

	<h1>COMMERCE FIRE DEPARTMENT</h1> <h2>Standard Operating Guidelines</h2>
	Subject: Fire Apparatus Pump Testing
	Reference Number: 5.02
	Effective Date: 1/23/2014 Last Date Revised: 2/5/2015
Approved By: Chief Kevin Dean	

Purpose: All fire apparatus pumps should be tested in reference to *NFPA 1911, Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus*, most current Edition. Nothing in this standard operating guideline shall prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety over those prescribed by this standard. As a portion of this department's annual equipment testing procedures, this guideline shall apply to the conduct of in-service test of fire pump systems on fire apparatus. This guideline shall cover the service testing of fire pump systems on automotive fire apparatus. This testing is to help ensure serviceability that the pump continues to be capable of the performance for which it was designed. This testing shall provide data that will be used to assess and anticipate mechanical failure of the equipment. The documentation shall be maintained to provide service records for I.S.O. surveys.

Terminology:

Fire Apparatus - A vehicle designed to be used under emergency conditions to transport personnel and equipment, and to support the suppression of fires and mitigation of other hazardous situations.

Fire Pump - A water pump with a rated capacity of 250gpm or greater at 150psi net pump pressure that is mounted on a fire apparatus and used for firefighting.

Service Test - Tests made after a fire pump has been put into service to determine if its performance is still acceptable.

Acceptance Test - Test done before accepting a new fire apparatus and placing it into service.

Vacuum Test – This is basically a test of the priming system and the tightness of the pump and fittings, not a test of the ability to maintain a vacuum while pumping water.

Responsibility:

1. Fire apparatus pumps shall be tested annually. The scheduling of fire apparatus pump test procedures shall be established and published by the Chief of the department. A certified member of the department will perform tests.
2. Service test shall be conducted whenever major repairs or modifications to the pump or any component of the apparatus that is used in pump operations have been made.
3. Acceptance test shall be conducted prior to accepting a new fire pump apparatus.
4. Vacuum test shall be conducted during acceptance testing and during annual pump testing.
5. Fire apparatus pump testing shall be conducted at the arranged designated test site area at the Commerce Fire Department.
6. Persons conducting the testing shall document the testing of fire apparatus pumps on pump test form, and such documentation is to be forwarded to the Chief.
7. Persons conducting the testing shall check the fire apparatus' previous pump test documentation, noting any major repairs to the engine or the pump and also any rated capacity adjustments.
8. A detailed general pump check should be conducted prior to the start of testing; any damaged or defective equipment shall be reported to the City Shop maintenance personnel for repair prior to pump testing.

Environmental Conditions:

Pump Test shall be performed when the environmental conditions are within the limits as follows:

1. Air temperature 0°F to 110°F (-18°C to 43°C), Water temperature 35°F to 90°F (2°C to 32°C), Barometric pressure 29in. Hg, minimum (corrected to sea level)

General Considerations:

1. All equipment shall be handled with care and respect.