

LNG Engine Fuel Systems

Disclaimer: This checklist is not intended to be a definitive or exhaustive listing of all statutes, safety rules, regulations or codes that may be applicable. It is intended as a general guideline for assisting licensees and stakeholders in complying with state statutes, the Commission's safety rules and adopted national and federal codes that are specific to LNG ENGINE FUEL SYSTEMS. The officially published statute, rule or code shall prevail in the event of a conflict with those referenced in the checklist. The checklist may be used to verify compliance prior to placing equipment in service or for routine maintenance audits to ensure continued compliance with applicable safety requirements.

COMPONENTS		
<input type="checkbox"/>	Fuel-carrying components (excluding service valves, tubing, and fittings) shall be labeled or stamped with:	14.2604(c)
<input type="checkbox"/>	Manufacturer's name or symbol	14.2604(c)(1)
<input type="checkbox"/>	Model designation	14.2604(c)(2)
<input type="checkbox"/>	Maximum allowable working pressure	14.2604(c)(3)
<input type="checkbox"/>	Design temperature range	14.2604(c)(4)
<input type="checkbox"/>	Fuel flow direction	14.2604(c)(5)
<input type="checkbox"/>	Capacity or electrical rating	14.2604(c)(6)
FUEL DELIVERY		
<input type="checkbox"/>	Vaporizers permanently marked at readily visible point with maximum allowable working pressure	14.2613(a)
<input type="checkbox"/>	PRV vented to outside	14.2613(b)
<input type="checkbox"/>	Vents not to wheel well	14.2613(c)
<input type="checkbox"/>	Vents do not restrict PRV	14.2613(d)
<input type="checkbox"/>	Escaping gas does not impinge on container; vents to safe location	14.2613(e)
<input type="checkbox"/>	PRV vents not directed at container, any part of vehicle, other people or vehicles, or inside vehicle	14.2613(f)
<input type="checkbox"/>	At least two monitoring sensors	14.2613(g)
<input type="checkbox"/>	Piping shielded and protected	14.2619(a)
<input type="checkbox"/>	Fuel lines braced/supported every 21" to 27"	14.2619(b)
<input type="checkbox"/>	Fuel lines protected by grommets	14.2619(c)
<input type="checkbox"/>	Fuel lines, minimum 8" from exhaust or shielded	14.2619(d)
<input type="checkbox"/>	Hydrostatic relief valves	14.2619(f)
<input type="checkbox"/>	Fueling system has backflow check valve	14.2622(e)
<input type="checkbox"/>	Pressure gauge in driver's compartment has no gas	14.2625(b)
<input type="checkbox"/>	Wiring properly installed, supported, and secured	14.2631(a) 14.2631(b)
<input type="checkbox"/>	Fueling connection reliable and secure	14.2634(a)
CONTAINERS		
<input type="checkbox"/>	Containers shall have permanent ID markings, decals or stencils to ID:	14.2607(g)
<input type="checkbox"/>	Total volumetric capacity in gallons	14.2607(g)(1)
<input type="checkbox"/>	"FOR LNG ONLY" all caps, 1" letters	14.2607(g)(2)
<input type="checkbox"/>	Inlets and outlets marked "vapor" or "liquid"	14.2607(g)(3)
<input type="checkbox"/>	Valves readily accessible, operable without tools	14.2607(j)
<input type="checkbox"/>	Shut off valves on liquid and vapor and marked "VAPOR SHUT OFF VALVE" and "LIQUID SHUT OFF VALVE"	14.2607(j)

LNG Engine Fuel Systems *(continued)*

<input type="checkbox"/>	Components and containers mounted to minimize damage from collision	14.2610(a)(2)
<input type="checkbox"/>	Road clearance	14.2610(a)(3)
<input type="checkbox"/>	No portion ahead of front axle or behind rear bumper	14.2610(a)(4)
<input type="checkbox"/>	8" from exhaust or shielded	14.2610(a)(5)
<input type="checkbox"/>	Mountings minimize corrosion	14.2610(a)(6)
<input type="checkbox"/>	Container external or sealed	14.2610(b)(1)
<input type="checkbox"/>	Brackets marked with manufacturer's name or logo	14.2610(b)(2)
<input type="checkbox"/>	Weight of container not supported by outlet, service valves, manifolds, or other fuel connections	14.2610(b)(4)
<input type="checkbox"/>	Container markings readable after installation	14.2610(b)(d)
<input type="checkbox"/>	Remote fill door hinged or latched, not locked	14.2610(b)(f)
MAINTENANCE		
<input type="checkbox"/>	General maintenance	14.2643(a)
<input type="checkbox"/>	Pressure relief valves and fuel lines, not repairable	14.2643(b)
SIGNS AND LABELING		
<input type="checkbox"/>	Signs and labeling readily visible, weather-resistant	14.2637(a)
<input type="checkbox"/>	"LNG FUELED VEHICLE" — 2" high — fueling receptacle and engine	14.2637(a)
<input type="checkbox"/>	Name and number of licensee (not if OEM) in engine compartment	14.2637(a)
<input type="checkbox"/>	"Maximum allowable working pressure_____" — Fueling receptacle	14.2637(a)
<input type="checkbox"/>	"Container Capacity ___Gallons" at fueling receptacle	14.2637(a)
<input type="checkbox"/>	Weather-resistant diamond-shaped label — "LNG" 4 ¾" X 3 ¼"	14.2637(b)
<input type="checkbox"/>	Licensee info for conversions: name, number, year and month	14.2637(c)