WITNESS AND PROVING TESTING FOR WATER MIST SYSTEMS

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Abstract

An installed automatic water mist system is a highly effective element in the fire protection strategy of a building because it is immediately available and designed specifically to meet the defined fire hazard. One of the most important aspects of ensuring any water mist system lies in undertaking proving and witness testing at the completion of the installation to ensure it is fit for purpose.

When resources are invested in water mist systems to protect property assets, there are three fundamental questions management should ask:

- Are systems in service?
- Do systems work?
- Are systems designed right?

Case studies will demonstrate unequivocally the value of undertaking witness and proving testing and demonstarete the value of assessing and checking that the water mist is:

- is designed right
- in service
- that it will work

NFPA 750 details that an acceptance test plan shall be approved prior to scheduling of acceptance testing. A complete step-by-step description of the proposed acceptance test procedure, identifying all devices controls and functions to be tested and how the test will be conducted shall be approved prior to scheduling of acceptance testing and that in order to facilitate operational tests a means to allow for periodic testing of the operation of the system for ensuring the required pressure and flow shall be provided.

KEYWORDS: water mist systems, NFPA750, witness and provign testing.