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## Standard for Kitchen Hood Suppression Systems

### 1. SCOPE

This standard covers the permitting, installation, inspection, testing and maintenance of kitchen hood suppression systems (KHSS) in the City of Marysville as administered by the fire marshal. KHSS shall meet the requirements of the currently adopted codes and standards, unless specifically amended or noted otherwise, and as approved by the AHJ:

- A. NFPA 17A Standard for Wet Chemical Extinguishing Systems and Appurtenances.
- B. NFPA 96 Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations.
- C. The International Fire Code (IFC) as amended by the city and state.
- D. The Marysville Municipal Code (MMC) [Fire Code Chapter 9.04](#).

### 2. DESIGN REQUIREMENTS

- A. Systems shall be designed under the currently adopted codes.
- B. System designer qualifications shall comply with currently adopted state codes with a current ICC/NAFED certification.
- C. All plans and calculations shall be stamped with a valid Washington State certificate seal identifying the appropriate level of competency.

### 3. SUBMITTAL REQUIREMENTS

- A. The following is a list of information required on all plan submittals for review of a “Pre-Engineered Kitchen Fire Suppression System” permit application. The plan shall be drawn to 1/8”=1’-0” minimum scale. The applicant is required to submit all of this information so an accurate and timely review may be done:

Copy of a scaled floor plan showing compliance with the 2021 WSFC § 904, including:

- System location
- Designation of overlapping or appliance specific coverage
- Cooking appliances
- Plenum dimensions and filter type (V Bank, Single Bank)
- Duct dimensions
- Manual pull station location ->10’ and <20’ from kitchen exhaust system, in egress pathway
- Class K fire extinguisher type as per manufacturer requirement and location
- Note indicating deferred submittal for fire alarm permit if building is so equipped
- Note on the plan stating that system shall be designed, installed, serviced, and maintained in accordance with NFPA 17A, NFPA 96, and manufacturer’s instructions.
- Sequence of operation including fuel/electricity/exhaust/makeup air interlocks/fire alarm integration
- Note on drawing stating fusible link temperature to be determined by heat tape testing or heat gun method (*Continued on next page*)

- **Isometric plans showing:**
  - Appliance location
  - Type of nozzles
  - Nozzle location and height over appliances
  - Listed heat detector locations,
  - Fusible link temp settings (after testing), and hood exhaust duct size.
  - Add note to isometric plan stating:
  - **INFORMATION TO SYSTEM OWNER/OPERATOR**  
*Contact your system manufacturer/distributor to locate trained and certified personnel perform repairs, maintenance, or servicing of the suppression system.*
  - This isometric plan is required to be laminated and permanently posted on the exhaust hood or the system cabinet.
- Certification and signature of system designer on layout drawings and calculations
- Code editions utilized for design of system
- Point of compass

#### **4. PERMITS**

A fire permit is required for all installation and modification work. The application for a fire construction permit is available on the City of Marysville’s permitting [portal](#). Approved plans and permit inspection cards shall be available onsite for the permitted work. A permit is only valid for the contractor and work designated by the permit.

#### **5. EMERGENCY REPAIR WORK**

A permit is required for repairs. Emergency repairs may begin without a permit provided the system configuration is not altered and a permit application is submitted the next working business day. A fire inspection is required for final approval of all repair work.

#### **6. INSPECTIONS**

Fire inspections are required from the Marysville Fire District (MFD) for permitted work.

**Scheduling Instructions:** please use the permit portal with the City of Marysville to request all fire inspections via: [eTRAKiT \(marysvillewa.gov\)](http://marysvillewa.gov). MFD will contact you to confirm appointment time. If you are not contacted by 5pm the business day prior to the requested date, or if you need to reschedule, please call (360)363-8525 and leave a voicemail. Approved plans and permit inspection cards must be available on site during inspections. The installing contractor shall pretest all systems prior to requesting an inspection. If fire code violations are noted, correction will be required for approval and a re-inspection fee will be assessed via permitting services.

#### **7. MAINTENANCE**

The installer shall provide to the owner/occupant instructions on inspecting, testing, and maintaining the system. The fire lines shall be inspected and tested periodically to make sure they are in good working condition. KHSS shall be maintained and tested per WSFC and the manufacturers’ manual.

## **8. HOOD CLEANING**

Exhaust hoods shall be cleaned in accordance with 2021 IFC 606.3.3, NFPA 96 Chapter 12, and ANSI/KECA C10.

## **9. DOCUMENTATION**

Contractor's performing inspection, testing, and maintenance (ITM) as well as hood cleaning on KHSS shall submit reports to TEGRIS FIRE within 10 days of completion of work.