

SPS 340.42 Gas Systems Dispensing CHECK LIST Motor Fuel Dispensing Facilities and Repair Garages NFPA 30A – 2008 Ed

Owner:		City;	State/zip				
Location:		Contact Phone	:	Cell:			
Tank Manufacturers			_ Tank Capacity	Year Built			
Vessel Marking:NB/S		/Ser No. (Circle one)	MAWP	QTY			
Code	Code Item Description						
340.42	All vehicle-fuel dispensing systems shall comply with whichever of the following are applicable:						
	(1) NFPA 30A section 4.3.7.2 and chapter 12, if Class I or Class II liquids are dispensed as motor fuels along with a						
	fuel gas regulated by this chapter.						
	(2) NFPA 52, if liquefied natural gas, compressed natural gas, gaseous hydrogen or liquefied hydrogen are dispensed						
	in the absence of Class I and Class II liquids.						
	(3) NFPA 58, if liquefied petrole						
	Note: Class I and II liquids are classified in NFPA 30A as having a flash point below 140°F. NFPA-30A Chapter 12 and para. 4.3.7.2						
4.3.7.2	Guard posts or other approved m			t to vehicular damage. When			
<b>ч.</b> Ј./.Д	Guard posts or other approved means shall be provided to protect tanks that are subject to vehicular damage. When guard posts are installed, the following design shall be acceptable:						
	(1) They shall be constructed of steel not less than 100 mm (4 in.) in diameter and shall be filled with concrete.						
	(2) They shall be spaced not more than 1.2 m (4 ft) on center.						
	(3) They shall be set not less than	n 0.9 m (3 ft) deep in a concre		n 380mm (15 in.) diameter			
		12.2 General Requirem					
12.1	Scope. This chapter shall apply where CNG, LNG, compressed or liquefied hydrogen, LP-Gas, or combinations of these, are dispensed as motor vehicle fuels along with Class I or Class II liquids that are also dispensed as motor						
		ncle fuels along with Class I	or Class II liquids that ar	e also dispensed as motor			
12.2.2	vehicle fuels.	anneate to the disperson sum	ly nining and that mayon	to flow in the event that the			
12.2.2	A means shall be provided that c		ly piping and that preven	its now in the event that the			
12.2.3	dispenser is displaced from its mounting. Dispensing devices for CNG, LNG, and LP-Gas shall be listed						
12.2.3	Listed hose assemblies shall be used to dispense fuel. Hose length at automotive motor fuel dispensing facilities shall						
121211	not exceed 5.5 m (18 ft).						
	· · · ·	12.3 Fuel Storage.					
12.3.1	Aboveground tanks storing CNG or LNG shall be separated from any adjacent property line that is or can be built						
	upon, any public way, and the ne		he same property by not l	less than the distances givers in			
10.0.0	Section 8.4 of NFPA 52, Vehicul			that is an early he heritan and			
12.3.2	Aboveground tanks storing LP-Gas shall be separated from any adjacent property line that is or can be built upon, any public way, and the nearest important building on the same property by not less than the distances given in Section 6.2						
	of NEPA 58, <i>Liquefied Petroleur</i>	6 1	operty by not less than th	le distances given in Section 0.2			
12.3.3	Aboveground tanks storing CNG		parated from each other	by at least 6 m (20 ft) and from			
121010	dispensing devices that dispense						
	Exception No. 1: This required s						
	composition.						
	Exception No. 2: When both the						
	aboveground motor fuel storage						
	Code, or NFPA 58, Liquefied Pe						
12.3.4	Aboveground storage tanks for the	he storage of CNG, LNG, or l	LP-Gas shall be provided	with physical protection in			
1225	accordance with 4.3.7. Horizontal separation shall not be required between aboveground tanks storing CNG, LNG, or LP-Gas and						
12.3.5	underground tanks containing Class I or Class II liquids, provided the structural limitations of the underground tanks						
	are not exceeded.	uss i or cluss ir irquius, prov.	aca no su acturar militat	tons of the underground tanks			
12.4	Dispenser Installations Beneath (	Canopies. Where CNG or LN	G dispensers are installed	d beneath a canopy or enclosure.			
	either the canopy or enclosure sh						
	electrical equipment installed ber	• •	-	-			
	(classified) locations.						
12.5 Specific Requirements for LP-Gas Dispensing Devices.							
12.5.1	Dispensing devices for LP-Gas shall meet all applicable requirements of NFPA 58, <i>Liquefied Petroleum Gas Code</i> , and shall incorporate a dispensing nozzle that releases not more than 2 cm <sup>3</sup> (0.12 in. <sup>3</sup> ) of liquid LP-Gas upon						
		g nozzle that releases not mo	re than $2 \text{ cm}^3 (0.12 \text{ in.}^3)$ (	or liquid LP-Gas upon			
	disconnection.						



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12.5.2	Dispensing devices for LP-Gas shall be located not less than 1.5 m (5 ft) from any dispensing device for Class I liquids.			
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12.6 Electrical Equipment.				
12.6.1	All electrical wiring and electrical utilization equipment shall be of a type specified by, and shall be installed in			
	accordance with, NFPA 70, National Electrical Code.			
12.6.2	Table 12.6.2 shall be used to delineate and classify areas for the purpose of installation of electrical wiring and			
	electrical utilization equipment.			

## Table 12.6.2 Electrical Equipment Classified Areas for Dispensing Devices

Disponsing	Extent of Classified Area			
Dispensing Device	Class I, Division 1	Class I, Division 2		
Compressed natural gas	Entire space within the dispenser enclosure	1.5 m (5 ft) in all directions from dispenser enclosure		
Liquefied natural gas	Entire space within the dispenser enclosure and 1.5 m (5 ft) in all directions from the dispenser enclosure	From 1.5 m (5 ft) to 3 m (10 ft) in all directions from the dispenser enclosure		
Liquefied petroleum gas	Entire space within the dispenser enclosure; 46 cm (18 in.) from the exterior surface of the dispenser enclosure to an elevation of 1.22 m (4 ft) above the base of the dispenser; the entire pit or open space beneath the dispenser and within 6 m (20 ft) horizontally from any edge of the dispenser when the pit or trench is not mechanically ventilated	Up to 46 cm (18 in.) above ground and within 6 m (20 ft) horizontally from any edge of the dispenser enclosure, including pits or trenches within this area when provided with adequate mechanical ventilation		

## NOTES: