



STATE OF IOWA
DEPARTMENT OF PUBLIC SAFETY

STATE FIRE MARSHAL DIVISION

ELECTRICAL RECEPTACLE TESTING IN HEALTH CARE FACILITIES

NFPA 99 (2012 Edition):

Which receptacles must be tested and how often?

All new receptacles in patient care areas must be tested prior to use.

All receptacles at patient bed locations and in locations where deep sedation or general anesthesia is administered.

Existing receptacles

Hospital-grade receptacles:

6.3.4.1.1 Where hospital-grade receptacles are required at patient bed locations and in locations where deep sedation or general anesthesia is administered, testing shall be performed after initial installation, replacement, or servicing of the device.

6.3.4.1.2 Additional testing of receptacles in patient care rooms shall be performed at intervals defined by documented performance data.

What is 'Documented Performance Data'?

1. Manufacturer's recommendation
2. Historical testing data from similar receptacles help determine frequency of testing

Nonhospital-grade receptacles:

6.3.4.1.3 Receptacles not listed as hospital-grade, at patient bed locations and in locations where deep sedation or general anesthesia is administered, shall be tested at intervals not exceeding 12 months.

What tests are required? (Hospital-grade and Nonhospital-grade)

6.3.3.2 Receptacle Testing in Patient Care Rooms.

6.3.3.2.1 The physical integrity of each receptacle shall be confirmed by visual inspection.

6.3.3.2.2 The continuity of the grounding circuit in each electrical receptacle shall be verified.

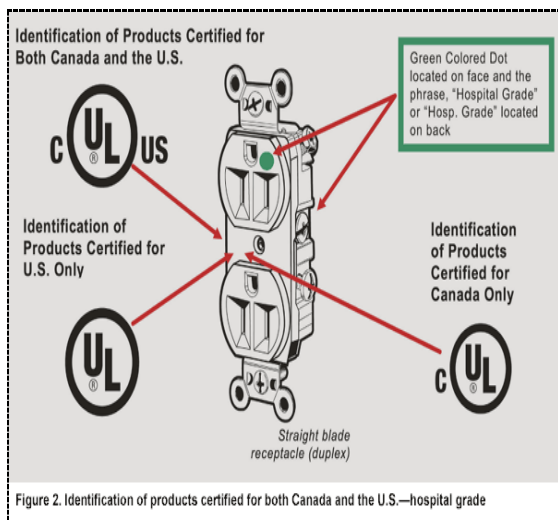
6.3.3.2.3 Correct polarity of the hot and neutral connections in each electrical receptacle shall be confirmed.

6.3.3.2.4 The retention force of the grounding blade of each electrical receptacle (except locking-type receptacles) shall be not less than 115 g (4 oz.).

Failed Receptacles at patient bed locations shall be replaced with hospital grade outlets, per NFPA 70, 2011 edition, 517.18 (B).

Exception: The requirements of 517.18(B) shall not apply to psychiatric, substance abuse, and rehabilitation hospitals meeting the requirements of 517.10(B)(2). Psychiatric security rooms shall not be required to have receptacle outlets installed in the room.

It is not intended that there be a total, immediate replacement of existing non-hospital grade receptacles. It is intended, however, that non-hospital grade receptacles be replaced with hospital grade receptacles upon modification of use, renovation, or as existing receptacles need replacement.



Individualize the Documentation:

Number the outlets or perform testing using a consistent method. For example, outlet identification begins with the first outlet as you progress into a room and proceed counterclockwise. If this is identified on your documentation, there is no need to number the outlets for a less institutional look. **Actual retention values must be recorded to verify compliance during each life safety code survey.**

Date: 1/1/2019 **By:** Handy Man (Outlet #1 is the first outlet as you proceed counterclockwise)

Room	Outlet	Continuity	Ground	Polarity	Retention Force	Pass Fail	Comments
101	1	Ok	Ok	Ok	3 oz	F	replaced
	2						
	3						
	4						
	5						