

Fire Inspector's Guide

H-Occupancies

I. EXTINGUISHERS

- A. One Class 2-A rated fire extinguisher shall be provided for each 6000 square feet (560 m²) of light hazard fuel load or one Class 2-A extinguisher for each 3000 square feet (280 m²) of ordinary hazard fuel load. Travel distance shall not exceed 75 feet (25 m).CFC Sec. 906.3
- B. Additional Class A extinguishers shall be provided where required by Table 906.1 of the CFC.CFC Sec. 906.1
- C. A 10-B rated extinguisher is required within 30 feet (10 m), or a 20-B extinguisher is required within 50 feet (16.4 m), of Ordinary (moderate) flammable liquid hazards.CFC Sec. 906.3
- D. A 40-B rated extinguisher is required within 30 feet (10 m), or a 80-B extinguisher is required within 50 feet (16.4 m), of extra (high) flammable liquids hazards.CFC Sec. 906.3
- E. Extinguisher shall be manually inspected at least monthly by the building owner or occupant, or electronically monitored.T19 Sec. 574.1
- F. Extinguishers shall be subjected to maintenance annually as described in Title 19 CCR. With exceptions, this type of service does not require internal examination of the extinguisher.T19 Sec. 575.1
- G. Fire extinguisher shall not be obstructed or obscured for view.CFC Sec 906.6

II. MEANS OF EGRESS

- A. Every portion of a Group H-1, H-2 or H-3 occupancy having an occupant load more than 3 persons shall be served by at least two exits.CFC Sec. 1015.1
- B. The maximum length of exit access travel, measured from the most remote point to the entrance to an exit shall be as follows:CFC Sec. 1016.1
 - H-1 75 feet (22.9 m)
 - H-2 100 feet (30.5 m)
 - H-3 150 feet (45.7 m)
 - H-4 175 feet (53.3 m)
 - H-5 200 feet (61 m)
- C. Egress doors shall swing in the direction of egress travel.CFC Sec. 1008.1.2
- D. Doors shall not be provided with a latch or lock unless it is panic hardware or fire exit hardware.CFC Sec. 1008.1.9
- E. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied.CFC Sec. 1006.1
- F. In the event of power supply failure, an emergency electrical system shall automatically illuminate aisles, stairways, corridors and other egress components in areas that require two or more exits.CFC Sec. 1006.3
- G. Exit signs shall be provided where two or more exits are required from room or area.....CFC Sec. 1011.1

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MEANS OF EGRESS (CONTINUED)

- H. Exit signs shall be internally or externally illuminated at all times; signs shall be connected to an emergency power system that provides illumination for not less than 90 minutes in case of primary power loss.CFC Sec 1011.5.3
- I. The common path of egress travel shall not exceed 25 feet in H-1, H-2 and H-2 occupancies and 75 feet in H-4 and H-5 occupancies.CFC Sec. 1014.3
- J. Manually operated flush bolts or surface bolts are not permitted.CFC Sec. 1008.1.8.4
- K. Required exit accesses, exits or exit discharges shall be continuously maintained free from obstructions or impediments to full instant use in the case of fire or other emergency.....CFC Sec. 1028.2
- L. Corridors shall not be less than 44 inches (1120 mm) in width for required occupant capacity of 50 or more, and 36 inches (914 mm) for a required occupant capacity of less than 50.....CFC Sec. 1017.2
- M. Corridors shall have a fire resistance rating of one hour.CFC Sec. 1017.1

III. HOUSEKEEPING

- A. Storage of combustible materials in buildings shall be orderly, with storage separated from heating devices by distance or shielding so that ignition cannot occur.....CFC Sec. 315.2
- B. Combustible waste containers larger than 40 gallons (0.15 m³) shall be constructed of noncombustible material or approved combustible material and provided with a lid.CFC Sec. 304.3
- C. Combustible waste containers larger than 1.5 cubic yards (1.15 m³) shall not be stored in buildings or placed within 5 feet (1524 mm) of combustible walls, openings or combustible roof eave lines.CFC Sec. 304.3
- D. Smoking shall be prohibited where conditions are such as to make smoking a hazard, and in spaces where flammable or combustible materials are stored or handled.CFC Sec. 310.2
- E. Smoking shall be prohibited in flammable vapor areas and hazardous materials storage rooms associated with flammable finish processes.CFC Sec. 1503.2.6
- F. Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposal container.CFC Sec. 304.3.1
- G. Combustible material shall not be stored in boiler rooms, mechanical rooms or electrical equipment rooms.CFC Sec. 315.2.3
- H. Storage shall be maintained 2 feet (610 mm) or more below the ceiling in nonsprinklered areas of buildings or a minimum of 18 inches (457 mm) below sprinkler deflectors in sprinklered areas of buildings.CFC Sec. 315.2.1
- I. Storage of hazardous production materials in fabrication areas shall be within approved or listed storage cabinets, gas cabinets or within a workstation.CFC Sec. 1804.2

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IV. ELECTRICAL

- A. Temporary wiring is allowed for a period not to exceed 90 days; such wiring is allowed for longer periods for construction, remodeling or repair of buildings or equipment.CFC Sec.605.9
- B. Extension cords and flexible cords shall not be used as a substitute for permanent wiring.CFC Sec. 605.5
- C. Multiplug adaptors, such as cube adaptors, unfused plug strips or other such devices not complying with the California Electrical Code shall be prohibited.CFC Sec. 605.4
- D. Relocatable power taps shall be permitted if of the grounded type, equipped with overcurrent protection and listed in accordance with UL 1363.CFC Sec. 605.4.1
- E. Relocatable power taps shall be directly connected to a permanently installed receptacle.CFC Sec. 605.4.2
- F. Appliance cords and extensions cords shall be maintained in good condition without splices, deterioration or damage.CFC Sec. 605.5.3
- G. Power taps and extension cords shall not be affixed to structures, extended through walls, ceilings or floors, or under doors or floor coverings, nor subject to physical impact.CFC Sec. 605.4.3
- H. Electrical wiring in areas where flammable liquids are stored, handled, dispensed or mixed shall comply with Class I electrical installations as described in Table 3403.1.1 of the Fire Code.CFC Sec. 3403.1
- I. A working space of not less than 30 inches (762 mm) in width, 36 inches (914 mm) in depth and 78 inches (1981 mm) in height shall be provided in front of electrical service equipment. Storage is prohibited within the designated working space.CFC Sec. 605.3
- J. Electrical equipment and devices within 5 feet (1.5 m) of workstations in which flammable or pyrophoric gases or flammable liquids are used shall comply with the California Electrical Code for Class 1 Division 2 hazardous locations.CFC Sec. 1803.7.2
- K. Electrical wiring and equipment in flammable vapor areas shall be of an explosion proof type approved for use in such hazardous locations. Such areas shall be considered to be Class I, Division 1 or Class II, Division 1 hazardous locations.CFC Sec. 1053.2.1

V. FLAMMABLE & COMBUSTIBLE LIQUIDS

- A. An operational permit is required to conduct a spraying or dipping operation utilizing flammable or combustible liquids or the application of combustible powders.....CFC Sec. 105.6.41
- B. Spraying-finishing operations shall be conducted in a spray room, spray booth or limited spraying space approved for such use.CFC Sec. 1504.2
- C. Ventilation of spraying areas shall be provided such that the average air velocity over the open face of the booth shall not be less than 100 feet per minute (0.5 m/s). . CFC Sec. 1504.7

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FLAMMABLE & COMBUSTIBLE LIQUIDS (CONTINUED)

- D. An operational permit is required for the storage, handling or use of more than 5 gallons (19L) of flammable liquid indoors or 10 gallons (38 L) of flammable liquid outdoors.CFC Sec. 105.6.16
- E. An operational permit is required for the storage, handling or use of more than 25 gallons (95L) of combustible liquid indoors or 60 gallons (227 L) of combustible liquid outdoors.CFC Sec. 105.6.16
- F. Class IB, IC, II and III liquids may be transferred by gravity through a self-closing or automatic-closing valve, provided spill control and secondary containment are used..CFC Sec. 3405.2.4
- G. Class I, Class II and Class IIIA liquids shall be transferred by pumps or pressured systems described in Sections 3405.2 and 3405.3 of the California Fire Code.CFC Sec 3405.2–3405.3
- H. Containers having capacity less than a 30 gallon (120L) shall not be stacked more than 3 feet (914 mm) or two containers high, whichever is greater, unless stacked on fixed shelving. CFC Sec. 3404.3.5

VI. MISCELLANEOUS

- A. An automatic sprinkler system shall be installed in Group H occupancies. ...CFC Sec. 903.2.4
- B. An operational permit is required store, handle or use hazardous production materials.CFC Sec. 105.6.2.1
- C. An approved fire safety and evacuation plan shall be prepared and maintained for Group H occupancies.CFC Sec. 404.2
- D. Smoking shall be prohibited and "No Smoking" signs provided in rooms or areas as follows:
 - 1. In rooms or areas where hazardous materials are stored or used in amounts requiring a Fire Code permit
 - 2. Within 25 feet (7.6m) of outdoor storage, dispensing or open use areas
 - 3. In areas within facilities that have been designated totally "no smoking" shall have "No smoking" signs placed at all entrances to the facility or area
 - 4. In rooms or areas where flammable or combustible hazardous materials are stored or used. CFC Sec. 2703.7
- E. A manual fire alarm system shall be provided installed in Group H-5 occupancies and in occupancies used for the manufacture of organics coatings.CFC Sec. 907.2.5
- F. A continuous gas detection system shall be provided for HPM gases when the physiological warning properties of the gas are at a higher level that the accepted permissible exposure limit (PEL) for the gas and for flammable gases.CFC 1803.13

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MISCELLANEOUS (CONTINUED)

- G. An emergency control station shall be provided on the premises at an approved location outside of semiconductor fabrication areas, and shall be continuously staffed by trained personnel.CFC Sec. 1803.1
- H. The emergency control station shall receive signals from emergency equipment and alarm and detection systems from, in part: sprinkler systems manual fire alarm systems emergency alarm systems gas-detection systems smoke detection systems emergency power systems.CFC Sec. 1803.1
- I. Storage of hazardous production material in fabrication areas shall be within storage cabinets, gas cabinets or within a workstation...CFC Sec. 1804.2.1
- J. An emergency alarm system shall be provided in service corridors, exit access corridors, exit enclosures, liquid storage rooms, HPM rooms and gas rooms of semiconductor fabrication facilities.CFC Sec. 1803.12
- K. Training shall be provided to employees during new employee orientation and at least annually thereafter; training shall involve fire prevention, evacuation training and fire safety training.CFC Sec. 406.1
- L. In addition to the requirement at (K) above, an on-site emergency response team shall be designated and an emergency drill shall be conducted not less than once every 3 months in H-5 occupancies.CFC Sec. 408.4
- M. An approved fire safety and evacuation plan shall be prepared and maintained for H occupancies.CFC Sec. 404.2
- N. Material Safety Data Sheets shall be either readily available on the premises for materials regulated by the hazardous materials chapter of the California Fire Code. ..CFC Sec. 2703.4
- O. Fire alarm systems shall be tested and maintained in working condition in accordance with Chapter 10 of NFPA 72.CFC Sec. 907.20
- P. Fire sprinkler and standpipe systems shall be inspected, tested and maintained in accordance with Chapter 5 of Title 19.T19 Sec. 904
- Q. An approved fire apparatus access road not less than 20 feet (6.6 m) wide shall be provided for access to within 150 feet (49 m) of all portions of the building.CFC Sec. 503.1.1
- R. Fire access roads shall not be obstructed in any manner, including the parking of vehicles.CFC Sec. 503.4
- S. Posts, fences, vehicles, trash, storage or other materials shall not be placed or kept near fire hydrants in a manner that would prevent such hydrants from being immediately discernible.CFC Sec. 508.5.4
- T. New and existing buildings shall have approved address numbers or building numbers placed in a position to be plainly legible from the street or road fronting the property.CFC Sec. 505.1

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MISCELLANEOUS (CONTINUED)

- U. Material Safety Data Sheets for all hazardous materials shall be either readily available on the premises as a paper copy, or were approved, shall be permitted to be readily retrievable through electronic access.CFC Sec. 407.2
- V. Exterior doors and their function cannot be eliminated without approval. If approved, and door retains the appearance as functional, door shall be posted on the exterior "THIS DOOR BLOCKED".CFC Sec. 504.2