Q & A: What Qualifies Dyne to Test Your Sprinkler Samples?

Q: What are the NFPA requirements?
A: 5.3.1.1. Where required by this section, sample sprinklers shall be submitted to a recognized testing laboratory acceptable to the authority having jurisdiction for field service testing.

Q: Is Dyne a recognized testing laboratory?
A: Dyne Fire Protection Labs has been in the fire service laboratory testing business since 1999. During this time, Dyne has tested for a variety of business and currently tests for 34 of the top 100 fortune 500 companies.

Q: Is Dyne acceptable to the Authority Having Jurisdiction (AHJ)?
A: While NFPA does not approve any specific lab, they do say the following in the annex of NFPA 25:

A. 3.2.1 Approved. The National Fire Protection Association does not approve, inspect, or certify any installations, procedures, equipment, or materials; nor does it approve or evaluate testing laboratories. In determining the acceptability of installations, procedures, equipment, or materials, the authority having jurisdiction may base acceptance on compliance with NFPA or other appropriate standards. In the absence of such standards, said authority may require evidence of proper installation, procedure, or use. The authority having jurisdiction may also refer to the listings or labeling practices of an organization that is concerned with product evaluations and is thus in a position to determine compliance with appropriate standards for the current production of listed items.

For an AHJ to determine acceptability of our lab, Dyne must show NFPA compliance (or another relevant standard).

Q: How Does Dyne meet NFPA's requirements for testing sprinklers?
A: Dyne tests all sprinklers for sensitivity and functionality using an RTI plunge test oven. Results are indicated as response times and the pass/fail criteria is based on RTI definitions for the sprinkler type. All sprinklers are tested at 7 PSI. NFPA requires the following for testing sprinklers:

A. 5.3.1.1 Sprinklers should be first given a visual inspection in accordance with 5.2.1.1 to determine if replacement is required. Sprinklers that have passed the visual inspection should then be laboratory tested for sensitivity and functionality. The waterway should clear when sensitivity/functionality tested at 7 psi (0.5 bar) or the minimum listed operating pressure for dry sprinklers.

Q: How does Dyne meet other relevant standards?

Q: Does Dyne have evidence of proper procedures?
A: Dyne has videos of the general process on the website. Customer’s and AHJ’s are welcome to stop in the lab for a demo of procedures.
Q: Does Dyne have any listing or labeling practices as an organization concerned with product evaluations?
A: As an ISO 9001 accredited company, we are committed to high quality and laboratory standards. This includes the use of NIST traceable calibrated lab equipment and technicians with strong chemistry and/or engineering backgrounds. Dyne Fire Protection Labs is proud to have our experts actively participate in the codes & standards processes such as NFPA 11, NFPA 16, NFPA 25, UL 162 Industry Advisory Board.

Q: Is Dyne qualified?
A: NFPA defines qualified as the following:

3.3.36 Qualified. A competent and capable person who has met the requirements and training for a given field acceptable to the AHJ. (96, 2020)

Q: What other reasons make Dyne a competent lab I can trust?
A: • Dyne has been in the fire service laboratory testing business since 1999.
• Dyne is an ISO-9001-certified company – 2004 to today.
• Dyne employees actively participate in the codes and standards processes such NFPA 11, NFPA 16, NFPA 25, UL 199 Industry Advisory Board.
• Dyne conducts detailed, documented and continuous training of all its employees.
• Dyne processes ensure calibrated and maintained equipment is used at all times.
• Dyne has detailed documented work instructions for testing performed.
• Dyne is strictly a testing company and therefore is independent and unbiased.
• Dyne participates with both foam and sprinkler manufacturers in round robin testing where samples are tested by multiple labs to ensure the results are equivalent.

Q: What do Dyne’s current customers like best?
A: • Guaranteed turnaround time: 5-business days for standard, 1-business day expedited available
• Free test kits and shipping available for most types of testing within the continental U.S.
• Easy ordering: Kits can be requested online, are shipped the same day or next business day
• Access to reports and pictures of the sprinklers online and outstanding customer service

Q: Who else trusts Dyne with their compliance testing?
A: U.S. military including Air Force bases and Coast Guard. Top petroleum, refining, and energy (Colonial Pipelines, Exxon Mobil, Marathon, Mobil, Phillips 66, Kinder Morgan, Tesoro), marine safety (Crowley Petroleum, Hiller Systems Inc, Drew Marine, Vane Brothers), shipping (Chevron Shipping Company), chemical (DuPont, Nova Chemicals, BP Chemical, Dow Chemicals), and fire safety companies across the globe.