



POLICY MANUAL

Daily Operations - Miscellaneous Hydrant Flow Testing

Revised: 02-23-98

Code: 1 – 14 – 3

Book Chapter Subject

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3.0 Purpose: Establish Procedures For Obtaining Hydrant Flow Data.

3.01 Scope: All Shift Assigned Personnel.

3.02 POLICY

Hydrant flow information will be gathered only upon request.

3.03 PROCEDURE

Four pieces of information are needed - static, residual, Pitot, and GPM. To do a proper test, you must check the water plat book to find two hydrants on the same main.

#1
Flow Test Hydrant

#2
Static & Residual Hydrant

1. Hydrant #2 (Static)
 - A. Connect static gauge, with petcock open to 2-1/2".
 - B. Open 2-1/2" valve.
 - C. Shut petcock when air is expelled.
 - D. Record static pressure.
2. Hydrant #1 (Pitot)
 - A. Open 2-1/2" valve.
 - B. Place Pitot in center of discharge and 1-1/4" away. Make sure the petcock is open before using Pitot and closed when air is expelled.
 - C. Record Pitot pressure.
3. Hydrant #2 (Residual)
 - A. Record residual pressure from static gauge connected to Hydrant #2 when Hydrant #1 is fully open. Open the petcock on the static gauge before closing the 2-1/2" valve. This will prevent damage to the gauge.



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3.03 PROCEDURE - (Cont.)

4. G.P.M. for 2½” Outlet (N.F.P.A. 1995 Edition)

A. Use Pitot pressure to determine G.P.M. from chart below.

Pitot	G.P.M.	Pitot	G.P.M.
16	746	32	1055
18	791	34	1088
20	834	36	1119
22	875	38	1150
24	914	40	1180
26	951	42	1209
28	987	44	1237
30	1022	46	1265

3.04 INFORMATION

E-Mail the following flow information to the Hydrant Program Manager, so it can be recorded:

Static Pressure, Residual Pressure, Pitot Reading, G.P.M. and Time and Date of Test.