



Application for Permit to Operate Field-Constructed Tank Systems

UST Management Division

(This form may be used to comply with SC UST Regulation 280.251)

I. REGISTRATION AND SITE INFORMATION

Facility Name	SCDHEC Permit Identification Number
Physical Street Address	City
	County
Facility Telephone Number	

II. TANK INFORMATION

Tank Number (list each compartment separately)					
Capacity (gallons)					
Serial Number of Tank					
Construction Material (check one)					
Fiberglass-Reinforced Plastic (FRP)					
Steel-FRP Composite					
Steel-Polyurethane					
Other (specify)					
Containment (check one)					
Double Wall-Brine					
Double Wall-Vacuum					
Double Wall-Dry					
Other (specify)					

Is the tank information provided identical to the information submitted on the Application for the Permit to Install? Yes [] No []

Tank Manufacturer: _____ Model: _____

III. INSTALLATION PROCEDURES

All underground storage tank systems must be installed and operated per R.61-92, Part 280: UST Control Regulations, manufacturer's instructions and industry standards. The tank and piping system installation practices and procedures described in the following codes may be used to comply with this requirement. Indicate which standard(s) were used to oversee the tank system installation:

- [] American Petroleum Institute Publication 1615, "Installation of Underground Petroleum Storage Systems."
- [] Petroleum Equipment Institute Publication RP100, "Recommended Practices for Installation of Underground Liquid Storage Systems."
- [] American National Standards Institute Standard B31.3, "Petroleum Refinery Piping," and American National Standards Institute Standard B31.4, "Liquid Petroleum Transportation Piping System."
- [] Unified Facilities Criteria 3-460-01, "Petroleum Fuel Facilities"
- [] Defense Directive 4140.25, "ATA: Airport Fuel Facility Operation and Maintenance Manual"

IV. PIPING INFORMATION

Line Number (list each line separately)					
Material of Construction					
Flexible					
Fiberglass Reinforced Plastic (FRP)					
Other (Specify)					
Containment (check one)					
Double Wall					
Triple Wall					
Other (specify)					

Pumping System (check one)					
Pressurized					
Suction – Foot Valve					
Suction – Angle Valve					
Suction – Vertical Check Valve					
Other (Specify)					

Is the piping information provided identical to the information submitted on the Application for the Permit to Install? Yes No

Piping Manufacturer: _____ Model: _____

V. PIPING INSTALLATION INFORMATION

Backfill/Overburden:

The backfill should be a clean, washed well-granulated, free-flowing, non-corrosive inert material that is free of debris, rock or other organic materials. Examples of accepted materials are sand, crushed rock (no larger than ½ inch), or pea gravel (no larger than ¾ inch).

- Type of backfill to be used: Sand Pea Gravel Crushed Rock Other _____
- Indicate the amount of backfill (spacing) used for the following:
 Below all piping: _____ Above all piping: _____
 Between piping and sidewalls (minimum of 6 inches): _____
 Between adjacent piping (minimum of twice the pipe diameter): _____
- If sand backfill was used, was it compacted to ensure adequate support of tank and prevent settlement? Yes No
 - o If yes, please indicate the method of compaction that was used: Sand-Slurry Method Mechanical Other (specify): _____
- Is piping located in a traffic area? Yes No
 - o If yes, how much overburden was used?
 At least 6 inches of compacted backfill and additional backfill plus enough paving to equal 18 inches of material from the top of the piping to the bottom of the grade
 - o If no, how much overburden was used?
 At least 2 feet of compacted backfill
 At least one foot of compacted backfill plus 6 inches of reinforced concrete

Piping Condition

- Was there any damage to the piping during installation? Yes No
 - o If yes, was the damage repaired? Yes No _____

Excavation Dimensions

- Is all piping sloped to at least 1/8 of an inch per foot from the dispenser(s) to the tank(s)? Yes [] No []
- Does the piping pass over the tank(s) at any point? Yes [] No []
- Are all product lines located in the same trench? Yes [] No [] _____

VI. SPILL PREVENTION, OVERFILL PREVENTION, AND OTHER EQUIPMENT

Spill Prevention Equipment:

- Manufacturer: _____ Model: _____ Capacity: _____
- Surface mounded to channel water away from the spill prevention equipment? Yes [] No []

Overfill Prevention Equipment:

- Drop Tube Shut Off Valve [] Alarm [] Other (specify): _____
- Manufacturer: _____ Model: _____
- Do the drop tubes extend to within 6 inches of the bottom of the tank? Yes [] No []
- Hydrant Pits and Vaults Was a hydrant pit be installed? Yes [] No []
Was a hydrant vault be installed? Yes [] No []

VII. RELEASE DETECTION

All Field Constructed Tank systems with a capacity of less than 50,000 gallons must use interstitial monitoring as the first choice for tank and line monthly (0.2gph) monitoring.

Release Detection (check all that apply and complete all applicable blanks)	Tank(s)	Piping
Interstitial Monitoring with Secondary Barrier/Containment Manufacturer: _____ Model: _____		
Line Leak Detectors: Electronic [] Mechanical [] Manufacturer: _____ Model: _____		
Annual Line Tightness Testing (pressurized piping only)		
Statistical Inventory Reconciliation (SIR) SIR Provider: _____		
Automatic Tank Gauging Manufacturer: _____ Model: _____		
Vapor Monitoring For tanks greater than 50,000 gallons this method must be combined with Inventory control and Tank Tightness Test		
Groundwater Monitoring Depth to groundwater: _____ For tanks greater than 50,000 gallons this method must be combined with Inventory control and Tank Tightness Test		
Automatic Tank Gauge that can detect a 1 gallon/hr leak with Tank Tightness Test every 3 years (For tanks greater than 50,000 gallons)		
Automatic Tank Gauge that can detect less than or equal to 2 gallon/hr leak with Tank Tightness Test every 2 years (For tanks greater than 50,000 gallons)		
Inventory Control that can detect less than or equal to a .5 gallon/hr leak with Tank Tightness Test every 2 years (For tanks greater than 50,000 gallons)		

VIII. INSTALLATION CERTIFICATION

All owners and operators must ensure that one or more of the following methods of certification, testing, or inspection was used to demonstrate compliance with Section III of this application.

- [] The installer is certified by tank and piping manufacturers. Name of installer: Contact person, email address and telephone number:
[] The installation has been inspected and certified by a SC registered professional engineer with education and experience in underground storage tank system installation (attach report).
[] The correct notification requirements have been followed and the installation has been inspected and approved by a representative of the UST Management Division.
[] All work listed in the manufacturer's installation checklists has been completed.

IX. SUPPLEMENTAL INFORMATION

- Piping manufacturer's installation checklist attached? Yes [] No []
• Pneumatic or hydrostatic testing results for tanks and piping attached? Yes [] No []
• "As-Built" map with all components attached? Yes [] No []
• Current financial responsibility documentation on file? Yes [] No []
• Documentation for any special conditions listed on the Permit to Install attached? Yes [] No [] N/A []

X. NOTES OR ADDITIONAL INFORMATION

Empty lines for notes or additional information.

XI. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information and installing the UST system, I believe that the submitted information is true, accurate, and complete.

Name of tank owner or owner's authorized representative (print) Title

Signature Date

Name of installer (print) Title

Signature Date



Application for a Permit to Operate for Field Constructed Underground Storage Tanks Systems (USTs)

General Information:

The primary purpose of this form is to obtain sufficient information that allows for the issuance of a Permit to Operate a UST system. State regulations require owners of USTs that plan on storing regulated substances submit this application and receive approval prior to beginning the operation of a UST system.

Please read the instructions carefully prior to completing the form. Please type or print in ink. Also, please be sure that you have signatures in ink.

Who must complete this form?

Any person who proposes to install a new tank must apply for a Permit to Operate and possess this permit prior to the operation of the tank system.

What USTs are included?

An UST system is defined as any one or combination of tanks that is used to contain an accumulation of regulated substances, and whose volume (including connected underground piping) is 10 percent or more beneath the ground. Regulated USTs store petroleum or hazardous substances. This includes UST systems with field-constructed tanks and airport hydrant fuel distribution systems.

When and Who to Notify?

Any owner that wishes to operate a regulated UST system must submit this application to the Permitting Coordinator prior beginning operation. Please allow sufficient time for Departmental review and approval of the permit application. An invoice for the registration fee, as authorized by the State Underground Petroleum Environmental Response Bank (SUPERB), will be issued at the time that a UST system is ballasted with fuel or at the time the Permit to Operate is issued, whichever is earliest. **Note:** It is a violation of South Carolina Underground Storage Tank Control Regulations 61-92, Part 280 to operate an UST system without an approved Permit to Operate .

What Tanks are Excluded from these Requirements?

- Tanks removed from the ground prior to January 1, 1986;
- Farm or residential tanks of 1,100 gallons or less used to store motor fuel for noncommercial purposes;
- Tanks storing heating oil for use on the premise being stored;

- Septic tanks;
- Certain pipeline facilities regulated under Chapters 601 and 603 of Title 49;
- Surface impoundments, pits, ponds, or lagoons;
- Storm water or wastewater collection systems;
- Flow-through process tanks;
- Liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
- Tanks on or above the floor of underground areas, such as basements or tunnels;
- Tanks with a capacity of 110 gallons or less;
- Wastewater treatment tank systems;
- UST systems containing radioactive materials that are regulated under the Atomic Energy Act of 1954;
- UST systems that are part of an emergency generator system at nuclear power generation facilities regulated by the Nuclear Regulatory Commission under 10 CFR part 50.

What Substances are Covered?

These requirements apply to USTs containing petroleum or certain hazardous substances. Petroleum includes gasoline, used oil, diesel fuel, crude oil, or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees F and 14.7 pounds per square inch absolute). Hazardous substances are those found in Section 101 (14) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) of 1980 with the exception of those substances regulated as hazardous waste under Subtitle C of the Resource Conservation and Recovery Act (RCRA).

Instructions for Completing the Permit to Operate Application:

I. Registration and Site Information: Enter the name, physical street address (including county), telephone number and permit identification number of the facility where the tank(s) are located.

II. Tank Information: Complete the all applicable boxes within the table which include capacity, serial number(s) of the tanks, construction material and type of secondary containment type. Because construction and installation details may vary for individual tanks, a column for up to five tanks has been provided. It is required that you designate a number for each individual tank that was installed. You must also check yes or no to indicate that the information is identical to the Permit to Install application. If you mark no, please provide an explanation in the Additional Information section.

III. Installation Procedures: Complete the empty boxes or spaces as indicated. **Note:** You must choose at least one standard that used for the installation process.

IV. Piping Information: Complete all applicable boxes within the table which include construction material, secondary containment and pumping system. The design, construction, and installation details may vary for individual piping runs so a column for

each individual piping run (up to five) has been provided. Please ensure that you complete the questions regarding manufacturer and model. Indicate if any of the lines are manifolded. If so, provide the line numbers. You must also check yes or no to indicate that the information is identical to the Permit to Install application. If you mark no, please provide an explanation in the Additional Information section.

V. Piping Installation Information: Complete all subsections(Backfill/Overburden, Piping Condition, Excavation Dimensions) by filling in the empty boxes or spaces, as applicable.

VI. Spill Prevention, Overfill Prevention and Other Equipment: Complete the blanks as indicated regarding the manufacturer and model of all spill and overfill prevention equipment. Be sure to address the questions regarding hydrant pits and vaults.

VII. Release Detection: Indicate by checking in the box the chosen leak detection method for the tanks and piping. Complete any blanks associated with that leak detection method. Please be careful attention to the bolded information pertaining to capacity allowed for certain leak detection methods.

VIII. Installation Certification: Complete the empty boxes or spaces as indicated.

IX. Supplemental Information: Attach all required supplemental information. Indicate that the information has been attached by checking the appropriate boxes. A Permit to Operate will not be issued without the associated supplemental information.

X. Notes or Additional Information: Fill in the blanks as needed.

XI. Certification: The application must be signed by the owner or an authorized representative of the facility.

Office Mechanics and Filing:

After completing the form, send the application and associated supplemental information to the address listed on the front of the application. This application becomes a part of the permanent file.

Contact Information: Please contact the Permitting Coordinator at the number on the of the form for further information.