



The Commonwealth of Massachusetts  
 Department of Public Safety  
 527 CMR 4.00  
 Form 1

Application for Permit, Permit, and Certificate of Completion for the Installation or  
 Alteration of Fuel Oil Burning Equipment and the Storage of Fuel Oil

BARNSTABLE

Permit #'s: FD \_\_\_\_\_ Elec. \_\_\_\_\_ (City or Town) BARNSTABLE (Date) \_\_\_\_\_  
 FDID #: 01919 Fee Paid: \$ 25.00

Owner/Occupant Name: \_\_\_\_\_ Tel.#: \_\_\_\_\_

Installation Address: \_\_\_\_\_ Serviced Floor or Unit #: \_\_\_\_\_

Heating Unit  Domestic Water Heater  Power Vent  Other \_\_\_\_\_

Burner:  New  Existing  Location: \_\_\_\_\_

Trade Name: \_\_\_\_\_ Mfg: \_\_\_\_\_

Type: \_\_\_\_\_ Model# or Size: \_\_\_\_\_ Nozzle Size: \_\_\_\_\_

Fuel Oil  Kerosene  Waste Oil

Storage Tank:  New  Existing Location: \_\_\_\_\_

Type: \_\_\_\_\_ Capacity: \_\_\_\_\_ gallons No. of Tanks: \_\_\_\_\_

Special requirements (or additional safety devices) \_\_\_\_\_

OSV Valve  Oil Line Protected  Sheet Rock  Sprinkler AFUE:  yes  no EF:  yes  no  
 (Furnace and Boilers) (Water heater)

Co. Name: \_\_\_\_\_ Tel.# \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Completion Date: \_\_\_\_\_

Combustion Test: Gross Stack Temp.: \_\_\_\_\_ Net Stack Temp.: \_\_\_\_\_

CO<sub>2</sub> Test \_\_\_\_\_ Breech Draft: \_\_\_\_\_

Smoke: \_\_\_\_\_ Overfire Draft: \_\_\_\_\_ Efficiency Rating %: \_\_\_\_\_

I, the undersigned certify that the installation of fuel burning equipment has been made in accordance with M.G.L. c. 148 and 527 CMR 4:00 currently in effect. Furthermore, this installation has been tested in accordance with such requirements, is now in proper operating condition and complete instructions as to its use and maintenance have been furnished to the person for whom the installation (or alteration) was made.

Installer: \_\_\_\_\_  
 Print Name Cert of Comp. # Signature (no stamp)

Address: \_\_\_\_\_ City: \_\_\_\_\_  
 Once signed by the fire department, this is a PERMIT for the storage and use of oil burning equipment.

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

REFER TO CHECKLIST ON REVERSE SIDE

Form Distribution: White: Fire Dept. (Application) Yellow: Installation (Permit To Store) Pink: Installer (Permit To Install)

This form approved by the State Fire Marshal and provided courtesy of the Mass. Oil Heat Council. Form design in NCR by Cotuit and COMM Fire Depts.  
 July 1, 1996

## 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 (boiler) 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 for air pressure switch, post purge control and secondary control - Air pressure switch is adjustable  
Listed type  
As close to vent hood as possible  
Installation instructions present on site
- 4.04 (9)f Draft regulator is present unless exempted
- 4.04 (5)m Adequate air is present for combustion
- 4.04.5(o)1 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 1000 degree F solder are allowed
- 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 (under 660 gal) or UL 142 (over 660 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)i Outlet cross connection at bottom of tanks must be 1/2" pipe or tubing.
- 4.03 (5)k 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
- 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 10 ft.  
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: Space heating use only.  
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 660 gallon max. aggregate capacity to each oil burner
- 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  
Note: Local codes may require anchoring of tank to bldg.