

(November 2012)

Rated Fire Pumps

All rated fire pumps owned or operated by CAL FIRE shall be tested for rated performance. Service tests shall be conducted on fire pumps at least annually and whenever major repairs or modifications to the pump or any component of the apparatus that is used in pump operations have been made as per the National Fire Protection Association (NFPA) test procedure contained in the NFPA 1911 Standard for Service Test of Fire Pump System on Fire Apparatus and the Mobile Equipment Management Pamphlet 6805 Vehicle Maintenance Procedure and Record. ([Ref: CAL FIRE Test Procedure](#)) The pump test results shall be recorded on the CAL FIRE Pump Test Worksheet ([Ref: Pump Test Worksheet](#)) as directed by the NFPA 1911 and filed in the vehicle permanent file. The date and pump status (Pass/Fail) shall be recorded in the Pamphlet 6805 for each completed service test. A rated fire pump that has failed a service test shall not be put back into service until it has been repaired, re-tested and passed the service test. A failed service test is defined as a test result that is less than the fire pumps rated capacity.

Auxiliary Fire Pumps

Some fire apparatus owned or operated by CAL FIRE are equipped with an auxiliary fire pump in addition to a main or rated fire pump. An auxiliary fire pump used in wildland fire suppression is normally much smaller than the main or rated fire pump and is used primarily for mobile pumping and mop-up operations. These auxiliary pumps may be powered by a small gas or diesel engine or can be driven by a power take-off from the vehicle transmission. Not all auxiliary pumps owned or operated by CAL FIRE that are used in wildland fire suppression are intended to meet NFPA 1911 pump standards. A CAL FIRE auxiliary pump test shall be conducted on all auxiliary fire pumps at least annually and whenever major repairs or modifications to the pump or any component of the apparatus that is used in pump operations have been made.

It should be noted that not all auxiliary fire pump installations will allow the pump to achieve the pump manufacturer's maximum advertised rated volume output at a specified water pressure. Some auxiliary fire pump installations will only allow operation from the water tank and not from draft. This is often due to the pump location in the apparatus and plumbing configuration. The auxiliary fire pump shall be tested at 150 psi from the water tank when new and the actual volume output recorded in the Mobile Equipment Fire Pump Test Record section of the Mobile Equipment Management Pamphlet 6805 Vehicle Maintenance Procedure and Record. The auxiliary pump output readings taken when new will be used as the bench mark to compare subsequent CAL FIRE auxiliary pump test results. A subsequent CAL FIRE auxiliary pump test shall be consider a failed test if it's tested output at 150 psi falls 15% or more below the test result when it was tested new. An auxiliary fire pump that has failed a CAL FIRE pump

test shall not be put back into service until it has been repaired and re-tested. If the auxiliary pump was not tested when new, the first year test will be used as the benchmark test.

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