

## INFORMATION BULLETIN

### FIXED FIRE EXTINGUISHING SYSTEMS (PROTECTION OF COMMERCIAL COOKING OPERATIONS)

**Code Reference:**

California Fire Code (CFC), 2001 Edition, Section 1005.2  
Uniform Mechanical Code (UMC), 2000 Edition, Section 510.2  
NFPA Standards 12, 12A, 17, 17A

**NOTE:** This bulletin is a summary of Fire Department interpretations of City and State Codes and Underwriters Laboratory Listing #300. Information contained herein applies to typical instances and may not address all circumstances.

It is the policy of the Redding Fire Department to require an upgrade of pre-engineered fixed fire protection systems to meet U.L. 300 when the one of the following have occurred or is about to occur:

1. New installation of Type I hood and duct.
2. Re-installation of Type I hood and duct in a new location.
3. If high efficiency fryers are in use in a commercial occupancy.
4. When replacement parts have become unavailable for existing systems.
5. When insurance companies require the upgrade.

Plans shall be submitted for approval, and a permit obtained, prior to installing an automatic extinguishing system. Plans shall include the information specified below. Failure to provide all the required information may result in the plans being rejected.

Rejected plans will be returned with a Plan Review Correction form attached. Review the correction form, making the required additions/changes. Additions/changes shall be identified by clouding the change on the plans and providing a legend to describe the addition or change.

Allow ten (10) working days for the review of submitted plans. Please call 225-4150 for

additional information.

### **PLANS AND SPECIFICATIONS:**

Working plans and specifications shall be submitted to the Fire Department for review and approval prior to installation. The plans shall include, but not be limited to, the following:

1. Scale diagram of area and equipment to be protected, including dimensions of all hoods, ducts, appliances, devices and spaces.
2. Manufacturer and model number of system, devices and materials proposed to be installed, including manufacturer's installation instructions, cut sheets or other descriptions as appropriate.
3. Isometric drawing of system piping and all component parts including:
  - a. Type, size and length of piping.
  - b. Size and number of fittings.
  - c. Model number and location of nozzles.
  - d. Location, temperature and model number of detectors.
  - e. Location and size of extinguishing agent container(s).
  - f. Location of manual means of activation.
  - g. Location and identity of auxiliary equipment such as gas and electric shut-offs.
  - h. Interconnections of system to building alarm system.
4. Systems shall be installed in accordance with the Mechanical Codes, their listing, and the manufacturer's instructions, specifically designed for such application.
5. A **Class K** fire extinguisher will need to be located within thirty (30) feet of the pull station at the time of final inspection.

### **INSPECTION:**

A final inspection of the installed system shall be made by the Fire Department, including witnessing of acceptance tests performed in accordance with the appropriate NFPA standard. Cooking activities shall not be conducted prior to Fire Department approval of the system.