Sacramento Metropolitan Fire District

Community Risk Reduction Division **www.metrofire.ca.gov**

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SACRAMENTO METROPOLITAN FIRE DISTRICT					
FIRE PREVENTION STANDARD					
STANDARD TITLE:	**Electrified Security Fence**				
STANDARD NUMBER:	27	EFFECTIVE DATE:	08/13/15	REVISION DATE:	08/06/25

SCOPE

This standard is for the installation and maintenance of electrified security fences and is pursuant to Section 503.6 of the 2022 California Fire Code and 503.6.1 of the Local Ordinance.

Prior to adding an electrified security fence, all existing gates will be reviewed for compliance with the code and standard in effect at the time of install.

SPECIFICATIONS

Electrified Security 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 electrified security fence requires a permit.

2. The installation of an electrified security fence is prohibited within 25 feet of any outdoor area used for the handling of hazardous materials pursuant to the Fire Code.

3. Fence shall be constructed or installed in conformance with IEC Standard 60335-2-76.

4. Electrified security 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 security 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 security fence or barrier shall be protected by an additional non-electrified fence or wall located on the same property and shall be separated by six (6) – twelve (12) inches. Walls or fences on adjacent properties do not meet this requirement.

7. The non-electrified fence or wall shall be no less than five (5) feet in height and no more than eight (8) feet in height at its highest point.

8. Exit hardware, installed on the non-electrified pedestrian gate, shall be provided with shielding around the hardware to allow unobstructed exiting and protection.

9. The electrified security fence or barrier shall be no more than ten (l0) feet or two (2) feet higher than the existing non-electrified perimeter fence or wall, whichever is greater.

10. Electrified security 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 thirty (30) feet on center around the entire electrified security 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 security fence or barrier.

    c. Warning signs shall be printed on both sides with the following "WARNING ELECTRIFIED SECURITY FENCE".

    d. Signs shall be reflective with a minimum two (2) inch letter height, minimum ½ inch stroke and with a contrasting background.

    e. Electric vehicle gates that are equipped with Click 2 Enter shall be provided with signage directing fire personnel to the Knox Box for de-energizing.

11. Electrified security fences or barriers shall have Knox boxes installed in an approved location to de-energize the electrified security fence or barrier. The Knox box shall be illuminated to a minimum one (1) foot candle.

    a. A Knox box for de-energizing the electrified security fence shall be provided at each vehicle gate surrounding the property.

    b. The power source and Knox box for the electrified security fence or barrier shall be installed by a licensed 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.

    c. All electrified fences with gates shall be equipped with an audible and visual alarm that will activate when the gate is opened prior to de-energizing the security fence or barrier.