**Sprinklers in Concealed Spaces and Strobe Coverage**

In this meeting we will be addressing some of the common suppression and protection issues encountered in concealed spaces. We will look at what is considered a concealed space, when sprinklers are permitted to be omitted and understand why, and be able to discern the differences between NFPA13 and NFPA 13R. Also, proper strobe coverage will be reviewed. A explanation will be given for the required candela settings, and how they relate to the many spaces required throughout a building. Finally, a quick overview will be given on what needs to be in place before final testing will take place.

### Next Coffee Break

**Topic:** Sprinklers in Concealed Spaces  
**Location:** DMFD AMT  
2715 Dean Ave  
Classroom  
**Date/Time:** Wednesday  
August 15, 2018  
8:00 AM

### Conceived Spaces

Neither NFPA or IFC provide formal definitions on what is considered a concealed space. However, concealed spaces generally meet one of the following:

- Enclosed on all sides
- Limited or no access
- Spaces not intended for occupancy
- Spaces not intended for storage

Concealed spaces of exposed combustible construction are required to be protected by sprinklers except in areas in 8.15.1.2.18 through 8.15.6. Sprinklers are generally permitted to be omitted from these spaces do to access, fuel loads, or the space being physically impractical to cover.

### Administrative Reminders

We will cover the updated fee schedule that will take effect September 1st and scheduling tests.

The fee schedule was adjusted and will be effective September 1st. It still includes a fee of one half the original submital fee for each required resubmittal. It also still includes the fee for installation prior to receiving a permit. This fee is equal to the total of all original submital and resubmittal fees.

Scheduling tests should be done with Captain Ramquist at 515-283-1367 or by email gramquist@dmgov.org.

Prior to scheduling any tests all the required pre-testing and inspections per NFPA 13 & 72 should be completed. Per DMFD policy NFPA 72 record of completions should be submitted 48 hours prior to the test. Finally, the primary power to the fire alarm should be shut off 24 hours in advance of the start of fire alarm tests.

### Strobe Coverage

Even with careful design, proper strobe coverage is one of the biggest issues the Fire Prevention Bureau encounters when reviewing plans and inspecting projects. IFC outlines when strobe coverage is required in section 907. NFPA 72 provides more information on the requirements of these devices and proper placement.

**18.5.2 Area of Coverage.**

**18.5.2.1** The designer of the visible notification system shall document the rooms and spaces that will have visible notification and those where visible notification will not be provided.

**18.5.2.2** Unless otherwise specified or required by other sections of this Code, the required coverage area for visible occupant notification shall be as required by other governing laws, codes, or standards.

**18.5.2.3** Where required by the authority having jurisdiction, documentation of the effective intensity (cd) of the visible appliances for the area of coverage shall be submitted for review and approval.