



# FIRE PREVENTION REGULATIONS TANK INSPECTION CHECKLIST

CITY OF LACONIA FIRE PREVENTION DIVISION  
848 NORTH MAIN STREET, LACONIA, NH 03246  
Call (603) 524-6881 for appointments and information

**FIRE PREVENTION  
Mechanical**  
  
**300-3-C**  
  
January 2017

		(P) - Pass - (F) - Fail/Violation
<b>OIL TANKS</b>		
		Fuel tanks shall be a minimum of 5 feet from the burner.
		Fuel tanks shall be approved (UL, FM, ETL or equivalent) and labeled accordingly.
		Fuel tank shall be installed such that it is not subject to settling, sliding, lifting or being accidentally damaged.
		Fuel tanks installed in garages shall be protected by "crash post" a minimum of 3 inches in diameter, concrete filled bollard(s), 36"- 48" high or 2 inch diameter pipes anchored at the top and bottom.
		A fuel filter shall be installed at the outlet of the tank, after the Fire-O-Matic or at the burner
		A Fire-O-Matic shut off valve shall be installed at the tank discharge.
		Fill and vent piping shall be a minimum of 1-1/4 inches diameter, steel pipe, terminating outside of the building.
		An approved vent alarm/vent cap shall be installed on the vent pipe.
<b>GAS TANKS (Above Ground)</b>		
		Tanks shall be placed on stable, level footings of solid construction.
		Where tanks are located where they are subject to vehicular damage, they shall be protected by a minimum 4 inch diameter concrete filled, "crash post", set at a depth of <b>36 inches</b> and extending up to <b>48 inches</b> above final grade.
		Tanks over <b>125 gallons-500 gallons</b> must be <b>10 feet</b> from a foundation, ignition source or property that can be built upon.
		Tanks over <b>500 gallons</b> must be <b>25 feet</b> from a building and/or property line that can be built upon.
		An ignition source shall include motors, compressors, air conditioners, generators or blade switch boxes.
		Tanks shall be placed so the tank pressure relief is over <b>3 feet</b> away from any building opening below the relief valve.
		There should be no structure enclosing the tanks that could trap gas during a leak.
		Tanks may be placed under decks where the area is more than 50 percent open and meet other clearance criteria.
<b>GAS TANKS (Below Ground)</b>		
		Any portion of an underground tank shall be more than <b>10 feet</b> away from a foundation, ignition source, intake vent or property that can be built upon and shall not be placed under roofs. This increases to <b>25 feet</b> for tanks over <b>2000 gallons</b> .
		An ignition source shall include motors, compressors, air conditioners, generators, outlets for equipment or blade switch boxes
		Buried tanks shall be backfilled using <b>ONLY</b> screened sand that contains no rocks, debris or abrasive materials.
		Sand for backfilling shall be on site during the inspection and in sufficient quantity to protect the entire tank.
		Buried tanks subject to high water tables shall be anchored using concrete anchors and stainless steel traps
		Buried tanks shall have a sturdy enclosure to protect the tank shut-off, filling valve and primary regulator. The sleeve must extend a minimum of <b>12 inches</b> above grade and be visible or its location marked under snow cover.
		Buried tanks shall have cathodic protection (two for tanks over 1000 gal.) <b>mechanically</b> connected with a #12 solid copper wire
<b>PIPING SYSTEMS</b>		
		Gas piping material may be plastic, seamless copper tubing or black iron pipe. <b>Cast Iron shall NOT be used.</b>
		All piping that passes through masonry, concrete or stone foundations, above or below grade shall be sleeved and sealed to protect the piping and prevent entry of water, debris, insects or other materials.
		Plastic piping may be used <b>UNDERGROUND ONLY</b> . Plastic pipe must be terminated at grade and metallic pipe or tubing extended above ground.
		Buried gas lines shall be a minimum of <b>12 inches</b> below grade and imbedded, <b>6 inches</b> top and bottom in screened sand.
		Where it is not possible to obtain the <b>12 inch</b> clearance, the piping shall be encased in a protective conduit.
		Pipe that passes under driveways, roads or areas of high travel, the piping shall be <b>18 inches</b> below grade and encased in screened sand.
		Buried plastic pipe shall have a copper trace wire and/or metallic tape over the pipe for locating purposes at a later date.
		Gas vent of second stage regulators shall be a minimum of <b>12 inches</b> above final grade, have a protective screen at the vent and be a minimum of <b>5 feet</b> from an ignition source.

