

2022 Plan Review Reminder List - Fire Alarm

Applicable Codes and Standards

CBC 2022, CEC 2022, CFC 2022

NFPA 72 2022

Instructions: The following items are to be verified for completeness prior to submitting to OSHPD for plan review.

| <u>CHK</u> | <u>NA</u> | I. Submittal Requirements | |
|--------------------------|--------------------------|--|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Two (2) sets of plans and calculations or a submittal in an acceptable electronic format | CAC, Sec. 7-113. (a) 2 |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Two (2) sets of equipment technical data sheets or a submittal of this information in an acceptable electronic format (cut sheets, CSFM listing and product information) | CAC, Sec. 7-113. (a) 2, NFPA 72, Sec. 7.2.1 (5) & (6) |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Transmittal letter with name, address, phone, email, fax and license number of fire alarm contractor | CAC, Sec. 7-115 [c] 5 |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Construction documents for fire alarm systems shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of the California Fire Code, the California Building Code, and relevant laws, ordinances, rules and regulations, as determined by the fire code official. | CFC, Sec. 907.1.1 |
| | | | |
| <u>CHK</u> | <u>NA</u> | II. General Information - Working Plans | |
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Name of owner and occupant | NFPA 72, Sec. 7.4.4 (1) |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Location, including street address | NFPA 72, Sec. 7.4.4 (3) |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Scope of work. Indicate if part of a remodel or new building project or a separate fire alarm project. | CFC, Sec. 907.1.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Floor plan indicating location of fire alarm initiating devices | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.4.5 (2)(g) |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Floor plan indicating location of notification devices including candela rating for visible alarm devices | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.4.5 (2)(g) |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Type and number of devices on each circuit on each floor | NFPA 72, Sec. 7.4.5 (2)(k) |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Riser diagram | NFPA 72, Sec. 7.4.6 |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. "Point to Point" diagram and wire legend | NFPA 72, Sec. 7.4.7 (4) |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Wiring diagrams of devices, appliances & indicators | NFPA 72, Sec. 7.4.7 (4) |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Location of partitions and fire/smoke walls (include fire ratings of walls) | NFPA 72, Sec. 7.4.5 (2)(d) |
| <input type="checkbox"/> | <input type="checkbox"/> | 11. Make, model, type, number, and voltage of storage batteries | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.2.1 (7) |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Battery calculations | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.4.10 (1) |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Voltage drop calculations - See also OSHPD PIN 63 | CFC, Sec. 907.1.2, NFPA 72, Secs. 7.4.10 (2) & 7.2.1 (8) |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. Accurate legend of symbols for all new and existing fire alarm devices. All plans and shop drawings shall use symbols approved by the agency. | CFC, Sec. 907.1.2 |
| <input type="checkbox"/> | <input type="checkbox"/> | 15. Elevation detail of manual pull stations | CFC, Secs. 907.1.1 & 907.4.2.2, NFPA 72, Sec. 7.2.1 (9) |
| <input type="checkbox"/> | <input type="checkbox"/> | 16. Elevation detail of wall mounted visual alarm signaling devices | CFC, Sec. 907.1.1, NFPA 72, Secs. 7.2.1 (9) & 18.5.5 |
| <input type="checkbox"/> | <input type="checkbox"/> | 17. Type of wiring used, including gauge and wire counts and conduit size | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.4.5 (2)(l), CEC, Sec. 760 |

| CHK | NA | II. General Information - Working Plans (Continued) | |
|--------------------------|--------------------------|--|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 18. Details of through penetration and membrane penetration fire stop systems | CFC, Sec. 907.1.1, CBC, Sec. 714.4 |
| <input type="checkbox"/> | <input type="checkbox"/> | 19. Floor plan identifying rooms and their uses | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.2.1 (3) (c) & 7.4.5 (2)(f) |
| <input type="checkbox"/> | <input type="checkbox"/> | 20. Ceiling details, reflected ceiling plans and interior elevations depicting irregular ceilings and identifying ceiling heights | CFC, Sec. 907.1.2, NFPA 72, Secs. 7.4.5 (2)(m) & (n) |
| <input type="checkbox"/> | <input type="checkbox"/> | 21. Location of supply and return air registers | CFC, Sec. 907.1.1, NFPA 72, Sec. 7.2.1 (3) (d) |
| <input type="checkbox"/> | <input type="checkbox"/> | 22. Details on support and anchorage of any fire alarm equipment weighing more than 20 pounds | CBC, Sec.1617A.1.18 ASCE 7, Sec. 13.1.4, Exemption 2. |
| <input type="checkbox"/> | <input type="checkbox"/> | 23. Sequence of operation/events when alarm system is activated | NFPA 72, Sec. 7.2.1(4) & 7.4.9 |
| <input type="checkbox"/> | <input type="checkbox"/> | 24. Compass direction with north arrow and clearly marked scale | NFPA 72, Sec. 7.2.1(3), (a) & (b) |
| <input type="checkbox"/> | <input type="checkbox"/> | 25. Location of FACP, annunciators, transponders and notification power supplies | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.4.5 (2)(g), (h) & (i) |
| <input type="checkbox"/> | <input type="checkbox"/> | 26. Location of automatic extinguishing systems including range hood and clean agent fire suppression systems, if applicable | CFC, Sec. 904.3.5 & 907.1.2, NFPA 72, Secs. 7.4.5 (2)(g), (i) & (k), 23.8.5.7 & 23.8.5.8 |
| <input type="checkbox"/> | <input type="checkbox"/> | 27. Location of fire sprinkler PIV, flow, and tamper supervision, if applicable | CFC, Sec. 903.4 & 907.1.2, NFPA 72, Secs. 7.4.5 (2)(g), (i) & (k), 23.8.5.5 & 23.8.5.6 |
| <input type="checkbox"/> | <input type="checkbox"/> | 28. Stamp and signature of the designer in responsible charge, if applicable | CAC, Sec. 7-115 (a) & (b) |
| <input type="checkbox"/> | <input type="checkbox"/> | 29. Location of primary power for fire alarm panel. Breakers shall be locked open and marked "Fire Alarm" | CFC, Sec. 907.1.2, NFPA 72, Secs. 7.4.5 (2)(h), 10.6.5.2.2 & 10.6.5.2.3. |
| <input type="checkbox"/> | <input type="checkbox"/> | 30. Location and type of secondary power supply, if applicable | CFC, Sec. 907.1.1, NFPA 72, Secs. 7.4.5 (2)(g), 7.4.7 & 10.6.7 |
| <input type="checkbox"/> | <input type="checkbox"/> | 31. Circuit class and survivability level for initiating and notification loops/circuits | CFC, Sec. 907.1.1, NFPA 72, Secs. 7.4.5 (2)(q) & 7.4.6 (2)(c) |
| <input type="checkbox"/> | <input type="checkbox"/> | 32. Indicate location of devices for activation of elevator recall and shut down | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.4.5 (2)(g), (i) & (k) & 23.15.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | 33. Indicate location of motorized fire/smoke dampers activated by fire alarm devices | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.4.5 (2)(g), (i) & (k) & 23.15.2 |
| CHK | NA | III. Additional Information | |
| <input type="checkbox"/> | <input type="checkbox"/> | 1. General Notes | CFC, Sec. 907.1.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Basic building information including occupancy group, type of construction, number of stories, floor area and presence of fire sprinkler protection | CFC, Sec. 907.1.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Indication of applicable editions of NFPA 72, CAC, CBC, CEC, CFC & CMC | CFC, Sec. 907.1.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Reference CBC Amendments to NFPA 72 in CBC Chapter 35 | CFC, Sec. 907.1.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Reference OSHPD Policy Intent and Code Application Notices | CFC, Sec. 907.1.1 |

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|--------------------------|--------------------------|--|---|
| CHK | NA | III. Additional Information (Continued) | |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Local fire authority fire alarm annunciation approval - OSHPD form available | CFC, Sec. 907.6.4.1.1 |
| CHK | NA | IV. Equipment Submittals | |
| <input type="checkbox"/> | <input type="checkbox"/> | 1. California State Fire Marshal listing sheets indicating expiration date for all listed components | CFC, Sec. 907.1.3 |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Manufacturers specification sheets for all fire alarm equipment | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.2.1 (5) & (6) |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Monitoring company information including UL listing number and certification | CFC, Sec. 907.1.2, NFPA 72, Sec. 7.5.9, 7.5.10 |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Anchorage details for fire alarm control panels weighing more than 20 pounds | CBC, Sec. 1617A.1.18 ASCE 7, Sec. 13.1.4, Exemption 2. |

APPLICABLE CODES AND STANDARDS

2022 California Administrative Code - Part 1, Title 24, CCR

**2022 California Building Code – Part 2, Title 24, CCR
(2021 International Building Code and 2022 California Amendments)**

**2022 California Electrical Code – Part 3, Title 24, CCR
(2020 National Electrical Code and 2022 California Amendments)**

**2022 California Mechanical Code - Part 4, Title 24, CCR
(2021 Uniform Mechanical Code and 2022 California Amendments)**

**2022 California Fire Code – Part 9, Title 24, CCR
(2021 International Fire Code and 2022 California Amendments)**

**National Fire Protection Association (NFPA)
NFPA 72 *National Fire Alarm and Signaling Code*, 2022 Edition**

OSHPD Reference Material Available on the Internet

OSHPD Fire and Life Safety Forms

<https://hcai.ca.gov/construction-finance/codes-and-regulations/#PINs>

<https://hcai.ca.gov/construction-finance/codes-and-regulations/#CANs>

OSHPD Project Review Status

<https://hcai.ca.gov/construction-finance/resources/project-status-reports/>

OSHPD Public Use Forms

<https://hcai.ca.gov/construction-finance/resources/forms-applications-reminder->