

## **BOSTON FIRE DEPARTMENT STANDPIPE TEST PROCEDURES**

The Boston Fire Department witnesses standpipe and fire department valve tests during the certificate of occupancy process. These tests are required to meet NFPA 14 (2007). *Note that no testing will be witnessed until the Boston Fire Department receives a report specifying the test procedure and results obtained by the responsible contractor.*

**Necessary Personnel:** The following persons must be present in sufficient number to run the test safely and effectively - building owner, general contractor, sprinkler contractor and fire alarm contractor. Notify the Inspectional services department.

**Necessary Equipment:** The general contractor must ensure that test equipment is present to perform the test safely and effectively. This will include at least one flow/pressure gauge, pitot tubes and listed fire hose in good condition.

### **Procedure to Pass NFPA 14, 7.10 and 11.5 Criteria.**

1. Flow topmost single outlet at 500 GPM, or pair of outlets of the most hydraulically remote standpipe at 250 GPM each at 100 PSI. For horizontal standpipes that supply 3 or more hose connections the flow shall be 750 GPM.
2. Flow additional standpipes at 250 GPM each at 100 PSI, to a maximum of:
  - 1000 GPM in fully sprinklered buildings.
  - 1250 GPM in all other buildings.

### **Procedure to Pass NFPA 14, 7.8 and 11.5 Criteria.**

1. Flow 250 GPM at top outlet of most hydraulically remote standpipe throughout testing.
2. Test each standpipe outlet to the following standard from NFPA 14:
  - 100 PSI minimum required residual (flow) pressure.
  - 175 PSI maximum required static pressure.

**Manual Standpipes:** Manual standpipes must be tested per NFPA 14, 11.5.2. The Boston Fire Department requires that a report be presented describing the test procedure which the general contractor and sprinkler contractor will follow to meet the test criteria. This test procedure must be approved by the Boston Fire Department.

**Dry Systems:** Automatic and semi-automatic dry systems shall be tested completely per NFPA 14, 11.5.6 for flow, time and control criteria.