Retail Mobile Fueling - the dispensing of fuel from a highway tank to a licensed vehicle or a watercraft that cannot be fueled at a marina

Appendix I – Retail Mobile Fueling Requirements (Normative)

I.1 Only highway tanks licensed under O. Reg. 217/01 section 10.2 are permitted for use in retail mobile fueling.

I.2 A minimum of a 80-B:C fire extinguisher and a spill kit shall be located on the highway tank.

I.3 Spill kits shall be readily available during fueling operations and they shall contain:

(a) Twenty heavy weight spill pads (hydrophobic 38cm x 45cm)
(b) Two spill socks (hydrophobic 1 m. long)
(c) Five disposable bags to contain contaminated pads/socks
(d) One - 16 kg container of granular absorbent compatible with petroleum products
(e) One drain cover - 1m x 1m (catch basin cover)
(f) Dike putty (to plug holes in tank)

I.4 Nozzles used for dispensing shall be no greater than 25.4mm (1in) in diameter and shall be of the automatic shut-off design. The fuel delivery driver shall be in attendance (within arms-reach) of the nozzle during fuel transfer.

I.5 Notwithstanding Clause I.4, the dispensing of Class II fuel may be permitted using a non-auto shut-off nozzles with a spout greater than 25.4mm (1in) in diameter where:

(a) The fuel level in the tank is visible during the fueling operation at the filling point when the fuel nozzle is inserted into the fill opening; and

(b) The fuel delivery driver, or in the case of a watercraft, the person located at the fueling position, shall maintain a constant line of sight of the level of the fuel in the fuel tank during the fueling operation to prevent a spill.

I.6Hoses through which the product is transferred shall not exceed 61 m (200 ft), and an appropriate storing mechanism shall be used to prevent damage to the hose. Hoses shall be protected from damage while in use and stored on the storing mechanism when not in use.

I.7 Highway tanks shall be equipped with a beacon light that shall be in operation during fueling operations. The light shall be designed to be readily visible to other people or vehicles entering the fueling area.

I.8 Product shall only be transferred by means of pumping. The fuel delivery driver shall have easy access to the safety switches/valves and shall shut down the flow of fuel if a hazardous situation occurs.

I.9 During fueling, the international no smoking symbol at least 10cm in diameter shall be displayed on the front and rear of the dispensing vehicle.

I.10 Dispensing requirements

I.10.1 Dispensing shall not take place within

(a) a building;
(b) 30 m of a stream, river, lake, canal, or natural watercourse;
(c) 3 m of a property line;
(d) 4.5 m of any opening in a building;
(e) 3 m from any source of ignition;
(f) 3 m from any highway as defined in the Highway Traffic Act, except as requested by an emergency services provider;
(g) A parking garage/structure; or,
(h) On the roof of any building or structure

I.10.2 The requirements of Clause I. 10.1, items (b) to (d), may be modified where the operator has a procedure in compliance with the following to mitigate the escape or loss of product:

(a)The fuel delivery driver dispensing the fuel shall have a spill pad on their person during dispensing.

(b) An approved automatic shutoff nozzle shall be used to dispense the fuel.

(c) Class I product (e.g. gasoline) shall not be dispensed at a rate in excess of 38 L/min.

(d) Class II product (e.g. diesel fuel) shall not be dispensed at a rate in excess of 120 L/min.

I.10.3 The operator shall have a spill response procedure, and personnel shall be trained in the containment, cleaning up, and reporting of spills in accordance with the requirements of Clause 8.2 of this code.

I.10.4 When fueling Class I product, the engines of vehicles being fueled shall be shut off prior to and during fueling.

I.10.5 Hoses shall not extend under vehicles and shall be positioned in a manner to prevent traffic from driving over the dispensing hose.

I.10.6 A cover or barrier shall be used to prevent fuel from entering any storm/sanitary sewer openings that are within 3 m of the fuel filling position.

I.11 Highway tanks shall be maintained to ensure the safe operation of the vehicle while transporting, loading, and dispensing products.

I.12 Operators shall have a 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.

I.13 Highway tanks shall be operated only by personnel who are trained in proper fueling procedures and the safety and emergency response plan. Training records of fuel delivery drivers shall be maintained.

I.14 The following additional requirements shall be followed when fueling a watercraft that cannot be fueled at a marina:

(a) Fuel may be dispensed within 30 m of a stream, river, lake, canal, or natural watercourse

(b) Moor the watercraft to a fixed point, dock, buoy, work platform or wharf using mooring lines (ropes) so that the watercraft stays secure and allows for safe fueling operations.

(c) The highway tank and the receiving watercraft shall be bonded.

(d) Where possible, the highway tank shall be grounded to an earth stud located at the dock, buoy, work platform or wharf.

(e) Where the fill position is located on the deck, scuppers within 3 m of the fill position shall be plugged before the transfer of fuel.

(f) In addition to the fuel delivery driver, there shall be at least one other person designated to aid in the fuel transfer. One person shall be located in close proximity to the truck's emergency shut off switch who is in constant communication with the other person who shall be located at the fueling position. This communication shall be maintained until fueling is complete.

(g) An emergency stop procedure shall be agreed upon between the personnel identified in I.14(f) prior to the transfer of fuel.

(h) The fuel transfer shall be initially supplied at low flow rate and monitored for leaks and spills until safe fueling is established. Thereafter, the flow rate can be increased to its normal setting.

(i) During watercraft fueling operations, the personnel identified in I.14(f) shall check for leaks and spills and specifically scan the area adjacent to the fueling operation for possible leaks or spills.

(j) During watercraft fueling operations, in addition to the spill response equipment identified in I.3, the following spill response equipment shall also be available and in close proximity to the fueling area: four – 13 cm x 3 m Floating - Oil-Only - Sorbent Booms

(k) A minimum 80-B:C fire extinguisher shall be located on the watercraft being fueled close to the fueling location.

(l) For dispensing of class I product, no one other than the person identified in I.14(f) shall be on board the watercraft during fueling.

(m) If equipped with an engine space blower, no person shall start up a gasoline-powered watercraft unless the blower has been operated for a period of not less than four minutes immediately before start-up.

(n) The fueling of the watercraft shall be limited to maximum of 90% of the watercraft's fuel tank capacity.

I.15 Notify the Director (TSSA) of a spill, leak, or discovery of a petroleum product that has escaped to the environment or inside a building by phoning 877-682-8772.