



New Hope Borough Office of the Fire Marshal

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Fire Alarm Permit Application

IFC2003-105.7.3

All sections below must be completed.

FIR _____

Date: _____

Project Name: _____

Project Address: _____

Applicant's Name: _____ Company: _____

Phone: _____ Fax: _____

Bldg Owner/Rep. Name: _____ Phone: _____ Fax: _____

Designer's Name: _____ Phone: _____ Fax: _____

Designer's Qualifications (Ref. NFPA 72, 4.3.2): _____

Installer's Name: _____ Phone: _____ Fax: _____

Building Permit Number (If applicable): _____

Check One

- New system in new building
- New system in existing building
- Replacement of existing system (Include reason for replacement in explanatory comments)
- Modification of existing alarm system
(Include permit number for original installation if applicable: _____)
- Resubmittal** (Include Fire Alarm Permit Number: FIR _____)

Scope of Work

Describe work to be performed in detail. _____

Building Occupancy Groups

For new fire alarm systems, list all occupancies within the building; verify with architect: _____

Fire safety begins with you!

Rev: 10/18/2004 FM249-2

Alarm System Coverage

Check all sections which are applicable to the new or existing system design.

- Required manual fire alarm system (Refer to IFC 907.2)
- Required automatic detection (Refer to IFC 907.2, NFPA 72, 5.5.2)
- Non-required automatic detection (NFPA 72, 5.5.2.4)
- Audible/visual annunciation (NFPA 72, Chapter 7)
- Sprinkler Monitoring (IFC 903.4; NFPA 72, 5.10, 5.13, 6.8.5)
- Separate requirement for Backflow Preventor Valve Supervision (Refer to IFC 903.4.1 Exception #2)
- HVAC smoke detector monitoring (IMC 606.4.1; IFC 907.12; NFPA 72, 5.14)
- Smoke damper detectors (IBC 715.3.2.1; IFC 907.11 (or .12); NFPA 72, 5.14)
- Smoke rated fire doors (IBC 714.2.7.3; IFC 907.11; NFPA 72, 5.14).
- High Rise Building (IFC 907.2.12; NFPA 72, 6.9)
- Elevators (IFC 607; IFC 907.11; NFPA 72, 6.15.3, 6.15.4)
- Type I cooking hood extinguishing system monitoring (IMC 509; NFPA 72, 6.8.5.6)
- Special extinguishing system releasing panel (NFPA 72, 6.8.2.1.2, 6.11)
- Offsite alarm supervision (NFPA 72, chapter 8). Type: _____
- A Fire Department approved delayed alarm upgrade agreement applies (attach copy).

Additional Explanatory Comments

Include the reasons for the proposed work. Explain any unusual conditions and/or special design considerations necessary to understand the proposed scope of work and system design. Attach a copy of any Fire Department special approval or upgrade agreements if applicable.

The following is a list of required construction documents which must be submitted in duplicate with this application. Refer to the separate Fire Alarm Permit Plan Review Requirements document for detailed requirements of each item.

- Site Plan (include streets and adjacent buildings)
- Floor Plans
- 1-line diagram (Riser)
- Battery & Voltage drop calculations
- Manufacturers, model numbers and cut sheets for all equipment, and devices.
- Alarm response matrix.

Any items not submitted will be required prior to acceptance of the application for the plan review process.

Fire Alarm Permit Plan Review Requirements

The following is a list of basic requirements for plans submitted for Permit approval. It is not intended to be considered a complete list of all applicable code requirements or to relieve the applicant from compliance with any code requirements.

Permit Application

A Fire Alarm Permit application shall be provided as the cover document for all plan submittals and resubmittals. All sections of the Application shall be correctly and completely filled out. The Applicant shall be responsible to ensure that design specifications and plans are complete and in compliance with the requirements of the International Fire Code and applicable Standards. (Refer to IFC 105.4.3)

Note: To comply with this Code requirement, necessitates joint cooperation. Owners are responsible to provide a proper building alarm system; the architect is responsible to provide the alarm system designer with occupancy classifications and building plans as approved under the building permit; the designer is responsible for code compliant design and proper integration of any modifications into existing systems; the vendor is responsible for providing approved equipment and shop drawings in conformance with the designer's plans; the installer is responsible to follow the approved plans and to ensure the installation meets Code.

Construction Documents

Construction documents shall include:

A. Plans.

B. Battery calculations for all control panels. Field measurements will be acceptable in lieu of itemizing existing components, to determine existing system standby and alarm loads.

C. Voltage drop calculations for all annunciation circuits. Exception: Not required when using 12g wire for the single audible alarm device required for sprinkler monitoring alarm systems. Field measurements will be acceptable in lieu of itemizing existing devices to determine existing circuit loads.

D. Manufacturer's cut sheets for all devices and equipment, including control panel add-on components. Cut sheets shall be marked with asterisk, arrow, etc., to identify which specific model of device is being used, when multiple models are shown.

E. Compatibility Listings to verify component compatibility with the FA control panel

F. An alarm response matrix. (Refer to NFPA 72, Figure A.10.6.2.3(9))

All Plans

- All Plan sheets shall be of equal size, minimum 18" x 24", and shall be stapled together in sets.
- Each plan sheet shall include a title block, showing Name and address of project, a North arrow, and a unique sheet number
- Alarm plans shall be "shop drawings" (Refer to IBC 106.1.1.1).
- When the project is associated with a building permit, alarm plans shall reflect the building plans as approved under the Building Permit. (Note: When the project is associated with a building permit, fire alarm plans will not be reviewed until a permit and approved plans have been issued by the Building Inspector).
- Plans shall be drawn to scale.
- A scaled bar graph shall be shown on all sheets
- Plans shall be legible, dark-lined and reproducible with conventional copying equipment. Note: Do not use colored highlighting or "dimming" as these are frequently not reproducible. Also do not use colored or gray background shading, as these interfere with copying.

Site Plan (Refer to IBC 106.2 for Specific Description)

Any legible sized scale is acceptable. Show entire building and identify area of project. Show type of wall separation between contiguous buildings, which are considered separate buildings. Identify the building "entrance" where applicable to placement of a new FAC panel or annunciator. Include surrounding streets where applicable to FD access.

Floor Plans

Shall be drawn to 1/8" scale. Any exceptions will require prior approval. Floor plans shall show:

- The entire project area. Tenant improvement plans shall include adjacent spaces and devices as necessary to show proper device coverage, when the alarm system includes visual annunciation devices or area coverage smoke detection.
- Location of all initiating and annunciating devices in the project area.
- Circuit zone numbers and/or individual device addresses and approximate wiring information for all initiating and annunciating devices in the project area.
- Distinguish new from existing alarm equipment with "N" and "E" subscripts.
- Approximate wiring information, include circuit zone numbers/device addresses
- Strobe candela ratings.
- Details of ceiling heights and construction, when applicable to smoke detectors and ceiling strobes
- Exterior walls and doors, clearly distinguished from other construction features. (Irrelevant features such as floor covering boundaries, fences, sidewalks, etc should not be included or shall be clearly identified).
- Interior walls and partitions which extend 6' or more above FFL and the Intended Room uses, e.g. classroom, storage, restroom, office vestibule, warehouse, manufacturing. *Exception: Not required when the alarm system does not include visual alarm devices or area smoke detection.*
- Location of all control and booster panels and remote annunciators
- Location of all sprinkler risers, waterflow switches, control valves, fire pumps and controllers,
- Location of cooking hood extinguishing systems and other special extinguishing systems.
- Location of all smoke dampers,
- Location of smoke doors on hold open devices or door closing devices,
- Elevators and related lobbies, shafts and mechanical equipment rooms
- Air handlers requiring duct detectors,
- Ancillary devices, e.g. fuel and power shut offs, release of exit door latching hardware, release of door hold-open devices, elevator shunt trip and recall,
- Location of remote indicator devices.
- Circuit zone numbers on zoned systems
- Device addresses on addressable system
- Typical device wiring connections
- An equipment legend for all devices, and including the model identification

Riser Diagram

A 1-line riser diagram of the complete alarm system, which shall include:

- All control panels and any proposed additions or modifications
- All new and existing initiating and annunciation circuits
- All new and existing connected devices on all modified circuits. Prior approval required for any exceptions,
- An "E" or "N" subscript to distinguish existing from new equipment and devices
- An equipment legend for all devices, including the model identification, if different from legend shown on floor plans.
- All power supplies. Include AH rating of batteries. Include source and location of emergency standby generators. For engine driven generators, include verification of conformance with NFPA 72, 1.5.2.10.3, including the fuel supply,.
- Offsite monitoring connections
- Interface of fire safety control functions
- Conductor types and sizes. Identify if wiring is enclosed in conduit, exposed, power limited or non-power limited.

- Device addresses, for addressable systems; or device locations by Room number or name, for zoned systems

Resubmittals

A properly completed Fire Alarm Permit application shall be attached as the cover document for all resubmittals. The Resubmittal box shall be checked and the applicable Fire Alarm Permit number shall be indicated in the appropriate box on the resubmittal application. All changes to previously submitted plans shall be clouded and dated. Include the same number of copies of all resubmitted documents as submitted with the original plans.