



HORRY COUNTY
FIRE / RESCUE DEPARTMENT
PROUD * PREPARED * PROFESSIONAL



STANDARD OPERATING PROCEDURE

APPROVED BY GARRY B. ALDERMAN, FIRE CHIEF:

DATE: 09/24/2011

SOP 307

HOSE TESTING AND REPAIR PROCEDURES

Purpose of this Standard

The purpose of annual hose testing is to provide a reasonable level of safety as well as a reasonable degree of assurance that hose and associated parts will perform as desired. The elements of this procedure are compliant as much as possible with NFPA 1962, Standard for the Care, Use, and Service Testing of Fire Hose Including Couplings and Nozzles.

Section 1 - Record Keeping

- A. Each piece of hose shall be stamped with a unique number at the Hose Repair Facility before it is issued to a station.
- B. Each station shall maintain a complete record of each piece of issued hose, a master copy shall be maintained by the Logistics Division and a copy will be maintained at the Hose Repair Station.
- C. Three copies of the Annual Test Record shall be generated with one sent to the Logistics Division, one sent to the Repair Station, and one kept at the station.
- D. Each record shall contain size, manufacturer, section number, in-service date, date of test, nature of test, and initials of the individual making the entry.
- E. Upon the discarding of a section(s) of hose, the corresponding hose record(s) shall be made for the replacement section(s).

Section 2 - Testing Procedures

- A. Each station shall be responsible to conduct an annual inspection for each piece of hose. All inspections shall be completed no later than May 31st of each year.
- B. Personnel are to wear, at a minimum, helmet, eye protection, safety toe shoes, long pants, and gloves when participating in hose testing.
- C. At the beginning of the test a visual inspection of the hose will be conducted, any hose with physical damage that compromises safety and /or function of the hose will be surveyed out for repair. (ex. Cuts, tears, burns to the inner jacket on double jacketed hose; cuts, tears, burns to the jacket of single jacketed hose; separated liners)
- D. Hose connections will be made on the officer side of the apparatus.
- E. All 3 ½ inch hose and greater will have a section of 2 ½ hose between it and the pump during testing.
- F. Hose to be tested will be laid out without kinks and will not exceed 300 feet.
- G. An appliance will be used that allows air to be bled off.
- H. Initial pressure will be raised to 45 psi and the air bled from the hose and hose will be checked for leaks.
- I. Pressure will be raised to the test pressure at a rate of no more than 15 psi a second.
- J. Service test pressures for 1 3/4", 2 1/2", and 3" hose will be as 250 psi. 5" hose will be tested at 200psi and Booster Line hose will be tested at 110% of Normal Working Pressure.
- K. Service test pressure will be held for 3 minutes.
- L. Hose shall be checked for leaks during this test. All personnel checking for leaks will walk on the left side of the hose and maintain a minimum of 25 foot distance from the hose at all times.
- M. For any hose that fails, the test will be aborted and the hose will be drained, rolled and properly tagged for repair or disposal by the repair facility.

Section 3 – Repair Procedures

- A. All booster, 1 ¾, 2 ½, and 3 inch hose that need repair will be rolled and properly tagged with the red maintenance tag. The Station Manager of the repair facility must be contacted by email with the hose information and the requested repair. The Battalion Chief is to be contacted to arrange transport to the repair facility.
- B. 5 inch hose is considered field repairable and shall not be sent to the repair facility. Instructions for repair are provided for each station.
- C. Repaired hose must be tested 1 section at a time. Under no circumstances will more than 1 section of repaired hose be tested at a time.