

**KANSAS STORAGE TANK PROGRAM
ABOVEGROUND STORAGE TANK OVERVIEW
July 01, 2011**



<http://www.kdheks.gov/tanks/index.html>

Copies of this document are available at:

http://www.kdheks.gov/tanks/download/ast_overview.pdf

As the state's environmental and public health agency, KDHE promotes responsible choices to protect the health and environment for all Kansans.

Through education, direct services, and the assessment of data and trends, coupled with policy development and enforcement, KDHE will improve health and the quality of life. We prevent illness, injuries and foster a safe and sustainable environment for the people of Kansas.

**KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
BUREAU OF ENVIRONMENTAL REMEDIATION
Storage Tank Section
1000 SW Jackson, Suite 410
Topeka, KS 66612-1367**

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Aboveground Tanks Regulated by the KDHE

The Kansas Department of Health and Environment, Bureau of Environmental Remediation (BER) is responsible for regulating releases from aboveground storage tanks (ASTs), as defined in the Kansas Storage Tank Act. Aboveground storage tanks are defined as having more than 90% of the tank volume, including piping located aboveground or above the floor of an underground area such as a basement.

Certain types of tanks are exempt from the authority of the KDHE. **Exempt tanks** include the following: (K.S.A. 65-34,103)

- Tanks containing petroleum products which are not liquid at standard temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute). This exemption excludes propane, natural gas, and similar products from regulation by the KDHE under the Kansas Storage Tank Act. It also excludes most types of asphaltic materials which are solids at standard temperatures,
- Tanks located at crude oil production, transport, and refining facilities,
- Tanks associated with electrical equipment (e.g. transformers),
- Tanks containing agricultural materials regulated by the State Department of Agriculture (e.g. liquid fertilizers and pesticides),
- Small tanks, having less than 660 gallons capacity, used for business or retail purposes;
- or 1,100 gallons or less capacity and used for family farm or residential fuel supplies,
- Single family residence heating oil storage tanks, and
- Flow through process tanks.

Overall, KDHE requires registration of and AST Permits on all nonexempt ASTs that contain:

- Liquid petroleum product fuels: fuel oil, diesel, gasoline, kerosene, aviation fuels, and bio-fuels (ethanol, gasoline-ethanol blends, biodiesel and associated blends).
- Flammable or combustible liquids.
- Liquid hazardous substances listed in Table 302.4 of the Comprehensive Environmental Response Compensation, and Liability Act (CERCLA).
- Used oil.

Temporary Aboveground Storage Tanks

KDHE does not require registration of and storage tank operating permits for temporary ASTs. Examples of temporary ASTs are listed below:

- (1) ASTs mounted on wheels.
- (2) ASTs at same physical location for less than one year.

Specific examples that meet one or both criteria include:

- (1) ASTs located at construction sites.
- (2) ASTs located at quarrying operations.
- (3) ASTs mounted on skids.
- (4) Fuel tanks in mobile generators.

Requirements for New Tank Construction

Many ASTs fall under the requirements of both the Kansas Storage Tank Act and that of state and local fire codes. KDHE and the Kansas State Fire Marshal Office (KSFMO) work closely together to permit and register new tanks so that they will comply with both the safety requirements of the fire code and the environmental protection goals of the KDHE.

1. For tanks that contain flammable and/or combustible liquids, including fuels: new tank construction must be approved in advance by the KSFMO on forms they provide. The purpose is to provide the KSFMO with information that allows the agency personnel to verify that the new tank meets the applicable fire codes. The review process generally takes between two weeks and three weeks. Specific installation questions on these ASTs need to be directed to the KSFMO at 785-296-0661 or 785-296-3401.

KSFMO will issue an approval letter to either the tank owner or to the construction contractor that submits the application on the owner's behalf. KSFMO then sends a copy of the approval letter to KDHE. KDHE will send an "Aboveground Storage Tank System Initial Registration Invoice" to the tank owner to be returned with a signature and fee payment.

2. For tanks that contain non-flammable, non-combustible CERCLA listed liquids: new tank construction must be approved in advance by KDHE. Please complete the "Kansas Department of Health and Environment, Application for Above Ground Storage Tank System Permit," and submit it to KDHE for approval. Specific installation questions on these ASTs need to be directed to the KDHE at 785-296-8061.

Once an application has been approved, KDHE will send the applicant an approval letter along with the "Aboveground Storage Tank System Initial Registration Invoice," that must be returned to KDHE with a signature and fee payment.

Registration and Permitting of Aboveground Tanks

The Kansas Storage Tank Act describes requirements for registration and permitting of existing and new ASTs. Registration of a tank provides the KDHE with required information concerning the tank's ownership, location, age, size, type, and associated equipment.

Tank owners obtain annual permits to operate ASTs by renewing the registration of each tank and paying the annual fee of \$10 per tank per year. On or about November 15, KDHE mails annual registration renewal invoices to owners with existing ASTs. These owners must review the following information on their renewal invoices:

- Owner mailing address. Contact KDHE to receive an “Aboveground Storage Tank Change of Ownership (AST002)” form if the ownership has changed.
- Address where the facility is located.
- Number and status of tanks if any changes have occurred during the previous permit cycle.
 - If you have added or replaced ASTs, check to see if KDHE has received an application for your facility.
 - If you have stopped using or removed ASTs, contact KDHE to request an “Aboveground Storage Tank Change in Status (AST003)” form. The “Change in Status (AST003)” form also may be used if you have taken tanks out of service or brought others back into service at that facility.
- Check the tank information for tank number, capacity, and substance stored. KDHE now lists the Chemical Abstracts Services (CAS) number and physical health hazards based on the substance stored in the AST. Report any changes to KDHE.

The lower portion of the invoice includes a “Certificate of Accuracy” where the owner must fill in current owner and facility contact information as well as give current phone numbers. Then the owner should make two copies of the completed invoice. The first copy is sent with the registration fee payment to KDHE. The second copy should go to the Local Emergency Planning Committee as instructed on the registration renewal invoice.

Owners of ASTs must send fee payments and completed renewal invoices to KDHE by **December 31**. KDHE issues AST permits for a period of one calendar year: August 1 to July 31. Tank owners who do not have a permit available for inspection by bulk product deliverers may not be allowed to purchase product to place in the tanks. In addition, owners who have spills or leaks from unpermitted petroleum storage tanks may not be approved for reimbursement from the AST Petroleum Release Trust Fund, or may be required to pay a fine prior to being allowed access to the trust fund. Owners also must notify KDHE of changes in AST ownership and tank status.

Owners can make application with the KSFMO for ASTs, newly installed or existing AST systems that owner/operators desire to register, any time of the year. No reduction or prorating of the fee is provided on the KDHE “Aboveground Storage Tank System Initial Registration Invoice;” each permit costs \$10, and is valid from its date of issue until the following July 31. Permits will be effective on the day that the permit is placed in the mail. Payment method for the permits is prescribed by K.A.R. 28-44-29, and must be by a

check or money order payable to the Kansas Department of Health and Environment.

According to Kansas Administrative Regulation 28-44-29 (b), "**After March 1, 1994, a regulated substance shall not be placed in an aboveground storage tank unless a valid permit is openly displayed at the facility.**" Anyone engaged in any activity that violates 28-44-29 (b) is subject to fines in an amount of up to \$10,000 per violation, especially if you are discovered to be operating unpermitted storage tanks during a KDHE inspection of your facility. Such activity includes (1) accepting delivery of regulated products into storage tanks lacking permits [the delivery company is also subject to a fine], (2) storing regulated products in storage tanks lacking permits, and (3) dispensing of regulated products from storage tanks lacking permits.

Registration of small tanks

Owners or operators of tanks below the regulated size, which contain petroleum products, may register the tanks if they desire. No permit is required for these small tanks, and no charge is made for the registration. Registration will allow reimbursement from the trust fund to owners for approved corrective action associated with tank spills or leaks.

Secondary Containment

Secondary containment to contain 110% of the largest tank volume within the containment area is required for aboveground storage tanks that are regulated by the KSFMO and KDHE. Contact the KSFMO for containment requirements. Overall, KDHE recommends that all permitted ASTs have some type of impermeable secondary containment system unless the ASTs are double-walled.

Secondary containment serves two purposes:

- Fire safety requires that burning liquids be contained in an isolated location away from structures, and should permit firefighters to approach the area safely;
- Environmental concerns require that petroleum and hazardous liquids not be permitted to cause widespread contamination by either seeping into the ground or by traveling on the surface to contaminate soil or water.

EPA Secondary Containment Requirements

The Environmental Protection Agency (EPA) requires secondary containment in addition to KSFMO requirements, for ASTs under the Oil Pollution Prevention Regulations. These regulations require many AST owners to maintain a Spill Prevention Control and Countermeasures Plan (SPCC Plan). These requirements apply to Owners and Operators of facilities engaged in drilling, production, gathering, storing, processing, refining, transferring or consuming oil or oil products providing:

1. The facility is non-transportation related,
2. Aboveground storage in a single container is greater than 55 gallons, or aggregate storage capacity is greater than 1320 gallons,
3. Facilities, which, due to their location could reasonably expect spilled oil to reach waters of the United

States.

For additional information about the EPA SPCC Plan requirements call the EPA Region 7 office at 913-551-7646.

THE KANSAS PETROLEUM STORAGE TANK RELEASE TRUST FUNDS OVERVIEW

The Storage Tank Act establishes two separate Trust Funds, Aboveground and Underground, to assist owners and operators of storage tanks with the cost of remedial actions. Both funds are designed to provide financial assistance to owners and operators of facilities where contamination from petroleum storage tanks has occurred. The Trust Funds are financed from a \$.01 fee placed on each gallon of petroleum (except aviation fuel) product manufactured in or imported into the state. The funds will be abolished on July 1, 2014 by the sunset provision unless reenacted by the Legislature. Outlined below is a brief summary of the program.

Who Qualifies for Reimbursement from the State Trust Funds:

- Owners or operators of underground and aboveground storage tanks. Private businesses, local and state governments who own/operate petroleum storage tanks are eligible.
- To be eligible, the contamination at the site must have been discovered on or after December 22, 1988.
- Owners or operators of the following tanks may qualify for reimbursement:
 - ASTs storing fuel in farm or residential noncommercial tanks of 1,100 gallons or less,
 - ASTs used to store heating oil at a single family residences, or
 - ASTs less than 660 gallons but used to store petroleum fuels.

Who Does Not Qualify for Reimbursement:

- The Federal Government.
- Owners or operators who meet the federal criteria for self-insurance and whose leaking tank are located on a facility that is engaged in the refining or production of petroleum.
- Owners or operators who knowingly allow a release of petroleum to occur or who do not cooperate in conducting the appropriate corrective action.
- Owners or operators of storage tanks at pipeline facilities where releases have occurred.
- Owners of tanks containing non-petroleum products

How to Obtain Reimbursement from the State Trust Funds:

- Submit an application for assistance from the aboveground fund.
- KDHE Trust Fund Staff will prepare and provide the owner with a pre-approved corrective action plan at a time determined by the priority ranking system. The work-scope will be prepared to assist the owner or operator in obtaining the required competitive bids.

- Three bids for all work associated with the remedial action must be obtained and approved in writing by KDHE Trust Fund Staff prior to the work being conducted.
- KDHE offers a bid assistance program for those who prefer to have KDHE obtain bids for them.
- The applicant must sign a consent agreement with KDHE related to implementation of the corrective action under the applicable fund.

Compliance Requirements:

To avoid potential fines, all regulated storage tanks must be registered with KDHE and have current valid AST permits. At the time they are approved for Trust Fund assistance, storage tank owners or operators who are not in compliance will be fined based upon the following:

- Failure to register storage tanks: \$50.00 per storage tank
- Failure to cooperate with KDHE directives: \$2,500.00 per site
- Failure to report a Release: \$2,500.00 per site
- Operating storage tanks without a permit: \$2,000.00 per site

Note: Owners/Operators with Facilities having both AST's and UST's at the same site must also comply with all applicable UST Regulations.

Petroleum Storage Tank Release Trust Fund Site Ranking System:

Due to the overwhelming number of applications for assistance from the funds, KDHE has developed a ranking system that evaluates the risk associated with each site. This ranking system takes into account several factors related to each site to determine which sites pose the greatest risk to the public. Using the ranking system KDHE assigns a score to each site. This score will establish the order in which sites are investigated and remediated. By using this method KDHE can focus limited resources on resolving the greatest risks to the public.

Costs Covered by the State Trust Funds:

(Cost must be pre-approved in writing by KDHE Trust Fund staff prior to the start of work)

- Preparation of corrective action plans which address the extent of contamination.
- Investigation and assessment of the contamination or petroleum release.
- Disposal and treatment of contaminated soil, groundwater, and/or surface water.
- Removal of contaminants from soil, groundwater, and/or surface water.

- Monitoring of the soil, groundwater, and/or surface water and maintenance of the monitoring equipment.
- Restoration or replacement of public water supplies.

Costs Not Covered by the State Trust Funds:

- Repair, removal, replacement, or disposal of tanks, product in tanks, lines, or dispensers.
- Costs for the loss of business or costs for third party bodily injury or property damage.
- Work or costs not approved in writing by KDHE Trust Fund Staff prior to the work being conducted.

Deductibles:

The deductible for each release is \$3,000 plus \$500 for each tank (above and below ground) located at the site of the release.

Financial Limitations of the Trust Funds:

- For each petroleum release: one million dollars, less the deductible.
- For owners or operators who own less than 100 tanks: a total annual amount of \$1,000,000 for all sites owned or operated, less any deductibles.
- For owners or operators who own more than 100 tanks: a total annual amount of \$2,000,000 for all sites owned or operated, less any deductibles.

FOR FURTHER INFORMATION:

If you have questions or need copies of the application form please contact:

Kansas Department of Health and Environment (KDHE)
Bureau of Environmental Remediation
Storage Tank Section
1000 SW Jackson, Suite 410
Topeka, Kansas 66612-1367
(785) 296-1678

New federal Spill Control and Countermeasures (SPCC) regulations enforced by the U.S. Environmental Protection Agency (EPA) require facilities with 1,320 gallons of capacity in aboveground storage tanks containing petroleum to have secondary containment, integrity testing, corrosion protection, security, and loss prevention (40 Code of Federal Regulations 112). These requirements along with a spill contingency plan should already be in place for AST facilities starting operation on or before August 16, 2002. These facilities must maintain or amend and implement existing SPCC Plans no later than November 10, 2010. Facilities starting operation after August 16, 2002, must prepare and implement a SPCC Plan no later than November 10, 2010. Licensed professional engineers do not have to sign SPCC plans for AST facilities storing 10,000 gallons or less of petroleum if facilities subject to SPCC plans have had no discharges outside secondary containment areas for the last 10 years for facilities 10 or more years older. If facilities storing 10,000 gallons of petroleum are less than 10 years old, licensed professional engineers do not have to sign SPCC plans if that facility has had no discharges outside secondary containment areas since the facility became subject to SPCC rules. The following EPA Web Site gives more information on SPCC regulations:

<http://www.epa.gov/OEM/content/spcc/index.htm>

The Kansas Storage Tank Act was amended by House Bill 2756, effective July 1, 2006, to provide a reimbursement fund to assist owners of aboveground storage tanks and bulk plants with the cost of upgrading their facilities to meet the requirements of the SPCC regulations. The reimbursement fund is called the Kansas Essential Fuels Supply Trust Fund and is intended to assist low volume, rural facilities with the cost of compliance with SPCC requirements. The new fund allows for reimbursement of 90% of the cost up to \$25,000 per facility in meeting the SPCC regulations. Only aboveground tanks and bulk plants used for storage of petroleum products for resale are eligible under this program.

The Kansas Department of Health and Environment will review applications for reimbursement based on current industry costs and provide reimbursement of reasonable and necessary costs. Such costs must be incurred after August 1, 2001, and not later than July 1, 2009. Application to the Kansas Essential Fuels Supply Trust Fund must be made on or before January 1, 2011. Requests for reimbursement of eligible costs must be made on or before December 31, 2011. Only costs for activities necessary to meet SPCC regulations will be considered for reimbursement.

The Essential Fuels Supply Trust Fund is structured in a manner similar to the Petroleum Storage Tank Release Trust Funds. Monies for the Essential Fuels Supply Trust Fund are provided by the same environmental assurance fee that funds the Underground Storage Tank Fund and Aboveground Storage Tank Fund programs.

Please contact KDHE at 785-296-1678 if you have questions about the Kansas Essential Fuels Trust Fund or need an application. This overview along with all Kansas Essential Fuel Supply Trust Fund forms and instructions can be found at:

http://www.kdheks.gov/tanks/trust_fund/essential_fuels.htm.

If you have additional questions about the EPA SPCC Program, please contact Alan Hancock at 913-551-7646 or the SPCC Hotline at 1-800-424-9346.

STATE OF KANSAS

**DEPARTMENT OF HEALTH AND ENVIRONMENT
PERMANENT ADMINISTRATIVE REGULATIONS
ARTICLE 44 - ABOVEGROUND STORAGE TANKS**

28-44-28. Aboveground storage tank fees. Fees required by K. A. R. 28-44-29 shall be in the form of a check or money order made payable to the Kansas Department of Health and Environment. (Authorized by and implementing K. S. A. 65-34, 105; effective Nov. 22, 1993)

28-44-29. Above ground storage tank operating permit. (a) Before a permit for an aboveground storage tank can be obtained or renewed, the owner shall comply with the following requirements.

(1) Each aboveground storage tank shall be registered with the department as required by K. S. A. 65-34,104. Registration shall be made on forms provided by the department, and shall include the following information:

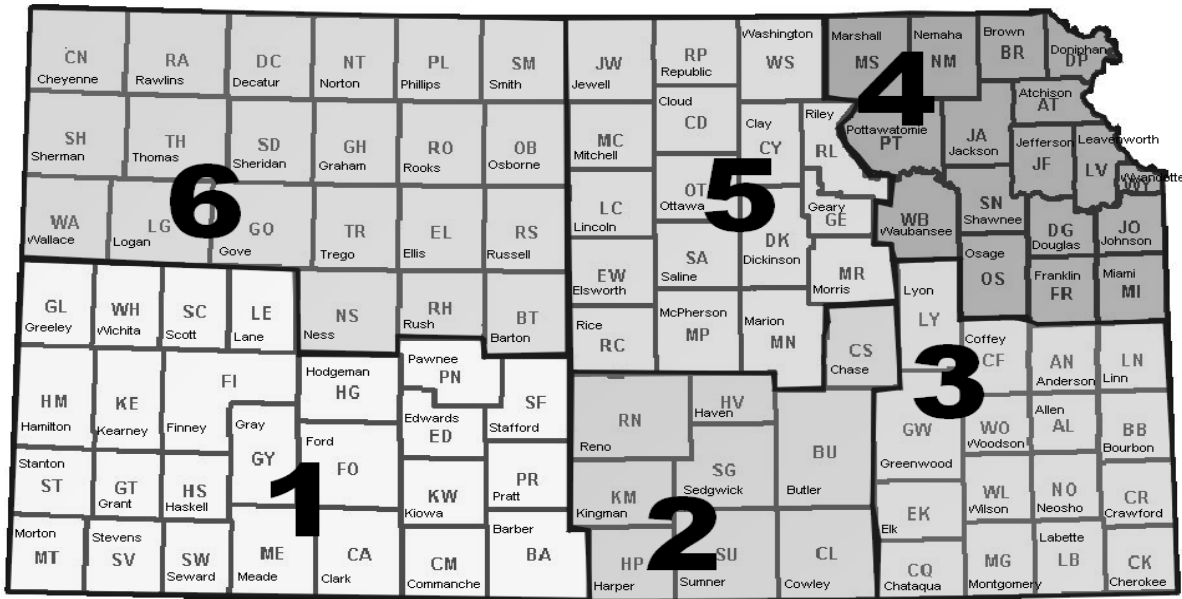
- a. Owner's name, address, and telephone number;
- b. facility address or location;
- c. tank status;
- d. tank age;
- e. tank capacity;
- f. tank system construction details; and
- g. product stored.

(2) An annual registration fee of \$10.00 per tank shall be paid to the department by each owner or operator of an aboveground storage tank prior to December 31 of each year; and

(3) A late notice fee of \$10.00 shall be charged for each facility which fails to submit the required fees prior to December 31 of each year.

(b) After March 1, 1994, a regulated substance shall not be placed in an aboveground storage tank unless a valid permit is openly displayed at the facility. (Authorized by and implementing K. A. S. 65-34,105 and 65-34, 106; effective Nov. 22, 1993.)

KDHE ADMINISTRATIVE DISTRICTS



The map above shows the District Number and the counties served by KDHE District Offices. If you should need additional information regarding AST requirements, or if you need to register AST tanks within Kansas, you should contact the appropriate individual listed below:

CENTRAL OFFICE STAFF

Program Area		Telephone No.
General Program Information		(785) 296-1678
Aboveground Storage Tank Trust Fund		
Remedial Action	Scott O'Neal	(785) 296-1597
Reimbursements	David Caldwell	(785) 296-0624
Aboveground Storage Tanks (ASTs)		
Unit Chief	Marcus A. Meerian	(785) 296-6372
Registrations	Gary Richardson	(785) 296-1677
Essential Fuels Supply Trust Fund		
AST Trust Fund		
AST Status, Applications, Registration Fees, & Ownership Changes	Cathy Herring	(785) 296-1678
AST Applications Approval	KSFMO	(785) 296-3401
AST Status	Pam Boyd	(785) 296- 5460
Leaking ASTs	Roger Boeken	(785) 296-1674
Leak Reporting		
Site Assessments		

DISTRICT STAFF

- 1. Southwest District Office** - Dodge City – (620) 225-0596
Daniel Bernasconi Geol. Assoc. Fax - 3731
Wade Kleven Geol. Assoc.
- 2. South Central District Office** -Wichita – (316) 337-6020
Kyle Parker Prof. Geologist Fax - 6023
Meer Husain Prof. Geologist
Stan Marcotte Env. Scientist
Vince Ressel Env. Scientist
- 3. Southeast District Office** - Chanute – (620) 431-2390
Vacant Prof. Geologist Fax - 1211
Renee Brown Geol. Assoc.
- 4. Northeast District Office** - Lawrence – (785) 842-4600
Tom Winn Prof. Geologist Fax - 3537
Meredith Roth Env. Scientist
Vacant Prof. Geologist
Nathan Luna Env. Scientist
- 5. North Central District Office** - Salina – (785)827-9639
Scott Lang Prof. Geologist Fax - 1544
Howard Debauche Prof. Geologist
- 6. Northwest District Office** - Hays – (785) 625-5663
Bill Heimann Prof. Geologist Fax - 4005
Darrell Shippy Env. Scientist