

CHAPTER 23.30
LOCAL AMENDMENTS TO THE NATIONAL ELECTRICAL CODE
2002 EDITION

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23.30.010 **Local Amendments To The National Electrical Code 2002 Edition**

The amendments to the 2002 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, 2002 Edition.

23.30.020 **Certificate Of Fitness - Right To Inspection**

Municipal electrical inspectors may contact any electrical workman performing work for which a certificate of fitness is required (under AS 18.60.580) and request that person to exhibit his/her certificate of fitness. The inspector may immediately serve upon that person a notice to cease any further work in that occupation until he/she has displayed said State of Alaska certificate of fitness.

23.30.210.8(a) **Dwelling Units**

Replace 210.8(a)(7) with:

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

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

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

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

23.30.210.23(e) Outlets Per Circuit

Add a subsection (e) to section 2 10.23 to read as follows:

Outlets per circuit. In dwelling units, no more than 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 duplex receptacles per circuit.

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

23.30.210.52 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 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.

23.30.230.1 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 or emergency generator service disconnect is not required to be operable from the exterior of the building.

23.30.240.24 **Location in or on Premises**

Add a subsection (f) as follows:

Overcurrent devices shall not be installed in stairways.

23.30.250.30(A)(4) **Grounding Electrode**

Delete the following:

Exception: In industrial and commercial buildings where conditions of maintenance and supervision ensure that only qualified persons service the installation and the entire length of the interior metal water pipe that is being used for the grounding electrode is exposed, the connection shall be permitted at any point on the water pipe system.

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 and the entire length of the interior metal water pipe that is being used for the grounding electrode is exposed, the connection shall be permitted at any point on the water pipe system.

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:

(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 other electric cables or conductors, a 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

Replace 334-10 Uses Permitted sections (1) through (4) with:

- (1) One and two family dwellings
- (2) Multi family dwellings not exceeding three stories above grade.

For the purposes of this article, the first floor of a building shall be that floor that has 50% or more of it's exterior wall surface area level with or above exterior grade. One additional level that is the first level and is not designed for human habitation and used only for vehicle parking, storage or similar use shall be permitted.

FPN: See 310.10 for temperature limitation of conductors.

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 paragraph with:

334.104 Conductors. The insulated power conductors shall be sizes 12 AWG through 2

AWG with copper conductors or sizes 10 AWG through 2 AWG with aluminum or copper-clad aluminum conductors. The signaling conductors shall comply with 780.5.

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) must meet the location requirements for clothes closets or be of a totally enclosed florescent

23.30.511.3 **Classifications of Locations**

Delete the exception to (B)(1):

Exception: Where the enforcing agency determines that there is mechanical ventilation providing a minimum of four air changes 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 within 0.3 m (12 in.) of the floor.

Revise (B)(2) by adding the phrase “ in existing buildings ” to make (B)(2) read:

(2) Within 457 mm (18 in.) of the Ceiling. Where compressed natural gas (CNG) vehicles are repaired or stored, the area within 457 mm (18 in.) of the ceiling shall be classified as Class I, Division 2, except in existing buildings where ventilation of at least four air changes per hour is provided. [NFPA 88B, 3-1.1]

Revise (B) (4) by adding the phrase “in existing buildings” to make (B)(4) read:

(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 mechanically ventilated at a rate of four or more air changes per hour or where effectively cut off by walls or partitions.