



Sacramento Metropolitan Fire District

Community Risk Reduction Division

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TODD HARMS
Fire Chief

SACRAMENTO METROPOLITAN FIRE DISTRICT			
FIRE PREVENTION STANDARD			
STANDARD TITLE:	Electrified Fence		
STANDARD NUMBER:	27	EFFECTIVE DATE:	08/13/15
		REVISION DATE:	01/01/17

SCOPE

This standard is for the installation and maintenance of electrified fences and is pursuant to Section 503.6 of the 2016 California Fire Code.

SPECIFICATIONS

Electrified Fence – Any fence, barrier or enclosure partially or totally enclosing a building, field or yard, carrying any electrical pulse or charge through any part, section or element thereof.

1. The installation of an electric fence requires a permit.
2. The installation of an electric fence is prohibited:
 - a. within 25 feet of any outdoor area used for the handling of hazardous materials pursuant to the Fire Code
 - b. within five feet of any public right-of-way
 - c. where a project is adjacent to a residential zone and use
 - d. within 300 feet of a park, church and/or school facility
3. Fence shall be constructed or installed in conformance with IEC Standard 60335-2-76.
4. Electrified fences or barriers must be designed and certified by an authorized representative of the fence or barrier equipment manufacturer. Upon completion of fence or barrier installation, the fence or barrier equipment manufacturer shall certify that the installation meets all of its design and safety requirements.
5. Electrified fences or barriers may be energized only during the hours when the general public does not have access to the protected property.
6. The exterior (public side) perimeter of the electrified fence or barrier shall be protected by an additional non-electrified fence or wall located on the same property

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and shall be separated by six (6) inches. Walls or fences on adjacent properties do not meet this requirement.

7. The non-electrified fence or wall shall be no less than six (6) feet in height and no more than eight (8) feet in height at its highest point.
8. The electrified fence or barrier shall be no more than ten (10) feet in height at its highest point measured at existing grade.
9. Electrified fences or barriers shall be clearly marked with warning signs.
 - a. Signs shall be placed at each entrance to the property and spaced at a maximum of forty (40) feet on center around the entire electrified fence perimeter.
 - b. Signs shall be placed above the non-electrified fence or wall and be clearly visible from the ground on both sides of the electrified fence or barrier.
 - c. Warning signs shall be printed on both sides with the following "WARNING ELECTRIFIED FENCE".
 - d. Signs shall be reflective with a minimum two (2) inch letter height, minimum ½ inch stroke and with a contrasting background.
 - e. Electrified fences or barriers shall have a Knox box installed in an approved location to de-energize the electrified fence or barrier. The Knox box shall be illuminated to a minimum one (1) foot candle.
 - f. The power source and Knox box for the electrified fence or barrier shall be installed by an electrical contractor. The power source shall consist of, but not be limited to, the energizer, battery, any means of maintaining a charge on the battery and the load side conductors from the energizer to the perimeter fence conductors.