NFPA 20-1999 Installation of Stationary Pumps for Fire Protection

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675 IAC 13-1-10 NFPA 20; installation of stationary pumps for fire protection

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

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

Sec. 10. (a) Standard for the Installation of Stationary Pumps for Fire Protection, NFPA 20, 1999, 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 20 are not adopted, are not enforceable, and are for information purposes only:

(1) NFPA 24, and NFPA 110.

(2) Hydraulic Institute Standards for Centrifugal, Rotary, and Reciprocating Pumps.

(3) NEMA Standards.

(4) SAE Standards, J-1349.

(5) ANSI/IEEE C62.1, C62.11, C62.41.

(6) ASTM-E.380.

(c) Delete the last sentence of subsection 1-2.1 and substitute to read as follows: For alternate methods, materials, and design, see the General Administrative Rules (675 IAC 12-6-11).

(d) Delete subsection 1-2.2 in its entirety without substitution.

(e) Delete subsection 1-4.3 and substitute the following: Plans and specifications shall be filed as required by the General Administrative Rules (675 IAC 12-6).

(f) Delete subsection 1-5 without substitution.

(g) Change the last sentence of section 1-7 to read as follows: The purchaser shall furnish this data to the authority having jurisdiction when requested.

(h) Amend the following definitions in section 1-8 to read as follows:

APPROVED means, as to materials, equipment, and types of construction, accepted by the authority having jurisdiction by one (1) of the following methods: investigation or tests conducted by recognized authorities; or investigation or tests conducted by technical or scientific organizations; or accepted principles. The investigation, tests, or principles shall establish that the materials, equipment, and types of construction are safe for their intended purpose.

AUTHORITY HAVING JURISDICTION means the state building commissioner or officer of a local unit of government empowered by law to administer and enforce the rules of the commission. For the purposes of Industrialized Building Systems (675 IAC 15), authority having jurisdiction means the state building commissioner.

LISTED. Equipment or materials included in a list published by an organization engaged in product evaluation that maintains periodic inspection or 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.

(i) Add the following definitions to section 1-8 to read as follows:

NFPA 13, Installation of Sprinkler Systems means 675 IAC 13-1-8.

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).

(j) Delete, in section 1-8, the definition of Aquifer.

(k) Delete subsection 1-8.1 in its entirety without substitution.

(l) Delete subsection 2-1.1 in its entirety without substitution.

(m) Delete subsection 2-1.2 in its entirety without substitution.

(n) Amend subsection 2-2.3 to read as follows: Dual-drive pump units shall not be used.

(o) Delete, in section 2-3, the last sentence of the first paragraph.

(p) Amend Exception No. 2 to subsection 2-7.1.1 to read as follows: In buildings protected with an automatic sprinkler system installed in accordance with NFPA 13 (675 IAC 13-1-8), the separation requirement may be reduced to 1-hour fire-rated construction.

(q) Amend subsection 2-8.4 to read as follows: Torch-cutting or welding in the pump house shall be permitted as a means of modifying or repairing pump house piping when it is performed in accordance with NFPA 51B (675 IAC 22-2.2-12).

(r) Amend Exception No. 2 to subsection 2-9.9(a) to read as follows: Check valves and backflow prevention devices and assemblies shall be permitted where required by the water purveyor.

(s) Amend the last sentence of subsection 2-10.2 to read as follows: All pump discharge pipe shall be hydrostatically tested in accordance with NFPA 13 (675 IAC 13-1-8).

(t) Amend subsection 2-14.3.2 to read as follows: Hose valve(s) shall have threads that are compatible with the local fire department hose threads.

(u) Delete subsection 2-14.3.2, Exception without substitution.

(v) Delete subsection 2-21.4 without substitution.

(w) Delete subsection 2-22.1 and substitute to read as follows: The fire pump, driver, diesel fuel tank, and the fire pump controller shall resist lateral loads as required by the Building Code (675 IAC 13).

(x) Amend subsection 4-2.1.1 to read as follows: The water supply shall be in accordance with Chapter 4.

(y) Amend subsection 4-2.1.2 by deleting "satisfactory" in two (2) places.

(z) Amend the third sentence of subsection 4-2.7 to read as follows: The test shall be witnessed by a representative of the customer and contractor as required.

(aa) Amend subsection 4-3.3.2 by deleting "suitable" and substituting "approved".

(bb) Amend the first sentence of subsection 4-4.2 to read as follows: The driver shall be screened or enclosed and protected against tampering.

(cc) Amend the first and second sentences of subsection 4-5.1.3.1 to read as one (1) sentence as follows: Gear drives and flexible connecting shafts shall be of the vertical hollow-shaft type.

(dd) Amend subsection 7.5.4 by deleting from the exception "or where the authority having jurisdiction has required manual shutdown".

(ee) Delete section 7-7 without substitution.

(ff) Amend subsection 7-8.1.1 by deleting "by the authority having jurisdiction".

(gg) Amend subsection 8-1.2 to read as follows: Spark-ignited internal combustion engines shall not be used. This restriction shall not be interpreted to exclude gas turbine engines as future pump drivers.

(hh) Delete subsection 8-4.1 and substitute the following: Plans and specifications shall be filed as required by the General Administrative Rules (675 IAC 12).

(ii) Amend the first sentence of subsection 8-4.5 to read as follows: Diesel fuel supply tanks shall be located aboveground in accordance with the Indiana Fire Code (675 IAC 22) and shall not be buried.

(jj) Amend the exception to subsection 9-5.2.6 to read as follows: Automatic shutdown shall not be permitted where the pump constitutes the sole source of supply of a fire sprinkler or standpipe system.

(kk) Delete subsection 9-6.7.4 without substitution.

(ll) Amend the last sentence of subsection 9-6.13 to read as follows: Manual shutdown shall also be provided.

(mm) Delete the text in subsection 11-2.2 in its entirety and substitute to read as follows: The fire department shall be notified a minimum of twenty-four (24) hours prior to the test.

(nn) Delete subsection 11-3.2 without substitution.

(oo) Delete section 11-5 without substitution.

(pp) Delete Chapter 12 in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 13-1-10; filed Sep 5, 1986, 9:22 a.m.: 10 IR 14; filed Apr 5, 1988, 3:05 p.m.: 11 IR 2868; filed Aug 15, 1997, 8:54 a.m.: 21 IR 100; filed Nov 14, 2001, 4:55 p.m.: 25 IR 1172; filed Nov 25, 2002, 9:10 a.m.: 26 IR 1098; readopted filed Sep 21, 2007, 9:20 a.m.: 20071010-IR-675070388RFA; readopted filed Oct 10, 2007, 9:16 a.m: 20071031-IR-675070388RFA)*