



# Application for Permit to Operate

(For Use With All Systems Except Field-Constructed or Airport Hydrant Systems)  
 UST Management Division  
 (This form may be used to comply with SC UST Regulation 280.23(b))

## 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: \_\_\_\_\_

Were any tanks or compartments manifolded? \_\_\_\_\_

## 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 code of practice. Please indicate which standard(s) was used to oversee the tank system installation (check all that apply):

- [  ] 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."
- [  ] National Fire Protection Association Publication 30, "Flammable and Combustible Liquids Code."
- [  ] National Fire Protection Association Publication 30(a), "Code for Motor Fuel Dispensing."

#### IV. TANK 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 used: Sand [ ] Pea Gravel [ ] Crushed Rock [ ] Other [ ] \_\_\_\_\_
- Amount of backfill under tanks (Minimum of 12 inches required): \_\_\_\_\_
- Was backfill tamped under lower quadrant of tanks to fill any potential voids? Yes [ ] No [ ]
- 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): \_\_\_\_\_
- Are tanks located in a traffic area? Yes [ ] No [ ]
  - o If yes, how much overburden was used? (choose one)
    - [ ] At least 2.5 feet of compacted backfill and 6 inches of asphalt paving
    - [ ] At least 1.5 feet of compacted and 8 inches of reinforced concrete
  - o If no, how much overburden was used? (choose one)
    - [ ] At least 2 feet of compacted backfill
    - [ ] At least 1 foot of compacted backfill plus 4 inches of reinforced concrete
- Concrete or asphalt that extends at least one foot beyond the tank outline? Yes [ ] No [ ]

**Tank Condition**

- Was there a pressure change of greater than 5" Hg between shipping and installation? Yes [ ] No [ ]
  - o If yes, were necessary repairs made? Yes [ ] No [ ] \_\_\_\_\_
- Was there any damage to the tank(s) during installation? Yes [ ] No [ ]
  - o If yes, was the damage repaired? Yes [ ] No [ ] \_\_\_\_\_

**Excavation Dimensions:**

- Indicate the horizontal clearance for the following (a minimum of 12 inches is required for steel tanks or a minimum of 18 inches for fiberglass tanks):  
Excavation walls: \_\_\_\_\_ Other tanks: \_\_\_\_\_
- Were the side walls of the excavation sloped or shored? Yes [ ] No [ ]
- Does the distance from the top of the tank to final grade exceed tank diameter for steel or composite tanks? Yes [ ] No [ ]
- Does the distance from the top of the tank to final grade exceed 7 feet for fiberglass tanks? Yes [ ] No [ ]

**Anchoring System**

- Was water encountered during installation? Yes [ ] No [ ]
- Was an anchoring system used? Yes [ ] No [ ]
  - o If yes, indicate the system that was used: \_\_\_\_\_

#### V. PIPING INFORMATION

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

**V. PIPING INFORMATION (continued)**

<b>Pumping System (check one)</b>					
Pressurized					
Foot Valve _____ American Suction _____ Angle Valve _____					
European Suction					
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: \_\_\_\_\_

Were any lines manifolded? \_\_\_\_\_

**VI. 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 1/2 inch), or pea gravel (no larger than 3/4 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 [ ] \_\_\_\_\_

**Vent Lines**

- Total number of vent lines: \_\_\_\_\_ Are vent lines manifolded? Yes [ ] No [ ] If yes, explain: \_\_\_\_\_
- Rain caps installed: Yes [ ] No [ ]
- Stand alone (12'): \_\_\_\_\_ In canopy (5' above): \_\_\_\_\_ Attached to building (3' above): \_\_\_\_\_

**VII. 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 [ ]

**Under dispenser containment:**

- Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- Single Wall [ ] Double Wall [ ] Other (specify): \_\_\_\_\_
- Were all entry and exit points confirmed to be tight and secure? Yes [ ] No [ ]

**For emergency generators only:**

- Is a transition sump installed at the point where the piping becomes aboveground? Yes [ ] No [ ]
- If yes, indicate location on site map.

**Shear Valves:**

- Are all shear valves anchored properly according to an appropriate cod of practice or manufacturer specifications? Yes [ ] No [ ]

**VIII. RELEASE DETECTION**

**Double walled systems must use interstitial monitoring as the first choice for tank and line monthly (0.2 gph) monitoring. This requirement does not apply to European Suction systems.**

Release Detection (check all that apply and complete all applicable blanks)	Tank(s)	Piping
Interstitial Monitoring with Secondary Barrier/ Containment  Manufacturer: _____ Model: _____		Dispenser End (indicate sensor or visual)  Tank End (indicate sensor or visual)
Line Leak Detectors: Electronic [ ] Mechanical [ ] Manufacturer: _____ Model: _____		

**IX. 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.

**X. SUPPLEMENTAL INFORMATION**

- Tank manufacturer's installation checklist attached? Yes [ ] No [ ]
- Piping manufacturer's installation checklist attached? Yes [ ] No [ ]
- Pneumatic or hydrostatic testing results for tanks and piping attached? Yes [ ] No [ ]
  - o Was testing completed at 90 or 95% capacity, as applicable? Yes [ ] No [ ]
- "As-Built" map with all components attached? Yes [ ] No [ ]
- Was product introduced to ballast the tanks? Yes [ ] No [ ]
  - o If yes, was the required written notification received prior to the introduction of the product into the tanks? Yes [ ] No [ ]
  - o If yes, were daily stick readings taken until such time as the chosen method of leak detection was installed and operational? 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 [ ]

**XI. NOTES OR ADDITIONAL INFORMATION**

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**XII. 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 Underground Storage Tanks (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. Tank Installation Information: Complete all subsections(Backfill/Overburden, Tank Condition, Excavation Dimensions and Anchoring System) by completing the empty boxes or spaces, as applicable.

V. 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.

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

VII. Spill Prevention, Overfill Prevention, and Other Equipment: Complete the blanks as indicated regarding the manufacturer and model of all spill, overfill prevention and under dispenser containment equipment. Also, please verify if the shear valves in the dispensers have been anchored properly.

VIII. Release Detection: Interstitial monitoring is the only method allowed for tank release detection so you must check the box and complete the manufacturer and model information. For piping release detection, line leak detectors are required in conjunction with interstitial monitoring so you must indicate the type of leak detector, manufacturer/model as well as indicate if sensors or visual monitoring will be used for each end of the piping run.

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

X. 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.

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

XII. 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.