

## **79845 Electrical Systems**

### **(a)**

The electrical system shall be in conformance with the California Building Standards Code.

### **(b)**

Emergency power and lighting. (1) The emergency power system/generator shall be maintained in operating condition to provide automatic restoration of power to the correctional treatment center's essential systems within ten (10) seconds after the loss of primary power. (2) The readiness of the batteries or other starting mechanism shall be verified at intervals not exceeding seven (7) days. The generator(s) shall be started and run under the connected load for a period of not less than thirty (30) minutes at least once every thirty (30) days. Once a year the emergency power system/generator shall be operated under connected load until the engine has reached the normal operating temperatures specified by the manufacturer, but for a period of not less than five (5) hours. (3) A written record of all tests and maintenance performed, inspection performance, exercising period and repairs shall be maintained and kept for three (3) years.

#### **(1)**

The emergency power system/generator shall be maintained in operating condition to provide automatic restoration of power to the correctional treatment center's essential systems within ten (10) seconds after the loss of primary power.

**(2)**

The readiness of the batteries or other starting mechanism shall be verified at intervals not exceeding seven (7) days. The generator(s) shall be started and run under the connected load for a period of not less than thirty (30) minutes at least once every thirty (30) days. Once a year the emergency power system/generator shall be operated under connected load until the engine has reached the normal operating temperatures specified by the manufacturer, but for a period of not less than five (5) hours.

**(3)**

A written record of all tests and maintenance performed, inspection performance, exercising period and repairs shall be maintained and kept for three (3) years.

**(c)**

The correctional treatment center shall have an electrical system which provides adequate levels of power and lighting in a safe manner to all of the facility's electrically powered equipment and systems.

**(d)**

Electrical outlets shall be tested for proper polarity and tension upon installation and replacement. Electrical outlets in patient care areas shall be tested for tension at least annually.

**(e)**

Environmental electrical safety conditions in patient care areas shall be checked at least annually. At a minimum, this shall include a visual inspection of the electrical outlets and light fixtures.