

Hauser Lake Fire Protection District

Standard Operating Guideline Hose Testing Procedures

Effective: _

SOG 026

The following procedure should be utilized for testing of fire hose.

1.1. Appropriate PPE and safety practices should be utilized at all times when unloading, loading and testing hose.

1.1.A. The following safety practices shall be observed:

1.1.A.a. All persons not required for test procedure shall remain clear of test area

1.1.A.b. If inspecting personnel “walk” the test layout to inspect for leaks they shall be at least 15 feet to the left of the nearest hose (left when facing hose from test pump)

1.1.A.c. Personnel shall never stand in front of the free end of hose

1.1.A.d. Personnel shall not be closer than 15 feet from left side of hose

1.1.A.e. Personnel shall never straddle hose

1.2. A “stand alone” hose tester will be used to minimize the potential for hose “whipping” in the event a hose being tested fails.

1.3. HOSE TESTING PROCEEDURE

1.3.A. Visually inspect hose and couplings for excessive wear or damage

1.3.B. Mark hose at back of coupling on each end

1.3.C. Connect hose to hose testing apparatus and tighten all couplings. NOTE: No more than 300 feet hose per tester connection.

1.3.D. Bleed all air from hose line(s) using unassisted water system pressure (hose tester pump OFF)

1.3.E. Once all air is bled from hose(s) and hose end nozzles are closed gradually raise pressure to required service test pressure at a rate of no more than 15 psi per second.

1.3.F. If any leaks occur at couplings during pressure build up, shut down system, relieve pressure in the hose with the leak and inspect, tighten and/or replace coupling gasket as needed. Begin procedure from step 26.3.D

1.3.G. Once service test pressure is reached allow pressure to stabilize for one minute

1.3.H. Hold service test pressure for three (3) minutes and inspect for leaks. If any leaks are noted shut down the affected test line and note hose involved. At the conclusion of the test either repair or remove from service the hose affected and retest the remaining hose(s) in that line.

1.3.I. After three (3) minutes of test shut down pump, bleed pressure and drain hose(s).

- 1.3.J. Visually inspect hose couplings for hose “creep”.
- 1.4. Accurate record of the hose test should be kept noting hose ID number and test pass or fail. Any hose failing the test and not repairable shall be tagged and removed from service.
- 1.5. If Service Test Pressure is not marked on hose the following guidelines should be used:

1 ½” - 2 ½”	Single Jacket	150 psi
1 ½” - 4”	Double Jacket	250 psi
1” - 1 ½” Forestry Lined	Single Jacket	250 psi
3 ½” - 5”	Relay Supply	200 psi
5” - 6”	Relay Supply	150 psi
4” - 6”	Pump Supply	200 psi