over or removed.

(m) Amend subsection 4.2.3.2 to read as follows: Cast-iron fittings and Class 150 lb fittings shall not be used.

(n) Amend subsection 4.2.3.3 by deleting the first sentence.

(o) Delete the text of subsection 4.2.3.5 and substitute "Welding shall be performed in accordance with the commission rules on boilers and pressure vessels.".

(p) Amend subsection 4.2.5.2 to read as follows: Approved corrosion-resistant materials or coatings shall be required in corrosive atmospheres.

(q) Delete subsection 4.3.1.2.1 in its entirety and substitute the following: Manual-only activation shall be permitted where approved by the AHJ.

(r) Delete subsections 5.1.1, 5.1.2, and 5.1.3 and substitute the following: Plans and specifications shall be filed as required by the General Administrative Rules (675 IAC 12).

(s) Amend subsection 5.2.1 to read as follows: System flow-calculations shall be performed using a calculation method listed. The system design shall be within the manufacturer's listed limitations.

(t) Delete subsection 5.2.1.1 in its entirety without substitution.

(u) Delete subsection 5.2.4 in its entirety without substitution.

(v) Delete subsection 5.3.3 in its entirety without substitution.

(w) Amend subsection 5.7.1.2.1 to read as follows: The agent discharge shall be completed as quickly as possible to suppress the fire and limit the formation of decomposition and combustion products. In no case shall the discharge time exceed ten (10) seconds.

Exception: For inert gases that do not form decomposition products, the discharge time may be extended to achieve the design concentration within one (1) minute.

(x) Amend subsection 5.7.1.2.2 by deleting "or as otherwise required by the authority having jurisdiction" without substitution.

(y) Amend subsection 6.1.1 by deleting "competent" and substituting "trained".

(z) Delete the last sentence of subsection 6.1.5 without substitution.

(aa) Amend the last sentence of subsection 6.2.2 by deleting "competent" and substitute *[sic., substituting]* "trained".

(bb) Amend subsection 6.7.1 to read as follows: Only listed equipment and devices shall be used in the systems. The completed system shall be reviewed and tested to determine that the system has been properly installed and will function as specified.

(cc) Delete subsections 6.7.2.1, 6.7.2.2.1, and 6.7.2.2.2 in their entirety without substitution.

(dd) In subsection 6.7.2.3, delete "or other means" from the last sentence without substitution.

(ee) Delete subsection 6.7.2.2.8 in its entirety without substitution.

(ff) Delete subsection 6.7.2.4.9 in its entirety and substitute to read as follows: The detectors shall be installed in accordance with the manufacturers' installation instructions.

(gg) Amend subsection 7.5.1.1 by deleting "requirements of the authority having jurisdiction" and inserting "rules of the commission".

(hh) Amend subsection 7.9.2.3 by deleting "or as otherwise required by the authority having jurisdiction".

(ii) Chapter 2 and the annexes are not adopted as part of this code and are intended for use as a guide, and the standards referenced therein are not enforceable as part of this code. *(Fire Prevention and Building Safety Commission; 675 IAC 28-1-40; filed Aug 23, 2006, 4:03 p.m.: 20060906-IR-675050104FRA)*