REGULATIONS for INSTALLATION, MAINTENANCE, and TESTING

FIRE ALARM SYSTEMS
APPLICATION PACKET

CITY OF NAPERVILLE

400 S EAGLE STREET
NAPERVILLE, Il 60540
PHONE 630.420.6100 Option #2
FAX: 630.420.6657

Naperville Fire Department

To: Fire Alarm Installers/Contractors

Enclosed with this letter is the City of Naperville Fire Department permit application packet for Fire Alarm Systems.

- �ț Section 1 - General information
- ✝ Section 2 - Plan review and permit information
- ✝ Section 3 - Requirements - installation, maintenance, and testing - Fire Alarm Systems
- ✝ Section 4 – City of Naperville requirements
- ✝ Section 5 - Required Inspections
- ✝ Section 6 - Forms

The information contained herein is applicable to newly constructed and/or remodeled multifamily and commercial occupancies in the City of Naperville.

Please Note: Fire Alarm Systems and Fire Protection Systems <u>cannot</u> be installed prior to plan review and permit issuance.

I encourage you to review the information in this packet and share it with those individuals within your organization who are involved with the sales and installation of Fire Alarm System and Fire Protection Systems.

If you discover any discrepancies in this packet or need clarification on any of the information contained herein, please don't hesitate to contact me. Your comments and feedback are greatly appreciated.

Sincerely,

Benjamin DeAnda MPA, MA, CFO, FM
Community Risk Reduction Manager
Naperville Fire Department
1380 Aurora Avenue
Naperville, IL 60540
(630)420-4095
 deandab@naperville.il.us

Section

1: General Information

The Naperville Fire Department has established, through Ordinance, requirements for the Installation, Maintenance and Testing of Fire alarm systems in the City of Naperville. These requirements have been established to assist the Alarm Installer, Maintenance, and Testing Company as to what is required when installing/working on Fire Alarm Systems in the City of Naperville. Please note, that Fire Alarm Installer shall be registered with the State of Illinois pursuant to the Illinois Private Detective, Private Alarm and Private Security Act of 1983. Additionally, all fire alarm systems in the City of Naperville shall be inspected and tested annually. The results of these annual fire alarm testing reports shall be submitted to the Fire Department through our third-party provider, Brycer LLC, at www.thecomplianceengine.com.

The Naperville Fire Department performs all plan review and final inspections and acceptance/performance testing for all fire alarm installations. The City of Naperville will not issue any Occupancy Permits until the Fire Alarm System has been approved by the Naperville Fire Department.

Any questions regarding fire alarm systems should be directed to the attention of The Naperville Fire Department, Fire Prevention Bureau at 630/420-6146.

ADOPTED CODES

The following Codes have been adopted by the City of Naperville:

- City of Naperville Municipal Code as amended.

  Volumes one through twelve and fifteen through seventeen excepting NFPA numbers
- 3,70,70B,291,402,403,405,412,414,472,473,550,551,555,556,901,921,1000,1001,1002,1003,1005,1006,1021,1026,1031,1033,1035,1137,1041,1051,11,1071,1081,1142,1143,1144,1145,1201,1221,1250,1401,1402,1403,1404,1405,1407,1410,1451,1452, Volumes 13 and 14, 1991,1992,1994,1999 of the National Fire Code, the current edition adopted by the City of Naperville, published and updated (supplemented and amended) by the National Fire Protection Association.

- National Fire Alarm Code (NFPA 72) - Current Edition.

- Life Safety Code (NFPA 101) - 2018 Edition. (With City Amendments)

- 2018 International Building Code (With City Amendments).

- 2018 International Fire Code (With City Amendments).

NOTE: The alarm installer/contractor will be required to comply with all other applicable NFPA standards, codes and local ordinances that apply to fire alarm systems.

Section 2: Plan Review Information

The Naperville Fire Department is the authority having jurisdiction for the plan review and acceptance testing of Fire Alarm Systems. This includes new systems and/or modifications/alterations to existing systems. All required fire alarm systems must be approved by the Fire Department before the City will issue an occupancy permit.

Plans for each fire alarm system must be submitted to the City of Naperville, electronically to buildingpermits@naperville.il.us. Plans are generally reviewed, and written comments provided within 10-14 working days. A due date will be assigned at the time of submittal. After the review is completed, the applicant will be furnished with at least one (1) set of stamped drawings, which are required to be on-site and available for the Fire Department Inspector.

The plan submittal shall include:

1. Set plans for each fire alarm system.
2. Fire Alarm Plan Review Submittal Sheet
3. Fire Alarm System Application Form

The plan review fee must accompany the submitted plans as outlined on the Application & Submittal Information Form. If plans must be re-submitted the fee (additional) must accompany the resubmitted plans.

Fire alarm systems must be designed, installed and function in accordance with locally adopted codes (and amendments) as identified in this document.

Plan submittal documents. Construction documents shall include, but not be limited to, all of the following:
1. A floor plan, (identify room use and show dimensions).
2. Locations of alarm-initiating and notification appliances.
3. Alarm control and trouble signaling equipment.
4. Annunciation.
5. Power connection.
6. Battery calculations.
7. Conductor type and sizes.
8. Voltage drop calculations.
9. Manufacturers, model numbers and listing information for equipment, devices and materials.
10. Details of ceiling height and construction.
11. The interface of fire safety control functions.

Equipment. Systems and their components shall be listed and approved for the purpose for which they are installed. All system devices shall be compatible.

Section 3: Requirements - Installation, Maintenance & Testing - Fire Alarm Systems

Where required in accordance with Amendments, an approved manual/automatic fire alarm system shall be provided as follows:

International Building Code (IBC) Class:	Use:	Example:	Exceed gross sq. ft.:
Assembly	A-1	Motion picture theatre	Required
	A-2	Restaurant	Required
	A-3	Churches	Required
	A-4	Indoor Arenas	Required
	A-5	Stadiums	Required
Business	B	Professional Services	Required
Education	E	Schools	Required
Factory	F-1	Moderate Hazard	Required
	F-2	Low Hazard	Required
Hazard	H	Chemical Manufacturing	Required
Institutional	I-1, I-2, I-3	Board & Care, Group Homes, Assisted Living, Hospitals, Nursing Homes, Detention Facilities	Required
Mercantile	M	Department Store	Required
Residential	R-1	Boarding Houses/Hotels	Required
	R-2	Apartment/Dorms	Required
	R-3	Adult & Child Day Care	Required
	R-4	Residential Care/Assisted Living 16 or fewer residents	Required
Storage	S-1	Furniture, lumber yards	Required
	S-2	Non-combustible	Required
Utility	U	Greenhouses/barns	Required

Fire Alarm System Exceptions:

The fire alarm system requirements are not applicable if the permit applied for only involves the upgrade of electrical equipment or mechanical equipment (unless required by the applicable building code) or exterior renovations.

Section 4: Naperville Requirements

In accordance with City Ordinance, all permitted newly installed or modified automatic fire alarm systems shall conform to the current Code requirements, National Fire Protection Association (NFPA) applicable requirements, the International Building Code, International Fire Code, the Illinois Accessibility Code, the Naperville Municipal Code and the Naperville Fire Department Requirements for the Installation of Fire Alarm Systems.

All required fire alarm system panel replacements require a permit.

All required fire alarms must adhere to the requirements detailed in **Section 10-6B** of the Naperville Municipal Code. All required fire alarms (existing/new) shall be **monitored** (Section 10-6B).

Fire Alarm Control Panel (FACP): shall be U.L. or F.M. approved, and shall be separate from any other non-fire protection system. Combination Burglar/Fire panels shall be prohibited. The control panel shall be addressable unless approved by the Fire Department. Location shall be approved by the Fire Department. The FACP shall not be located within a private garage or other room controlled by unauthorized persons. A FACP installed out-side shall be in a U.L. or F.M. approved, climate controlled, weatherproof box. The FACP shall only monitor fire protection systems. Any Control Panel requiring a code to silence or reset shall have the code permanently displayed on the Fire Alarm Control Panel door. The Fire Alarm Control Panel room shall be properly labeled (minimum of 4 inch lettering) with lettering of a contrasting color. A smoke detector is required to be installed at the FACP.

Fire Department Lock Box: The Fire Alarm Control Panel must be accessible to the Naperville Fire Department 24 hours a day, 365 days a year, via LOCKBOX. Lockbox information/order forms can be obtained from the Naperville Fire Department. Location shall be approved by the Naperville Fire Department. The lockbox should be installed no more than 6 feet above grade/floor.

Power Supply: The primary and secondary power supplies for the fire alarm system shall be provided in accordance with NFPA 72. Electric power to the FACP shall be approved and separated from unauthorized personnel.

A Remote Annunciator: (unless otherwise approved) is required if the FACP is not visible from the exterior of the building. The annunciator panel shall be permanently marked to show zones.

Zones: Addressable devices shall be used unless approved by the Fire Department. If not addressable, each floor shall be zoned separately, and a zone shall not exceed 22,500 square feet. The length of any zone shall not exceed 300 feet in any direction (automatic sprinkler system zones shall not exceed the area permitted by NFPA 13). A zoning indicator panel and the associated controls shall be provided in an approved location. The visual zone indication shall lock in until the system is reset and shall not be cancelled by the operation of an audible alarm-silencing switch. The capability to disable each zone shall be provided. A separate zone by floor and device type shall be provided for the following types of alarm notification devices where provided:
1. Smoke detectors.
2. Sprinkler water-flow.
3. Manual fire alarm boxes.
4. Other approved types of automatic fire detection devices or systems (HVAC, Hood & Duct Suppression, FM-200, etc.).

A ZONE MAP encompassing a Floor Plan, shall be provided near each FACP and annunciator panel.

A 4-inch RED lens weatherproof strobe light shall be installed on the exterior of the building above the closest entrance to the annunciator/FACP.

HVAC Duct Detection (where required) shall be provided with remote L.E.D. and test switches for all detectors that are obstructed or located above the ceiling. The L.E.D. test switches shall be located on the wall or ceiling directly below (or as close as possible) to the unit it serves. In sprinkled buildings, the detectors shall report a supervisory/trouble condition.

Manual Fire Alarm Boxes (MP) shall be located not more than 5 feet from the entrance to each exit. The height of the MP shall be a minimum of 42 inches and a maximum of 54 inches measured vertically from the floor level to the activating handle or lever of the box. Additional MP shall be located so that travel distance to the nearest box does not exceed 200 feet. Manual fire alarm boxes shall be **RED** in color.

Manual Fire Alarm Boxes - **Protective covers**: The Fire Department is authorized to require the installation of listed manual fire alarm box protective covers to prevent malicious false alarms and provide protection from physical damage. The protective cover shall be transparent or red in color with a transparent face to permit visibility of the manual fire alarm box. Each cover shall include proper operating instructions. A protective cover that emits a local alarm signal shall not be installed unless approved.

Fire Safety Functions: Automatic fire detectors utilized for the purpose of performing fire safety functions shall, upon actuation, perform the intended function and activate the alarm notification appliances.

Alarm notification appliances: Alarm notification appliances shall be provided and shall be listed for their purpose. Alarm notification appliances shall be both audio and visual unless approved by the Fire Department.

Audible/Visible alarm notification appliances shall be provided in public and common areas (lobbies, elevator, hallways, laundry rooms, swimming pools, storage rooms, recreation areas, parking garages, building offices, conference rooms, patios, restrooms, telephones, etc).

Audible alarm notification appliances shall sound a distinctive sound that is not to be used for any purpose other than that of a fire alarm. The audible alarm notification appliance shall provide a sound pressure level of 15 decibels (dBA) above the average ambient sound level or 5 dBA above the maximum sound level having a duration of at least 60 seconds, whichever is greater, in every occupied space within the building. The minimum sound pressure levels shall be **70 dBA in occupancies in Group R (at the pillow) and Group I-1**; 90 dBA in mechanical equipment rooms; and 60 dBA in other occupancies. The maximum sound pressure level for audible alarm notification appliances shall be 120 dBA at the minimum hearing distance from the audible appliance. Where the average ambient noise is greater than 105 dBA, visible alarm notification appliances shall be provided in accordance with NFPA 72 and audible alarm notification appliances shall not be required. Visible alarm notification appliances shall be allowed in lieu of audible alarm notification appliances **in critical care areas of Group I-2 occupancies**.

Monitoring. The methods for communicating fire alarm signals shall comply with the requirements of the National Fire Alarm Code (NFPA 72), and the following:

1. The City of Naperville has a monitoring option, the application and agreement are attached to this packet. If you are interested, please forward the completed paperwork to Lisa Kross at krossl@naperville.il.us. If there are multiple buildings involved, please contact Community Risk Manager Benjamin DeAnda (630) 420-4095, possible special pricing depending on the number of buildings.

2. Radio communication to a private monitoring agency that is approved by NFPA 72 and listed by Underwriters Laboratories (UL) for commercial fire alarm is to be utilized in the City of Naperville if installed in accordance with its listing and approved by the Naperville Fire Department.

3. Any form of fire alarm signal communication that involves a supervisory signal check, must perform the check a minimum of once every twelve (12) hours.

4. Institutional Use Group occupancies, as defined by I.B.C., shall utilize a method of monitoring that can be recognized by the City of Naperville Dispatch Center (PSAP), currently this is an AES/Keltron Radio.

5. **Cellular communication or IP communication is not allowed in the City of Naperville**.

Non-monitored existing fire alarms: Buildings equipped with existing fire alarm systems that are not currently monitored in accordance with the Naperville Fire Department Requirements for the Installation, Maintenance, and Testing of Fire Alarm Systems shall be monitored in accordance with the Naperville Fire Department Requirements for the Installation, Maintenance, and Testing of Fire Alarm Systems.

Section 5: Inspection Information

Fire alarm systems must be inspected at certain intervals according to the following schedule:

Fire Alarm Systems:
1. Rough wire inspection (Not required in all instances)
2. Final acceptance/performance test

Other Systems:

Information is provided on the plan review comment sheet/form, included with your permit.

Certificate of Completion: The Contractor shall provide to the Fire Department, prior to the Fire Department witnessing a performance test of the system, a Certificate of Completion (Per NFPA 72).

Inspections may be scheduled by calling 630/420-6100 option 1 - 48 hours in advance. When inspections are scheduled all appropriate installers, sprinkler contractor, cooking suppression contractor, etc., must be present.

The fee for all inspections is **$ 68.00** per hour (one-hour minimum).

If an inspection/test fails, a re-test will have to be scheduled through the City of Naperville Permit Inspection Desk, 630-420-6100 option 1. Any re-inspection/re-test will result in a re-inspection fee of $ 68.00 per hour (one-hour minimum).

Annual Fire Alarm Testing

All fire alarm systems, fire suppression systems, cooking suppression systems, and any other fire safety system required to be tested, serviced, or inspected according to NFPA 25 shall be tested and cleaned at least annually, 6 months minimum for cooking suppression systems, and the results shall be sent to us through our third party administrator, Brycer LLC, at www.thecomplianceengine.com .

Naperville Fire Alarm System- Certificate of Completion

This form must be completed and available to the Fire Inspector upon their arrival to conduct a final fire alarm system performance test.

Location of Fire Alarm System   **Alarm System Installer**

Name: _____   Name: _____
Address: _____   Address: _____
City/State/Zip: _____   City/Sate/Zip: _____
Owner Contact:_____   Representative: _____
Telephone: _____   Telephone: _____

General Information:

Alarm Panel Manufacturer: _____   Model: _____

Alarm Panel Location: _____

Telephone Circuit #: _____   Position No: _____

ALARM AND DETECTION EQUIPMENT

	YES	NO	N/A
A. Does the panel indicate normal conditions?			
B. Are all indicating lamps in working order?			
C. Does the trouble light operate?			
D. Does the silence switch operate?			
E. Does the panel have 60 hour Battery Backup?			
F. Are the Batteries properly charged?			
G. Does the panel have Zone Disable Capabilities?			

DEVICES	QTY.	QTY. TESTED	CLEANED	OK
2. **Remote Annunciator**				
3. **Number of Zones**				
4. **Key Box Provided**				
5. **Manual Pull Stations**				
A. Coded				
B. Non-Coded				
6. **Smoke/Heat Detectors**				
A. Photoelectric				
B. Ionization				
C. Thermal				
D. Flame				
E. Duct				
F. Rate of Rise				
G. Fixed Temperature				
H. Combination				
7. **Audible/Visual Devices**				
A. Bells				
B. Horns				
C. Horn & Strobes				
D. Speakers				
E. Red WP Strobe by entry door to FACP				
F. White WP Strobe by tenant door with a zoned FACP				
8. **Water Flow Switches**				
A. Paddle Type				
B. Pressure Type				
9. **Other Initiating Devices**				
A. ANSUL				
B. High/Low Air				
C. Other				
10. **Tamper Switches**				
A. OS & Y				

B. Post Indicator Valve				
C. Other				
11.**Supervisory Signals**				
A. Building Temp.				
B. Site Water Temp.				
C. Site Water Level				
D. Fire Pump Power				
E. Fire Pump Running				
F. Fire Pump Auto Position				
G. Fire Pump Controller Trouble				

DEVICES	QTY.	QTY. TESTED	CLEANED	OK
H. Fire Pump Low Fuel				
I. Generator in Auto Position				
J. Generator Trouble				
K. Transfer Switch				
L. Generator Running				
M. Generator Low Fuel				
12.**Emergency Communications**				
A. Phone Set				
B. Phone Jacks				
C. Off-Hook Indicator				
D. Call-in Signal				
E. System Performance				
13.**Other**				
I. Generator in Auto Position				
J. Generator Trouble				
K. Transfer Switch				
L. Generator Running				
M. Generator Low Fuel				

Comments:

_____

_____

Did the Alarm Monitoring Company Receive the Signal?   ☐ **Yes**   ☐ **No**

Date: _____   **Time:** _____

Is the Alarm System Back In Service: ☐ **Yes**   ☐ **No**

****

ALARM INSTALLER CERTIFICATION

**I, _____, representing the Firm _____,
have installed the Fire Alarm System at the location detailed above in accordance with the
approved plans and have tested the system in accordance with the manufacturer's
specifications and appropriate NFPA requirements and Local Ordinances.
Alarm Installer: _____   Date: _____**

Naperville Fire Department General Standard Fire Alarm Requirements

Initiating devices shall be installed in all areas, compartments, or locations where required by
other NFPA codes and standards or as required by the authority having jurisdiction. NFPA 72
5.4.6.

The following requirements show general Naperville Fire Department requirements for fire alarm
system design. These requirements are in addition to NFPA 72 and other applicable requirements
of the IBC 2018.

Buildings Fully Sprinkled per NFPA 13.

Use Group: A-1, A-2, A-3, A-4 & A-5   Assembly

> Manual devices: Pull stations at all exits and on each level at the entrance to any
> stairwells
>
> Automatic devices: Smoke detection above all control panels.
> Smoke detection at the top of all stairwells
>
> Any commercial cooking systems shall be tied into the control panel on its own
> zone.
>
> Notification devices: Audio heard in all occupiable areas, visual in all common
> areas including   washrooms, kitchens/break rooms, and conference rooms.

Use Group: B Business

> Manual devices: Pull stations at all exits and on each level at the entrance to any
> stairwells
> Automatic devices: Smoke detection above all control panels.
>   Smoke detection at the top of all stairwells
> Notification devices: Audio heard in all occupiable areas
>   Visual in all common areas including washrooms, kitchens/break rooms,
>   conference rooms, examination and treatment rooms. E   Education

Manual devices: pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels.
Smoke detection at the top of all stairwells

Smoke detection on both sides of fire doors that are on hold open devices
Smoke detection in daycare sleeping rooms.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas, washrooms, conference rooms and classrooms

Use Group: F-1, F-2 Factory and Industrial

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels. When ambient conditions prohibit installation of automatic smoke detection, automatic heat detection shall be permitted.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas including washrooms, kitchens/break rooms, and conference rooms.

Use Group: H Hazardous

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection shall be installed in rooms or areas where highly toxic compressed gases are stored or used.

Smoke detection shall be installed in rooms or areas where class I, II, or III Organic peroxides are stored.

Smoke detection shall be installed in areas storing liquid and solid oxidizers. Other devices as dictated by types of hazards.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas including washrooms, kitchens/break rooms, and conference rooms.

Use Group: I-1, I-2 Institutional

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

> Automatic devices: Smoke detection above all control panels.
> Smoke detection in all corridors
> Smoke detection in all waiting areas open to corridors
> Smoke detection in all laundry, trash, and storage rooms
> Smoke detection in all sleeping or patient rooms
> Smoke detection outside of each sleeping area.
> Smoke detection at the top of all stairwells.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas including washrooms, kitchens/breakrooms, and conference rooms.

I-3 Institutional - Detention

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection shall be installed throughout resident housing areas including but not limited to, sleeping areas, day rooms, group activity spaces, and other common spaces.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas including washrooms, kitchens/breakrooms, and conference rooms

I-4 Institutional – Day-care Facilities

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels.
> Smoke detection in all corridors and at the top of all stairwells.
> Smoke detection in all waiting areas open to corridors.
> Smoke detection in all laundry, trash, and storage rooms.
Smoke detection in any sleeping rooms.

Notification devices: Audio heard in all occupiable areas
> Visual in all common areas, washrooms, conference rooms and classrooms

Use Group: M Mercantile

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels.

Notification devices: Audio heard in all occupiable areas
visual in all common areas including washrooms, kitchens/break rooms, and conference rooms.

Use Group: R-1 Residential – Hotels/Motels

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels.
Smoke detection in all corridors and common areas.
Smoke detection in all waiting areas open to corridors.
Smoke detection in all guest rooms in the sleeping areas and in every room in the path of means of egress from the sleeping area and the door of the guestroom or suite.
Smoke detection at the top of all stairwells.

Notification devices: Audio heard in all occupiable areas visual in all guest rooms and common areas including washrooms, kitchens/break rooms, and conference rooms.

Use Group: R-2, Apartments, Boarding Houses, Dormitories - attached multi – family.

Manual devices: Pull stations at all common exits and on each level at the entrance to any common stairwell.

Automatic devices: Smoke detection above all control panels.
Smoke detection in all corridors, common areas and the tops of all stairwells.
Smoke detection in all waiting areas open to corridors.
Smoke detection in all dwelling units. Exception: apartments & attached multi-family

Notification devices: Audio heard in all occupiable areas visual in each dwelling unit and all common areas including washrooms, kitchens/break rooms, and conference rooms.
==Notification devices provided for the sleeping areas to awaken occupants shall produce a low frequency alarm that complies with NFPA 72==

Use Group: R-3, Adult & Child Day Care

Manual devices: Pull stations at all common exits and on each level at the entrance to any common stairwell.

Automatic devices: Smoke detection above all control panels.
Smoke detection in all corridors, common areas and at the tops of all stairwells.
Smoke detection in waiting areas open to corridors.
Smoke detection in all laundry, trash, and storage rooms. Smoke detection in all electrical closets.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas including washrooms, kitchens/breakrooms, and conference rooms.

Use Group: R-4   Residential Care/Assisted Living Facilities for 16 or fewer residents.

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels.
Smoke detection in all corridors and common areas.
Smoke detection in all waiting areas open to corridors.
Smoke detection in all laundry, trash, and storage rooms.
Smoke detection in all electrical closets.
Smoke detection at the top of all stairwells.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas including washrooms, kitchens/break rooms, and conference rooms.
Visual in each dwelling unit

Use Group: S-1, S-2   Storage Buildings

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels.

Notification devices: Audio heard in all occupiable areas
visual in all common areas including washrooms, kitchens/break rooms, and conference rooms.

U   Utility Buildings

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Smoke detection above all control panels.

Notification devices: Audio heard in all occupiable areas
visual in all common areas including washrooms, kitchens/break rooms, and conference rooms.

Unsprinkled or partially sprinkled buildings:

<u>**Use Group:**</u> A, B, E, F, M, S, & U

Manual devices: Pull stations at all exits and on each level at the entrance to any stairwells.

Automatic devices: Detection is required in all accessible areas.
Exception: spaces above suspended ceilings and closets under 24 sq ft. with the least dimension on one side of 3 feet.

Notification devices: Audio heard in all occupiable areas
Visual in all common areas including washrooms, kitchens/break rooms, conference rooms, examination and treatment rooms.

<u>**Use Group:**</u> Multi – family Attached

Automatic devices: Heat detection in all attics, centrally located on each level, laundry and furnace rooms and in all attached garages. Detection above the FACP.

Notification devices: Audio visual device in each dwelling unit located in the area of the bedrooms.

NOTE: In partially sprinkled buildings, detection shall be required in all unsprinkled areas. If any areas of a building are not addressed in these guidelines please contact the Fire Prevention Bureau for clarification.

NOTIFICATION DEVICES

All required notification devices shall be of the audible and visual type. Mechanical horns or bells, and emergency voice/alarm communications systems are prohibited. However, manual live voice override systems will be allowed provided the audio/visual devices reactivate automatically upon completion of any live voice message. Audio sound levels shall meet NFPA 72.

NAPERVILLE FIRE DEPARTMENT FIRE   ALARM SYSTEM APPLICATION FORM

Date Submitted_____ **Building Permit #:**_____

_____
_____
_____
_____

Project: _____   **Installer Co. Name:** _____

Address: _____   **Contact Person:** _____

Suite/Unit#: _____   **Address #:**_____

                                                                C, S, Z: _____

                                                                 Phone #: _____

                                                                Fax #: _____

General Contractor: _____

Address: _____ **C, S, Z:** _____

Phone: _____ **Fax:** _____ **E-mail:** _____

Permit Fees Make Check Payable to the City of Naperville

Number of Pages _____ X $48.00	**$**
$18.00 Permit Fee	**$18.00**
$68.00 For First Inspection	**$68.00**
Total Amount Due	**$**

FIRE ALARM REVIEW SUBMITTAL SHEET

ADDRESS: _____

Total square footage of building: _____ Total square footage of build-out: _____

IBC Building Use Group: _____ System meets NFPA 72: **Y / N**

UL listed fire control panel: **Y / N**   Model: _____ Brand _____

Location of FACP: _____ FAAP: _____

Alarm Monitor Co._____

Method of signal transmission: _____ Standby battery hours: ☐ 60   ☐ 24

Other Automatic Fire Suppression Systems Connected to Fire Alarm:

Fire Sprinklers: ☐ Wet   ☐ Dry   ☐ Pre-Action   ☐ Anti-Freeze Loop

☐   Hood Suppression System (ANSUL)

☐   FM 200 System

☐   Other Types: _____

Number of Type of New Initiating Devices:

Heat Detectors: ☐ Fixed Temperature_____   ☐ Rate of Rise _____

☐   Smoke Detectors _____   ☐ Duct Smoke_____   ☐ Pull Stations

☐ _____

☐   Water Flow _____   ☐ Tamper Switches _____   ☐ Low Temp _____

     Other _____

Number of Type of New Indicating Devices:

☐   Horn/Strobes # _____   ☐ Strobes Only # _____   ☐ Horns Only #

☐ _____

     Voice Communication System – Speaker strobes # _____

Strobes: ☐ Red Lens Strobe # _____   ☐ White Lens Strobe # _____

Plan submittal documents shall include, but not limited to, all the following:

☐ Floor plan, identify room use & show dimensions   ☐ Annunciation

☐ Location of alarm-initiating & notification appliances   ☐ Power Connection

☐ Alarm control & trouble signaling equipment   ☐ Battery calculations

☐ Conductor type & sizes   ☐ Voltage drop calculations

☐ Manufacturers listing information   ☐ Ceiling height & construction

☐ The interface of fire safety control functions