

# **Supplement Rules Regarding Fuel Towers**

6/Hours of Pacific Raceways

March 8<sup>th</sup>, 2009

## **Fueling Towers**

**1-1.1** Fueling in hot pit lane during a race may be done with a gravity-fed fueling rig inspected and approved by Authorized Tech. Officials prior to the race, and meeting the following specifications:

The rig must be a vented overhead fuel rig with a maximum overall height of 6 feet (excluding the vent), as measured from the pit-lane surface, and a maximum capacity of 65 gallons.

The fuel rig must have adjustable legs in order to compensate for various track/pit lane pavement levels, such that the refueling rig is stable, and reasonably level.

The fuel rig may have a single fuel hose, or a vent and single fuel hose for double dry-break configurations.

The fuel hose must be no greater than 1.5-inch diameter with a minimum length of 10 feet, and be specifically designed for the transport of fuel.

An automatic shut-off valve must be attached to the fuel tank outlet at the base of the tank, and must be manned during fueling.

The shut-off valve must immediately stop the flow of fuel into the hose when it is manually released.

The valve may not be fitted with any device that allows it to remain in the open position.

A grounding strap is recommended.

**1-1.2** The fueling rig may not be refilled during a pit stop.

**1-1.3** The addition of weight or any other force is not permitted on, or in the fueling tank for the purposes of increased fuel flow, beyond that of normal gravity.

**1-1.4** All dry-break fueling couplings fitted in the vehicle, as well as on the filler hose and vent hose (if applicable), must comply with the dead-man principle.

The couplings must not incorporate any retaining device when in the open position.

**1-1.5** Dual probe fuel tank filler and vent systems must be equipped with a leak-proof probe dry break coupling on both the filler and vent, complying with the dead man principle. The couplings must not incorporate any retaining device when in an open position. A vent hose not greater than 1.5-inch diameter, specifically designed for the transport of fuel, must connect from the dry break vent probe into the car and to the overhead fueling tank.

**1-1.6** Fuel tank filler and vent may not protrude beyond the bodywork or be placed in a vulnerable location.

**1-1.7** Non-dry break fueling systems: the filler nozzle must be manned at all times during fueling, and must also comply with the dead-man principle – the filler nozzle must immediately stop the flow of fuel when it is manually released. Leaving a filler nozzle unmanned and attached to the vehicle will result in a 5-lap penalty for the first offense, 10-lap penalty for the second offense, and disqualification for the third offense.

**1-1.8** Any vehicle utilizing a refueling tower/rig system must install gravity-activated roll-over valves on any breather pipe/hose connecting the fuel cell/tank to the atmosphere, to control fuel loss under any condition.

**1-1.9** Any vehicle utilizing a refueling tower/rig system may not locate the filler/vent in the rear window.

**1-1.10** Authorized Tech. Officials, at their discretion, will reject any fuel coupling/nozzle, vent, hose, shut-off valve, or fueling tower system, if it appears to be damaged, defective, or does not function properly.

**1-1.11** Fueling is not permitted while the car is on Jack Stands.

**1-1.12** Fuelers and fire bottle person must also wear fire resistant gloves, shoes, socks, Balaclava and eye protection to include a full face helmet and working functional shield during fueling. It is recommended that all crew members wear fire resistant gloves, shoes and socks at all times when fueling is taking place.

**1-1.13** Teams are permitted to store up to 55 gallons of fuel over what is in their overhead fueling rigs.

**1-1.14** Fuel must be transferred by approved air or manual pumps only. Open fuel transfer is not permitted.

**1-1.15** Fueling on the starting grid is not permitted.

**1-1.16** All fueling during a race must take place in the pit lane unless a car is out of fuel, in which case the car may be fueled on course with permission of the Race Chairmen and/or Stewards.

**1-1.17** Anytime fueling is taking place, or fuel is being transferred, a fully charged manned 10 lb. ABC fire extinguisher must be present.