



Tentative Interim Amendment

NFPA 1901

Standard for Automotive Fire Apparatus

2009 Edition

Reference: Various Sections

TIA 09-1

(SC 08-10-8/TIA Log #934)

Pursuant to Section 5 of the NFPA Regulations Governing Committee Projects, the National Fire Protection Association has issued the following Tentative Interim Amendment to NFPA 1901, *Standard for Automotive Fire Apparatus*, 2009 edition. The TIA was processed by the Technical Committee on Fire Department Apparatus, and was issued by the Standards Council on October 28, 2008, with an effective date of November 17, 2008.

A Tentative Interim Amendment is tentative because it has not been processed through the entire standards-making procedures. It is interim because it is effective only between editions of the standard. A TIA automatically becomes a proposal of the proponent for the next edition of the standard; as such, it then is subject to all of the procedures of the standards-making process.

1. *Revise 3.3.66 to read as follows:*

3.3.66 Fire Pump. A water pump with a rated capacity of at least 250 gpm (1000 L/min) but less than through 3000 gpm (12,000 L/min) at 150 psi (1000 kPa) net pump pressure, or a water pump with rated capacity over of 3000 gpm (12,000 L/min) or greater at 100 psi (700 kPa) net pump pressure, that is mounted on a fire apparatus and used for fire fighting.

2. *Revise 16.2.3.1 to read as follows:*

16.2.3.1 If the pumping system is rated at less than 3000 gpm (12,000 L/min) ~~or less~~, it shall be capable of delivering the following:

- (1) One hundred percent of rated capacity at 150 psi (1000 kPa) net pump pressure
- (2) Seventy percent of rated capacity at 200 psi (1400 kPa) net pump pressure
- (3) Fifty percent of rated capacity at 250 psi (1700 kPa) net pump pressure.

3. *Revise 16.2.3.2 to read as follows:*

16.2.3.2* If the pumping system is rated at ~~over~~ 3000 gpm (12,000 L/min) or greater, it shall be capable of delivering the following:

- (1) One hundred percent of rated capacity at 100 psi (700 kPa) net pump pressure
- (2) Seventy percent of rated capacity at 150 psi (1000 kPa) net pump pressure
- (3) Fifty percent of rated capacity at 200 psi (1400 kPa) net pump pressure.

4. *Revise A.16.2.3.2 to read as follows:*

A.16.2.3.2 Pumps ~~larger than~~ of 3000 gpm (12,000 L/min) or greater capacity are used for specialized industrial fire-fighting applications, where the apparatus is typically supplied by a high pressure feed system.

5. *Revise 16.2.4.1 to read as follows:*

16.2.4.1* The pump manufacturer shall certify that the fire pump is capable of pumping 100 percent of rated capacity at 150 psi (1000 kPa) net pump pressure for pumps rated at less than 3000 gpm (12,000 L/min) ~~or less~~ or at 100 psi (700 kPa) for pumps rated ~~greater than~~ at 3000 gpm (12,000 L/min) or greater from draft through 20 ft (6 m) of suction hose with a strainer attached under the following conditions:

- (1) An altitude of 2000 ft (600 m) above sea level
- (2)

6. *Revise 16.2.4.2 to read as follows:*

16.2.4.2* The pump manufacturer shall certify that the pump is capable of pumping rated capacity at 150 psi (1000 kPa) net pump pressure for pumps rated at less than 3000 gpm (12,000 L/min) ~~or less~~ or at 100 psi (700 kPa) for pumps rated ~~greater than~~ at 3000 gpm (12,000 L/min) or greater at any of the following special conditions when these conditions are specified by the purchaser:

- (1) At an elevation above 2000 ft (600 m)
- (2) At lifts higher than those listed in Table 16.2.4.1(a), through more than 20 ft (6 m) of suction hose, or both
- (3) For pumps having a rated capacity of 1500 gpm (6000 L/min) or larger, through a single suction hose only, or through the number of hose listed in Table 16.2.4.1(a) attached to one side of the apparatus only

7. *Revise 16.3.3 to read as follows:*

16.3.3 If the fire pump is rated at 750 gpm (3000 L/min) or greater but ~~not greater~~ less than 3000 gpm (12,000 L/min), the engine/pump combination shall be capable of delivering the rated pump capacity at 165 psi (1100 kPa) net pump pressure.

8. *Revise 16.13.1.1.2 to read as follows:*

16.13.1.1.2 If the fire pump is rated at 750 gpm (3000 L/min) or greater but ~~not greater~~ less than 3000 gpm (12,000 L/min), the pumping engine overload test (*see 16.13.3*) shall be included.

9. *Revise 16.13.2.3.4 to read as follows:*

16.13.2.3.4 If the apparatus is equipped with a fire pump rated at 750 gpm (3000 L/min) or greater but ~~not greater~~ less than 3000 gpm (12,000 L/min), the pump shall be subjected to a 3-hour pumping test from draft consisting of 2 hours of continuous pumping at rated capacity at a minimum of 150 psi (1000 kPa) net pump pressure, followed by ½ hour of continuous pumping at 70 percent of rated capacity at a minimum of 200 psi (1400 kPa) net pump pressure and ½ hour of continuous pumping at 50 percent of rated capacity at a minimum of 250 psi (1700 kPa) net pump pressure.

10. *Revise 16.13.2.3.5 to read as follows:*

16.13.2.3.5 If the apparatus is equipped with a fire pump rated at ~~greater than~~ 3000 gpm (12,000 L/min) or greater, the pump shall be subjected to a 3-hour pumping test from draft consisting of 2 hours of continuous pumping at rated capacity at a minimum of 100 psi (700 kPa) net pump pressure, followed by ½ hour of continuous pumping at 70 percent of rated capacity at a minimum of 150 psi (1000 kPa) net pump pressure and ½ hour of continuous pumping at 50 percent of rated capacity at a minimum of 200 psi (1400 kPa) net pump pressure.

11. *Revise 16.13.3 to read as follows:*

16.13.3 Pumping Engine Overload Test. If the pump has a rated capacity of 750 gpm (3000 L/min) or greater but ~~not greater~~ less than 3000 gpm (12,000 L/min), the apparatus shall be subjected to an overload test consisting of pumping rated capacity at 165 psi (1100 kPa) net pump pressure for at least 10 minutes.

12. *Revise 16.13.4.1 to read as follows:*

16.13.4.1 If the pump is rated at less than 3000 gpm (12,000 L/min) ~~or less~~, the pressure control system on the pump shall be tested as follows:

- (1) The pump shall be operated at draft, delivering rated capacity at a discharge gauge pressure of 150 psi (1000 kPa).
- (2)

13. *Revise 16.13.4.2 to read as follows:*

16.13.4.2 If the pumping system is rated at ~~greater than~~ 3000 gpm (12,000 L/min) or greater, the pressure control system on the pump shall be tested as follows:

- (1) The pump shall be operated at draft, delivering rated capacity at a discharge gauge pressure of 100 psi (700 kPa).
- (2)

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(Note: For further information on NFPA Codes and Standards, please see www.nfpa.org/codelist)