# ALPINE FIRE PROTECTION DISTRICT
# FIRE ALARM SYSTEM SUBMITTAL CHECKLIST

| CONTRACTOR INFO | |
|---|---|
| Contractor Name: _____ | Workers Comp: _____ |
| Contractor Address: _____ | Designer Info: _____ |
| Contractor License: _____ | Installer Info: _____ |
| A License / Nicet #: _____ | ITM Info: _____ |
| Project Site Address: _____ | Qualification Info: _____ |
| Date of Issue: _____ | Supervisory Station Info: _____ |

**CFC California Fire Code 2022 Edition & NFPA 72 2022 Edition**

| ADMINISTRATIVE | |
|---|---|
| Permit Application: | CFC 105.6.6 |
| Payment for plan review and inspection fees: | CFC 107.1 |
| Minimum of three copies of plans and handouts | CFC 106.1 |

| GENERAL INFO | |
|---|---|
| Installation codes NEW | CFC 907.2 |
| Installation codes EXIST | CFC 907.9 |
| NFPA Reference Standards | NFPA 72 YEAR: _____ |
| Building Occupancy Classification: _____ | CFC 105.3.7 |
| Type of system or service installed: | NFPA 72 3.3.118 |
| Fire Safety Functions | CFC 907.3 |
| Combination Systems: | NFPA 72 23.8.4 |
| HVAC locations > 2000CFM | CMC 608 |
| Pre-Engineered Fire Suppression Systems: | CFC 904.3.5 |
| Central Station or Remote Station Monitoring: | NFPA 72 26.3 |
| Classification of Supervising Station: | CFC 907.6.6 |
| Group R-2 Occupancy future capability wiring: | CFC 907.5.2.3.3.1 |
| Inspection Testing & Maintenance | CFC 907.8.4 |

| CONSTRUCTION DOCUMENTS/ COMPLETION FORMS | |
|---|---|
| All minimum required documents submitted | NFPA 72 7.2 |
| Completion Documents: | NFPA 72 7.5 |
| Record of Completion: | NFPA 72 7.5.6 |
| Verifcation of Complaint Installation: | NFPA 72 7.5.8 |
| Proof of annual Inspection Testing and Maintenance | NFPA 72 7.6 |
| Document Accessibility | NFPA 72 7.7.2 |
| Forms and Documents used: | NFPA 72 7.8.2 |
| Control Unit Diagrams: | NFPA 72 7.4.7 |
| Typical Wiring Diagrams: | NFPA 72 7.4.8 |
| Matrix of operation Worksheet: | NFPA 72 7.4.9 |
| System Calculations: | NFPA 72 7.4.10 |
| Power Supplies: Primary, Secondary Batteries: | NFPA 72 10.6, 10.6.5, 10.6.7, 10.6.10 |

# PLANS AND DRAWINGS

## All info applicable to the project — NFPA 72 7.2

(1) Written narrative providing intent and system description

(2) Riser Diagram

(3) Floor plan layout showing locations of all devices, control equipment and supervising station and shared communications equipment with each sheet showing the following:

- (a) Point of Compass (north arrow)
- (b) A graphic representation of the scale used
- (c) Room use identification
- (d) Building features that will affect the placements of initiating devices and notification appliances

(4) Sequence of operation in either an input / output matrix or narrative form

(5) Equipment technical data sheets

(6) Manufactures published instructions, including operation and maintenance instructions.

(7) Battery capacity and safety margin calculations (where batteries are provided)

(8) Voltage drop calculations for notification appliance circuits

(9) Mounting height elevation for wall-mounted devices and appliances

(10) Where occupant notification is required, minimum sound pressure levels that must be produced by the audible notification appliances in applicable covered areas.

(11) Locations of alarm notification appliances, inlcuding candela ratings for visual alarm notification appliances

(12) Pathway diagrams between the control unit and shared communications equipment within the protected premises

(13) Completed record of completion in accordance with 7.5.6

(14) For software based systems a copy of site specific software including specific instructions on how to obtain the means of system and software access.

(15) Record (as-builts) drawings

(16) Records, record retention and record maintenance in accordance with Section 7.7

(17) Completed record of inspection and testing in accordance with section 7.6.6

## All shop drawings Installation Documentation — NFPA 72 7.4

(1) Name of protected premises, owner, and occupant (where applicable)

(2) name if installer or contractor

(3) Location of protected premises

(4) Device legend and symbols in accordance with NFPA 170.

(5) Date of issue and any revsion dates.

## Floor Plan Drawings: — NFPA 72 7.4.5

(1) Floor or level identifcation

(2) Point of compass (indication of North)

(3) graphic scale

(4) All walls and doors

(5) All partitions extending to within 15 percent of the ceiling height (where applicable and when known)

(6) Room and area descriptions

(7) System devices / component locations

(8) Locations of fire alarm primary power disconnecting means.

(9) Locations of monitor / control interfaces to other systems

(10) System riser locations

(11) Type and number of system components / devices on each circuit on each floor or level.

(12) Type and quantity of conductors and conduit (if used) for each circuit

(13) identification of any ceiling over 10' ft in ehight where automatic fire detection is being proposed

(14) Details of ceiling geometries, including beams and solid joists, whre automatic fire detection is being propsoed

(15) Where known, acoustic propoerties of spaces

(16) Pathway class designation in accordance with Section 12.3, including the location of any end of the line supervisory or power devices that are required by the pathway class

(17) Pathway survivability level designation in accordance with Section 12.4

## System Riser Diagrams: NFPA 72 7.4.6

(1) General arrangement of the system in building cross section

(2) Number of riser

(3) Type and number of circuits in each riser

(4) Type and number of system components/devices on wach circuit, on each floor or level.

(5) Number of conductors for each circuit

(6) Pathway class designation in accordance with Section 12.3, including the location of any end of the line supervisory or power devices that are required by the pathway class

(7) Pathway survivability level designation in accordance with Section 12.4

## Control Unit Diagrams: NFPA 72 7.4.7

(1) Identification of the control equipment depicated

(2) Location(s) of control equipment

(3) All field wiring terminals and terminal identifications

(4) All circuits connected to field wiring terminals and circuit identifications

(5) All indicators and manual controls

(6) Field connections to supervising station signaling equipment, releasing equipment, or emergency safety control interfaces where provided.

## Typical Wiring Diagrams: NFPA 72 7.4.8

Typical wiring diagrmas shall be provided for all initiating devices, notification appliances, rmeote indicators, annunciators, remote test stations and end of the line and power supervisory devices.

## Matrix of operation Worksheet: NFPA 72 7.4.9

A narrative description or input and output matrix of operations shall be provided to describe the sequence of operation.

## System Calculations: NFPA 72 7.4.10

(1) Battery calculations - standby power supply shall be 24 hours for all systems monitored by a third party offsite.

(2) Notification appliance circuit voltage drop calculations.

(3) Other required calculations, such as line resisitance calculations where required.

## Power Supplies: Primary, Secondary Batteries: NFPA 72 10.6, 10.6.5, 10.6.7, 10.6.10

(1) The branch circuit supply shall be supplied by the following: Electric Utility - 10.6.5.1.1

(2) Circuit Identification and Accessibilty: the branch circuit shall be idenitified at the control unit. For fire alarm or signaling systems the circuit disconnecting means shall have a red marking. - 10.6.5.2

(3) The circuit disconnecting means shall be protected against damage. - 10.6.5.3

(4) Circuit Breaker lock - Where a circuit brekaer is the disconnecting means an approved breaker locking device shall be installed. - 10.6.5.4

(5) Over current protection - An over current protection device shall be provided in accordance with NFPA 70. - 10.6.5.5

(6) Secondary power Supply - The secondary power supply shall have sufficient capacity to operate the system under nonalarm condition for a minimum of evacuation 24 hours and at the end of the period shall be capable of operating all alarm notification appliances used for for an emergency for 5 minutes.

(7) Battery calculations shall include a minimum of 20% percent safety margin above the calculated amp-hour capacity required. -10.6.7.2.14

(8) Batteries shall be marked with the month and year of manufacture on each battery. - 10.6.10.1.1

## COMMENTS: