



New Hope Borough Office of the Fire Marshal

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Cooking Hood Fire Extinguishing System Permit Application

IFC2003-105.7.1

All sections below must be completed.

FIR _____

Date: _____

Project Name: _____

Project Address: _____

*Applicant's Name: _____

Applicant Phone: _____ Applicant Fax: _____

Building Permit Number (If applicable): _____

Scope of Work

- New/Replacement System
- Alteration/Modification of Existing System

* The Applicant shall be responsible to ensure that design specifications and plans are complete and in compliance with the requirements of the International Fire Code and applicable Standards. Refer to attached Cooking Hood Fire Extinguishing System Permit Requirements.

Permit Requirements

This permit is for automatic fire extinguishing systems for Type 1 Cooking hoods. A permit is required for installation of new systems and for any modification of existing systems. A separate permit shall be obtained for each extinguishing system.

The Applicant shall be responsible to ensure that design specifications and plans are complete and in compliance with the requirements of the International Fire Code and applicable Standards. (IFC 105.4.3)

Additional Permits May Be Required

Connection of fire extinguishing systems to fire alarm systems requires a separate Fire Alarm permit. Installation or modification of cooking hoods or rated shafts requires Building and Mechanical permits.

Conditions of Approval

Fire extinguishing systems shall comply with the International Fire Code and NFPA 96. Installation of wet chemical systems shall be in accordance with NFPA 17A and UL Standard 300. (NFPA 17A, 5.1.1). If other types of systems are approved by the Fire Marshal, design and installation shall be in accordance with the applicable NFPA standard.

Final approval of this permit shall be contingent upon satisfactory inspection and witnessing of testing by the Fire Marshal or designee and approval of the following documentation, to be provided to the Fire Inspector at the time of the final inspection:

- a. Two copies of the Specifications, per NFPA 17A, 6.1
- b. Two copies of the “As-built” plans
- c. Two copies of the manufacturer’s listed installation and maintenance manual or listed owner’s manual.
- d. Two copies of the Certification that the Installation is in agreement with the terms of the listing and the manufacturer’s instructions and/or approved design, per NFPA 96, 10.9.2.2

The Fire Inspector will retain one copy of each of the above items and one copy shall be provided to the owner to be kept on-site for future reference.

Selected Code References

Below are selected portions of NFPA 17A and NFPA 96 for convenient reference. This list does not relieve the applicant from complying with all requirements of these Standards or of other applicable Standards, if the Fire Marshal approves an alternate to a wet chemical system.

Qualifications

Only persons properly trained shall be considered competent to design, install, and service pre-engineered wet chemical systems. (NFPA 17A, 1.7)

Specifications

The following items shall be included in the specifications:

- a. State that the installation conforms to NFPA 17A
- b. Indicate that only equipment that is referenced in the manufacturer’s listed installation and maintenance manual or alternate suppliers’ components that are listed for use with the specific extinguishing system shall be used
- c. Include the specific tests that are required
- d. Indicate the hazard to be protected and include such information as physical dimensions, cooking appliances, energy sources for each appliance, and air-handling equipment. (Refer to NFPA 17A, 4-1)

As Installed Plans

As-installed plans shall be drawn to an indicated scale or be suitably dimensioned and shall be reproducible.

The plans shall contain sufficient detail to enable the authority having jurisdiction to evaluate the protection of the hazard(s).

The details of the system shall include the Make and model of the system and components, the size, length, and arrangement of connected piping and the description and location of nozzles. Information shall be included pertaining to the location and function of detection devices, operating devices, auxiliary equipment, and electrical circuitry, if used. (Refer to NFPA 17A, Chapter 6)

Approval of As Installed Plans

As-installed plans shall be submitted to the UFC Inspector at the time of final inspection. (Refer to NFPA 17A, 6.3)

Installation Requirements

Installation of systems shall be performed only by persons properly trained and qualified to install the specific system being provided.

The installer shall provide certification to the authority having jurisdiction that the installation is in agreement with the terms of the listing and the manufacturer's instructions and/or approved design. (Refer to NFPA 96, 10.9.2.1, 10.9.2.2)

Alarm Monitoring

The operation of an automatic fire suppression system installed within a building protected by a fire alarm system, (including a fire sprinkler monitoring system), shall cause an alarm signal at the fire alarm control unit. (Refer to NFPA 72, 6.8.5.6)

Fuel and Electric Power Shutoffs

Upon activation of any fire-extinguishing system for a cooking operation, all sources of fuel and electric power that produce heat to all equipment requiring protection by that system shall automatically shut off. Shutoff devices shall require manual reset. (Refer to NFPA 17A, 4.4.3, NFPA 96, 10.4.1; 10.4.4)

Electrical equipment that shuts-down upon extinguishing system activation shall include outlets, lights, switches, wire, and junction boxes. The status of the exhaust fan shall be as specified by the listing requirements of the extinguishing system. However, switches or connections for a fan that is to continue to run upon extinguishing system activation shall be not be allowed under the hood.

Approval of Installations

The completed system shall be tested as required by the manufacturer's listed installation and maintenance manual. The tests shall determine that the system has been properly installed and will function as intended. *Tests shall be witnessed by the Fire Marshal or designee.*

The approval test shall include a "puff" discharge test and functional tests of all devices. The owner shall be provided with a copy of the manufacturer's listed installation and maintenance manual or listed owner's manual.

The installer shall provide certification to the authority having jurisdiction that the installation is in agreement with the terms of the listing and the manufacturer's listed installation instructions and/or approved design and in accordance with the approved plans.

(Refer to NFPA 17A, 6.2 and NFPA 96, 10-9.2.2)

Fire safety begins with you!