



BST&G Fire District Fire Prevention Bureau

Wet Chemical Extinguishing System Plans Submittal Checklist

Project Name:	Date:
Project Address:	
Designers Name:	
Company Name:	
Phone Number:	
Email:	Fax:

All supporting documentation-showing items listed below are required for review. The checklist is based on the 2017 Edition of NFPA 17-A, 2017 Ohio Fire Code, Section 904

Check boxes shall be marked (X) upon completion.

General (All submissions shall include the following):

- Paper Media of One (1) full set 30" X 42" of shop drawings, shall be of sufficient clarity to indicate the location, nature, and extent of work proposed and show in detail that it will conform to the provisions of this code, relevant laws, and specific provisions.**
Electronic Media: of one (1) Auto CAD base w/TIFF image of each sheet, PDF or Jpeg on a Compact Disc in a hard plastic protective case.
- Provide the name, address and telephone/fax numbers of designer of fire suppression/detection system. 2017 NFPA 17A Section 6.1**
- The submitted plans are to be submitted per 2017 NFPA 17A Section 6.3.1**
- The submitted plans shall contain sufficient detail to evaluate the protection of the hazard (s). Provide a floor plan and elevation views indicating the location of the hood(s), all appliances that will be or are required to be under the hood(s), the location of the pull station and the location of all appliances with nozzle locations, including required height above the hazard surface. **2017 NFPA 17A Section 6.3.2**
- The submitted plans shall show a detail of the hood and associated ductwork and dimensions of the hood and associated duct work. **2017 NFPA 17A Section 6.3.2**

- The submitted plans shall show the location of all appliances indicating which appliances require protection, their arrangement under the hood and the hazard area of each appliance. **2017 NFPA 17A Section 6.3.2**
- The submitted details of the system shall include the size, type, brand, length and arrangement of all connected piping. The submitted plans shall provide a description and location of nozzles so that the adequacy of the system can be determined. Information shall be submitted pertaining to the location and function of detection devices, operating devices, auxiliary equipment, and electrical circuitry. **2017 NFPA 17A Section 6.3.4**
- The submitted plans shall indicate maximum flow points available for the system, the flow point(s) of each nozzle type, the number of each nozzle type utilized, and the total flow points actually utilized. **2017 NFPA 17A Section 6.3.3**
- A fusible link or heat detector shall be provided above each cooking appliance or group of appliances protected by a single nozzle. **2017 NFPA 17A Sections 5.6.1.4, 5.6.1.5, 5.6.1.6 and 5.6.1.6.1**
- The submitted plans shall indicate the specific temperature rating of the fusible link or heat detector utilized.
- At least one manual system actuator, pull station, shall be provided for each system and be located not more than 4 feet and not less than 42 inches above the finished floor. **2017 NFPA 17A Section 5.2.1.10**
- The manual system actuating device shall be a minimum of 10 ft. and a maximum of 20 feet from the kitchen exhaust system, be conveniently and easily accessible at all times, including at the time of a fire. **2017 Ohio Fire Code Section 904.12.1**
- An automatic means shall be provided to ensure the shutoff of fuel or power sources to the protected appliances that are located under ventilating equipment protected by the extinguishing system, upon system actuation. **2017 NFPA 17A Section 4.4.4**
- An audible visual alarm shall be provided to show that the system has operated, and that the system is in need of a recharge. **2017 NFPA 17A Section 5.2.1.8 and 2017 Ohio Fire Code Section 904.3.4**
- If a fire alarm system is provided in the building, the extinguishing system shall be connected to the fire alarm panel in accordance with the requirements of **2016 NFPA 72** - The National Fire Alarm Code. The actuation of the extinguishing system will sound the fire alarm as well as provide the function of the extinguishing system **2017 NFPA 17A Section 5.2.1.9**
- Multiple systems that are protecting back-to-back or adjacent non-separated hoods shall be installed to ensure the simultaneous operation of all systems protecting the hoods. **2017 NFPA 17A Section 5.1.2.2**
- Automatic fire suppression shall be provided for all portions of a common exhaust duct. **2017 NFPA 17A Section 5.6.2**
- A specifically listed “K” type portable fire extinguisher shall be provided and compatible with the extinguishing agent utilized for the fire suppression system and shall be within 30’ of the cooking equipment. **2017 Ohio Fire Code Section 904.12.5 to 904.12.5.2.**

- Manufacturer's data sheets for the following: 2009 NFPA 17A**
 1. The hood and ductwork configuration with listed protection criteria.
 2. Appliances with listed protection criteria. NFPA 17A – Section 6.1.1 (6)
 3. Pipe and fittings NFPA 17A – Section 4.5
 4. Nozzles NFPA 17A – Section 4.3
 5. Extinguishing Agent containers
 6. Detectors, indicators, and alarms
 7. Operating devices
 8. Fuel shutoff devices
 9. Portable fire extinguishers
 10. Other_____

- Mechanical, Plumbing (gas), and Electrical final inspections shall be completed prior to scheduling the required inspection and testing of the fire suppression system.

- Prior to requesting a final inspection of the wet chemical fire suppression system, the installer shall certify that the system has been installed in accordance with the approved plans, manufacturer's listed installation and maintenance manual. The letter of certification shall be presented to the inspector

- The manufacturer's recommended procedure for the make up of the test discharge solution and required flushing agent shall be shown on the plans.