



CITY OF  
SANTA ROSA

**Fire Department**

955 Sonoma Avenue  
Santa Rosa, CA 95404  
Phone: (707) 543-3500  
Fax: (707) 543-3520

<http://ci.santa-rosa.ca.us/fd/>

**FIRE DEPARTMENT  
INFORMATION BULLETIN**

**SUBJECT: FIRE PUMP INSTALLATIONS AND ACCEPTANCE TESTING**

**Bulletin Number:** 037

**Date of Issue:** February 20, 1997

**Code Reference:**

1994 Uniform Fire Code (UFC) Article 10  
1994 Uniform Building Code (UBC) Section 904  
Santa Rosa City Code 18-44  
NFPA Standard No. 20

**NOTE:** This bulletin is a summary of Fire Department interpretations of City and State Codes. Information contained herein applies to typical instances and does not address all circumstances.

Plans and specifications shall be submitted for approval and a permit obtained for installation of an automatic fire pump prior to installation. At least two (2) copies of the plans shall be submitted. Allow ten (10) working days for the review of submitted plans. Plans shall include details of the particular pump features to be installed as specified in NFPA No. 20, "Standard for the Installation of Centrifugal Fire Pumps." The plans shall include but not necessarily be limited to the following:

1. Pump type, manufacturer, model, rated capacity and pressure.
2. Pump driver manufacturer, type and specifications.
3. Pump controller manufacturer, all controller features and details.
4. Arrangement and size of piping, control valves, pressure regulators, flow test devices, pressure gauges, relief valves and hose headers.
5. Details of jockey pump, if any.
6. Source of water and arrangement of suction piping.
7. Details of electric supply for electric driven pumps.
8. Details of fuel supply for engine driven pumps.
9. Provisions for earthquake protection.
10. Construction and protection features of the pump room/building.

INFORMATION BULLETIN  
FIRE PUMP INSTALLATIONS AND ACCEPTANCE TESTING

11. Details of pump/driver alarm and supervisory services.
12. Provisions for remote transmission of alarms and supervisory signals.

All mechanical equipment components shall be listed for fire protection service. Certified shop test curves showing head capacity and brake horsepower of the pump shall be furnished by the manufacturer to the purchaser and by the purchaser to the Fire Department. One set of instruction manuals shall be supplied to the Fire Department. The fire pump, driver, controller and essential accessories shall be protected against possible interruption of service due to damage caused by earthquake. Artificial light shall be provided in the pump room and means shall be provided to maintain the temperature of the room above 40 degrees Fahrenheit. Emergency lighting shall be provided in the pump room and provisions shall be made for ventilation. Floors shall be pitched for drainage to a floor drain of adequate capacity.

The complete unit shall be field acceptance tested in the presence of the owner and a Fire Department representative for proper performance in accordance with the provisions of NFPA No. 20. Permanent means shall be provided for testing pumps at the maximum flow available from the pump. At least twenty-four (24) hours notice in advance of the test is required. Preliminary tests shall be conducted prior to the acceptance test to verify that all features of the installation are complete and operational and the test procedure will provide the flow conditions required. The field acceptance test will not be witnessed until the preliminary tests have been verified. A representative of the pump manufacturer, the engine manufacturer and the controller manufacturer shall be present for the field acceptance test. The fire pump shall perform at minimum, rated and peak loads during the tests.

A copy of the manufacturer's certified pump test characteristic curve shall be provided to the Fire Department along with the results of the field test recorded on a form equivalent to Fig. A-11.2.6.3 (f) as described in NFPA No. 20.