

Chapter E 514

GASOLINE DISPENSING AND SERVICE STATIONS

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E 514.01 Definitions. (1) This classification shall include locations where gasoline or other volatile flammable liquids or liquefied flammable gases are transferred to the fuel tanks (including auxiliary fuel tanks) of self-propelled vehicles. Dispensing islands are areas elevated above surrounding surfaces and on which are mounted dispensing pumps or other dispensing devices. Where an individual pump or dispensing device is not mounted on an elevated island, an area extending 18 inches in all directions from the base of the pump or device shall be considered to be a dispensing island.

(2) Other areas used as lubricatoriums, service rooms and repair rooms, and offices, salesrooms, compressor rooms and similar locations shall conform to chapter E 511 with respect to electrical wiring and equipment.

History: Cr. Register, November, 1961, No. 71, eff. 12-1-61.

E 514.02 Hazardous areas. (1) The area of a dispensing island shall be considered to be a class I, division 1 location which shall extend upward to a level 4 feet above adjacent driveway level, and which shall include any space within or under the island which may contain electrical wiring or equipment.

(2) In an outside location, any area (including buildings not suitably cut off) within 20 feet horizontally from any dispensing island or pump, or from any tank fill-pipe or tank vent-pipe, shall be considered to be a class I, division 2 location which shall extend upward to a level 18 inches above driveway or ground level. Electrical wiring and equipment, any portion of which is below the surface of such areas, shall be considered to be within a class I, division 1 location which shall extend at least to the point of emergence.

History: Cr. Register, November, 1961, No. 71, eff. 12-1-61.

E 514.03 Wiring and equipment within hazardous areas. All electrical equipment and wiring within the hazardous areas defined in section E 514.02 shall conform to applicable provisions of chapter E 501.

Note: For special requirements for conductor insulation, see section E 501.13.

History: Cr. Register, November, 1961, No. 71, eff. 12-1-61.

E 514.04 Wiring and equipment not within hazardous areas. Wiring and equipment not within hazardous areas defined in section E 514.02 shall conform to sections E 511.05 and E 511.06.

History: Cr. Register, November, 1961, No. 71, eff. 12-1-61.

E 514.05 Circuit disconnects. Each circuit leading to or through a dispensing pump or island shall be provided with a switch or other acceptable means to disconnect simultaneously from the source of supply all conductors of the circuit including the grounded neutral, if any.

History: Cr. Register, November, 1961, No. 71, eff. 12-1-61.

E 514.06 Sealing. (1) An approved seal shall be provided in each conduit run entering or leaving a dispensing pump or other enclosure on a dispensing island. There shall be no union, coupling, box or fitting in the conduit between the sealing fitting and the point at which the conduit emerges into the pump or other equipment, or into any cavities or enclosures in direct communication therewith.

Note: This paragraph states that the first fitting after the conduit emerges from the slab or from the concrete of the island must be the sealing fitting. Above the fitting, the remainder of the wiring and equipment up to the 4 foot level is required to conform to the rules for class I, division 1 locations.

(2) Additional seals shall be provided in conformance with section E 501.05 and subsections E 501.05 (1) (c) and E 501.05 (2) (b) shall apply to horizontal as well as to vertical boundaries of the defined hazardous areas.

History: Cr. Register, November, 1961, No. 71, eff. 12-1-61.

E 514.07 Grounding. Metallic portions of dispensing pumps, metallic raceways, and all non-current-carrying portions of electrical equipment, regardless of voltage, shall be grounded as provided in chapter E 250.

History: Cr. Register, November, 1961, No. 71, eff. 12-1-61.