



<b>Fuels Safety Program</b>	Ref. No.: FS-267-23	Rev. No.: 0
<b>ADVISORY</b>	Date: August 1, 2023	Date:

**Subject:** Requirements for underground storage tanks under Fuel Oil and Liquid Fuels Regulations  
**Sent to:** Posted on Website

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This Advisory is to clarify for the contractor installing underground fuel storage tanks their regulatory responsibilities in relation to installation and preparation of the tanks for inspection by TSSA.

Ontario Regulation 213/01 Fuel Oil requires that underground fuel oil storage tanks be registered with the TSSA.

*7(4) No person shall supply fuel oil to an underground tank unless the underground tank is registered.*

Ontario Regulation 217/01 Liquid Fuels requires that facilities (except Private Fuel Outlets) be licensed (by TSSA), and that any modifications be approved.

*10. (1) No person shall operate a retail outlet, a marina or a bulk plant unless it is licensed. O. Reg. 217/01, s. 10 (1).*

*22. (1) The holder of a licence for a facility to handle gasoline and associated products shall not make a modification to the facility until the licence holder applies for and receives written permission from the director to make the modification. O. Reg. 217/01, s. 22 (1).*

**Installing contractors/certificate holders are responsible for ensuring that the equipment is installed in accordance with the Code and in safe working condition. TSSA Work Force Planning ([fuelsinspection@tssa.org](mailto:fuelsinspection@tssa.org)) shall be notified at least 10 business days prior to backfilling. The following shall be documented and available for inspection:**

1. The installation must coincide with approved drawings;
2. Utility locates have been identified;
3. All piping has been pressure tested (as per manufacturer's instructions and the code);
4. All hydrostatic sumps have been tested;
5. The double-wall tanks are holding vacuum or pressure;
6. The tank deflection measurements for fiberglass tanks meets Code;
7. The tank and components are certified;
8. The slope of piping meets Code;
9. The backfill material meets Code (waybill);
10. The installation of cathodic protection system, where required, meets Code;
11. That they have met the requirements of the tank Manufacturer's Checklist for installation;
12. That they have taken pictures during tank and backfill placement. The pictures must show all sides of the tank as well as references to identifiable site markers within the same picture;

**After backfilling has been completed and the leak detection system has been installed, installing contractors/certificate holders are responsible for ensuring that the equipment is installed in accordance with the Code and in safe working condition. TSSA Work Force Planning ([fuelsinspection@tssa.org](mailto:fuelsinspection@tssa.org)) shall be notified at least 10 business days prior to final inspection. The following shall be documented and available for inspection:**

1. Tank deflection measurements for fiberglass tanks;
2. Underground piping test boots are loosened, if applicable;
3. Leak detection system is ready for testing;
4. Cathodic protection after backfill is certified, where required;
5. Electrical Safety Certification (Electrical Safety Authority will issue a Certificate of Inspection for the wiring of the entire installation);
6. Installation/operation of sensors at all STP and dispenser sumps, where applicable;
7. Approved spill containers and drop tubes with overfill protection and product identification markings;
8. Sensors are installed and working and are correctly wired to the panel, if applicable;

**Additional items for Liquid Fuels Handling Facilities:**

1. Dispenser stabilizer bars are securely bolted and that shear valves are in the correct position, if applicable;
2. Applicable signage is in place;
3. For Self-Serve facilities, the intercom is activated and the video monitoring system complies with the Liquid Fuels Handling Code;
4. The E-stop is ready for testing.

**Additional items for Fuel Oil Installations:**

1. The day tank system, where required, be prepared for testing; and
2. Venting of the appliance.

Contact TSSA for an inspection, prior to backfilling and after backfilling when leak detection system has been installed. TSSA Work Force Planning ([fuelsinspection@tssa.org](mailto:fuelsinspection@tssa.org)) shall be notified at least 10 business days prior to each inspection.