

FILE NO. 3-517-16

DATE: July 12, 1993

CODE APPLICATION NOTICE

CODE SECTION: Section 517-16, California Electrical Code

517-16. Receptacles with Insulated Grounding Terminals. Receptacles with insulated grounding terminals as permitted in Section ~~250-74~~ 250-146(d), ~~Exception No. 4~~, shall be identified; such identification shall be visible after installation.

INTERPRETATION:

~~Insulated~~ Isolated ground receptacles, where required for the reduction of electrical noise (electromagnetic interference) on the grounding circuit, are permitted in patient care areas of hospitals. Two insulated equipment grounding conductors shall be run with the branch circuit conductors supplying the receptacle; one shall be the isolated ground conductor and the other shall be the equipment grounding conductor required by CEC 517-13(a). The ~~isolated~~ insulated grounding conductor shall terminate on the grounding terminal of the receptacle; the equipment grounding conductor required by CEC 517-13(a) shall ground the outlet box on which the receptacle is installed.

~~Insulated~~ Isolated ground receptacles shall be identified by an orange color or an orange triangle located on the face of the receptacle as required by Section 410-56(c). Additionally, ~~insulated~~ isolated ground receptacles in patient care areas shall be identified with a permanent sign that reads "Caution - Not for Patient Equipment Use".

REASON:

This interpretation coordinates and clarifies the requirements of CEC 517-13, 517-16, ~~250-74~~ 250-146(d), and 410-56(c) as they apply to insulated ground receptacles in patient care areas.

~~Insulated~~ Isolated ground receptacles do not satisfy the implied requirement of CEC 517-13 for parallel ground paths. A sign is provided to alert staff to the increased risk of connecting patient care equipment to the receptacle.

ORIGINAL SIGNED

9/21/04

Kurt A. Schaefer

Date