

CHAPTER 23.30 LOCAL AMENDMENTS TO THE NATIONAL ELECTRICAL CODE 2011 EDITION

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23.30.010 Local amendments to the National Electrical Code 2011 Edition.

The amendments to the 2011 edition of the National Electrical Code are listed here by section. The last digits of the number after the title and chapter digits are the article and section of the National Electrical Code to which the amendment refers, i.e., 23.30.210.12(A) refers to section 210.12(A) of the National Electrical Code, 2011 Edition.

Informational Note: For further information on other Building Codes, Policies and Handouts that may affect electrical installation requirements go to the Municipality of Anchorage, Building Safety Website at:
www.muni.org/departments/ocpd/development/bsd

23.30.020 Certificate of fitness - right to inspection.

Municipal electrical inspectors may contact any electrical worker performing work for which a certificate of fitness is required by Alaska Statue 18.62.070 and request the

person to exhibit their certificate of fitness or trainee certificate of fitness. The inspector may immediately serve upon that person a notice to cease any further work in that occupation until the person has demonstrated possession of the required certificate.

23.30.210.12(A) Dwelling units.

Add a second sentence:

“Similar rooms and areas do not include: kitchens, bathrooms, or laundry rooms which are separate from areas which would otherwise require protection.”

23.30.210.23(E) Outlets per circuit.

Add a subsection (E) as follows:

- (E) **Outlets per circuit.** In dwelling units, no more than thirteen (13) outlets are allowed on one branch circuit. All smoke detectors on a circuit may be counted as a total of one outlet. Appliance circuits are limited to six (6) duplex receptacles per circuit.

Exception: Fixed lighting circuits designed to meet the appropriate sections of the code.

23.30.210.52(J) Parking spaces.

Add a subsection (J) as follows:

- (J) **Parking spaces.** For each dwelling unit and mobile home, there shall be at least one (1) exterior GFCI protected duplex outlet on a separate 20-ampere circuit adjacent to on-site parking locations.

Exception: For multi-family dwellings, eight-plex and larger where indoor parking is provided, the required number of exterior duplex receptacles may be reduced by the number of indoor heated parking locations.

23.30.210.52(K) Underfloor (crawl) spaces.

Add a subsection (K) as follows:

- (K) **Underfloor (crawl) spaces.** A receptacle shall be provided in each unconnected space; the receptacle shall be located adjacent to a sump when one is provided.

23.30.230.1 Scope.

Add a second sentence:

“The service installation shall also conform to the written electric service

requirements of the utility serving the area.”

23.30.230.32 Protection against damage.

Add a second paragraph:

“Physical protection of underground service laterals for residential services of 200 amperes and less shall consist of not more than nine feet of liquid tight flexible metal conduit.”

23.30.230.70(A)(1) Readily accessible location.

Add a second paragraph:

“The service disconnecting means shall be operable from the exterior of the building if the service disconnect is within the building. A fire pump service disconnect is not required to be operable from the exterior of the building.”

23.30.230.70(A)(3) Remote control.

Replace subsection (3) with:

- (3) **Remote Control.** Where a remote control device(s) is used to actuate the service disconnecting means, the service disconnecting means shall be located in accordance with section 230.70(A)(1). The control device shall meet the requirements of the electrical utility and Building Safety Policy E.04 Electrical Disconnects.

23.30.230.70(B) Marking.

Add this sentence to end of the section:

“Identification signage shall meet the requirements of Building Safety Policy E.04 Electrical Disconnects.”

23.30.250.53(D)(2) Metal underground water pipe.

Delete the exception.

23.30.250.68(C)(1) Metallic water pipe and structural metal.

Delete the exception.

23.30.250.118 Types of equipment grounding conductors.

Delete subsections (2) thru (14) and replace with:

- (2) The copper sheath of mineral insulated, metal-sheathed cable.
- (3) Metal enclosures of busways listed for grounding.
- (4) Armor of Type AC cable as provided in 320.108.
- (5) Type MC cable that provides an effective ground-fault current path in

accordance with one or more of the following:

- a. It contains an insulated or uninsulated equipment grounding conductor in compliance with 250.118(1).
 - b. The combined metallic sheath and uninsulated equipment grounding/bonding conductor of inter-locked metal tape-type MC cable that is listed and identified as an equipment grounding conductor.
 - c. The metallic sheath or the combined metallic sheath and equipment grounding conductors of the smooth or corrugated tube-type MC cable that is listed and identified as an equipment grounding conductor.
- (6) Cable trays as permitted in 392.10 and 392.60.

23.30.300.4 Protection against physical damage.

Add a subsection (I) as follows:

- (I) **Roofs.** Raceways run on the surface of a roof or subject to damage from snow, ice, or foot traffic, shall be rigid metal or intermediate metal conduit only.

23.30.300.5 Underground installations.

Add a subsection (L) as follows:

- (L) **Separation from other systems.** When direct buried cables or conductors cross or are installed parallel to sewers, water lines, gas or other fuel lines, steam lines, communication and utility electric cables or conductors, a 300 mm (12 inch) radial separation shall be maintained.

23.30.300.24 Cold temperature installations.

Add a section 300.24 as follows:

300.24 Cold Temperature installations: Thermoplastic type insulated wires or cables, or non-metallic tubing shall not be installed when ambient temperatures are less than -7C (20F).

23.30.330.40 Boxes and fittings.

Add at the end of the paragraph:

“An insulated bushing or its equivalent protection shall be provided between the conductors and the outer metal sheath and must be visible for inspection.”

23.30.334.10 Uses permitted.

Delete subsection (3).

23.30.334.104 Conductors.

Replace section 334.104 with:

334.104. Conductors. The insulated power conductors shall be sizes 14 AWG through 2 AWG with copper conductors or sizes 10 AWG through 2 AWG with aluminum or copper-clad aluminum conductors. Conductors supplying receptacles shall be minimum size 12 AWG copper conductors or sizes 10 AWG with aluminum or copper-clad aluminum conductors. The communication conductors shall comply with Part V of Article 800.

23.30.410.17 Other closet or storage spaces.

Add a section 410.17 as follows:

410.17 Other closet or storage spaces. Luminaries shall meet the location requirements for clothes closets or be of a totally enclosed fluorescent or LED type.

23.30.445.18 Disconnecting means required for generators.

Add a sentence to the end of the section:

“Generator disconnecting means shall conform to the requirements of sections 23.30.230.70(A)(1) and 23.30.230.70(A)(3).”

23.30.511.3(C)(1) Major repair garages; Floor areas.

Delete subsection (1), including subsections (1)(a) and (1)(b), and replace with the following:

- (1) **Floor Areas.** The entire floor area up to a level of 450 mm (18 in.) above the floor shall be classified as Class I, Division 2.

23.30.511.3(C)(2)(a) Ceiling areas; ventilation provided.

Replace subsection (a) with the following:

- (a) *Ventilation provided.* New buildings shall be classified as Class I, Division 2. For existing buildings only, the ceiling areas shall be unclassified where ventilation is provided, from a point not more than 450 mm (18 in.) from the highest point in the ceiling to exhaust the ceiling area at a rate of not less than $0.3\text{m}^3/\text{min}/\text{m}^2$ ($1\text{ cfm}/\text{ft}^2$) of ceiling area at all times that the building is occupied or when vehicles using lighter-than-air gaseous fuels are parked below this area.

23.30.511.3(D)(1) Minor repair garages; floor areas.

Delete subsection (1), including subsections (1)(a) and (1)(b), and replace with the following:

- (1) **Floor areas.** Floor areas in minor repair garages without pits, below grade work areas, or subfloor work areas shall be unclassified. Where floor areas include pits, below grade work areas, or subfloor work areas in lubrication or service rooms the floor area up to a level of 450 mm (18 in.) above any unventilated pit, below grade work area, or subfloor work area and extending a distance of 900 mm (3 ft) horizontally from the edge of any such pit, below grade work area, or subfloor work area, shall be classified as Class I, Division 2.

23.30.511.3(E)(1) Modifications to classification; specific areas adjacent.

Replace subsection (1) with:

- (1) **Specific areas adjacent to classified locations.** Areas less than 300 square feet adjacent to classified locations in which flammable vapors are not likely to be released such as stock rooms, switchboard rooms, and other similar locations, shall be unclassified where mechanically ventilated at a rate of four or more air changes per hour, or designed with positive air pressure, or where effectively cut off by walls or partitions.

23.30.680.42(B) Bonding.

Delete subsection (B) and replace with:

- (B) **Bonding.** Bonding by metal-to-metal mounting on a common frame or base shall be permitted.

Exception No. 1: The metal bands or hoops used to secure wooden staves shall not be required to be bonded as required in 680.26.

Exception No. 2: A listed self-contained spa or hot tub that meets all of the following conditions shall not be required to have equipotential bonding of perimeter surfaces installed as required in 680.26(B)(2):

- (1) Is installed in accordance with manufacturer's instructions on or above grade.
- (2) The vertical measurement from all permanent perimeter surfaces within 30 horizontal inches (76 cm) of the spa to the top rim of the spa is greater than 28 inches (71 cm).

Editors note: Pursuant to Section 5 of the NFPA Regulations Governing Committee Projects, the National Fire Protection Association has issued the foregoing Tentative Interim Amendment to NFPA 70®, *National Electrical Code*®, 2011 edition. The TIA was processed by Panel 17 and the National Electrical Code Technical Correlating Committee, and was issued by the Standards Council on March 1, 2011, with an effective date of March 21, 2011.