

NFPA 20

3.3.24

3.3.24 High-Rise Building. A building where the floor of an occupiable story is greater than 55 ft (16.8 m) ~~75 ft (23 m)~~ above the lowest level of fire department vehicle access.

4.1.3

4.1.3 Where a pump is used to provide booster pressure supply to multiple structures, a redundant fire pump shall be provided for each required fire pump.

4.10.1.1

4.10.1.1 A liquid-filled pressure gauge having a dial not less than 3.5 in. (89 mm) in diameter shall be connected near the discharge casting with a 0.25 in. (6.25-mm) gauge valve.

4.10.2.1

4.10.2.1 Unless the requirements of 4.10.2.4 are met, a liquid-filled compound pressure and vacuum gauge having a dial not less than 3.5 in. (89 mm) in diameter shall be connected to the suction pipe near the pump with a 0.25 in. (6.25-mm) gauge valve.

4.12.1.1.1

4.12.1.1.1* Fire pump units ~~-serving high-rise buildings~~ shall be protected from surrounding occupancies by a minimum of 2-hour fire-rated construction or physically separated from the protected building by a minimum of 50 ft (15.3m).

4.12.1.1.2

4.12.1.1.2 ~~Indoor fire pumps in non-high-rise buildings shall be physically separated or protected by fire-rated construction in accordance with Table 5.12.1.1.2.~~ Standalone dedicated fire pump houses shall have a fire-resistance rating of not less than 2 hours unless the fire pump house is located a minimum of 50 feet away from the building served by the fire pump.

Table 4.12.1.1.2

Table 4.12.1.1.2 Equipment Protection

<i>Building(s)</i>	<i>Exposing Pump</i>	<i>Required</i>
<i>Pump Room/ House</i>	<i>Room/House</i>	<i>Separation</i>
Not sprinklered	Not sprinklered	2 hour fire rated

Not sprinklered	Fully sprinklered	or
Fully sprinklered	Not sprinklered	50 ft (15.3 m)
Fully sprinklered	Fully sprinklered	1 hour fire rated
		or 50 ft (15.3 m)

4.12.1.3

4.12.1.3 Fire Pump Buildings or Rooms with Diesel Engines. Fire pump buildings or rooms enclosing diesel engine pump drivers and day tanks shall be protected with an automatic sprinkler system installed in accordance with NFPA 13, *Standard for the Installation of Sprinkler Systems*.

4.12.2.1.1

4.12.2.1.1. Fire pump rooms not directly accessible from the outside shall be accessible through an enclosed passageway from an enclosed stairway or exterior exit. The enclosed passageway and/or stairway shall have a minimum 2-hour fire-resistance rating. The travel distance through the enclosed passageway shall not exceed 50 feet.

4.12.3.1

4.12.3.1 An approved or listed permanently installed (hard-wired for electrically powered devices) source of heat shall be provided for maintaining the temperature of a pump room or pump house, ~~where required,~~ above 40° F (5° C).

4.12.4

4.12.4 Normal Lighting. Artificial permanently installed lighting shall be provided in a pump room or house.

4.14.4.1

4.14.4.1 ~~Where the suction supply is of sufficient pressure to be of material value without the pump, the~~ All pumps supplied by municipal water supply shall be installed with a bypass. (See Figure A.4.14.4.)

5.1.1.3

5.1.1.3 Where pumps are used in structures with walking levels greater than 250 ft in height about the lowest level of fire department access, a redundant fire pump shall be provided for each required fire pump.

9.3.1

9.3.1 ~~Except for an arrangement described in 9.3.3, At least one alternate source of power shall be provided when the requirement of 9.3.3 is not satisfied. height of the structure is beyond the pumping capacity of the fire department apparatus.~~

9.3.4

9.3.4 When provided, the alternate source of power shall be supplied from one of the following sources:

- (1) A generator installed in accordance with Section 9.6.

- (2) One of the sources identified in 9.2.2(1), 9.2.2(2), 9.2.2(3), or 9.2.2(5) where the power is provided distinctly independent of the normal source of power. Any connections to the public utility shall be considered a single source of power and subsequently cannot be utilized as both normal power and the alternate (backup) power.

10.2.1

10.2.1 Controllers shall be located as close as is practical to the motors they control and shall be within sight of the motors. Additionally, the controllers shall be readily accessible by locating controllers near the entrance to the room, and shall comply with clearance requirements from the National Electrical Code.

10.4.7.1.1

10.4.7.1.1 Where the fire pump serves a building equipped with a Fire Command Center, the signal(s) required remote from the controller shall be indicated both on a dedicated panel provided by the fire pump manufacturer and on the fire alarm control panel.

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