



FIRE-MEDICAL DEPT

Guideline

Date: May 16, 2012 (revised 04/15/2020)

To: Indoor Vehicle Displays

From: Peoria Fire-Medical Department – Fire Prevention Division

Subject: Display of motor vehicles and other equipment indoors or under tents

This guideline will detail the requirements for the display of liquid or gas fueled motor vehicles, boats or other motorcraft whether indoors or under a tent. All requirements are taken from the 2018 edition of the *International Fire Code* and **are in effect now**. Permits are required for all tents and where liquid or gas fueled motor vehicles, boats or other motor-craft displays are inside an Assembly Occupancy. Site inspections shall verify compliance with these requirements.

INDOOR DISPLAYS

The display of vehicles which can also include boats or other motor-craft, whether liquid or gas fueled, shall not be located indoors except as follows, per section 314.4 of the *International Fire Code*:

1. Batteries are disconnected.
2. Fuel in fuel tanks does not exceed one-quarter tank or 5 gallons (whichever is least).
3. Fuel tanks and fill openings are closed and sealed to prevent tampering.
4. Vehicles, boats or other motorcraft equipment are not fueled or defueled within the building.

DISPLAYS WITHIN TENTS OR MEMBRANE STRUCTURES

The display of liquid or gas fueled vehicles and equipment within a tent or membrane structure shall comply with Section 3104.18 of the *International Fire Code* and shall be in accordance with the following requirements.

- **3104.18.1 Batteries.** Batteries shall be disconnected in an appropriate manner.
- **3104.18.2 Fuel systems.** Vehicles or equipment shall not be fueled or defueled within the tent or membrane structure.
 - **3104.18.2.1 Quantity limit.** Fuel in the fuel tank shall not exceed one-quarter of the tank capacity or 5 gallons, whichever is less.
 - **3104.18.2.2 Inspection.** Fuel systems shall be inspected for leaks.
 - **3104.18.2.3 Closure.** Fuel tank openings shall be locked and sealed to prevent the escape of vapors.
- **3104.18.3 Location.** The location of vehicles or equipment shall not obstruct means of egress.
- **3104.18.4 Places of assembly.** When a compressed natural gas (CNG) or liquefied petroleum gas (LP-gas) powered vehicle is parked inside a place of assembly, all the following conditions shall be met:
 1. The quarter-turn shutoff valve or other shutoff valve on the outlet of the CNG or LP-gas container shall be closed and the engine shall be operated until it stops. Valves shall remain closed while the vehicle is indoors.
 2. The hot lead of the battery shall be disconnected.
 3. Dual-fuel vehicles equipped to operate on gasoline and CNG or LP-gas shall comply with this section and Sections 3104.18.1 through 3104.18.5.3 for gasoline-powered vehicles.

- **3104.18.5 Competitions and demonstrations.** Liquid- and gas-fueled vehicles and equipment used for competition or demonstration within a tent or membrane structure shall comply with Sections 3104.18.1 through 3104.18.5.3.
 - **3104.18.5.1 Fuel storage.** Fuel for vehicles or equipment shall be stored in approved containers in an approved location outside of the structure in accordance with Section 3104.17.2.
 - **3104.18.5.2 Fueling.** Refueling shall be performed outside of the structure in accordance with Section 3104.17.3.
 - **3104.18.5.3 Spills.** Fuel spills shall be cleaned up immediately.