

BURNEY FIRE PROTECTION DISTRICT



37072 Main Street
Burney, Ca 96013
(530) 335-2212

Standard Number

F-5

Revision Date:
July 23, 2026

FIRE PREVENTION STANDARD

DESIGN, INSTALLATION AND MAINTENANCE OF FIRE ALARM SYSTEMS

AUTHORITY

Sections 102.9, 103, and 104.1 of the 2025 California Fire Code (CFC) and Ordinance 2026-01 of the Burney Fire Protection District Fire Code (Fire Code) state that the Fire Official of the Burney Fire Protection District (BFPD) shall have the authority to adopt policies, procedures, rules, and regulations in order to clarify the application of the Fire Code and to determine requirements not specifically provided for by the Fire Code. For further requirements on this subject, see section 903 of the 2025 California Fire Code and the currently adopted edition of NFPA 13D as amended. This Standard may be modified with the approval of the Fire Official.

PURPOSE

The purpose of this Standard is to provide the minimum requirements for the design, installation and maintenance of fire alarm systems, including those that are solely for the purpose of monitoring and supervision of a fire sprinkler system.

SCOPE

This Standard applies to all new installations and modifications of existing fire alarm systems, within new construction as well as building additions and tenant improvements within existing buildings. This Standard shall take precedent where there is any conflict with NFPA 72 or the California Fire Code.

DISCLAIMER

These Standards may change without notice. Whenever applicable statutes, regulations and Standards are updated and adopted, the latest shall apply. These requirements do not exempt any individual from complying with other applicable state, county, or city codes and Standards.

SUBMITTALS

Submit an application and all required documentation to the BFPD office.

- 1) All pages of plans shall have a three-inch (3) by three-inch (3) box labeled "FOR FIRE DEPARTMENT USE ONLY" located in the bottom right corner of every page for approval stamp.
- 2) The following shall be submitted to the BFPD for approval and permit prior to performing any work on any fire alarm system:

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- a) Detailed plans describing the work to be done. (For information on what must be included on plans, see sections below in this Standard and the BFPD Plan Submittal Checklist.) **NOTE:** All fire alarm system plans shall use the symbols identified in NFPA 170, Standard for Fire Safety Emergency Symbols, current edition.
- b) NFPA 72 Record of Completion and supplemental forms, with required fields filled out (completed forms are required at time of final inspection)
- c) Manufacturer's specifications sheets (cut sheets) and current CA State Fire Marshal listings for all proposed materials and equipment.
- d) Copy of U.L. Certificate for Central Station monitoring service, if applicable.
- e) Any other important details and information as required by this Standard.
- f) Payment of all appropriate fees.

DEFINITIONS

FIRE SPRINKLER MONITORING SYSTEM - A fire alarm system that is required by the California Fire Code and generally installed for the primary purpose of monitoring waterflow and supervising control valves of a fire sprinkler system. The presence of required or non-required manual pull stations, smoke detectors, or notification devices on a Fire Sprinkler Monitoring System does not constitute an "Evacuation" type fire alarm system.

FIRE ALARM SYSTEM, EVACUATION TYPE OR "EVAC" TYPE - A fire alarm system that is required by the California Fire Code and is installed generally for the primary purposes of early detection, notification and evacuation. Systems of this type can also perform the functions of fire sprinkler water flow monitoring, elevator recall, activation or deactivation of fire doors or delayed egress, shutdown of HVAC units, and a variety of protected premises fire safety functions per NFPA 72. Manual fire alarm systems, automatic fire alarm systems, and combined manual and automatic fire alarm systems as defined by the California Fire Code fall under this definition.

Air Moving System - California Mechanical Code defines an "Air Moving System" as a system designed to provide heating, cooling, or ventilation in which one or more air-handling units are used to supply air to a common space or are drawing air from a common plenum or space.

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GENERAL

- 1) Fire alarm systems shall be designed to meet the requirements of NFPA 72, BFPD Fire Standards, the currently adopted editions of the California Building Code (CBC), California Fire Code (CFC) with local amendments, National Electrical Code (NEC), and other applicable codes.
- 2) All installers of fire alarm systems shall be qualified as listed below. Failure to show proper credentials may result in a failed inspection. All installers shall possess a State of California C-10 contractor's license (or be employed by the C-10 contractor) and be factory trained and certified for a specific manufacturer and brand of equipment, and shall have either one of the following certifications:
 - a) An Electrician Certification-Fire/Life Safety Technician, issued by the State of California Department of Industrial Relations, Division of Labor Standards Enforcement ("blue card") as required by the Fire Code.
 - b) A minimum of a Level II NICET certification in Fire Alarm Systems, as required by the Fire Code.
- 3) All fire protection or detection systems listed below that are installed within buildings containing an evacuation type fire alarm system, and that perform one or more of the following functions, shall be interconnected to the building fire alarm system. Such interconnection and functionality shall be shown on the fire alarm system plans and demonstrated at field inspection:
 - a. Gas detection systems
 - b. Kitchen hood and duct extinguishing systems
 - c. Other fixed fire suppression systems, such as dry powder or clean agent
 - d. Emergency warning systems, such as those for hazardous materials release
 - e. Duct smoke detectors
 - f. Other systems as required by applicable codes or by the Fire Code
- 4) Fire alarm systems shall not be integrated or combined with security systems or burglar alarm systems. Remote annunciators used in fire alarm systems shall not be used to annunciate security alarm or any other building system signals unless listed for this use and approved by the Fire Code.
- 5) When required by the Fire Code for special hazard occupancies, newly installed fire alarm systems that require notification appliances throughout the building (evacuation type) shall be listed and certified by Underwriters Laboratories (U.L.) for Central Station service per the requirements of

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NFPA 72. A valid completed Central Station certificate for the system, listing the protected premises, shall be presented to the Fire Code at final inspection.

- 6) Fire alarm panels that have an addressable FACP shall provide specific details for devices in relation to their installed locations. For example, room number, room name, unit number, north hallway, etc. This information shall be reflected accordingly when reporting to Central Station and Fire Dispatch Center.
- 7) All fire alarm point numbers, circuits and zones, shall be identified in a list format and provided on plans.
- 8) Initiation of a fire dispatch call from alarm monitoring facility shall use 530-225-2411.

FIRE ALARM CONTROL PANELS

- 1) Fire Alarm Control Panels (FACP's,) remote annunciators, and auxiliary power supply panels shall be installed in areas that are easily accessible to BFPD personnel, with thirty-six (36) inches of clear space in front of the equipment. The FACP is to be located on the first floor. The top of the FACP or annunciator panels shall be mounted sixty (60) inches to seventy-two (72) inches above finished floor unless specifically approved by the Fire Code. **(See DIAGRAM F-5.1)**
- 2) Where evacuation fire alarm systems are installed, buildings with two or more FACP's that are used to monitor separate areas of the same building shall be installed so as to operate as one fire alarm system, with sub systems reporting to only one main FACP (2022 NFPA 72, sec 23.8.2.2). Information shall be placed in or near each sub FACP and the main FACP showing what specific area(s) of the building are protected by each system or sub-system, as approved by the Fire Code. Upon a waterflow or smoke/heat detector activation, only the main FACP shall transmit signals to the central station.
- 3) All FACP's shall be locked or otherwise secured to prevent unauthorized access. A key to each FACP shall be placed in the key (Knox®) box on the exterior of the building or other easily identified secured location. **(See BFPD Standard A-4)**
- 4) Instructions for silencing and resetting the fire alarm system (restoring to a "normal" condition) shall be placed securely inside the cabinet door of each FACP, or in a location approved by the Fire Code.
- 5) When FACP's are installed in an area other than in a room directly adjacent to the main exit of the building, a remote annunciator shall be installed within ten (10) feet of such main exit, such as in an entry way or lobby, or in another easily accessible location as approved by the Fire Code.

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- 6) When a fire alarm system is installed in conjunction with a fire sprinkler system, in buildings constructed to protect multiple tenant spaces or dwelling units, the Fire Alarm Control Panel shall be co-located with the fire sprinkler system risers inside a minimum 4' X 4' room, and accessible by means of an exterior access door as specified in BFPD Standard F-1. A sign indicating "FIRE ALARM CONTROL PANEL INSIDE" shall be installed on the access door. {See Diagram F-5.2.} The sign shall be of a durable material, have minimum one (1) inch block letters on a contrasting background, and shall be securely mounted.

SMOKE AND HEAT DETECTORS

- 1) Smoke detectors and heat detectors shall be listed by the California State Fire Marshal (CSFM) for their use and specific application.
- 2) Duct smoke detectors used for the purposes of HVAC unit(s) shutdown as required by the California Mechanical Code (CMC), shall be the air-sampling type only. Such detectors shall be monitored for integrity by the fire alarm system and shall initiate a supervisory signal only. A manual remote test switch for each detector shall be provided for testing as required by NFPA 72 and the CMC, in a location approved by the Fire Code.
- 3) Individual duct smoke detectors used for shutdown of HVAC units shall be interconnected so that electrical power to all other individual air handling units within the same air moving system is interrupted (AKA Global shutdown) upon the activation of any individual detector within that system.
- 4) In occupancies not required to be equipped with a manual or automatic evacuation type fire alarm system, actuation of a smoke detector shall activate a visible and audible signal at a location approved by the Fire Code. If remote annunciators are used to meet the intent of this requirement, these devices shall be located in an area that is normally attended and easily accessible.

MANUAL PULL STATIONS

- 1) When required, manual pull stations shall be placed within five feet of exits per the requirements of the CFC and NFPA 72. At no time shall a pull station be placed in a utility room or other location not accessible to the public unless specifically approved by the Fire Code.
- 2) Manual pull stations which are subject to false alarms may require the installation of a tamper resistant device acceptable to the Fire Code.

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FIRE SPRINKLER MONITORING SYSTEMS

- 1) Fire sprinkler monitoring systems that are required only for the purpose of monitoring fire sprinkler water flow and for supervision of control valves shall comply with the requirements of this section as well as other applicable codes and standards.
- 2) Fire sprinkler monitoring systems shall not be required to be interconnected to fixed hood and duct extinguishing systems installed in accordance with NFPA 17A.
- 3) Fire sprinkler monitoring systems shall include an exterior audible alarm as required by the California Fire Code.
- 4) Fire sprinkler monitoring systems shall include a remote annunciator when the FACP is in a normally unoccupied location or not within 10 feet of a main exit of the building (See FIRE ALARM CONTROL PANELS section above.)
- 5) Each FACP in a fire sprinkler monitoring system shall be protected by a smoke detector. The smoke detector shall be installed per the CSFM listing and NFPA 72.
- 6) Other equipment, such as notification devices, initiating devices, auxiliary system inputs or relays to other fire protection systems or actuation devices may be connected on a voluntary basis to fire sprinkler monitoring systems with the approval of the Fire Code. When such other equipment is connected, it shall not be considered a full evacuation fire alarm system. When in doubt, the Fire Code may require a formal letter of intent to be submitted by the building owner in order to verify the type of fire alarm system proposed.

COMMUNICATORS

- 1) All alarm communication devices shall be listed by the State Fire Marshal for their use. The installation of cellular communicators shall be in accordance with NFPA 72 and shall require a BFPD permit prior to installation on new or existing fire alarm systems.

INSPECTIONS

- 1) All fire alarm systems are required to be inspected and tested by the Fire Code prior to final approval. The contractor and installer of record shall contact the appropriate BFPD office at least forty-eight (48) hours prior to requesting an inspection and shall notify the BFPD office a minimum of twenty-four (24) hours for any cancellation of inspections.
- 2) An approved, hard copy of the plans (paper), required job card(s) and completion certificate shall be onsite at the time of inspection.

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3) The following inspections shall be required for any work done on fire alarm systems:

a. **PRE-WIRE (OR 'ROUGH') INSPECTION:**

- i. The number, types, and locations of all control equipment, initiating and notification devices shall be per the approved plans.
- ii. All electrical boxes shall be marked, dedicated power supply and all conduit in place where required.

b. **FINAL INSPECTION:**

- i. All system components shall be tested by the installer prior to scheduling an inspection. The Fire Code shall have the authority to document the inspection as "FAILED" when such "pre-testing" has not been done.
- ii. The correct number and type of batteries shall be present. A full 24-hour battery test will be performed when required by the Fire Code.
- iii. A full function test of all devices shall be conducted in the presence of the Fire Code. All tools and equipment (i.e. ladder, canned smoke, decibel meter, etc.) shall be provided by the contractor. The system shall be tested both with monitoring company in test mode as well as BFPD dispatch in test mode.
- iv. All fire safety functions and other interfaced equipment, such as waterflow, HVAC shutdown, elevator recall, fire door activation etc. shall be tested. Zoning and programming of all devices and functions shall be in accordance with the sequence of operations and the approved plans.
- v. Digital Alarm Communicating Transmitters (DACTs), Radio Frequency (RF) and other communications equipment shall be tested for reliability and transmission of appropriate signals.
- vi. All power supply circuits shall be labeled per NFPA 72 and tested.
- vii. All FACPs, power supplies, annunciators, and other control equipment shall be in place, secured, and properly labeled with signage per this Standard and NFPA 72.
- viii. Records of Completion, UL Central Station certificates, and contracts for the maintenance and monitoring shall be provided. All required documentation shall be left in the Document Cabinet (as per NFPA 72).

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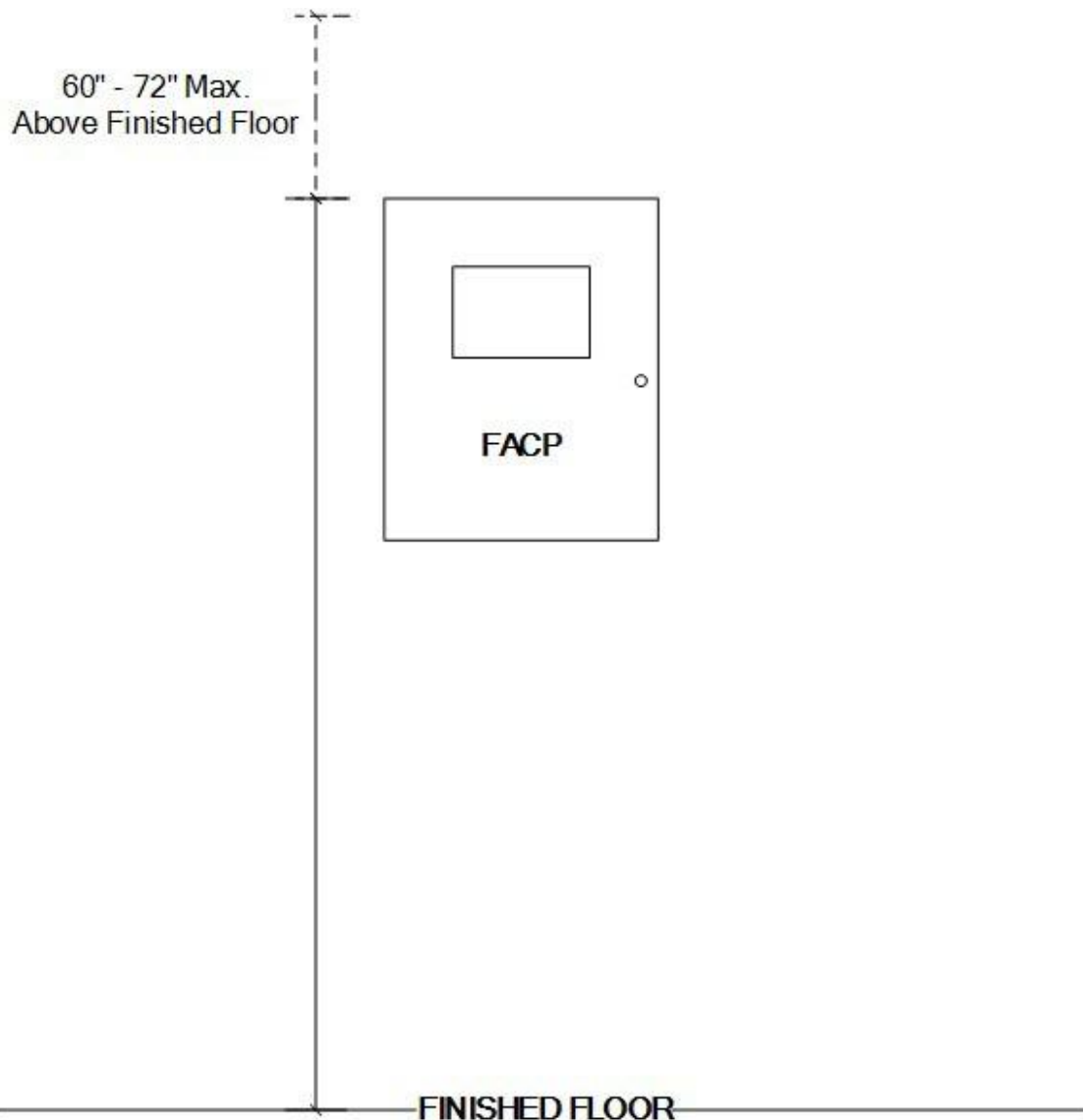
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- ix. Any design changes or other field changes to the system as represented on the approved plans will require revised or "as-built" drawings to be submitted and approved by the Fire Code prior to further inspections occurring.

FIGURE F-5.1: FIRE ALARM CONTROL PANEL DETAILS



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FIGURE F-5.2: FIRE ALARM CONTROL PANEL SIGNAGE

