

## [N.J.A.C. 5:23-3.16](#)

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### **NJ - New Jersey Administrative Code > TITLE 5. COMMUNITY AFFAIRS > CHAPTER 23. UNIFORM CONSTRUCTION CODE > SUBCHAPTER 3. SUBCODES**

#### **§ 5:23-3.16 Electrical subcode**

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(a) Rules concerning the electrical subcode adopted are as follows:

1. Pursuant to the authority of P.L. 1975, c. 217, as modified by P.L. 1996, c. 53, the Commissioner hereby adopts the model code of the National Fire Protection Association, known as "The National Electrical Code 2017" as the electrical subcode for New Jersey.

i. Copies of this code may be obtained from the sponsors at NFPA, One Batterymarch Park, Quincy, Massachusetts 02169.

2. The National Electrical Code 2017 may be known and cited as "the electrical subcode."

i. Codes and standards referenced in the Informational Notes of the electrical subcode (NEC 2017) shall be considered adopted by reference to the extent prescribed by each related section. These codes and standards also are printed in DCA Bulletin # 15-2, which contains a list of adopted codes and standards that are applicable to the enforcement of the electrical subcode.

3. The Commissioner hereby adopts the National Electrical Safety Code (ANSI C2-2017) for the installation of area lighting facilities by an electric utility on private property on metal poles with an underground electric feed.

i. Copies of the National Electrical Safety Code may be obtained from the Institute of Electrical and Electronic Engineers, Inc., PO Box 1331, 445 Hoes Lane, Piscataway, New Jersey 08855-1331.

(b) The following chapters or articles of the electrical subcode are amended as follows:

1. Article 90 of the electrical subcode, entitled "Introduction," is amended as follows:

i. Section 90.4, entitled "Enforcement," is amended to delete in the first paragraph the phrase, "authority having jurisdiction for enforcement of the code" and substitute in lieu thereof, the term "electrical subcode official." And add a new last sentence in the first paragraph: "Approval shall be in accordance with [N.J.A.C. 5:23-2.9](#)." Delete in the second paragraph the phrase "authority having jurisdiction" and substitute in lieu thereof the term "electrical subcode official" and add after "effective safety" the phrase "as provided in [N.J.A.C. 5:23-2.9](#)." Delete in the third paragraph the phrase "authority having jurisdiction" and substitute in lieu thereof the term "electrical subcode official" and delete the phrase "by the jurisdiction" after the word "adopted."

ii. Section 90.5, entitled "Mandatory Rules, Permissive Rules, and Explanatory Material," is amended to add "except as outlined under [N.J.A.C. 5:23-3.16\(a\)2i](#)" after the word "Code" in line 6 under paragraph (C).

2. Chapter 1 of the electrical subcode, Article 100, entitled "Definitions," is amended as follows:

i. The definition of the term "approved" is amended to delete the phrase "the authority having jurisdiction" and substitute in lieu thereof, the phrase "electrical subcode official. Approval shall be in accordance with [N.J.A.C. 5:23-3.7](#)."

ii. The definition of "Authority having jurisdiction" is replaced with "Unless otherwise specifically noted, the authority having jurisdiction for the Electrical Subcode shall be the Electrical Subcode Official."

iii. The definition of the term "building" is deleted and in lieu thereof, substitute the definition of the term "building" found in [N.J.A.C. 5:23-1.4](#).

3. Chapter 2 of the electrical subcode, entitled "Wiring and Protection," is amended as follows:

i. Section 210.8 (A)(2) and (5) of Article 210, entitled Branch Circuits, is deleted; it is replaced by Section 210.8 (A)(2) and (5) and the exceptions in the National Electrical Code 2005 as follows:

**"210.8**

**(A)**

**(2)-** Garages, and also accessory buildings that have a floor located at or below grade level not intended as habitable rooms and limited to storage areas, work areas, and areas of similar use.

Exception No. 1 to (2) - Receptacles that are not readily accessible.

Exception No. 2 to (2) - A single receptacle or a duplex receptacle for two appliances located within dedicated space for each appliance that, in normal use, is not easily moved from one place to another and that is cord-and-plug connected in accordance with 400.7 (A)(6), (A)7, or (A)(8).

Receptacles installed under the exceptions to 210.8 (A)(2) shall not be considered as meeting the requirements of 210.52 (G).

**210.8**

**(A)**

**(5)-** Unfinished basements: For purposes of this section, unfinished basements are defined as portions or areas of the basement not intended as habitable rooms and limited to storage areas, work areas, and the like.

Exception No. 1 to (5) - Receptacles that are not readily accessible.

Exception No. 2 to (5) - A single receptacle or a duplex receptacle for two appliances located within dedicated space for each appliance that, in normal use, is not easily moved from one place to another and that is cord-and-plug connected in accordance with 400.7 (A)(6), (A)7, or (A)(8).

Exception No. 3 to (5) - A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection.

Receptacles installed under the exceptions to 210.8 (A)(5) shall not be considered as meeting the requirements of 210.52 (G)."

ii. Section 210.12 (D), entitled "Branch Circuit Extensions or Modifications - Dwelling Units," is deleted in its entirety.

4. Chapter 3 of the electrical subcode, entitled "Wiring Methods and Materials," is amended as follows:

i. Section 300.4 (A)(1) is amended to delete the words from "so that the edge. . ." on line four through ". . . cannot be maintained" on line six and in lieu thereof substitute "as required by the building subcode. Where the distance from the edge of the hole to the nearest edge of the wood member is less than 32 mm (1 1/4 inches)."

ii. Section 334.12 (A)(2) is deleted in its entirety.

5. Chapter 4 of the electrical subcode, entitled "Equipment for General Use" is amended as follows:

i. Section 406.4 (D)(4), entitled "Arc-Fault Circuit-Interrupter Protection," is deleted in its entirety.

ii. Article 425, entitled "Fixed Resistance and Electrode Industrial Process Heating Equipment," is amended as follows:

(1) Section 425.6, entitled "Listed Equipment," is deleted.

(2) Section 425.8, entitled "General," including subsections (A)-(C) are deleted.

(3) Section 425.9, entitled "Approval," is deleted.

(4) Section 425.10, entitled "Special Permission," is deleted.

(5) Section 425.12, entitled "Locations," including subsections (A) and (B) are deleted.

(6) Section 425.13, entitled "Spacing from Combustible Material," is deleted.

(7) Section 425.14, entitled "Infrared Lamp Industrial Process Heating Equipment," is deleted.

(8) Section 425.22 (B), entitled "Resistance Elements," is deleted.

(9) Section 425.22 (C), entitled "Overcurrent Devices," is deleted.

(10) Section 425.29, entitled "Heating Elements," is deleted.

(11) Section 425.45, entitled "Concealed Fixed Industrial Heating Equipment," is deleted.

(12) Sections 425.57 through 425.64 are deleted.

(13) Section 425.71, entitled "Identification," is deleted.

(14) Subsections (A)-(E) of Section 425.72 are deleted.

(15) Section 425.81, entitled "Identification," is deleted.

(16) Section 425.83, entitled "Overtemperature Limit Control," is deleted.

(17) Section 425.84, entitled "Overpressure Limit Control," is deleted.

6. Chapter 5 of the electrical subcode, entitled "Special Occupancies," is amended as follows:

i. Section 514.3 (B)(3), with the exception of subsection (e), is deleted.

ii. Section 525.5 (B) of Article 525, entitled "Carnivals, Circuses, Fairs and Similar Events," is deleted; it is replaced by Section 525.5 (B) in the National Electrical Code 2005 as follows:

**"525.5**

**(B) Clearances to Rides and Attractions.** Amusement rides and amusement attractions shall be maintained not less than 4.5 m (15 ft) in any direction from overhead conductors operating at 600 volts or less, except for the conductors supplying the amusement ride or attraction. Amusement rides or attractions shall not be located under or within 4.5 m (15 ft) horizontally of conductors operating in excess of 600 volts."

iii. Part II of Article 550, entitled "Mobile Homes, Manufactured Homes, and Mobile Home Parks" comprising sections 550.11 through 550.25 is deleted. Section 550.10 shall be retained.

(1) Exception--Part II is retained in its entirety in the case of mobile/manufactured homes undergoing repair, renovation, or alteration.

iv. In Article 551, entitled "Recreation Vehicles and Recreation Vehicle Parks," delete from the title the words "Recreational Vehicles and."

(1) Parts II, III, IV, and V, comprising sections 551.20 through 551.60, are deleted in their entirety, with the exception of Figure 551.46 (C), which shall be retained.

v. Article 552 shall be applicable to structures covered by the recreational park trailers subcode, [N.J.A.C. 5:23-4D](#), provided that:

**(1)**The structure is restricted to seasonal use as per Section 552.4. For purposes of applying this requirement, the park in which the structure is located shall be open for six months or less each year or access to the structures shall be otherwise restricted to a period of six months or less each year; and

**(2)**No additions, alterations, or extensions of any kind shall be made to the electrical system or structure unless the entire electrical system shall be made to conform to the electrical requirements of this code applicable to single family dwellings.

**7.**Chapter 6 of the electrical subcode, entitled "Special Equipment," is amended as follows:

**i.**In Section 620.1, Scope, Informational Note No. 1 shall have "ASME A17.1-2013/CSA B44-13" deleted and "ASME A17.1-2016/CSA B44-16" shall be inserted in its place;

**ii.**In Section 620.23 (C), Duplex Receptacle, the Informational Note shall have "ASME A17.1-2013/CSA B44-13" deleted and "ASME A17.1-2016/CSA B44-16" shall be inserted in its place;

**iii.**In Section 620.24 (C), Duplex Receptacle, the Informational Note shall have "A17.1-2013/CSA B44-13" deleted and "ASME A17.1-2016/CSA B44-16" shall be inserted in its place;

**iv.**In Section 620.51 (A), Type, the Informational Note shall have "A17.1-2013/CSA B44-13" deleted and "ASME A17.1-2016/CSA B44-16" shall be inserted in its place;

**v.**In Section 620.91, Emergency and Standby Power Systems, the Informational Note shall have "A17.1-2013/CSA B44-13" deleted and "ASME A17.1-2016/CSA B44-16" shall be inserted in its place;

**vi.**In Section 680.25 (A)(1), Feeders (Wiring Methods), the following exception, from Section 680.25 (A)(1) of the NEC/2011, shall be inserted:

"Exception: An existing feeder between an existing remote panelboard and service equipment shall be permitted to run in flexible metal conduit or an approved cable assembly that includes an equipment grounding conductor within its outer sheath. The equipment grounding conductor shall comply with 250.24 (A)(5)."

**vii.**In Section 690.47, Grounding Electrode System, (D) Additional Auxiliary Electrodes for Array Grounding, shall be deleted in its entirety.

**8.**Chapter 8 of the electrical subcode, entitled "Communication Systems," is amended as follows:

**i.**Section 800.156, entitled "Dwelling Unit Communications Outlet," is deleted in its entirety.

**9.**Informative Annex H of the electrical subcode, entitled "Administration and Enforcement," is deleted in its entirety.

## History

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### HISTORY:

Amended by R.1981 d.132, effective May 7, 1981.

See:13 N.J.R. 121(a),13 N.J.R. 258(d).

Amended by R.1984 d.314, effective August 6, 1984.

See:16 N.J.R. 1139(a),16 N.J.R. 2084(b).

Section substantially amended.

Amended by R.1987 d.374, effective September 21, 1987.

See:19 N.J.R. 1024(a),19 N.J.R. 1720(b).

Model subcode revisions.

Amended by R.1990 d.253, effective May 21, 1990.

See:22 N.J.R. 909(b),22 N.J.R. 1554(a).

Amendments to (b)4i(2), ii(2).

Administrative Correction to (b)4i(2).

See:22 N.J.R. 2503(b).

Amended by R.1990 d.507, effective October 15, 1990.

See:22 N.J.R. 2208(a),22 N.J.R. 3214(a).

Text conformed to BOCA National Code/1990.

Amended by R.1993 d.662, effective December 20, 1993.

See:25 N.J.R. 3891(a),25 N.J.R. 5918(a).

Amended by R.1998 d.332, effective July 6, 1998.

See:[30 N.J.R. 1377\(a\)](#),[30 N.J.R. 2421\(b\)](#).

Rewrote the section.

Amended by R.1998 d.362, effective July 20, 1998.

See:[30 N.J.R. 1122\(a\)](#),[30 N.J.R. 2644\(b\)](#).

In (a), inserted a new 3.

Amended by R.2000 d.48, effective February 7, 2000.

See:[31 N.J.R. 2317\(a\)](#),[32 N.J.R. 445\(a\)](#).

In (a), substituted references to 1999 for references to 1996 throughout, substituted a reference to One Batterymarch Park for a reference to Batterymarch Park in 1i, and inserted 2i; and in (b), inserted 1ii, inserted a new 3, recodified former 3 and 4 as 4 and 5, substituted a reference to line four for a reference to line three and substituted a reference to line six for a reference to line five in the new 4i, and substituted a reference to section 500-5 (a)(4) for a reference to section 500-3 (a)4 in the new 5i.

Amended by R.2003 d.187, effective May 5, 2003.

See:[34 N.J.R. 4248\(a\)](#),[35 N.J.R. 1939\(c\)](#).

Rewrote the section.

Amended by R.2003 d.240, effective June 16, 2003.

See:[34 N.J.R. 3045\(a\)](#),[35 N.J.R. 2637\(c\)](#).

Added (c).

Amended by R.2006 d.158, effective May 1, 2006.

See:[37 N.J.R. 4105\(a\)](#),[38 N.J.R. 1827\(a\)](#).

In (a)1, (a)2 and (a)2.i, substituted "2005" for "2002"; also in (a)2.i, substituted "#06-2" for "#03-1"; in (a)3, substituted "C2-2002" for "C2-1997"; deleted (b)1 and recodified (b)2 through (b)6 as (b)1 through (b)5; in (b)4.ii, substituted "(2)" for "(1)", in (b)5iii(1), substituted "4" for "2"; in (b)5iii(2), substituted "V" for "VI" and "551.20" for "551.10"; and inserted (b)6.

Amended by R.2007 d.310, effective October 1, 2007.

See: [39 N.J.R. 135\(a\)](#), [39 N.J.R. 4113\(b\)](#).

Added (b)7.

Amended by R.2007, d.384, effective December 17, 2007.

See: [39 N.J.R. 2684\(a\)](#), [39 N.J.R. 5211\(a\)](#).

Added new (b)4ii; recodified former (b)4ii as (b)4iii; and in (b)4iii, substituted "(2)" for "(1)".

Amended by R.2008 d.213, effective August 4, 2008.

See: [39 N.J.R. 2411\(a\)](#), [40 N.J.R. 4523\(b\)](#).

Rewrote (b)5iv.

Amended by R.2009 d.100, effective April 6, 2009.

See: [40 N.J.R. 5900\(a\)](#), [41 N.J.R. 1397\(a\)](#).

In the introductory paragraphs of (a)1 and (a)2 and in (a)2i, substituted "2008" for "2005"; in (a)2i, substituted "#09-1" for "#06-2", rewrote (b)3i; added (b)4iv and (b)4v; added new (b)5ii; recodified former (b)5ii through (b)5iv as (b)5iii through (b)5v; deleted (b)5iii(1)(A) and former (b)5iv(1); recodified former (b)5iv(2) as new (b)5iv(1); in (b)6, substituted "H" for "G"; and rewrote (b)7.

Amended by R.2010 d.291, effective December 20, 2010.

See: [42 N.J.R. 1943\(a\)](#), [42 N.J.R. 3053\(a\)](#).

Rewrote (b)6; and added (b)8.

Amended by R.2012 d.083, effective May 7, 2012.

See: [44 N.J.R. 10\(a\)](#), [44 N.J.R. 1336\(a\)](#).

In the introductory paragraph of (a)1 and (a)2, and in (a)2i, substituted "2011" for "2008"; in (a)2i, substituted "Informational Notes" for "Fine Print Notes (FPNs)" and "12-1" for "09-1"; in (b)2i, deleted ", 3.8 and 3.8A" following "5:23-3.7"; in the introductory paragraph of (b)3i, substituted "210.8 (A)(2)" for "210.8 (A)2"; in (b)3i, inserted the last paragraph; added (b)3ii; deleted (b)4ii, (b)4iv and (b)4v; recodified (b)4iii as (b)4ii; added new (b)5; recodified former (b)5 through (b)8 as (b)6 through (b)9; rewrote (b)7i; and in (b)9, inserted "Informative".

Amended by R.2015 d.139, effective September 21, 2015.

See: [47 N.J.R. 9\(a\)](#), [47 N.J.R. 2352\(b\)](#).

Rewrote (a) and (b).

Administrative correction.

See: [47 N.J.R. 2669\(b\)](#).

Amended by R.2019 d.095, effective September 3, 2019.

See: [51 N.J.R. 285\(a\)](#), 51 N.J.R. 1399(a).

Rewrote the section.

Annotations

## Notes

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[Chapter Notes](#)**Case Notes**

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Former [N.J.A.C. 5:23-3.6](#) designated "National Electrical code of 1975" as controlling code; statute of limitations. [Brown v. Jersey Central Power and Light Co., 163 N.J.Super. 179 394 A.2d 397 \(App.Div.1978\)](#) certification denied 79 N.J. 489 401 A.2d 244.

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