

CHAPTER 23.30 LOCAL AMENDMENTS TO THE NATIONAL ELECTRICAL CODE 2005 EDITION

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23.30.010 Local Amendments To The National Electrical Code 2005 Edition

The amendments to the 2005 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, 2005 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.

23.30.210.8(a) **Dwelling Units.**

Replace 210.8(a)(7) as follows:

Sinks. Where receptacles are installed within six (6) feet of the outside edge of a sink.

23.30.210.8(b) **Other Than Dwelling Units.**

Add sections 210-8(b)(4) and 210-8(b)(5) as follows:

- (4) Outdoors where accessible from ground level.
- (5) Within six (6) feet of the outside edge of a sink.

23.30.210.23(e) **Outlets Per Circuit.**

Add a subsection (e) to section 210.23 to read as follows:

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) as follows:

- (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.

Add exception to new subsection (I) as follows:

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) as follows:

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 the following:

The service installation shall also conform to the electric service requirements of the utility serving the area.

23.30.230.32 **Protection Against Damage.**

Add a second paragraph as follows:

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**

Revise the section to read:

The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure or inside nearest the point of entrance of the service conductors.

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 the Anchorage Fire Department Electrical Disconnects Bulletin #05-003.

(FPN: See electrical utility standards for their requirements; AFD Electrical Disconnects Bulletin #05-003 is available at Building Safety.)

23.30.230.70(B) **Marking.**

Add a sentence to end of the section as follows:

Identification signage shall meet the requirements of Anchorage Fire Department Electrical Disconnects Bulletin #05-003.

23.30.240.24 **Location in or on Premises.**

Add a subsection (f) as follows:

Overcurrent devices shall not be installed over stairs.

23.30.250.52(A)(1) Metal Underground Water Pipes.

Delete the following:

Exception: In industrial and commercial 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 following:

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 Protection Against Physical Damage.

Amend by adding new subsection (g):

- (g) 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(d) Protection From Damage - Buried Cable Or Conductors.

Add a paragraph as follows:

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

23.30.310.13 Conductor Construction And Applications.

Amend by adding the following sentence to the end of the section:

Thermoplastic type insulation shall not be installed when the temperature is 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.

23.30.334.12 **Uses Not Permitted.**

Add subsection "e." to (A)(10):

- e. When the temperature in a building is lower than -7 C (20 F), non-metallic sheathed cable shall not be installed.

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 signaling conductors shall comply with 780.5. The communication conductors shall comply with Part V of Article 800.

23.30.362.12 **Uses Not Permitted.**

Add a subsection (11):

- (11) When the temperature in a building is lower than -7C (20F), electrical non-metallic tubing shall not be installed nor have wires installed in it.

23.30.410.8 **Fixtures In Clothes Closets.**

Add a section (e):

- (e) Other closet or storage spaces: Luminaries (fixtures) shall meet the location requirements for clothes closets or be of a totally enclosed

florescent.

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 Classifications of Locations.

511.3(A)(3) Specific Areas Adjacent to Classified Locations.

Replace section with:

- (4) Areas Adjacent to Defined Locations or with Positive-Pressure Ventilation. Areas adjacent to defined locations in which flammable vapors are not likely to be released, such as stock rooms, switchboard rooms, and other similar locations, shall not be classified in existing buildings where designed with positive air pressure or where effectively cut off by walls or partitions.

511.3(A)(5) Up to a Level of 450mm(18in.) Above the Floor in Lubrication or Service rooms Where Class I Liquids Are Transferred.

Delete the entire section.

511.3(A)(7) Within 450mm (18) of the Ceiling.

Revise by adding the word “existing” to make (A) (7) read:

- (7) In existing major repair garages, where lighter than air gaseous fuels (such as natural gas or hydrogen) vehicles are repaired or stored, the area within 450 mm (18 in.) of the ceiling shall be considered unclassified where ventilation of at least 1 cfm/sq ft of ceiling area taken from a point within 450 mm (18 in.) of the highest point in the ceiling is provided.

511.3(B)(3) Lubrication or Service Room Where Class I Liquids or Gaseous Fuels (Such as Natural Gas, or Hydrogen, or LPG) Are Transferred.

Delete the words “that are not designed in accordance with 511.3(A)(5)” from the first portion of the first sentence so that it reads “The following spaces shall be classified as follows”.

511.3(B)(4) Within 450mm (18) of the Ceiling.

Delete the words “that are not designed in accordance with 511.3(A) (7)” so the last portion of the sentence reads: “ceiling spaces shall be classified as Class I, Division 2”.