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Testing

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#245 – The Fire Pump
Flow Test: NFPA 25

Requirements for Fire
Pump Tests, Part 1

Ensure water flow and
pressure with the

annual fire pump flow
test Fire pumps are a

vital part of many fire
sprinkler systems,

driving the necessary
pressure and volume

to keep water flowing
when it isn't generated

by the water supply.

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The Fire Pump Flow Test: NFPA 25 Annual Fire Pump Tests

The NFPA requires this test for pumps rated for over 750 gpm.

Immediately after the 20-minute test, run the pump for 5 minutes, at its rated capacity, at 165 psi. Test #5: 70% Test. Run the pump for 10 minutes at 70% capacity and 200 psi.

Test #6: 50% Test. Run

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the pump for 10 more
minutes at 50%
capacity and 250 psi.

Fire Pump Testing | NFPA Fire Pump Testing

Requirements

1.1 Scope. This document establishes the minimum requirements for the periodic inspection, testing, and maintenance of water-based fire protection systems and the

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Requirements

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actions to undertake when changes in occupancy, use, process, materials, hazard, or water supply that potentially impact the performance of the water-based system are planned or identified.

1.1.1
Coordination with NFPA 72 ...

NFPA 25: Standard for the Inspection, Testing, and ...

In recent editions of

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NFPA 25, the requirements for no-flow (churn) test frequencies have changed for electric motor driven fire pumps (only). Diesel engine driven fire pumps have always been required to run weekly for 30 minutes.

Fire Pump Test

Frequencies:

Weekly, Monthly?

When Exactly ...

The fire pump flow test

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Pump Testing

is required by NFPA 25 to be conducted once a year in order to measure the pump's flow and pressure. The test should be performed by attaching hoses to the discharge test header. The hoses are run to a safe location where the flow of water will cause no damage.

**Fire Pump Flow
Testing & Churn
Testing | Capitol Fire**

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Old Pump Test Requirements NFA 1901, Standard for Automotive Fire Apparatus (2009 ed.), required the pump manufacturer to perform and provide certification for a 500-pound-per-square-inch (psi) gauge pressure hydrostatic test of the pump body.

NFPA 1901 Pump Test Changes - Fire

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Apparatus

Inspection, testing, and maintenance requirements are outlined in NFPA 25,

Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

Below is an overview of the inspection and testing activities that should be completed on your pump.

Fire pump

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Pump Testing

inspection testing and maintenance |

The Hanover ...

When conducting the five year flow test, one riser is tested at a time. Therefore, the flow should be a total of 500 gpm (1892 Lpm), 250 gpm (946 lpm) for each of the two topmost outlets. 14. Chapter five of NFPA 25 requires a weekly fire pump test to be conducted without flowing water.

**NFPA 25 FAQs -
National Fire
Protection
Association**

The water flow test used to size the fire pump is required to have been completed within the last 12 months (NFPA 20-2013, Section 4.6.1.2). In the example scenario, the water flow test indicates pressures of 54 psi static, 48 psi residual, flowing at 940 gpm.

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Consulting - Specifying Engineer | NFPA 20: Fire pump design

NFPA Inspection,
Testing and
Maintenance Code
Requirements. Visual
inspections and
functional testing of
fire protection systems
are an essential part of
operating a facility that
is safe, well protected,
and up-to-date. Daily,
weekly, quarterly,

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Pump Testing

Requirements

Blog Solinn

annual, and multi-year inspections are essential for protection and are also required by the NFPA codes.

NFPA Inspection, Testing and Maintenance Code Requirements

In addition to being sized properly, the pump must be installed correctly and maintained regularly as required by NFPA 25: Standard for the

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Pump Testing

Inspection, Testing,
and Maintenance of

Water-Based Fire
Protection Systems.

**NFPA 20: Changes to
the fire pump
standard**

NFPA 110: Standard for
Emergency and
Standby Power
Systems sets detailed
requirements for
testing generators
relied on by the fire
pump. Environmental
conditions in the fire

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Pump Testing

pump room should also be tested annually to ensure they won't impact pump

performance, including heating, lighting, and ventilation. From the 2017 edition of NFPA 25

Fire Pump Component Testing: NFPA 25 Annual Fire Pump Tests

1) NFPA 25 REVISION SUMMARY. For the 2017 edition, new fire

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pump terms are defined to align with NFPA 20. Criteria have been added to Chapter 4 on automated inspections and testing. Residential sprinkler replacement requirements have been added to address sprinklers that are no longer available.

**NFPA 25-2017,
“Standard for the
Inspection, Testing,
and**

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Requirements

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Regular testing is also required statewide* through the Illinois Office of the State Fire Marshal's adoption of NFPA 101: Life Safety Code, Section 9.75 (2000 edition). All automatic fire sprinkler systems, standpipe systems and fire pumps must be inspected and maintained in accordance with NFPA 25.

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Quick Guide for Fire Sprinkler Inspection Requirements

The 2002 edition of NFPA 25 adds new testing requirements for dry sprinklers, revised 5-year water tank inspection requirements, and new timing for testing of waterflow and supervisory switches. Other changes permit the use of ultrasonic (UT) and radiographic (RT) examinations to

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comply with
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provisions.

**Buy NFPA 25,
Standard for the
Inspection, Testing,
and ...**

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CEUs: Based on 1
contact hour of training
(see CEUs tab for
details) Course
Description: This
webinar provides an

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introduction to the
basic principles and
general requirements
for the inspections,
testing and

maintenance of
centrifugal fire pumps
based on NFPA 25. The
scope of NFPA 25 as it
specifically relates to
the requirements for
fire pumps with be ...

**Fire Pump Testing
NFPA 25
Requirements -
Recorded Webinar ...**

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2019 NFPA 20,

Stationary Fire Pumps -

Sizing and Performance

. Having a clear

understanding of the

factors and

considerations involved

in selecting the

appropriate size and

characteristics of a fire

pump is an essential

skill set for engineers,

designers, and a

variety of other water-

based systems

professionals.

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**NFPA 20,
Installation of
Stationary Pumps
for Fire ...**

1. Specific requirements relating to the inspection, testing and maintenance of wet- and dry -pipe fire sprinkler systems can be found in Chapters 5, 13, 14 and 15 of NFPA 25 .
2. Specific requirements relating to the inspection, testing and

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maintenance of fire

pumps can be found in

Chapter 8 of NFPA 25 .

Specific Requirements

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