

Hospital Inspector Recertification Program

2016 Part 3 Electrical Code

2016 California Electrical Code

Includes:

- 2014 NEC
- 2016 California amendments
- January 1, 2017 errata (buff pages)
- July 1, 2018 supplement (blue pages)

Article 100 - Definitions

Effective Ground-Fault Current Path

- Relocated from Article 250 (used in 517.13)

Article 517 - Health Care Facilities

General

- Removal of the term “emergency system”. Now referred to as “life safety branch” and “critical branch”.
- Change “equipment system” to “equipment branch”.

Article 517 (cont'd)

517.16 Use of Isolated Ground Receptacles

- Now prohibits use in patient care vicinity (6' feet beyond bed, gurney, etc.).



Article 517 (cont'd)

517.18 General Care Areas.

- Added requirement for identification of critical branch receptacles (color and panel/circuit)
- Change number of required receptacles from four (two duplex) to eight (four duplex).
- Exception No. 4 added for psychiatric patient bedrooms.

Article 517 (cont'd)

517.19 Critical Care Area

- Added requirement for 36 receptacles (18 duplex) in “operating rooms”. At least 12 (6 duplex) must be supplied by the normal system or second critical branch.

Article 517 (cont'd)

517.22 Artificial Lighting

- Added lighting requirements for psychiatric care locations.

Article 517 (cont'd)

517.30 Essential Electrical Systems for Hospitals

- Requires coordination of overcurrent protective devices for the period that the fault duration extends beyond 0.1 second.

Article 517 (cont'd)

517.32 Life Safety Branch

- Added requirement that loads dedicated to a specific generator, including the fuel transfer pump(s), ventilation fans, electrically operated louvers, controls, cooling system, and other generator accessories essential for generator operation, shall be connected to the life safety branch or to the output terminals of the generator with overcurrent protective devices.

Article 517 (cont'd)

517.33 Critical Branch

- Added requirement for lights and receptacles in data closets.

Article 517 (cont'd)

517.34 Equipment Branch

- Added requirement for power source serving HVAC in telephone and data closets.

Article 517 (cont'd)

517.41 Essential Electrical Systems (Nursing Home)

- Added requirement for receptacles to have an illuminated face or an indicator light to indicate that there is power to the receptacle.

Article 517 (cont'd)

517.123 Nurse Call

- Added exception allowing no two-way voice communication in skilled nursing beds, provided station can only be reset at the bedside.

517.124 Technology and Telecom Equipment Rooms (new section)

- Requirements for unrelated utilities and grounding

QUESTIONS?

THANK YOU