



# IONA MCGREGGOR FIRE DISTRICT

## FIRE PREVENTION

15961 WINKLER ROAD  
FORT MYERS, FLORIDA 33908

PREVENTION OFFICE: (239) 425-9336  
FAX: (239) 433-2673



## FIRE ALARM SYSTEM FINAL

### Iona – McGreggor Fire District

Failure to comply with any of these items will result in a failure of the alarm system. A re-inspection fee will need to be paid at IMFD office and the inspection rescheduled.

#### Initial Information

Rough wire inspection **must** be performed before walls are up. Photo FASA Card during all inspections.

Copy of duct detector air velocity test (after test and balance) and cut sheet of device planned before final.

Prior to final inspection list all nac circuits with number and EOL device location and write voltage next to circuit. Have list at final.

#### Plans

Permits, plans, and monitoring contract stamped by Lee Co. IMFD **does not** accept as-builts at final, only resubmitted and approved plans from Lee County. NFPA 1 1.14.5

Monitoring contract, fill out format reporting info.

Engineers print w/ sequence of alarm events. Dampers, ducts, suppression, elevators, stair pressurization, door releases.

Plans must have riser diagram w/ each device listed.

Panel & DACT UL compatible & approved together

Devices (both initiating and signaling) on plans and field shall all be numbered regardless of type of system per Florida State Fire Marshal 4A-48.007

#### Fees

Monitoring as shown on fee schedule

Fire Alarm Fee as shown on fee schedule

Failed Inspection Fee as shown on fee schedule – paid before reschedule

#### Fire Alarm Control Panel Room

Door marked "FACP" in 6" tall red letters

Room or panel air-conditioned

Key to FACP, pull stations, NAC, elevator firefighter, & FACP door in knox box.

#### Fire Alarm Panel

Simple directions on operations panel inside door or on door.

Copy of map with initiating devices posted at panel.

Log Book with correct plans, permits and other info.

Mounted in bin on wall at fire alarm panel.

Smokes above panel, NAC's, transformers etc.

Account name, monitoring phone # and account # in or on panel

Breaker location and number inside panel

High & Low voltage knockouts used properly.

Nac circuits shall be identified inside nac or facp panel with each circuit number, description and EOL device number. IE Nac 1 = 1<sup>st</sup> floor units 101 – 801 EOL in unit 801.

Certificated System (UL) shall have certificate mounted in frame at panel and signed inspection/maintenance agreement

#### Wiring

Simulate ground fault.

Circuits identified at terminal & junction locations. This includes terminal strips, NAC lugs, and FACP lugs. NEC 760.10

Surge suppressors on low voltage, phone lines and high voltage

Ditek requires 36" wire lead. Indicate with label inside panel where the surge is located. NEC 760.7, 800, 300.

Wiring shall be monitored for integrity NFPA 101 9.6.1.6

Splices/tape/wire nuts insulation resistance NFPA 72 6.8.2.1.6

J boxes marked (or painted red) for fire alarm NEC 760.10

Tamper proof screws on exterior J-boxes.

Grommets in all metal openings NEC 300.4 B(1)

Penetrations into wood and steel studs protected by steel plate NEC 300.4 A (1), (2), B (2)

Burial depth to backflow/OSY 18" with wet location wire. 24" under drive or parking. NEC 300.5 & NFPA 72 6.8.2.2.6

Conduit identified every 10' w/red mark NEC 760.42

Fire wire hangers approved, wire supported every 4-6'. NEC 760.6

Raceways btw outdoors and indoors (diff. temps) shall have raceway sealed. (Duct Seal usually is used) NEC 300.7

Wire nuts/crimps/lugs shall meet NEC 760.

Wet, damp or corrosive atmospheres wiring, j boxes and conduit shall be installed to atmosphere. NEC 330.6 (C)

#### Devices

At least one pull station.

End of lines marked as EOL on devices.

Devices (both initiating and signaling) on plans and field, to match, shall all be numbered regardless of type of system per Florida State Fire Marshal 4A-48.007

### **Final Inspection**

DB on horns / speakers

Heats and smokes proper distance, mounted by proper devices.

Detector 3' away from air supply diffuser

Devices shall have access to them.

Unmonitored systems mark pull "Local Alarm Only – Call 911"

Test of voltage drop (AC & DC) during alarm.

Panel & Component Ground

Certificate of Completion filled out and verified.

System tag at panel.

UL – Certificate at panel in frame and copy of runner agreement.

### **Duct detectors**

Duct remote tests and alarm indicators. NFPA 72 2-10.5.8

Duct detectors are allowed as supervisory signals.

Duct detectors have labeled access doors/panels. NFPA 72 2-10.5.3

### **Fire Pump**

Monitoring of phase reversal, motor run, and other shall be monitored by FACP unless 24 hour personnel at remote panel. NFPA 20 7-4.7

### **Sprinkler Components**

Flow Switches within 60 seconds, tampers within 2½ turns.

Backflow/OSY adjusted, chained and locked with a copy of the key to lock installed in the knox box.

### **Power**

AC & DC (Em Gen NFPA 72 6.7.3, Prim/Sec 72 1-5.8.7)

Batteries in FACP and Nac dated NFPA 72 4.4.1.8.1

AC breaker locked and identified with red FACP

### **Phone Lines**

Phone line #1 & #2 shall have numbers marked on phone jacks.

Loop start telephone line.

Two receiving numbers (DACR) programmed into panel.

Panel programmed to call second number when first busy.

### **Monitoring**

Live signal sent through to verify dispatch information.

2 after hour contact individuals (not from the builders) with phone numbers on emergency call list and premise list. These will be called during final to verify.

### **Paper Work for Final**

Poll all addressable devices – copy of report.

Copy of elevator inspection prior to final inspection.

Printed copy of sensitivity report for all smoke/duct detectors.

Signed contract with owner shall include first year smoke sensitivity test agreement.

Fax monitoring report – must match final inspection report produced by fire inspector. Fax (239) 433-2673.

### **High-rise Requirements**

Elevator Speakers (elev traveler shall be shielded)

Single NAC per floor unless total evacuation

Monitoring of circuits in firefighter phones

Stairwell Pressurization – Manual Control for fire dept.

Central Control Station (Fire Command Center) shall have:

Voice fire alarm system panel and controls (also for the one-way voice alarm system)

Fire dept with two-way telephone and controls

Fire detection and annunciation panel.

Trouble, supervisory, alarm and waterflow annunciation to the monitoring agency uniquely identifying each location.

Elevator floor location and operation annunciators

Emergency generator status indicators

Controls for any automatic stairway door unlocking system

Fire pump status indicators

Telephone for fire department used with controlled access to the public telephone system

### **Residential**

Annunciator panel – exc 2 story < 50 units

Single-station smokes bedrooms

Any software changed during the buildings lifetime must have a letter sent to AHJ and inspection.

**DO NOT INSTALL SMOKE DETECTORS OF ANY KIND UNTIL THE CLEANUP OF ALL TRADES IS COMPLETE.** NFPA 72 5.7.1.11

11/15/08