

South Elgin & Countryside Fire Protection District

FIRE PROTECTION FACT SHEET

The South Elgin & Countryside Fire Protection District in coordination with the Village of South Elgin Building Department requires that the following inspections be performed for occupancy of a structure:

- Rough inspection
- Sprinkler Riser flush test
- Sprinkler hydrostatic test
- Open ceiling
- Hood and cooking duct system
- Hood extinguisher certification
- Fire alarm test
- Final occupancy inspection

*Minimum 24 hour notice is required for inspections, Fire Prevention Bureau 847-531-8641

The South Elgin & Countryside Fire Protection District here by adopts the following building/fire codes, amendments, and standards:

2018 International Building Code

2018 International Fire Code

The following section of the 2018 International Fire Code is hereby amended, deleted or modified as hereinafter set forth:

Administration

1. Section 101.1 Title
INSERT: “The South Elgin & Countryside Fire Protection District, Kane County, Illinois: for “[name of jurisdiction].”
2. Section 505.1 Premises identification.
DELETE: “(4) inches” INSERT “(6) inches”
3. Section 506.1.3
INSERT: “Any structure (other than 1 and 2 family dwellings) that has an automatic sprinkler system or fire alarm system shall have at least one approved key box (Knox Box) for each individual occupancy at the front door, rear door and sprinkler room.”
4. Section 104.7.2
ADD: The appendixes of all NFPA standards are to be considered an integral part of each standard and are considered to be mandatory requirements and not permissive in nature.

Required Sprinkler Protection

1. Section 903.2.1.1 Group A-1
DELETE: fire area exceeds 12,000 square feet.
INSERT: An automatic sprinkler system shall be provided throughout buildings with a Group A-1 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.

2. Section 903.2.1.2 Group A-2
DELETE: fire area exceeds 5,000 square feet
INSERT: An automatic sprinkler system shall be provided throughout buildings with a Group A-2 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.
3. Section 903.2.1.3 Group A-3
DELETE: fire area exceeds 12,000 square feet.
INSERT: An automatic sprinkler system shall be provided throughout buildings with a Group A-3 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1- hour fire separation.
4. Section 903.2.1.4 Group A-4
DELETE: fire area exceeds 12,000 square feet.
INSERT: An automatic sprinkler system shall be provided throughout buildings with a Group A-4 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.
5. Section 903.2.1.5 Group A-5
EXCEPTION: Where the fire area is less than 1,000 square feet and the roof system is protected with an approved 1 hour fire separation.
6. Section 903.2.2 Group B
INSERT: An automatic sprinkler system shall be provided throughout a building with a Group B fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.
7. Section 903.2.13 Group E
DELETE: Subsection 1: 1-3. Throughout all Group E fire areas greater than 12,000 square feet
INSERT: an automatic sprinkler system shall be provided throughout all buildings having a Group E fire area.
EXCEPTION: Temporary mobile classrooms, with approval of AHJ.
8. Section 903.2.4 Group F-I
DELETE: sub-section: 1. Where a Group F-1 fire area exceeds 12,000 square feet
INSERT: an automatic sprinkler system shall be provided throughout buildings with a Group F-1 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.
9. Section 903.2.4.5 Group F-2
INSERT: An automatic sprinkler system shall be provided throughout buildings with a Group F-2 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.

10. Section 903.2.7 Group M
DELETE: subsection I: 1 where a Group M fire exceeds 12,000 square feet
INSERT: an automatic sprinkler system shall be provided throughout buildings with a Group M fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.
11. Section 903.2.8 Group R
An automatic sprinkler system installed in accordance with section 903.3 shall be provided throughout all building with a group R fire area.
INSERT: Side by side townhouses, one and two family dwelling, a limited area fire sprinkler protection is required in the vicinity of the furnace/ water heater, laundry equipment, stove/oven and attached garage.
INSERT: To include decks.
12. Section 903.3.1.2 NFPA 13R sprinkler systems.
Group R fire area up to and including four stories in height, automatic sprinkler systems shall be permitted to be installed in accordance with NFPA 13R.
13. Section 903.3.2.1 Balconies and decks
DELETE: Subsections 1 and 2
INSERT: all types of construction
14. Section 903.2.9 Group S-1
An automatic sprinkler system shall be provided throughout buildings with a Group S-1 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1 hour fire separation.
15. Section 903.2.10 Group S-2
INSERT: An automatic sprinkler system shall be provided throughout buildings with a Group S-2 fire area.
EXCEPTION: Where the fire area is less than 5,000 square feet and the roof system is protected with an approved 1hour fire separation.

Sprinkler System

1. Section 903.3.6 Hose threads.
INSERT: four (4) inch Storz connection quick release with a 30 degree downward elbow.
2. Section 903.4.1 Signals
DELETE: central station, remote supervising station, or proprietary supervising station
INSERT: Connection directly to Fire Department dispatch center.
3. Section 903.4.2 Alarms
INSERT: In addition to 10 inch outside bell, an approved weatherproof white lens horn/strobe alerting device shall be installed above the Fire Department connection, and a second one at the sprinkler room door in a visible location, to activate on water flow only and to be powered by fire alarm system.
4. Section 903.4.3 Floor control valves
INSERT: In multiple story buildings, provide floor control valves assemblies with water flow switches for each floor.
5. Section 903.3.8.6 NFPA 13, 2016; B-2.1
INSERT: Provide a minimum 10% or 5 psi minimum safety margin, whichever is greater, in the fire protection system hydraulic calculation. The system demand shall be 5 psi minimum below the seasonal low water flow test supply.

6. Section 903.7.1 NFPA 13, 2007; 10-5
INSERT: On each drawing, provide a copy of the hydraulic nameplate for each hydraulically calculated area.
7. Section 901.4.6.1 NFPA 13, 2016; 7-10.27.8
ADD: Provide an outside access door to the sprinkler riser valve room and fire pump room
8. Section 901.4.6
ADD: Provide a minimum 1 hour separation sprinkler riser room and/or fire pump room.
9. Section 903.4.4
ADD: Provide a check valve in each sprinkler riser, where multiple risers exist.

Fire Pumps

1. Section 913.6 ADD: Fire pump test header.
 - a. ADD: Provide an outside test header on fire pump installations
 - b. ADD: Provide an OS&Y control valve on all fire pump test headers

Standpipes

1. Section 905.3.1
Insert: Class I standpipes or hose valve system shall be installed in all buildings where any portion of the building floor area is more than 150 feet of travel from the nearest point of Fire Department vehicle access.
2. Section 905.1.1
ADD: In all warehouse storage areas, where storage exceeds 12' high, provide inside 2½" fire hose valves with 1½" reducer to a 1½" connection. Locate the valves at each man door entrance to the warehouse and/or storage area. Provide additional 2½" fire hose valves so that no portion of the warehouse and/or storage area is more than 120' maximum travel distance to a fire hose valve. Show the location of all obstructions and/or racks on the drawing. The fire hose valves system piping shall be:
 - a. A separate riser piping system.
 - b. Hydraulically calculated for a minimum of 250 gpm at 75 psi to the most hydraulically remote fire hose valve
 - c. Where system pressures exceed 100 psi provide Potter reduced pressure field adjustable type valves

Fire Alarms:

1. Section 907.2 Delete (and all related exceptions)
ADD: Manual fire alarm boxes shall be provided at each exit and where directed by the AHJ. Audio visual alarm notification appliances shall be provided, seen and heard in all area of every building. All sprinkler protected buildings shall be provided with audio/visual devices. This will provide full building notification.
2. Section 907.2:
ADD: Complete manual and automatic fire alarm systems shall be installed throughout all user group building greater than 2,500 square feet or as otherwise required by this section.
EXCEPTION: Automatic detection is not required in fully fire sprinklered buildings.
3. Section 907.6.6 Monitoring
ADD: all fire alarms shall be connected to South Elgin Fire dispatch center by radio remote transmission, approved by AHJ.

4. Section 907.1.4 Equipment
ADD: All fire alarm systems shall be of the addressable type.
5. Section 907.6.3 Initiating device identification
DELETE: Exceptions subsections 1-4.
6. Section 907.6.3.1 Annunciation
ADD: When the main fire alarm panel is not located in the hour rated protected sprinkler room or is located in a remote area, a remote annunciator will be located within 10 feet of main entrance or a location set by the AHJ.
7. Section 907.3.1 Duct Detector Test Switches
ADD: Duct detector remote indicator and test switches will be located on the wall next to the corresponding thermostat unit, mounted no higher than 5 feet.
8. Section 907.5.2.2.6 Emergency voice/alarm paging system.
ADD: The controls for the emergency voice/alarm paging system will be located by the remote annunciator or otherwise directed by AHJ.

Carbon Monoxide Detection

1. Section 915.2.3 (DELETE)
ADD: Group E (New) occupancies. Carbon monoxide detection shall be installed within 20ft of a carbon monoxide emitting device. The carbon monoxide detection device must be powered and monitored by the building fire alarm system.
ADD: Group E (Existing) occupancies. Carbon monoxide detection shall be installed within 20ft of a carbon monoxide emitting device. The carbon monoxide detection device shall be AC powered with Battery Backup.

Emergency Illumination

1. Section 1008.3.3 Room and Spaces
DELETE: Subsection #5
INSERT: #5 all public restrooms with two or more stalls, #6 locker rooms.

Electrical

1. Lighting fixtures installed in suspended grid ceiling systems weighing greater than 10 lb but less than 56 lb require two #12 gage minimum hanger wire connected to the fixture housing on opposite diagonal corners and connected to the structure above. These wires may be slack.