



## SPS 340.70 Compressed Natural Gas Systems (CNG) Checklist Vehicular Fuel Gas Systems Code NFPA 52 – 2010 Ed

Owner: \_\_\_\_\_ City: \_\_\_\_\_ State/zip \_\_\_\_\_

Location: \_\_\_\_\_ Contact Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

Tank Manufacturers \_\_\_\_\_ Tank Capacity \_\_\_\_\_ Year Built \_\_\_\_\_

Vessel Marking: \_\_\_\_\_ NB/Ser No. \_\_\_\_\_ MAWP \_\_\_\_\_ QTY. \_\_\_\_\_  
(Circle one)

Code Section	Item Description
<b>NFPA-30A Chap 12 &amp; para. 4.3.7.2</b>	<b>SPS 340.42(1)</b> This chapter shall apply where CNG is dispensed as motor vehicle fuel along with Class I or Class II liquids. <b>NFPA 30A 4.3.7.2</b> Guard Posts or other approved means
<b>General CNG Requirements and Equipment Qualifications</b>	
4.4.1 – 4.4.3	Container material; marking ; prior Mfg.
4.4.4 - 4.4.4.2	Cylinder Mfg; marking; test; insp. etc.
4.4.5.1- 4.4.5.3	ASME Compliance vessels
4.4.7 -4.4.7.1	Repair & Alteration ASME vessels
4.5.2	Stationary Vessels Have ASME PRVS.
4.5.2.2 - 4.5.2.2.3	Pressure Relief valves adjustment seals, repair .
4.6	Pressure Gauge 1.2 X system design Pressure
4.7 - 4.7.2	Pressure regulators
4.8.1 – 4.8.5	Fuel lines; ASME B31.3; materials; Piping components design F.S. of 3
4.9.1 - 4.9.4	Valves; Bodies Marked for service ratings
4.10.1 – 4.10.4	Hose and Connections design burst = 4 X service press.
<b>CNG Compression, Gas Processing, Storage, and Dispensing Systems</b>	
8.3.1	If served by utility is utility notified
8.3.2	Protection from damage and vandalism
8.3.7 -8.3.12	Compression equipment requirements
8.4.1.2	General foundation requirements to adopted bldg code
<b>OUTDOORS</b>	
8.4.2.2	Acceptable Sheltered construction considered outdoors
8.4.2.3	Equipment not under power lines 10' Bldg/property line
8.4.2.4	Equipment not < 10'-Sidewalk and 50'-Rail road
8.4.2.5	Clear Area of 3' access to Valves/fittings of multi-group Container
8.4.2.6	No Combustibles within 10' of Container
8.4.2.7	Minimum Separation of Container and combustible liquids shall be 20'
8.4.2.8	Point of Transfer > 10' from building/home/sidewalk etc.3' from storage
<b>INDOORS</b>	
8.4.3.1	General requirement allowing equipment indoors
8.4.3.2	Limit of Storage in Buildings 10,000 scf
8.4.3.3 – 8.4.3.3.2	Deflagration venting
8.4.3.4 – 8.4.3.4.6	Rooms within bldgs. Construction & Venting
8.4.3.5 -8.4.3.5.3	Ventilation inlets & outlets
8.4.3.5.4 – 8.4.3.7	Ventilation Systems; flow rates; Auto shut downs; gas detection
8.4.3.8 -8.4.3.9	Electrical classification
8.4.3.10	PRD venting
8.4.3.11 – 8.4.3.11.2	Warning Signs
8.4.3.12 – 8.4.3.12.2	Indoor Fast Filling, Outdoor Storage & Compression
<b>Installation of Containers and Appurtenances</b>	
8.5.1 – 8.5.1.2	Storage containers Foundations / Vaults; 2 support points; anchored if flood area
8.5.2 – 8.5.2.2	Containers shall be Painted; no direct contact; composite per mfg
8.5.3	Prevent combustible liquids under tanks by grading, pads, curbs
8.6.1	Pressure Relief discharge is to safe local
8.6.2	PV relief valve discharge vertical & caps
8.6.3	OPD installed in fuel transfer system
8.6.4	Set pressure of OPD 125% fuel nozzle supply
8.6.5 – 8.6.6	Port block valves if approved and locks
8.7.1 -8.7.2	Pressure Regulators protected from elements; insects; crud!
8.8	Gauges or other readouts installed for <input type="checkbox"/> Compression discharge pressure, <input type="checkbox"/> Storage pressure, and <input type="checkbox"/> Dispenser discharge
8.9.1 - 8.9.1.3	Piping & Hose installation conditions for AG & UG location

