

4.21 Single, Double & Non-Interlock Pre-Action Systems (2019)

Reference: 2016 NFPA 13, Section 7.3.2; The Twentieth edition of the NFPA Fire Protection Handbook, and Manufacturers Recommendations.

Purpose: Double interlock pre-action systems are acceptable for protection of deep-freeze facilities where accidental valve operation may result in freezing of the pipe in a matter of minutes. When preaction systems are proposed for protection of a specific room or hazard (i.e., computer equipment rooms, server rooms, communication equipment rooms, etc.) in buildings requiring a wet pipe sprinkler system, only a single interlock pre-action system shall be approved for use in these buildings. The San Francisco Fire Department considers the use of a double interlock pre-action system for the above referenced hazards as inappropriate because unacceptable delay may occur in the release of water from the sprinklers.

NOTE: Non-interlock & single interlock systems are acceptable.

NOTE: Flow cycling systems employing normally closed fire detection devices to activate the flow cycle valve shall not cause the building fire alarm system to activate an alarm condition when a single open or single ground fault condition occurs. Such occurrences shall activate a trouble condition.