

2021 IFC Revisions per NFPA 30A and Industry Feedback

5707 ON-DEMAND MOBILE FUELING OPERATIONS

5707.1 General. On-demand mobile fueling operations that dispense Class I, II, and III liquids into the fuel tanks of motor vehicles shall comply with Sections 5707.1 through 5707.6.3.

Exception: Fueling from an *approved* portable container in cases of an emergency or for personal use.

5707.1.1 Approval required. Mobile fueling operations shall not be conducted without first obtaining a *permit* and approval from the *fire code official*. Mobile fueling operations shall occur only at approved locations. **Notice shall be provided to the fire code official at least 3 business days prior to fueling at a new location.**

5707.2 Mobile fueling vehicle. An on-demand mobile fueling vehicle shall be that which is utilized in on-demand fueling operations for the dispensing of Class I, II or III liquids into the fuel tanks of motor vehicles.

1. A tank vehicle in accordance with NFPA 385 that has chassis-mounted *tanks* where the aggregate cargo capacity does not exceed 1600 gallons (4592 L).
2. A vehicle with one or more chassis-mounted *tanks* or chassis-mounted *containers* that do not exceed 110 gallons (415 L) individual capacity and having an aggregate capacity that does not exceed 112 gallons (4592 L) or the weight capacity of the vehicle in accordance with DOT.
3. A vehicle that carries a maximum of 60 gallons (227 L) of motor fuel in metal *safety cans listed* in accordance with UL 30 or other *approved* metal *containers* each not to exceed 5 gallons (19 L) in capacity.

The mobile fueling vehicle shall comply with the requirements of all local, state and federal requirements.

Mobile fueling vehicles with a chassis-mounted tank in excess of 110 gallons (415 L) shall comply with the requirements of Section 5706.6, Section 5707, and NFPA 385.

The mobile fueling vehicle and its equipment shall be maintained in good repair.

Safety cans and approved metal containers shall be secured to the mobile fueling vehicle except when in use.

Fueling a motor vehicle from tanks or containers mounted in a trailer connected to a mobile fueling vehicle shall be prohibited.

5707.3 Required documents. Documents developed to comply with Sections 5707.3.1 through 5707.3.3 shall be updated as necessary by the owner of the mobile fueling operation and shall be maintained in compliance with Section 107.3.

5707.3.1 Safety and emergency response plan. Mobile fueling operators shall have an *approved* written safety and emergency response plan that establishes policies and procedures for fire safety, spill prevention and control, personnel training and compliance with other applicable requirements of this code. **The safety and emergency response plan shall specifically address and require that operators assess surroundings prior to fueling to consider the presence of the following:**

- all buildings and structures
- *lot lines*
- electric car chargers
- solar photovoltaic parking lot canopies
- Appurtenances on site and their use or function
- All uses adjacent to the *lot lines* of the site
- the locations of all storm drain openings and adjacent waterways or wetlands
- lot grading, natural drainage, curbing, and impounding
- how a spill will be kept on the site property
- General site housekeeping

5707.3.2 Training records. Mobile fueling vehicles shall be operated only by designated personnel who are trained on proper fueling procedures and the safety and emergency response plan. Training records of operators shall be maintained.

5707.3.3 Site-specific safety and emergency response plan. Where a site contains aboveground storage tanks containing a flammable gas or Class 1 or Class 2 liquid or where underground injection or groundwater wells are within 100 feet downgradient from the fueling site, a site-specific safety and emergency response plan shall be developed for each location at which mobile fueling occurs. The plan shall be in sufficient detail to ensure that mobile fueling operators are aware of the presence of the unique hazards and site characteristics that impact the safety of fueling operations. Site-specific safety and emergency response plans shall be maintained.

5707.4 Mobile fueling areas. The mobile fueling vehicle and point of connection of the vehicle being fueled shall not occur on public streets, *public ways*, or inside *buildings*. Fueling on the roof level of parking structures or other *buildings* is prohibited.

5707.4.1 Separation. The point of connection of the vehicle being fueled shall not take place within 25 feet (7620 mm) of *buildings*, lot lines, property lines, or combustible storage. Mobile fueling vehicles shall not park within 10 feet of buildings, lot lines, property lines, or combustible storage.

Exceptions:

1. The *fire code official* shall be authorized to decrease the separation distance for dispensing from metal *safety cans* or other *approved* metal *containers* in accordance with Section 5707.2.
2. The point of fueling shall not take place within 10 feet (3048 mm) of buildings, lot lines, property lines, or combustible storage when the mobile fueling vehicle has an approved vapor recovery system or is servicing vehicles with on board refueling vapor recovery.

When dispensing operations occur within 15 feet (4572 mm) of a storm drain, an *approved* storm drain cover or an *approved* equivalent method that will prevent any fuel from reaching the drain shall be used.

5707.4.2 Sources of ignition. Smoking, open flames, and other sources of ignition shall be prohibited within 25 feet (7620 mm) of fuel dispensing activities. Signs prohibiting smoking or open flames within 25 feet (7620 mm) of the vehicle or the point of fueling shall be prominently posted on the mobile fueling vehicle. The engines of vehicles being fueled shall be shut off during fueling.

5707.4.3 Electrical equipment. Mobile fueling shall not occur within 20 feet of electrical equipment located within 18 inches of the ground unless such electrical equipment is rated for Class I, Division 2 hazardous locations in accordance with the National Electrical Code.

5707.5 Equipment. Mobile fueling equipment shall comply with Sections 5707.5.1 through 5707.5.4.

5707.5.1 Dispensing hoses and nozzles. Where equipped, the dispensing hose shall not exceed 50 feet (15 240 mm) in length. The dispensing nozzles and hoses shall be of an *approved* and *listed* type. If metal-to-metal contact cannot be made between the nozzle and the fuel fill opening, then a means for bonding the mobile fueling vehicle to the motor vehicle shall be provided and employed during fueling operations.

5707.5.2 Break-away device. A listed break-away device shall be provided at the nozzle.

Exception: Mobile fueling vehicles equipped with an approved brake interlock tied to the nozzle holder that prohibits movement of the mobile fueling vehicle when the nozzle is removed from its holder or tied to the delivery of fuel that prevents activation of the pumping system.

5707.5.3 Shut off valve and fuel limit.. Mobile fueling vehicles shall be equipped with a listed shutoff valve assembly and a *fuel limit switch* set to a maximum of 30 gallons (116 L).

5707.5.4 Fire extinguisher. An *approved* portable fire extinguisher complying with Section 906 with a minimum rating of 4-A:80-B:C shall be provided on the mobile fueling vehicle with signage clearly indicating its location.

5707.5.5 Spill kit. Mobile fueling vehicles shall contain a minimum 5 gallon (19 L) spill kit of an *approved* type.

5707.6 Operations. Mobile fueling vehicles shall be constantly attended during fueling operations with brakes set and warning lights in operation. Mobile fueling vehicles shall not obstruct emergency vehicle access roads.

5707.6.1 Dispensing hose. Where equipped, mobile fueling vehicles shall be positioned in a manner to preclude traffic from driving over the dispensing hose. The dispensing hose shall be properly placed on an *approved* reel or in an *approved* compartment prior to moving the mobile fueling vehicle.

5707.6.2 Drip control. Operators shall place a drip pan or an absorbent pillow under the nozzle to catch drips and under each fuel fill opening prior to and during dispensing operations.

5707.6.3 Safety cones. Safety cones or other visual barriers shall be employed as warning devices to highlight the vehicle fueling area.

5707.6.4 Vehicle lights. The mobile fueling vehicle flasher lights shall be in operation while dispensing operations are in progress.

5707.6.5 Nighttime deliveries. Nighttime deliveries shall only be made in areas deemed adequately lighted by the fire code official.

5707.6.6 Spill reporting. Spills shall be reported in accordance with Section 5003.3.1.

Revise IFC Section 105.6.17 as follows:

105.6.17 Flammable and combustible liquids. An operational permit is required:

1. *no change to current text...*
2. *no change to current text...*
3. *no change to current text...*
4. *no change to current text...*
5. *no change to current text...*
6. *no change to current text...*
7. *no change to current text...*
8. *no change to current text...*
9. *no change to current text...*
10. To engage in the dispensing of liquid fuels into the fuel tanks of motor vehicles at commercial, industrial, governmental or manufacturing establishments in accordance with Section 5706.5.4 or to engage in on-demand mobile fueling operations in accordance with Section 5707.
11. To utilize a site for the dispensing of liquid fuels from tank vehicles into the fuel tanks of motor vehicles, marine craft and other special equipment at commercial, industrial, governmental or manufacturing establishments in accordance with Section 5706.5.4 or,

where required by the *fire code official*, to utilize a site for on-demand mobile fueling operations in accordance with Section 5707.

Reason: