



HOW TO OBTAIN A PERMIT FOR Fire Alarm Systems

1222 FIRST AVENUE, MS 401 SAN DIEGO, CA 92101-4101

This Information Bulletin covers the procedures for obtaining a permit to install a fire alarm system and applies to both required and voluntary fire alarm systems. All fire alarm systems shall be designed and installed in accordance with the California Fire Code (CFC), California Electrical Code (CEC) and the National Fire Alarm and Signaling Code (NFPA 72) as amended by Chapter 80 of the CFC.

I. SUBMITTAL REQUIREMENTS

The following plans and documents shall be provided when applying for a fire alarm permit.

A. FORMS

Provide one copy of:

1. General Application (DS-3032).
2. Fire permit worksheet (see Page 4 on Information Bulletin 506, Fire Permit Fees).

B. PLANS

1. Panel Replacements

For Fire Alarm Control Unit (FACU) replacement, see the requirements listed below for all other fire alarm system submittals and Technical Bulletin FIRE-9-2, Requirements for Fire Alarm Control Panels for additional information.

2. Tenant Improvements (TIs)

Projects involving the replacement, movement, or addition of up to four (4) fire alarm devices or appliances in an existing fire alarm system will not require submittal of fire alarm plans, calculations and manufacturer's data sheets provided that the design meets the conditions specified in Sections II or III of "Affidavit for Fire Alarm Alterations or Tenant Improvements (TIs)" (DS-163). The General Contractor or Fire Alarm Contractor must provide two complete (2) copies of DS-163.

Documents Referenced in this Information Bulletin

- San Diego Municipal Code, ([SDMC](#))
- California Electrical Code, ([CEC](#))
- California Fire Code, ([CFC](#))
- [Information Bulletin 506](#), Fire Permit Fees
- Request for Fire Inspection, [DS-162](#)
- Affidavit for Fire Alarm Alterations or Tenant Improvements (TIs), [DS-163](#)
- [Technical Bulletin FIRE-9-2](#), Requirements for Fire Alarm Control Panels
- General Application, [DS-3032](#)
- National Fire Alarm and Signaling Code, ([NFPA 72](#))

All other TIs must provide plans as required for all other fire alarm systems, as listed in the section below.

3. All Other Fire Alarm System Submittals

Provide two copies of the fire alarm plans with the following information, as applicable:

- a. All information required in California Fire Code (CFC) and NFPA 72.
- b. Associated building permit number. This is required when fire alarm plans are being submitted separately from building construction plans and are required to be submitted and inspected prior to final inspection of the associated building permits.
- c. Stamp and signature by the designer of record (installing contractor or California licensed Fire Protection or Electrical Engineer). The designer's name and license number must be clearly provided on the plans. The designer of record must be responsible for the entire project design.
- d. Tenant/owner information.
- e. Scope of work including area of work, purpose of work, phasing, and type of fire alarm system.

- f. Occupancy classification for each use.
- g. Symbol legend for each component with description of each component, make/model, mounting criteria, and California State Fire Marshal (CSFM) listing numbers.
- h. Monitoring station information.
- i. Wiring and conduit schedule including the circuit zone designations, circuit types, type and size of wire/cable, type and size of conduit for each circuit.
- j. Survivability requirements.
- k. Voice intelligibility requirements.
- l. Mounting heights for all panels, devices and appliances.
- m. Point to point wiring connections for all alarm equipment and fire safety functions.
- n. Elevator recall and shunt trip, control power supervision.
- o. Locations of air handler units and smoke/fire dampers and the methods used for shutdown.
- p. Riser diagram with a graphic illustration of the alarm zones and circuit types, the location of EOL's and resistance values, fire alarm panels, symbols for all devices/ appliances, AHUs and duct detectors.
- q. For high-rise structures, show connections between the emergency/standby power switchboards and all alarm panels.
- r. Sequence of operations for the subject building. If smoke control is provided, a separate sequence of operations for smoke control functions is required.
- s. Smoke control firefighter's smoke control panel graphic design.

C. CALCULATIONS

Provide the following calculations per NFPA 72 for all fire alarm submittals:

1. Battery calculations for the FACU and each sub-panel with a battery standby.
2. Voltage drop calculations for all notification circuits in the FACU and each sub-panel with a battery backup. Ac-

count for each notification appliance's voltage draw and provide total draw and drop for each circuit.

D. MANUFACTURER'S DATA SHEETS

Provide one copy of manufacturer's data sheets for all portions of the fire alarm system including, but not limited to:

1. Initiating devices (i.e. smoke detectors, manual pull stations, duct detectors).
2. Notification appliances (strobes, horns, speakers, etc.) with specific current draws highlighted.
3. Booster panels and extender panels.
4. Fire alarm control units (new or existing).

Where multiple devices/appliances are listed on the data sheet, the specified device/appliance must be highlighted. Manufacturer's data sheets must include current California State Fire Marshal (CSFM) listing numbers or provide CSFM listing sheets.

II. OPTIONS FOR REVIEW PROCESS

For all fire alarm projects, please check in on the 3rd floor of the Development Services Center, located at 1222 First Avenue. The following options are available for the review of fire alarm systems.

A. OVER-THE-COUNTER REVIEW

The following types of projects can be reviewed over-the-counter:

1. Office tenant improvements (TIs) involving no more than 10,000 square feet of work.
2. Projects utilizing the "Affidavit for Fire Alarm Alterations or Tenant Improvements (TIs)" (DS-163).
3. FACU upgrades/replacements only, no new appliances or devices added.
4. Sprinkler monitoring.

B. SUBMITTED REVIEW

All other projects must be submitted for plan review.

III. FEES

Fire alarm fees will be charged based upon Information Bulletin 506, Fire Permit Fees. Plan check fees are required to be paid prior to review unless otherwise indicated below. For your convenience, DSD offers on-line payments through OpenDSD. Payment may also be made in person by cash, check, ATM card, Visa or MasterCard. Checks shall be in the exact amount, drawn on US banks, and made payable to the "City Treasurer." Due to space constraints, we are unable to store submitted plans awaiting fee payment.

Please note that plan check fees and other administrative fees are non-refundable. See Refund Policy noted within Refund Application Form DS-721 for additional refund information.

IV. INSPECTIONS

To schedule inspections, use form DS-162 "Request for Fire Inspection". Required inspections may be Fire Alarm Rough, fire Alarm Pre-Final and Fire Alarm Final.

A Fire Alarm Final is required for all buildings with fire alarm systems regardless of the number of devices/appliances added or relocated.