

**1 GENERAL INFORMATION**

Address	Borough
Date of Test	Application No.
Pump Manufacturer	Model No.
Pump Capacity (GPM)	Rated Horsepower
Pump Type	Model No.
Pump Driver: <input type="checkbox"/> Electric Motor <input type="checkbox"/> Diesel Engine <input type="checkbox"/> Steam Turbine <input type="checkbox"/> Other _____    Motor Voltage _____	

**2 SYSTEM INFORMATION**

Pump Serving:  Standpipe     Combined Sprinkler/Standpipe

Standpipe Classification:  Class I Standpipe     Class II Standpipe     Class III Standpipe

Type of Standpipe System:  Dry     Wet     Automatic     Manual<sup>1</sup>     Semi-automatic Dry

Riser Diameter \_\_\_\_\_ No. of Riser \_\_\_\_\_

Have Flush and Hydrostatic Tests been completed as required by NFPA 20, Section 14.1?     YES     NO

Has the flushing of piping been completed as required by NFPA 14, section 11.2?     YES     NO

Have Hydrostatic Tests been completed as required by NFPA 14, section 11.4?     YES     NO

Design System Demand:  Sprinkler \_\_\_\_\_ GPM     Standpipe \_\_\_\_\_ GPM

No. of Water Supply services required for Standpipe System or Combined Sprinkler and Standpipe System per BC Q102 & Q105 \_\_\_\_\_

*NOTE: When fire pumps are supplied by two services, conduct the test from each service independent of each other. For example, if primary water supply is city main, and secondary is gravity tank, then fill out **System Test 1** below using city main, and **System Test 2** below using gravity tank. If applicable, conduct one (1) additional test with both services supplying the pump simultaneously.*

Pump Location in building: \_\_\_\_\_ Zone & Floors Pump is Serving: \_\_\_\_\_

Standpipe hydraulically most Remote Outlet Location \_\_\_\_\_ Suction Size \_\_\_\_\_ in.

Does the electric motor have an alternate source of power and an automatic transfer switch?     YES     NO

If YES, in addition to testing the system with each water supply, the system shall also be tested using the alternate source of power to simulate loss of primary source in accordance with NFPA 20, Section 14.2.9.

**3 FIRE PUMP FIELD ACCEPTANCE TEST/STANDPIPE SYSTEM ACCEPTANCE TEST**
**SYSTEM TEST 1: Primary Water Supply (Circle One: City Main/Gravity/Suction/Pressure Tank)**
*Fire Pump Field Acceptance Test*

Pump Capacity	Fire Pump Field Acceptance: Flow Test (NFPA 20) – Verify with Pump Curve per Manufacturer					
	Pump Flow (GPM)	Discharge Nozzle Size (in.)	Driver Speed (RPM)	Suction Pressure (PSI)	Pump Discharge (PSI)	Net Pressure (PSI)
Minimum (Churn)						
Rated (100%)						
Peak (150%)						

*Standpipe System Acceptance Test<sup>3</sup>*

Standpipe System Acceptance Test: Flow Test(NFPA 14)-Verify with Design System Demand		
Pump Flow (GPM)	Total Pressure at Hydraulically Most Remote Outlet (PSI)	Flow at Hydraulically Most Remote Outlet (GPM)

**SYSTEM TEST 2: Secondary Water Supply (Circle One: City Main/Gravity/Suction/Pressure Tank)**
*Fire Pump Field Acceptance Test*

Pump Capacity	Fire Pump Field Acceptance: Flow Test (NFPA 20) – Verify with Pump Curve per Manufacturer					
	Pump Flow (GPM)	Discharge Nozzle Size (in.)	Driver Speed (RPM)	Suction Pressure (PSI)	Pump Discharge (PSI)	Net Pressure (PSI)
Minimum (Churn)						
Rated (100%)						
Peak (150%)						

**SYSTEM TEST 2: Secondary Water Supply** (Circle One: City Main/Gravity/Suction/Pressure Tank)

*Fire Pump Field Acceptance Test*

Pump Capacity	Fire Pump Field Acceptance: Flow Test (NFPA 20) – Verify with Pump Curve per Manufacturer					
	Pump Flow (GPM)	Discharge Nozzle Size (in.)	Driver Speed (RPM)	Suction Pressure (PSI)	Pump Discharge (PSI)	Net Pressure (PSI)
Minimum (Churn)						
Rated (100%)						
Peak (150%)						

*Standpipe System Acceptance Test<sup>3</sup>*

Standpipe System Acceptance Test: Flow Test (NFPA 14)-Verify with Design System Demand		
Pump Flow (GPM)	Total Pressure at Hydraulically Most Remote Outlet (PSI)	Flow at Hydraulically Most Remote Outlet (GPM)

**SYSTEM TEST 3: Combined Water Supplies** (Circle One: City Main/Gravity/Suction/Pressure Tank)

*Fire Pump Field Acceptance Test*

Pump Capacity	Fire Pump Field Acceptance: Flow Test (NFPA 20) – Verify with Pump Curve per Manufacturer					
	Pump Flow (GPM)	Discharge Nozzle Size (in.)	Driver Speed (RPM)	Suction Pressure (PSI)	Pump Discharge (PSI)	Net Pressure (PSI)
Minimum (Churn)						
Rated (100%)						
Peak (150%)						

*Standpipe System Acceptance Test<sup>3</sup>*

Standpipe System Acceptance Test: Flow Test (NFPA 14)-Verify with Design System Demand		
Pump Flow (GPM)	Total Pressure at Hydraulically Most Remote Outlet (PSI)	Flow at Hydraulically Most Remote Outlet (GPM)

**SYSTEM TEST 4: Fire Pump on Emergency Power**

*Fire Pump Field Acceptance Test*

Pump Capacity	Fire Pump Field Acceptance: Flow Test (NFPA 20) – Verify with Pump Curve per Manufacturer					
	Pump Flow (GPM)	Discharge Nozzle Size (in.)	Driver Speed (RPM)	Suction Pressure (PSI)	Pump Discharge (PSI)	Net Pressure (PSI)
Minimum (Churn)						
Rated (100%)						
Peak (150%)						

**NOTES:**

- For manual standpipes, a fire department pumper or portable pump of a capacity to provide required flow and pressure shall be used to verify the system design by pumping into the fire department connection, in accordance with NFPA 14 Section 11.5.2.
- The standpipe system tested shall be provided with at least one 3-way manifold equipped with 2½ inch valves with hose valve caps. The standpipe system shall be tested at the hydraulically most remote portion of the system which sometimes may not be the roof if the highest riser is located at an intermediate zone of the building. In buildings with multizone standpipe system, where it is not feasible to discharge water at a (roof) testing manifold, because the hydraulically most remote portion of the system is not located in the roof, supplemental procedures shall be followed to discharge water resulting from the test.
- Where fire pumps are part of the water supply for a standpipe system, standpipe systems shall be tested to verify system demand while the fire pumps are operating. However, depending on the system's demand, the fire pump flow at the hydraulically most remote outlet may NOT be required to match the fire pump's peak or rated capacity.
- Licensed Master Plumber shall only perform plumbing work as defined in the NYC Administrative Code Section §28-401.3.

**4 SIGNATURE & WITNESS**

Did the fire pump perform in accordance with the manufacturer's characteristic curve?  YES  NO

Relief Valve Properly Set by: \_\_\_\_\_

Contractor (name, address, telephone no.) \_\_\_\_\_

Licensed Master Fire Suppression Piping Contractor (print) \_\_\_\_\_ Signature \_\_\_\_\_

Licensed Master Plumber<sup>4</sup> (print) \_\_\_\_\_ Signature \_\_\_\_\_

The above test was witnessed by (print) \_\_\_\_\_ Signature: \_\_\_\_\_