The Commonwealth of Massachusetts
Department of Fire Services
Office of the State Fire Marshal
Post Office Box 1025, Stow, Massachusetts 01775
(978) 567-3300 Fax: (978) 567-3199

Certificate of Completion
CNG Installation 527 CMR: 26.08 (1)(d)

In accordance with 527 CMR: 26.08 (1)(d) this certificate of completion shall be filed with the head of the fire department upon completion of any installation or connection authorized by a permit to install CNG.
(Please print or type)

Name owner/occupant: _____

Address: _____

City/Town: _____ Zip: _____

Name of individual or firm doing installation: _____

Address of individual or firm: _____

_____

Telephone #: _____ Date of completion: _____

I the undersigned certify that the installation of CNG equipment has been made in accordance with 527 CMR 26.00: Compressed Natural Gas Containers and Systems currently in effect.

Signature of installer: _____ Date: _____

To be completed by Local Fire Department

This facility may dispense CNG only after the installation has passed inspection by the head of the fire department (and/or the State Fire Marshal) or his designee.

☐ **Approved** ☐ **Disapproved**

Signature: _____ Date: _____
Head of the Fire Department or his Designee

Forward copy to the: Office of the State Fire Marshal
Compliance Unit
P.O. Box 1025
Stow, MA 01775

ALL INSTALLATIONS

- ☐ 4.03 (1)d All applications must be on Form 1
- ☐ 4.03 (1)e Over 10,000 gallons on site requires License & Permit from local community
- ☐ 4.03 (1)g Certificate of Competency required, no other license acceptable, plumbing, electrical, etc.
- ☐ 4.04 (3)a Verify emergency shut-off is outside burner room
- ☐ 4.04 (4)b Verify separate circuit for oil burner
- ☐ 4.04 (4)e Verify presence of overhead thermal switch
- ☐ 4.04 (4)c Verify presence of service switch within 3' of burner
- ☐ 4.04 (3)b Verify presence of high limit controller
- ☐ 4 04 (3)c(1) Primary control has safety timing of 45 secs. (max.)
- ☐ 4.04 (4)d Stack type primary may be easily removed
- ☐ 4.04 (3)d Steam boiler equipped with low-water cut-off
- ☐ 4.04 (4)f Clear access to clean out and services panels
- ☐ 4.04 (5)b No oil leaks present at burner
- ☐ 4.04 (5)d Installation instructions present on site
- ☐ 4.04 (5)f Overhead combustible clearances within 5 feet over unit Gypsum board or sprinkler required unless unit is AFUE (Furnace or Boiler) rated or EF (water heater)
- ☐ 4.04 (5)g Combustion test results on Form 1
- ☐ 4.04 (9)b(12) Three metal screws at each joint in chimney
- ☐ 4.04 (9)b(7) Thimble present at chimney connection
- ☐ 4.04 (9)d IF POWER VENTER IS USED: Check air pressure switch, post purge control and secondary control. Installation instructions present.
- ☐ 4.04 (9)f Draft regulator is present unless exempted
- ☐ 4.04 (5)m Adequate air is present for combustion
- ☐ 4.04 (5)o Adequate clearances per manufacturers listing
- ☐ 4.04 (2)i Thermal valves at burner and tanks
- ☐ 4.04 (1)b Listed flexible hose may be used.
- ☐ 4.04 (1)c No Teflon tape on oil line or on oil line fittings
- ☐ 4.04 (1)c No compression fittings are permitted
- ☐ 4.04 (1)c Solder joints made with 500 degree F solder or greater
- ☐ 4.04 (1)e All oil lines must be protected from injury. All new lines must be continuously sleeved with non metallic tubing. Oil safety valves may be used on existing lines not exposed to freezing. Overhead lines require no sleeve and are permitted
- ☐ 4.04 (1)f Oil lines exposed to freezing temperatures must come off the top of tanks
  Lines for kerosene, and range oil (#1) are exempt -
- ☐ 4.04 (1)i No oil leaks present at tank
- ☐ 4.04 (1)j Listed oil filter is present
- ☐ 4.03 (5)b Tank is UL80 or (DIB+) PV-VI 321 (under 660 gal) or UL 142 (over 600 gal)
- ☐ 4.03 (5)e Shutoff valve located at bottom of tank
- ☐ 4.03 (5)f Size of vent as per Table 4.03A
- ☐ 4.03 (5)g Oil tank gauge must be present to determine oil level
- ☐ 4.03 (11)c Inside tanks have audible fill device (vent alarm)
- ☐ 4.03 (5)j Outlet cross connection at bottom of tanks must be 1/2" pipe or tubing.
- ☐ 4.03 (5)l Non-combustible tank supports, tank secure.

Note To Installer: Inspections will be conducted using this checklist as a guideline. Current regulations will apply.

UNENCLOSED TANKS

- ☐ 4.03 (6)b Single tanks shall not be larger than 660 gallons
- ☐ 4.03 (6)b Maximum aggregate capacity of unenclosed multiple tanks is 1320 gallons
- ☐ 4 03 (6)d Unenclosed tanks shall be at least five feet from an internal or external flame
- ☐ 4.03 (6)d Unenclosed tanks shall not obstruct service meters, service panels and shutoff valves
- ☐ 4.03 (6)e Bottom outlet tanks pitched to the opening 1/4"per ft.
- ☐ 4.03 (6)f Tanks exposed to vehicles will be protected by barriers

ENCLOSED TANKS

- ☐ 4.03 (7)a Over 660 gallon tanks enclosed by two hour fire resistive assembly
- ☐ 4.03 (7)b Tank enclosures provided with 6" high tight sills or ramps
- ☐ 4.03 (7)d Tank is 4" above floor supported by 12" thick masonry saddles spaced not more than eight feet on centers and 15" from top and walls of enclosure
- ☐ 4.03 (7)e All oil must be transferred by pump, and connections must be at the top of the tank

ALL TANKS

- ☐ 4.03 (9)d Two tanks may be cross-connected as shown in Fig. 4.03 1.
- ☐ 4.03 (10)b Return lines must enter the top of tanks
- ☐ 4.03 (9)c Vent pipes must be two feet from building openings
- ☐ 4.03 (9)c Vent pipes must terminate 3 ft. above grade min.
- ☐ 4.03 (9)c Vent pipes must have weatherproof caps
- ☐ 4.03 (10)a Fill pipes must be two feet from building openings
- ☐ 4.03 (10)a Fill pipes must have tamper proof identifying caps
- ☐ 4.04 (9)d IF POWER VENTER IS USED:

  All outside connections sealed Vent terminal must be three feet above all air inlets within 10ft. Burner air intake is exempted Vent terminal must be four feet from doors and windows. Vent must be one foot above finished grade. Three foot clearance from inside corners. Not above or within three feet of an oil tank. Seven feet above a public walkway.

  IF UNDER PORCH OR DECK: Heating use only, no hot water. Four feet below deck AND not enclosed under deck

OUTSIDE TANKS

- ☐ 4.03 (8)a All UST's and tanks over 660 gallons must be installed as per CMR 9.00
- ☐ 4.03 (8)c Tank protected from physical damage
- ☐ 4.03 (8)c Tanks exterior coated with organic alkyd resin or asphalt paint
- ☐ 4.03 (8)c Damaged protective coatings must be recovered
- ☐ 4.03 (8)c Tank does not block means of egress
- ☐ 4.03 (8)d Tank mounted on continuous 4" thick slab that extends 8" beyond tank perimeter
- ☐ 4.03 (8)d Tank is supported by rigid non-combustible supports