

## The Commonwealth of Massachusetts Department of Fire Services

## 527 CMR 1.00 Section 1.12.8.2.1 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

				(City or Town)	(Date)
Permit #'s: FD _	Elec	FD	ID#:	Fe	e Paid: \$
Owner/Occupant N	ame:		Tel.#:		
nstallation Address	S:			Serviced Floor	or Unit #:
☐ Heating Unit	☐ Domestic Water Heat	er 🗆 Powe	er Vent	Other	
Burner: $\square$ New	☐ Existing ☐ Loca	tion:			
Mfg:					
Гуре:	Model #	or Size:		Nozzle siz	e:
☐ Fuel Oil	☐ Kerosene	□ v	/aste Oil		
Storage Tank:	☐ New ☐ Existing	☐ Removal L	ocation:		
Туре:	Сарас	ty: gallo	ns No. o	f Tanks:	
Special requiremer	its (or additional safety devic	es)			
Co. Name:				Tel#	‡
Address:		City:			Zip:
Completion Date:_					
Combustion Test:	Gross Stack Temp.:		Net Sta	ck Temp.:	
	CO <sup>2</sup> Test:		Breech	Draft:	
Smoke:	Overfire Draft:		Efficien	cy Rating %:	
currently in effect. Furth	y that the installation of fuel burning ermore, this installation has been te to its use and maintenance have b	sted in accordance wit	h such requirem	ents, is now in prope	r operating condition and
nstaller:	Print Name	Cert of C		Sia	nature (no Stamp)
Address:			City:		
	department, this is a PERMIT for th	•	u use of the oil b	iuming equipment.	
Approved by:				_ Date:	

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

**UNENCLOSED TANKS** 

## **ALL INSTALLATIONS**

	All applications must be on Form 1		
	Over 10,000 gallons on site requires License &		Single tanks shall not be larger than 660 gallons
	Permit from local community  Certificate of Competency required, no other		Maximum aggregate capacity of unenclosed multiple tanks is 1320 gallons
_	license acceptable, plumbing, electrical, etc.		Unenclosed tanks shall be at least five feet from ar internal or external flame
	Verify emergency shut-off is outside burner room		Unenclosed tanks shall not obstruct service meters
	Verify separate circuit for oil burner	_	service panels and shutoff valves
	Verify presence of overhead thermal switch		Bottom outlet tanks pitched to the opening
	Verify presence of service switch within 3' of burner		Tanks exposed to vehicles will be protected by
	Verify presence of high limit controller		barriers
	Primary control has safety shutoff within 15 secs.		
	Stack type primary may be easily removed		ENCLOSED TANKS
	Clear access to clean out and services panels		
	No oil leaks present at burner		Over 660 gallon tanks enclosed by two hour fire
	Installation instructions present on site	_	resistive assembly
	Combustion test results on Form 1		Tank enclosures provided with 6" high tight sills or ramps
	Three metal screws at each joint in chimney		Tank is 4" above floor supported by 12" thick
	IF POWER VENTER IS USED: Check air pressure switch, post purge control and secondary control.		masonry saddles spaced not more than eight feet on centers and 15" from top and walls of enclosure
	Installation instructions present.		All oil must be transferred by pump, and
	Draft regulator is present unless exempted		connections must be at the top of the tank
	Adequate air is present for combustion		
	Adequate clearances per manufacturers listing		ALL TANKS
	Thermal valves at burner and tanks		
	Listed flexible hose may be used (at burner only)		Two tanks may be cross-connected as shown in
	No Teflon tape on oil line or on oil line fittings		Fig. 8.9.1 NFPA 31 2011 edition
	No compression fittings are permitted		Return lines must enter the top of tanks
	Solder joints made with 500 degree F solder or greater		Vent pipes must be two feet from building opening
	<u>c</u>		Vent pipes must terminate 3 ft. above grade min.
ш	All oil supply and return lines must be protected from injury. All new lines must be continuously		Vent pipes must have weatherproof caps
	sleeved with non metallic tubing. Oil safety valves		Fill pipes must be two feet from building openings
	may be used on existing lines not exposed to freezing. Overhead lines require no sleeve and are permitted		Fill pipes must have tamper proof identifying caps
	Oil supply lines and return lines to tanks exposed to		OUTSIDE TANKS
_	freezing temperatures must come off the top of		
	tanks Lines for kerosene, and range oil (#1) are exempt -		All UST's and tanks over 660 gallons must be installed as per NFPA 31 2011 edition
	No oil leaks present at tank		Tank protected from physical damage
	Listed oil filter is present		Tanks exterior coated with organic alkyd resin or
	Tank is UL80 or (DIB+) PV-VI 321 (under 660 gal) or UL 142 (over 600 gal)		asphalt paint  Damaged protective coatings must be recovered
	Thermal shutoff valve located at bottom of tank		Tank does not block means of egress
	Vent as per NFPA 31		Tank does not block means of egress  Tank mounted on continuous 4" thick slab that
	Oil tank gauge must be present to determine oil level	_	extends 8" beyond tank perimeter
	Inside tanks have audible fill device (vent alarm)		Tank is supported by rigid non-combustible supports
	Outlet cross connection at bottom of tanks must be 1/2" pipe or tubing.		
	Non-combustible tank supports, tank secure.		