

Seattle Fire Department

Permit Conditions

5205-CNG

CNG – Motor Vehicle Fueling Station

This permit shall be kept on the premises designated herein at all times and shall be readily available for inspection by the fire code official. [SFC 105.3.5]

1. Containers, compressors, pressure relief devices (including pressure relief valves) and pressure regulators and piping used for CNG shall be approved. [SFC 2208.2.1]
2. Hoses, hose connections, dispensers, gas detection systems and electrical equipment used for CNG shall be listed. [SFC 2208.2.2]
3. Vehicle fueling connections shall be listed and labeled. [SFC 2208.2.2]
4. Compression, storage and dispensing equipment shall be located aboveground outside. [SFC 2208.2.3]
5. Gas detection systems, alarms and automatic emergency shutoff valves shall be tested at the time of installation and at one of the intervals listed below. Written records of the tests conducted or maintenance performed shall be maintained by the owner and made available to the fire code official upon request.
 - 1) Not less than annually;
 - 2) In accordance with the approved manufacturers' requirements;
 - 3) In accordance with approved recognized industry standards; or
 - 4) In accordance with an approved schedule. [SFC 105.3, 2703.2.9.2]
6. Dispensing devices shall be located:
 - 10 feet or more from lot lines,
 - 10 feet or more from buildings, public streets, sidewalks or sources of ignition. **Exception:** Canopies constructed in accordance with the Seattle Building Code providing weather protection for the fuel islands,
 - Such that all portions of the vehicles being fueled will be on the premises of the motor fuel dispensing facility,
 - Such that the nozzle when the fueling hose is fully extended does not reach to within 5 feet of building openings,
 - 20 feet or more from fixed sources of ignition, including unrated electrical equipment,
 - Not beneath power lines,
 - 25 feet or more from the nearest rail of any railroad track and 50 feet or more from the nearest rail of any railroad main track or any railroad or transit line where power for the train propulsion is provided by an outside electrical source such as third rail or overhead catenary, and
 - 50 feet or more from the vertical plane below the nearest overhead wire of a trolley bus line.[SFC 2203.1, 2208.3.1]
7. Dispensing equipment shall comply with the following:
 - Dispensing devices shall be programmed or set to limit uninterrupted fuel delivery to 25 gallons and require a manual action to resume delivery.
 - The amount of fuel being dispensed shall be limited in quantity by a preprogrammed card as approved.[SFC 2204.3.7]
8. Pressure regulators designed and installed or protected to ensure their operation is not affected by the elements. Such protection is allowed to be integral to the regulator. [SFC 2208.5]
9. Gas piping to the equipment shall be provided with a remote, readily accessible manual shut off valve. [SFC 2208.6]
10. An emergency shut down control shall be located within 75 feet of, but not less than 25 feet from, dispensers and shall also be provided in the compressor area. [SFC 2208.7]
11. Upon activation, the emergency shutdown system shall:

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- 1) automatically shut off the power supply to the compressor and,
 - 2) close valves between the main gas supply and the compressor and between the storage container and the dispensers. [2208.7]
12. Self-service CNG-dispensing systems including key, code and card-lock dispensing systems, shall be limited to the filling of permanently mounted containers on CNG-powered vehicles. [SFC 2208.4]
 13. The owner of a self-service CNG motor vehicle fuel-dispensing facility including key, code and card-lock systems shall ensure the safe operation of the system and training of users. [SFC 2208.4]
 14. The owner or operator shall provide, and be accountable for, daily site visits, regular equipment inspections and maintenance. [SFC 2204.3.1]
 15. Where concrete wheel stops (bumper curbs) are used to prevent vehicles from coming in contact with the CNG distribution piping at slow-fill fueling facilities, the owner or operator shall ensure that such wheel stops are maintained properly and securely anchored in place. [SFC 105.3]
 16. At unattended self-service motor fuel-dispensing facilities, dispenser operating instructions shall be conspicuously posted in approved locations on every dispenser and shall indicate the location of the emergency controls. [SFC 2204.3.4]
 17. An approved emergency procedures sign shall be posted in a conspicuous location and shall read:
IN CASE OF FIRE, SPILL OR RELEASE
1. USE EMERGENCY PUMP SHUTOFF
2. REPORT THE ACCIDENT!
FIRE DEPARTMENT TELEPHONE NUMBER _____
FACILITY ADDRESS _____ [SFC 2204.3.5]
 18. A telephone not requiring a coin to operate or other approved, clearly identified means to notify the fire department shall be provided on site in an approved location. [2204.3.6]
 19. Smoking shall be prohibited within 25 feet of CNG storage, dispensing or use areas. [SFC 2703.7.1]
 20. No Smoking signs shall be conspicuously posted throughout the facility. [SFC 2703.7.1]
 21. Approved fire lanes shall have a width of not less than 20 feet and shall not be obstructed in any manner, including the parking of vehicles. [SFC 503.4, 503.2.1]
 22. Approved portable fire extinguishers having a minimum rating of 3A:40-BC shall be located throughout the station a maximum travel distance of 30 feet and remain unobstructed or obscured from view. Such extinguishers shall be inspected and maintained in accordance with NFPA 10. [SFC 906]