



SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT COMMUNITY SAFETY DIVISION

620 South 'E' Street
San Bernardino, CA 92415-0179
(909) 386-8400

Standard Number

G - 1

Revision Date:
July 1, 2023

FIRE PREVENTION STANDARD

ORGANIC PRODUCT STORAGE

AUTHORITY

Sections 102.9, 103 and 104.1 of the 2022 California Fire Code provides that the Fire Code Official of the San Bernardino County Fire Department shall have the authority to adopt policies, procedures, rules, and regulations in order to clarify the application of the Fire Code and to specify requirements not specifically provided for by the Fire Code. For further requirements on this subject, see section 2808 of the 2022 California Fire Code. This standard may be modified with the approval of the Fire Code Official.

PURPOSE

The purpose of this standard is to provide the minimum requirements for the storage of any organic products that may create a fire hazard in their natural or processed state when stored in bulk piles.

SCOPE

This standard applies to the indoor or outdoor bulk storage of miscellaneous organic products, such as yard or tree trimmings, manure, organic compost, wood chips, peat moss, sawdust, or any other piled finely divided materials that can accumulate heat and present a spontaneous combustion hazard.

DISCLAIMER

These standards may change without notice. Whenever applicable statutes, regulations and standards are updated and adopted, the latest shall apply. Please contact the Community Safety Division at (909) 386-8400 to determine if these standards have changed.

These requirements do not exempt any individual from complying with other applicable state, county, or city codes and standards.

SUBMITTALS

- 1) The applicant shall submit the plans and all required documentation online through the San Bernardino County EZOP website, <https://wp.sbcounty.gov/ezop>

NOTE: If the project is in the City of Fontana please contact (909) 428-8890 for submittal information.

- 2) 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.
- 3) Provide a scaled site plan or plot plan the following information at a minimum:
 - a) Location of all fire apparatus access roads and fire apparatus turnarounds for dead-end roadways.

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- b) Dimensions indicating width, length, and radii of all turns for all fire access roads.
 - c) Surfacing specifications of fire access roads, including pavement type and thickness. May also require a report from a registered engineer for certain conditions.
 - d) Locations of any types of obstructions to fire access roads. (See also SBCFPD standard A-3)
 - e) The locations of all temporary and permanent structures, outside storage yards.
 - f) Location of all fire protection water sources (hydrants, tanks, etc.).
 - g) Locations of all parking areas, landscaping areas, walkways, and any other adjacent areas.
 - h) Location of significant hazards (i.e., flammable or combustible liquids, hazardous materials, or LPG tanks).
 - i) Location of controlled burn area for smoldering or damaged product.
- 4) Planning Department approval letter.
 - 5) Written fire protection/operational plan that includes the following:
 - a) Contact information for afterhours response by facility personnel.
 - b) Methods for monitoring the internal temperature of piles.
 - c) Method(s) used to move smoldering or damaged product.
 - d) Procedures and schedules for the inspection, monitoring and restricting of excessive internal temperatures in static piles.
 - e) Plan for monitoring, controlling and extinguishment of spot fires.
 - f) Provisions to control the temperature of piles.

GENERAL

- 1) Bulk storage of manure or organic products shall require an operational permit from the Fire Department and shall be renewed annually.
- 2) Fire apparatus access roads shall be designed, constructed and maintained in accordance with SBCFPD Standard A-1 and the currently adopted addition of the California Fire Code section 2808.
- 3) Fire apparatus access roads shall be provided around the perimeter of all piles.
- 4) Individual piles shall not exceed twelve (12) feet in height, one hundred fifty (150) feet in width and two hundred fifty (250) feet in length.
- 5) Piles shall be separated from buildings, property lines and adjacent piles by a distance of not less than thirty (30) feet.

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- 6) Fire protection from a public water supply shall provide a minimum fire flow of 1000 GPM @ 20 psi for not less than a 2-hour duration. Fire hydrant spacing shall be at four hundred (400) foot intervals along primary fire access roadways.
- 7) Fire protection from a private water storage tank may be installed where a public water supply is not adequate to meet fire flow requirements. Volume and duration of the required fire flow shall be determined by the current edition of NFPA 1142.
- 8) An adequate number of oscillating sprinklers that provide overlapping coverage with a sufficient length of hose shall be provided for wetting down burning/smoldering areas. These sprinklers shall be mounted on a base of substantial size to support the sprinklers on the manure pile.
- 9) Smoking may be permitted in designated areas. These areas shall be designated by an approved: "SMOKING AREA" sign. "NO SMOKING" and "NO OPEN FLAME" signs shall be posted in plain sight.
- 10) Flammable and combustible fuels for use in vehicles shall be stored in approved underground or approved aboveground vaulted tanks. These tanks shall be inspected and approved under a separate permit from the Fire Department.
- 11) Static piles shall be monitored by an approved means to measure temperatures within static piles. Internal pile temperatures shall be monitored and recorded weekly. Such records shall be maintained onsite.
- 12) Portable fire extinguishers with a minimum rating of 4-A:60-BC shall be provided on all vehicles and equipment operating on piles and at all processing equipment.
- 13) Equipment capable of moving the bulk products and disturbing or displacing the piles must be maintained on site at all times.
- 14) If fire suppression activities are required, the business owner will be responsible for any and all costs that may occur for fire suppression efforts.