## ADEM NOTICE OF PROPOSED UNDERGROUND STORAGE TANK (UST) SYSTEM NEW INSTALLATION OR MODIFICATION

(Use a separate form for each separate place of operation)

**Date of this Notice:**

(Please type or use black ink)

Questions on how to complete this form should be directed to the Groundwater Branch, UST Compliance Section at (334) 270-5655.

### PART I. GENERAL INFORMATION

<table>
<thead>
<tr>
<th>Facility I. D. #</th>
<th>Scheduled Installation Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Indicate as unregistered if new place of operation)</td>
<td><strong>(30 DAYS ADVANCE NOTICE REQUIRED)</strong></td>
</tr>
<tr>
<td>Facility County:</td>
<td>UST Owner:</td>
</tr>
<tr>
<td>Name:</td>
<td>Owner Mailing Address:</td>
</tr>
<tr>
<td>Physical Address:</td>
<td>Contact Person:</td>
</tr>
<tr>
<td></td>
<td>Contact Phone Number:</td>
</tr>
<tr>
<td>GPS Lat: Long:</td>
<td>Map Attached</td>
</tr>
</tbody>
</table>

**IMPORTANT!:** The Department requires double walled USTs and underground piping with interstitial monitoring as a leak detection method to prevent leaks from all UST systems installed on or after August 6, 2007. UST systems installed without meeting these requirements and not approved by the Department will be required to be permanently closed.

**THE INSTALLATION OF ANY OF THE FOLLOWING REQUIRES SUBMITTAL OF PLANS AND SPECIFICATIONS COVERING THE APPROPRIATE ITEM(S) LISTED BELOW. THE PLANS AND SPECIFICATIONS MUST BEAR THE SEAL OR NUMBER OF A REGISTERED PROFESSIONAL ENGINEER, OR A CORROSION EXPERT (NACE CERTIFIED CORROSION SPECIALIST) IN THE CASE OF FIELD INSTALLED CATHODIC PROTECTION. Specifications must include the Manufacturer, Model and Version of any proposed anchorage system and/or liquid or vapor sensor release detection equipment.**

Please indicate if any of the items below apply at this site.

- [ ] Field Installed Cathodic Protection System will be installed.
- [ ] Groundwater Monitoring System will be installed.
- [ ] Vapor Monitoring System will be installed.
- [ ] UST(s) will be installed in such a way that the UST(s) will be wholly or partially submerged during any part of the year. **UST anchoring plans and specifications are required UNLESS** the manufacturer’s standard design was submitted by a Registered Professional Engineer and pre-approved by the Department.

**DESIGN PLANS AND SPECIFICATIONS ATTACHED**

- [ ] MANUFACTURER’S DESIGN WAS PRE-APPROVED BY ADEM
  - Name of UST manufacturer: __________________________
  - Number of brochure which includes standard design: __________________________
  - Date of Brochure: __________________________

**AIR DIVISION REQUIREMENTS**

ADEM Air Division requires Stage I vapor recovery on all new installations of gasoline tank systems greater than or equal to 3000 gallons that were installed or upgraded after October 1, 1990. Stage I vapor recovery is NOT required for diesel tank systems. As of January 10, 2008, the coaxial vapor balance system is no longer approved on new installations of gasoline tank systems at gasoline dispensing facilities subject to 40 CFR Part 63, Subpart CCCCCC.

All inquiries concerning this requirement should be directed to ADEM Air Division at (334)271-7861, except for facilities in Jefferson County (205-930-1247) and the city of Huntsville (256-427-5740).

- [ ] This is a new installation or upgrade that includes Stage I equipment.
- [ ] An ADEM Air Permit Application has been completed.

ADEM Form 423 m3 7/15 m4 (revised 3/18)
## A. TANKS

1. Number of double walled tank system(s) to be installed: __________
2. Size of Tank(s): _______________ gallons
3. Proposed use of Tank(s):
   - Petroleum products
   - Gasoline containing greater than 10% ethanol
   - Diesel containing greater than 20% biodiesel
   - Waste oil
   - Virgin oil
   - Emergency power
   - Hazardous materials
   - Heating oil

   **NOTE:** Please complete and submit ADEM Form #562 for all UST systems storing greater than E10 or B20.

   **Check if this is a new installation of UST release/leak detection equipment.**

## B. UNDERGROUND PIPING

**Indicate all that apply:**

- Installation of double walled pressurized piping
  **NOTE:** All pressurized piping installed on or after August 6, 2007 is required to use interstitial monitoring.

- Installation of suction piping
- Installation of piping release and/or leak detection equipment

**Check if this is a new installation of piping that replaces existing piping.**

**NOTE:** All piping replacements require submittal of the piping closure assessment portion of ADEM Form #474.

## RELEASE/LEAK DETECTION

**ONLY RELEASE/LEAK DETECTION EQUIPMENT THAT HAS BEEN DETERMINED BY THE DEPARTMENT TO MEET MINIMUM RELEASE/LEAK DETECTION PERFORMANCE REQUIREMENTS MAY BE USED IN THE STATE OF ALABAMA.**

**Visit the NWGLDE website at www.nwglde.org to view a list of release/leak detection equipment/methods that ADEM approves for use in Alabama.**

### TANKS

**Leak detection equipment for USTs installed on or after August 6, 2007:**

- Monthly interstitial monitoring equipment:
  - Manufacturer: ____________________________
  - Model: ____________________________

**Release detection equipment/methods for USTs installed before August 6, 2007:**

- Automatic tank gauge (0.2 gph monthly static test)
  - Manufacturer: ____________________________
  - Model: ____________________________
  - Probe Model: ____________________________

- Continuous automatic tank gauge
  - Manufacturer: ____________________________
  - Model: ____________________________
  - Probe Model: ____________________________

- Monthly statistical inventory reconciliation (SIR) (0.2 gph)
  - SIR vendor: ____________________________
  - Program: ____________________________
  - Version: ____________________________

- Monthly groundwater monitoring system (Plans and specifications required – see page 1)
- Monthly vapor monitoring system (Plans and specifications required – see page 1)

**Additional release/leak detection equipment/method(s) used for USTs, but not required by ADEM regulations:**

- Equipment/method: ____________________________
  - Manufacturer: ____________________________
  - Model: ____________________________
UNDERGROUND PRESSURIZED PIPING

Group I: Release detection equipment for all pressurized piping:

☐ Mechanical line leak detector
   Manufacturer: ____________________ Model: ____________________

☐ Automatic electronic line leak detector shutoff device
   Manufacturer: ____________________ Model: ____________________

☐ Sump sensor relayed to automatically shut off the submersible pump
   Manufacturer: ____________________ Model: ____________________

Group II: Leak detection equipment for pressurized piping installed on or after August 6, 2007, interstitial monitoring is required:

☐ Monthly interstitial monitoring equipment:
   Manufacturer: ____________________ Model: ____________________

Group II: Release detection equipment/methods for pressurized piping installed before August 6, 2007:

☐ Annual line testing (0.1 gph)
☐ Automatic electronic line leak detector testing (0.2 gph monthly or 0.1 gph annual test)
   Manufacturer: ____________________ Model: ____________________

☐ Monthly groundwater monitoring system (Plans and specifications required – see page 1)
☐ Monthly vapor monitoring system (Plans and specifications required – see page 1)
☐ Monthly statistical inventory reconciliation (SIR) (0.2 gph)
   SIR vendor: ____________________ Program: ____________________ Version: ____________________

Additional release/leak detection equipment/method(s) used for Group I or Group II, but not required by ADEM regulations:

☐ Equipment/Method:
   Manufacturer: ____________________ Model: ____________________

UNDERGROUND SUCTION PIPING

Suction piping installed as safe suction piping:

☐ Safe suction piping
   Only an option when the piping slopes towards the tank, there is only one check valve in each line and the check valve is directly below the pump. The check valve must be visible for inspection.
   NOTE: ADEM regulations allow piping installed as safe suction piping to be single walled.

Leak detection equipment for suction piping not installed as safe suction piping on or after August 6, 2007:

☐ Interstitial monitoring equipment:
   Manufacturer: ____________________ Model: ____________________

Release detection equipment for suction piping not installed as safe suction piping before August 6, 2007:

☐ Line testing (0.1 gph) every 3 years
☐ Monthly groundwater monitoring (Plans and specifications required – see page 1)
☐ Monthly vapor monitoring (Plans and specifications required – see page 1)
☐ Monthly statistical inventory reconciliation (SIR) (0.2 gph)
   SIR vendor: ____________________ Program: ____________________ Version: ____________________

ADEM Form 423 m3 7/15 m4 (revised 3/18)
## UNDERGROUND SUCTION PIPING (cont’d)

**Additional release/leak detection equipment/method(s) used, but not required by ADEM regulations:**

- **Equipment/Method:**
  - Manufacturer: __________________________
  - Model: __________________________

## UNDERGROUND GRAVITY FEED PIPING

No release/leak detection requirements

### MATERIALS OF CONSTRUCTION

#### USTS

*Inspect interstice or check vacuum or liquid level in interstice in accordance with manufacturer’s instructions after all construction has been completed, including paving, prior to bringing system into service.*

- **Steel, factory coated with galvanic cathodic protection (double walled)**
  - Manufacturer: __________________________
  - Model: __________________________

- **Fiberglass (double walled)**
  - Manufacturer: __________________________
  - Model: __________________________

- **Steel, clad or jacketed with fiberglass (double walled)**
  - Manufacturer: __________________________
  - Model: __________________________

- **Steel, clad or jacketed with polyurethane in accordance with Steel Tank Institute (STI) ACT-100-U or equivalent standard (double walled)**
  - Manufacturer: __________________________
  - Model: __________________________

#### UNDERGROUND PIPING

*All new nonmetallic piping must meet the latest UL standard 971*

- **Fiberglass (double walled or single walled for safe suction)**
  - Manufacturer: __________________________
  - Model: __________________________

- **Flexible underground piping (double walled or single walled for safe suction)**
  - Manufacturer: __________________________
  - Model: __________________________

- **Steel with secondary containment which provides an air filled annular space**

#### UNDERGROUND FLEX CONNECTOR

- **Flexible connector**
  - Manufacturer: __________________________
  - Model: __________________________

- **Flexible underground piping (used as a flex connector)**
  - Manufacturer: __________________________
  - Model: __________________________

- **Other (please specify)**
  - Manufacturer: __________________________
  - Model: __________________________
**CORROSION PROTECTION**

*ALL METAL UST COMPONENTS WHICH ARE IN CONTACT WITH THE GROUND AND ROUTINELY CONTAIN PRODUCT MUST BE PROTECTED FROM CORROSION*

<table>
<thead>
<tr>
<th><strong>TANKS</strong></th>
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<tbody>
<tr>
<td>☐ Factory coated with galvanic cathodic protection (<em>e.g. STI P3 tank with sacrificial anodes</em>)</td>
</tr>
<tr>
<td>☐ Field installed cathodic protection (<em>Plans and specifications required – see page 1</em>)</td>
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</tbody>
</table>

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<tr>
<th><strong>UNDERGROUND PIPING</strong></th>
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</thead>
<tbody>
<tr>
<td>☐ Galvanic cathodic protection (<em>e.g. sacrificial anodes</em>)</td>
</tr>
<tr>
<td>☐ Field installed cathodic protection (<em>Plans and specifications required – see page 1</em>)</td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>SPILL PREVENTION</strong></th>
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<tbody>
<tr>
<td>☐ Single wall spill prevention equipment (spill bucket)</td>
</tr>
<tr>
<td>☐ Double wall spill prevention equipment (spill bucket)</td>
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<tr>
<td>Manufacturer: ________________________ Model: ________________________</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>OVERFILL PREVENTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Automatic shutoff device (<em>flapper valve</em>)</td>
</tr>
<tr>
<td>Manufacturer: ________________________ Model: ________________________</td>
</tr>
<tr>
<td>☐ High level alarm (<em>must alert fuel deliverer</em>)</td>
</tr>
<tr>
<td>Manufacturer: ________________________ Model: ________________________</td>
</tr>
<tr>
<td>Ball float vent valve (<em>Beginning December 8, 2017, ball float vent valves may no longer be installed.</em>)</td>
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</table>

<table>
<thead>
<tr>
<th><strong>UNDER DISPENSER CONTAINMENT</strong></th>
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</thead>
<tbody>
<tr>
<td>All dispensers installed on or after August 6, 2007 are required to have under dispenser containment that is accessible for annual inspections.</td>
</tr>
<tr>
<td>☐ Under dispenser containment equipment</td>
</tr>
<tr>
<td>Manufacturer: ________________________ Model: ________________________</td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>SUBMERSIBLE PUMP CONTAINMENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>All UST systems installed on or after August 6, 2007 are required to have secondary containment sumps that are accessible for annual inspections.</td>
</tr>
<tr>
<td>☐ Single walled STP sump</td>
</tr>
<tr>
<td>☐ Double walled STP sump</td>
</tr>
<tr>
<td>Manufacturer: ________________________ Model: ________________________</td>
</tr>
</tbody>
</table>
PART III. CERTIFIED CONTRACTOR

UST SYSTEMS MUST BE INSTALLED BY AN INDIVIDUAL CERTIFIED IN ACCORDANCE WITH ADEM ADMINISTRATIVE CODE RULE 335-6-15-.47. SUBPARAGRAPH (e) OF THIS RULE REQUIRES THESE INDIVIDUALS TO:

1. EXERCISE SUPERVISORY CONTROL DURING INSTALLATION,
2. BE PRESENT AT THE JOB SITE DURING CRITICAL JUNCTURES,
3. ENSURE THIS FORM IS SUBMITTED TO THE DEPARTMENT 30 DAYS PRIOR TO INSTALLATION/MODIFICATION.

Visit the ALPEC Website at www.alpec.net or call ALPEC at 334 288-4103 to obtain a list of Alabama certified contractors.

Certified Installer Name: ________________________________ Certification Expiration Date: ________________________________

Company Name: __________________________________________ Phone #: ________________________________

Address: __________________________________________________

Signature of Person Completing This Form: __________________________ Date: ________________________________

PART IV. OWNER SIGNATURE

A LETTER INDICATING DEPARTMENT APPROVAL OF THIS FORM AND ALL APPLICABLE DESIGN PLANS AND SPECIFICATIONS MUST BE RECEIVED BY THE UST OWNER PRIOR TO INITIATING CONSTRUCTION. IF THE TANK SYSTEM(S) ARE NOT INSTALLED OR MODIFIED WITHIN 6 MONTHS OF THIS NOTIFICATION, RE-NOTIFICATION IS REQUESTED. ALSO, RE-NOTIFICATION IS REQUIRED IF ANY DESIGN CHANGES ARE MADE AFTER RECEIVING DEPARTMENT APPROVAL.

WITHIN THIRTY (30) DAYS OF BRINGING THE NEW OR MODIFIED UST SYSTEM INTO SERVICE, A NEW OR AMENDED UST NOTIFICATION FORM #279 SHOULD BE COMPLETED AND SUBMITTED TO THE DEPARTMENT.

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 THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Signature of Owner: ______________________________________ Date: ________________________________

AFTER THIS FORM IS COMPLETED AND SIGNED, MAIL A COPY OF THIS FORM TO:

Groundwater Branch
PO Box 30146
Montgomery, AL 36130-1463

OR FAX TO:
(334) 270-5631

OR EMAIL TO:
USTcompliance@adem.alabama.gov

ADEM Form 423 m3 7/15 m4 (revised 3/18)