



## Guidelines and Permit Information: **Special Suppression System**

**Permit Required: 2020 MSFC**

### ***Automatic fire-extinguishing systems.***

A construction permit is required for installation of or modification to an automatic fire-extinguishing system. Maintenance performed in accordance with this code is not considered to be a modification and does not require a permit.

**Fees:** The City of Maple Grove Fee Schedule is available for review on the city website.

**Code Guidance/ General Requirements: MSFC, NFPA and Chapter 18 City Ordinance**

- Permit shall be posted on site
- The manufacturer's sequence of operation requirements shall be followed for the type of system being installed
- An audible and visual alarm along with warning signs shall be provided outside the protected area that indicates pre-discharge alarm and system discharge
- System must be designed and installed per manufacturer recommendations
- Control valves shall be placed in easily identifiable and accessible locations
- Service personnel installing, providing, or conducting maintenance on automatic fire extinguishing systems, other than automatic sprinkler systems, shall possess a valid certificate issued by an approved organization for the type of system and work performed
  - Failure to include a copy of this certification will result in a denial of the permit request
- Systems shall be inspected and maintained per the MNSFC schedule as set forth in Chapter 9
- Special hazard fire suppression systems shall be monitored by the building fire alarm system
- All interlocked systems shall require manual resetting

### **Plan Submittal:**

Plans shall include the following as applicable:

- Fully dimensioned plans to scale
- Calculation sheets as appropriate
- Agent being used and the amount provided
- Manufacturer's Data sheets shall be provided for all equipment
- Description of occupancies and/or hazards being protected, designating whether or not the enclosure is normally occupied
- Description of exposures surrounding the enclosure or protected area
- Description of agent storage containers used to include internal volume, storage pressure, and nominal capacity expressed in units of agent mass or volume at

- standard conditions of temperature and pressure
- Description of nozzles used to include size, orifice port, configuration and equivalent orifice area and material
  - Description of pipe and fittings used to include material specifications, grade and pressure rating
  - Plan view of the protected area showing enclosure partitions; agent distribution system including agent storage containers, piping and nozzles, location of controlled devices such as dampers and shutters and location of instructional signage, location of manual pull station, location of notification devices
  - Location and function of the detection device(s)
  - Length of time delay for pre-discharge alarm (if applicable)
  - Location and description of warning signs (if applicable)
  - Details of container securement
  - Details of any special features

**All plans shall be submitted electronically through ePermits online. No paper plans will be accepted.**

#### Inspections Required:

- Rough-in – piping shall remain uncovered until after inspections are complete
- System activation (all methods).
- Room integrity test (if applicable).
- System activation by manual pull station (if applicable).
- Fire-rated shaft enclosure inspection (if applicable).
- Operations test - a puff test or a full discharge test will be required, depending on the specific type of system.
- Central monitoring.

**Systems should be fully inspected by the contractor and operational prior to calling for a final inspection. If the system fails the inspection, and a re-inspection is required a re-inspection fee could be charged.**

Click [HERE](#) to go to the ePermits website.