

CHAPTER 23.30 LOCAL AMENDMENTS TO THE NATIONAL ELECTRICAL CODE 2008 EDITION

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23.30.010 Local amendments to the National Electrical Code 2008 Edition

The amendments to the 2008 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., 23.30.210.8(A) refers to section 210.8(A) of the National Electrical Code, 2008 Edition.

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.

23.30.210.7 Branch circuit requirements for device connections and locations

Add a fine print note before (A):

“FPN: Refer to Municipality of Anchorage Amendments to the International Mechanical Code 23.20.304.3, which limits installation of mechanical and electrical devices capable of generating a spark, glow or flame in some areas.

23.30.210.12(B) 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) to section 210.23:

(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(I) Parking spaces

Add a new subsection (I):

(I) Parking spaces. For each dwelling unit and mobile home, there shall be at least one (1) exterior G.F.C.I 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(J) Underfloor (crawl) spaces

Add a new subsection (J):

- (J) 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) Disconnect at 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

Revise the section to read:

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 a sentence to end of the section:

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

23.30.250.52(A)(1) Metal underground water pipes

Delete the exception:

Exception: In industrial, commercial and institutional buildings where conditions of maintenance and supervision ensure that only qualified persons service the installation, interior metal water piping located more than 1.52 meters

(5ft) from the point of entrance to the building shall be permitted as part of the grounding electrode system or as a conductor to interconnect electrodes that are part of the grounding electrode system, provided that the entire length, other than short sections passing perpendicular through walls, floors or ceilings, of the interior metal water pipe that is being used for the conductor is exposed.

23.30.250.53(D)(2) Metal underground water pipes

Delete the Exception:

***Exception:** The supplemental electrode shall be permitted to be bonded to the interior metal water piping at any convenient point as covered in 250.52(A)(1), 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.

23.30.300.4(H) Protection against physical damage

Add a new subsection (H):

- (H) 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(L) Separation from other systems

Add a new subsection (L):

- (L) 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: 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 Insulating bushing

Amend by adding the following words to 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 the following subsection:

- (3) Other structures permitted to be of Types III, IV and V construction except as prohibited in 334.12. Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies.

23.30.334.104 Conductors

Replace the section with:

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

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 as follows:

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

23.30.511.3 (C)(1) Major repair garages, floor areas

Add a sentence as follows:

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)(1)(a) Floor areas; ventilation provided

Delete subsection (a):

(a) Ventilation Provided. The floor area shall be unclassified where there is mechanical ventilation providing a minimum of four air changes per hour per hour or one cubic foot per minute of exchanged air for each square foot of floor area. Ventilation shall provide for air exchange across the entire floor area, and exhaust air shall be taken at a point within 0.3 m(12 in.) of the floor.

23.30.511.3 (C)(1)(b) Floor areas; ventilation not provided

Delete subsection (b):

(b) Ventilation Not Provided. The entire floor area up to a level of 450mm (18 in.) above the floor shall be classified as Class I, Division 2 if the ventilation does not comply with 511.3(C)(1)(a).

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

Replace the subsection (a) with:

“(a) Ventilation Provided. For existing buildings only, the ceiling areas shall be unclassified where ventilation is provided, from a point not less 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

Replace subsection (1) with:

(1) In minor repair garages without pits, below grade work areas, or subfloor work areas the entire floor area up to a level of 450 mm (18 in.) shall be classified as Class I, Division 2.

23.30.511.3 (D)(1)(a) Floor areas; ventilation provided

Delete subsection (a):

(a) Ventilation Provided. The floor area shall be unclassified where there is mechanical ventilation providing a minimum of four air changes per hour per hour or one cubic foot per minute of exchanged air for each square foot of floor area. Ventilation shall provide for air exchange across the entire floor area, and exhaust air shall be taken at a point within 0.3 m(12 in.) of the floor.

23.30.511.3 (D)(1)(b) Floor areas; ventilation not provided

Delete subsection (b):

(b) Ventilation Not Provided. The floor area up to a level of 450mm (18 in.) above any unventilated pit, below grade work area, or subfloor work area and extending a distance of 900mm (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 with the following:

“(1) 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.”