

COLLIER FIRE DISTRICTS FIRE & LIFE SAFETY
FIRE ALARM
PLAN CHECKLIST COVER PAGE

The following is intended to assist the design professional and or installing contractor in designing and submitting for review a "code compliant" fire alarm system. This document in no way details all of the requirements that may be necessary for a complete code compliant system.

Note: Systems shall be designed in accordance with the codes and standards adopted in Rule Chapter 69A-60, The Florida Fire Prevention Code 5th edition, NFPA 1 (2012 edition) the Florida specific version, NFPA 101 (2012 edition) the Florida specific version, NFPA 72 (2010 edition), NFPA 70 (2010 edition), NFPA 90A (2012 edition), NFPA 110 (2010 edition), and the Collier Fire Districts Fire and Life Safety Policy and Procedures Manual found at <http://www.cfdin.com/Policies-and-Procedures/>

Building Information: Number of stories ____ Sq. Ft. ____/____ (per floor and building total); # of Units: ____
Is the building protected with an automatic fire sprinkler system Partial Full Sprinkler System None
If so denote which type: 13 13R 13D
Occupancy type per FFPC: _____ Chapter _____ Occupant Load: _____
To your knowledge, is this a "Required System"? YES NO Master Permit #: _____

Type of Permit:

New Fire Alarm System Existing Fire Alarm System Dedicated Function Fire Alarm System
 Fire Alarm Monitoring Only (A separate permit is required for monitoring in addition to fire alarm permit)
Communication method: _____ / _____ Format FACP(IE: 4/2, Contact ID, etc) _____
(New ie: RF, Cell) (Existing) Format DACT (ie: 4/2, Contact ID, etc) _____
 Local Alarm Only Remote Supervising Station Proprietary Supervising
 Central Station Service (not required in Collier Co) *If performance based, contact Fire Marshal

Required Information on Plan (Check box to indicate compliance)

- Project name and address on plan.
- Floor plans shall be to scale (1/8" scale is preferred). On electronic review, please provide dimension line so the scale can be set.
- Utilize NFPA 170 Symbols when possible (Mandatory December 31, 2017).
- Provide a comprehensive scope of work and input/output matrix.
- Provide sequence of operations which shall include specific conditions being supervised, as well as detailed actions taken for trouble, supervisory, alarm conditions and any other emergency operations/functions.
- Mark all device and component model numbers and quantities on plan or bill of materials.
- Riser Diagram shall be provided delineating each floor, circuit and zone and all devices, appliances and/or components.
- Provide documentation that all components are "compatible" and "listed" for the specific fire alarm applications for which they are used. Provide verification of compatibility between components and the respective panel per manufacturer. Fire alarm system components shall be installed per their "listed" application for the ambient conditions (i.e., voltage, temperature and humidity) expected. NFPA 72 10.14.1, 10.14.2.4
- Provide specification sheets.
- Provide battery calculations in chart format. A 20% safety margin required per NFPA 72-10.5.6.3.1 Existing systems shall provide new and existing calculations. (Excluding monitoring takeover).
- Provide wire legend, wire burial detail and installation method. All wiring located in wet or damp locations shall be listed for this use (Wet & Direct Burial). Include the location of the wiring method or circuit, the type of wiring method or circuit, the minimum cover requirements cut sheets.
- There shall be a minimum of one listed "weatherproof" audio/ visual appliance, located in accordance with FAL01-1.
- Provide site plan.

Fire Alarm Monitoring

Plans

- ❑ Provide outline plan of building– delineate location of FACP, smoke detector above panel, exterior weatherproof audio/visual appliance, surge protection on the power & circuits entering/exiting the building & telephone lines.
- ❑ A block diagram of the fire alarm monitoring system is provided –delineating:
 - ❑ The make and model of existing fire alarm control panel.
 - ❑ The smoke detector above panel (if smoke detector is not currently installed, then one is required to be installed) or communicator is in same room as FACP and thereby protected by the existing smoke detector.
 - ❑ The exterior audio/visual appliance (if A/V appliance is not currently installed, then one is required to be installed).
 - ❑ The surge suppressors at the 120 VAC power, circuits entering/exiting the building & telephone lines.
 - ❑ The make and model of communicator and whether it is integral to the existing FACP or a separate panel.
 - ❑ Identify on the plans if the communicator is existing or being installed as part of this monitoring permit.
 - ❑ Identify on the plans if a different technology is being utilized as a second means of transmission.
 - ❑ Copy of the Monitoring contract for the fire alarm system is attached to the submittal package or a note is included on the plan stating that the monitoring contract will be provided in the field at final inspection.
 - ❑ Note on plan whether surge any suppressors are existing or being installed as part of this monitoring permit.

NOTE: In the case of a monitoring company change to an existing fire alarm system, where either the smoke detector above the FACP and/or the external audio/visual appliance and/or a secondary supply battery size increase and/or the appropriate surge suppression DO NOT exist, compliance with bulleted items as outlined above is required.

Transmission

- ❑ For systems employing a DACT, the primary means of transmission shall be a telephone line (number) connected to the public switched network. In addition, one of the following required secondary transmission means shall be identified for use on this system. NFPA 72: 26.6.3.2.1.4 and 26.6.3.2.1.5
 - ❑ A second telephone line (number)
 - ❑ A cellular telephone connection
 - ❑ A one-way radio system
 - ❑ A one-way private radio alarm system
 - ❑ A two-way RF multiplex system
 - ❑ A transmission means complying with Chapter 26
- ❑ Primary means of transmission is via other transmission technologies, specification sheet for the existing FACP have been provided.
- ❑ If primary means of transmission is via one-way radio or other transmission technologies, the following information has been provided:
 - Documentation from the monitoring company that they have the capability to receive the transmission and that they have been certified or listed for the type of transmission.
 - Information on how it was determined that the facility has adequate signal strength to communicate with the monitoring company.
 - Acknowledgement on plans that a report or other documentation showing the transmission signal strength will be provided at final inspection.
 - Identify the receiving and transmitting equipment at both the facility being monitored and the monitoring station or subsidiary station, if applicable.
 - Detail on how compliance with each section of NFPA 72-26.6.3.3.2 is achieved.
 - Certification from the manufacturer for the transmitting facility (subsidiarystation).
 - Plans identify the system classification. NFPA 72: 26.6.3.3.2.5

Antenna

- ❑ If the antenna is remote from the unit, identify how the connection between the antenna and the transmitting unit is protected.
- ❑ Provide cut sheets for listed interior and exterior antennas.

Fire Alarm Monitoring

Battery

- Battery calculations provide for the required secondary supply capacity of the respective Remote Supervising Station, Central Station Service or Proprietary Supervising system in accordance with NFPA 72 -10.5.6.3.1 and a "20% safety margin" and have the battery calculations been reviewed for accuracy.
- Provide calculations for a newly installed communicator. NFPA 72:10.5.8
- Battery calculations are provided for the existing FACP and any other panels that are required to meet secondary supply capacity requirements for Remote Supervising Station or Central Station service systems.

Monitoring Company

- Provide copy of current UL Certificate.
- Provide copy of current Florida license.
- Provide warranty/maintenance contract with monitoring company showing services provided (633.701 (3) and length of contract.

Other

- Provide a detail on how the FACP is connected to the communicator.
- Provide documentation from the manufacture showing compatibility with the FACP.
- If FACP is installed inside a NEMA-IV enclosure, provide a detail on how the new communicator will be installed in the enclosure.

I hereby attest that, to the best of my knowledge, the aforementioned checklist information and the battery calculation(s) are accurate and adequate for the fire alarm system being submitted.

Applicant Company

Applicant Name (print)

Date

Address

City

State

Zip Code

State License Number

Expiration Date

Applicant Signature

Telephone Number

E-mail address