

Construction Inspections:

NFPA 17A Wet Chemical Hood Suppression:

NFPA 17A Wet Chemical Extinguishing Systems

1. Approval of Installation (Acceptance Test)[17A:6.4]

- A. It shall be verified that the appliances, hoods, and ducts are properly protected with nozzles and positioned IAW the manufacturers design, installation and maintenance manual. [17A:6.4.1]
- B. Mechanical Components:**
 - 1) It shall be verified that nozzle sizes and pipe sizes are IAW the manufacturers design, installation and maintenance manual. [17A:6.4.2.1]
 - 2) It shall be verified that piping supports are securely fastened. [17A:6.4.2.2]
- C. Appliances:**

It shall be verified that the installed appliances are the same and in the same locations as the approved system design. [17A:6.4.3]
- D. **Gas Flow (Test):** A test using nitrogen or dry air shall be performed on the pipe network at a pressure not to exceed the normal operation pressure of the extinguishing system [17A:6.4.4.2]
 - 1) Prior to the test required by 17A:6.4.4.2, piping shall be physically checked for tightness. [17A:6.4.4.1]
 - 2) The test shall verify that nitrogen or dry air has discharged out of each nozzle in the system. [17A:6.4.4.2.1]
- E. The labeling of devices with proper designations and instructions shall be verified. [17A:6.4.5]
- F. Where the system is connected to a fire alarm system, verification that alarm-sounding or notification devices and remote annunciator devices are functional
- G. **Operational (Test):** Systems Operational Tests shall be performed IAW the manufacturers design, installation and maintenance manual and include functional tests of the automatic detection system, the manual release devices, the gas shutoff, the shutoff of makeup are supplied internally to the hood and the electrical shutdown. [17A:6.4.8]
- H. Where a releasing control panel is provided, verification that it is connected to a dedicated circuit and labeled properly shall be required.
- I. Where a releasing control panel is provided, verification that it is readily accessible and restricted from unauthorized personnel shall be required. [17A:6.4.9.2]
- J. Immediately following tests:
 - 1. Verification that each extinguishing agent storage container is reconnected and the system has been returned to its fully operational condition shall be required. [17A:6.4.10.1]
 - 2. If connected to an alarm-receiving office, the alarm receiving office and all concerned personnel at the end user's facility shall be notified that the fire system test is complete and that the system has been returned to full service operational condition. [17A:6.4.10.2]

3. The installing contractor shall complete and sign an acceptance test report acceptable to the AHJ.
4. The owner shall be provided with a copy of the manufacturer's design, installation, and maintenance manual.