

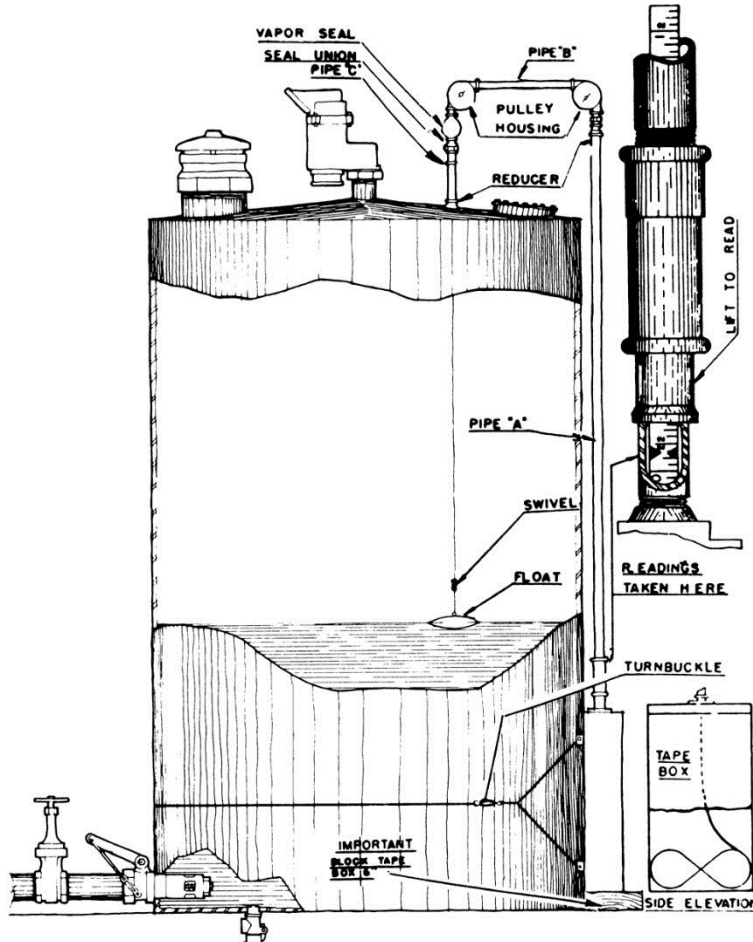


**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Environmental Cleanup & Brownfields

# Welcome to the 2018 Aboveground Storage Tank Inspector Seminar



# Introductions

## Central Office Staff

- **Alex Eckman** - *Solid Waste Program Specialist – Supervisor, AST Unit*
- **Anne Toth** - *Solid Waste Program Specialist - Permitting & Certification Unit*
- **Wendy Davis** - *Administrative Assistant 1 - Permitting & Certification Unit*
- **Alex Hess** - *Environmental Trainee - AST Unit*
- **Magen Majeski** - *Environmental Trainee - AST Unit*

# Introductions

## Regional Office Staff

# Ground Rules

- Please turn all cell phones and electronic devices to vibrate or silent mode.
- If there is an emergency, proceed to the closest emergency exit and gather outside. Generally, following the DEP regional staff is the way to go.
- Ask questions and interact! We are all here to learn from each other. This is your time to ask questions to the DEP technical staff.

# Let's start with:

## Administrative Information



# Receiving credit for this training

- ✓ **Sign in upon arrival in the classroom and obtain handouts**
- ✓ **If asked please present credentials**
  - **Certification Card**
  - **Photo ID**
- ✓ **Remain for the entire training session**
- ✓ **Obtain your training certificate**

# Central Office – AST Technical Staff

- **Randy Martin** - Environmental Group Manager - Supervisor of the Compliance and Enforcement Section (AST and UST Units)
- **Alex Eckman** - Solid Waste Program Specialist – Supervisor of the AST Unit

# Central Office – AST Technical Staff

- **Alex Hess** - Environmental Trainee  
All Regions
- **Magen Majeski** - Environmental Trainee

## Central Office – Certification and Permitting Staff

- **Eric Lingle** - Environmental Group Manager - Supervisor of the Registration, Permitting & Certification Section
- **Anne Toth** - Solid Waste Program Specialist - Permitting & Certification Unit
- **Wendy Davis** - Administrative Assistant 1 - Permitting & Certification Unit

# Why are we here?

## § 245.21 – Tank Handling and Inspection Activities

- Tank handling activities shall be conducted by a certified installer
- Storage tank facilities shall be inspected by a certified inspector

## § 245.31 – Tightness Testing

- Shall be conducted by a Department-certified UTT
- As of November 10, 2008 line testing requires UTT certification

# Why are we here?

## § 245.114 – Renewal and Amendment of Certification

- **...certifications are valid for 3 years... (certified individuals must go through the renewal process every 3 years)**

## ➤ Why are we here?

- **§ 245.114(c) An applicant shall meet the following minimum training requirements...for renewal of tank handling certification.**
- **§ 245.114(d) An applicant shall meet the following minimum requirements...for renewal of tank inspector certification.**

# ➤ Why are we here?

**For tank handlers:**

**One (1) of the requirements is attendance at any DEP-provided administrative training session. You must attend within the 24 month period preceding your submission of an application requesting renewal of tank handling certification.**

# Why are we here?

**For tank inspectors:**

**One (1) of the requirements is attendance at a DEP-provided inspector training session (technical seminar). You must attend within the 24 month period preceding your submission of an application requesting renewal of tank inspector certification.**

# ➤ Certification Renewal

## Requirements for Tank Handlers

### For Categories:

UMX  
UMR  
AMMX  
AMNX  
AMR  
AFMX  
AFR  
AMEX  
ACVL

### 3 Requirements:

- Technical Training or Retest for Each Certification Category
- Administrative Training
- Application

# > Certification Renewal

## Requirements for Tank Handlers

### For Categories:

UTT

### 3 Requirements:

- Maintain Current Certification with Testing Equipment Manufacturer (ex. Estabrooks, Acurite, etc.) Test method must be a current DEP-approved training course.
- Administrative Training
- Application

# ➤ Certification Renewal

## Requirements for Tank Handlers

### For Categories:

TL

### 3 Requirements:

- Coating Manufacturer's Certification (letter from coating manufacturer stating you have been trained in the proper installation of their coatings)
- Administrative Training
- Application

# > Certification Renewal

## Requirements for Tank Inspectors

### For Categories:

IAF/IAM

IAM only

### 3 Requirements:

- Maintain API 653 Certification
  - AST Technical Seminar
  - Application
- 
- Maintain API 653 or STI SP001 Certification
  - AST Technical Seminar
  - Application

# ➤ Certification Renewal

## Requirements for Tank Inspectors

### For Categories:

IUM

### 2 Requirements:



- UST Technical Seminar
- Application

# Certification Renewal

## Pay Attention to Your Expiration Date!

3930-FM-WC0042 Rev. 8/2005

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS  
 DIVISION OF STORAGE TANKS  
 P.O. BOX 8763  
 HARRISBURG, PENNSYLVANIA 17105-8763

THIS CERTIFICATION AUTHORIZES THE BELOW NAMED INDIVIDUAL TO CONDUCT TANK HANDLING OR INSPECTION ACTIVITIES PURSUANT TO THE STORAGE TANK AND SPILL PREVENTION ACT, AND DEPARTMENT REGULATIONS AT TITLE 25 PA CODE CHAPTER 245 IN THE SPECIFIC CATEGORIES SHOWN.

CATEGORIES	ISSUE DATE(S)	EXPIRATION DATE(S)
UMR *****	08/26/2015	08/26/2018
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

*Anne Toth*  
 Anne Toth, Chief  
 Certification Unit

ISSUED TO [REDACTED]  
 DEP CLIENT ID NUMBER [REDACTED]  
 CERTIFICATION NUMBER [REDACTED]

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 DIVISION OF STORAGE TANKS

INSTALLER/INSPECTOR CERTIFICATION NUMBER: [REDACTED]

ISSUED TO: [REDACTED]

CATEGORIES	EXPIRATION DATE(S)
UMR *****	08/26/2018
*****	*****
*****	*****
*****	*****
*****	*****
*****	*****

# Expired over 60 days!

**An individual's failure to renew certification within the *60 day period immediately following* an expiration date requires applicant to meet the *initial certification requirements* for that category. §245.114 (g)(1)**

## **Renewal requests submitted more than 60 days beyond the expiration date require:**

- Application
- Attachment A – listing verifiable activities
- Pass Category-specific Examination Module
- Note – Technical Training requirement specified at §245.111(a) is met by individuals who previously held certification in the category

# ➤ Renewal Notification Letters

- **Individuals and companies are notified by mail 4-5 months prior to expiration of each certification.**
  - ✓ This is a courtesy only
  - ✓ Requires the department to maintain accurate certification records
  - ✓ DEP notification of changes to **Addresses, phone numbers, employer/employee relationships** are extremely important
- **Failure to notify the Department of changes in certification information is a violation of the regulations.**

# ▶ Lost Card?

**Call or E-mail for a Replacement**

# ➤ Modifying Your Certification

**Adding one or more certification categories.**

**In most cases, you will need to meet the “initial” certification requirements:**

- **Years of experience**
- **Technical Training (initial course)**
- **Activities**
- **Application**
- **Technical Exam**

**Refer to “initial” qualifications sheet.**

# ▶ Modifying Your Certification

## Some exceptions:

- **You currently hold UMR:**
  - If you have a passing UMR exam score within the past 2 years, you can add AMR by submitting an application and requesting AMR. No training, no activities, no exam needed.
  - If no recent score, a new exam will be required. Submit application and take either the UMR or AMR exam.
- **You currently hold AFMX or UMX. You can add AMMX by submitting an application and taking the AMMX exam. No technical training or activities needed.**
- **You currently hold AMMX. You can add AMNX by submitting an application, 6 AST installation activities, and taking the AMNX exam. No technical training needed.**

# ➤ Modifying Your Certification

## Adding Inspector Categories:

- **IAF/IAM:**
  - 4 years experience
  - API 653 Certification
  - Application
  - Attachment A with 12 activities
  - Exam
- **IAM only:**
  - 4 years experience
  - API 653 or STI SP001 Inspector Certification
  - Application
  - Exam
- **IUM:**
  - 4 years experience
  - UMX Certification
  - UTT Certification or Familiarization
  - Corrosion Protection Training
  - Application
  - Exam

# Initial Certification

## For first-time applicants:

- Required years of experience.
- Initial technical training course for each requested category, out of state certification, other industry training
- Application
- Attachment A for each requested category showing required number of activities
- Exams:
  - Administrative exam
  - Technical exam for each certification category

# Technical Training Courses

## Training Courses for Tank Handlers and UTT

- Current list is located on the website.
- If you are adding a new category or signing up a co-worker who is brand new to certification, make sure you choose a course with the I/R designation (initial or renewal course)
- Developing your own training course:
  - Application is available on the website
  - Technical training for initial category-specific certification must be based on Nationally-recognized codes and standards in conjunction with manufacturers specifications
  - Technical training for renewal of category-specific certification must at a minimum review the technical and regulatory material appropriate for the certification category

# ► Certification Examinations

## § 245.105 – Certification Examinations

- **Separate administrative and technical content for examinations**
- **Passing score 80 for administrative and each technical section**
- **Applicants have up to 1 year from the date of authorization to take the examination**
- **An applicant failing an examination is eligible to retake the examination for up to 1 year from the failed examination test date, but no later than 18 months from date of authorization.**

# ➤ Certification Examinations

## The Certification Exam Process

- **Application reviewed (Experience, Education, Training, Attachments)**
- **Authorization letter and study materials sent to applicant at address designated on application (Home or Employer)**
- **DEP provides Plut Examination Service (PES) with names, addresses, list of authorized categories, & eligibility dates.**
- **PES notifies applicant of test dates and locations; provides registration forms & instructions. Exam fee \$75 per module.**

# ► Certification Examinations

## The Certification Exam Process, continued...

- **Two weeks before the exam, PES provides DEP with a list of individuals who registered for the exam.**
- **The Certification Unit cross references the list with applicant names & authorizations; verifies accuracy; notifies PES it is ok to proceed.**
- **Plut Examination Service prints the examination forms.**
  - **Signing up for the exam at this point will require an additional fee.**
  - **PES refund and credit policy is in effect, and is clearly defined in the registration materials mailed by PES to all individuals authorized by DEP to sit for the exams.**

# ➤ Certification Application

## § 245.104 – Application for Installer or Inspector Certification

- ✓ A complete application shall be submitted no later than 60 days prior to the announced date of the certification examination
- ✓ Use current forms as provided by the Department
- ✓ Include all Attachment A's, training certificates, etc.
- ✓ Signed and dated by applicant and company official (no computer generated signatures)

# Certification Application

## STORAGE TANK INSTALLER AND INSPECTOR CERTIFICATION APPLICATION (Read the instructions before completing this application)

DATE		OFFICIAL USE ONLY	
Appl. Appr.	Appl. Denied	Application #	_____
_____	_____	Client ID #	_____
_____	_____	Employer ID #	_____
_____	_____	Master Auth. #	_____
		Auth. ID#	_____
		Date Rec'd	_____

### SECTION I – APPLICANT INFORMATION

Name \_\_\_\_\_ SSN \_\_\_\_\_  
Last First MI

Home Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip +4 \_\_\_\_\_

Municipality \_\_\_\_\_ County \_\_\_\_\_  
(City, Boro, Twp)

Home Telephone (\_\_\_\_\_) \_\_\_\_\_ Cell Phone (\_\_\_\_\_) \_\_\_\_\_

Email Address \_\_\_\_\_



# ➤ Certification Application

File Edit Application Client Site Facility Compliance Fee Collection Bonding Views Reports Admin Complaints Help Window

Record / Verify Client - Role : APPL

Clients

Client Id 125107 Client Type INDIV Individual

Organization

Individual SMITH JOHN A

Search Name SMITH JOHN A

Browse by Name

Browse by AKA

General HQ Address Add'l Addresses AKAs Names

SSN XXX-XX-1234 EIN DUN DOB

Status ACTIN Active, Indiv Status Date

Resp Program WMHW WM Hazardous Waste

Created 02/18/1999 RCRIS BATCH 1

Updated

Verified No

Comment

Back Go To

Individual's Social Security Number.

Record: 1/1 <OSC>

# Certification Application

2630-PM-BECB0506 4/2012

## SECTION III – CURRENT EMPLOYER INFORMATION (If more than one, attach additional pages)

Hire Date \_\_\_\_\_ Employer's Federal Tax ID # (EIN) \_\_\_\_\_

Employer's DEP Client ID # \_\_\_\_\_ Employer's Certification # \_\_\_\_\_

Name \_\_\_\_\_ Company Type Code \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip +4 \_\_\_\_\_

Municipality \_\_\_\_\_ County \_\_\_\_\_  
(City, Boro, Twp)

Telephone (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Company Contact Person \_\_\_\_\_

Email Address \_\_\_\_\_

## SECTION IV – MAIL CORRESPONDENCE TO ADDRESS

Applicant Address  Employer's Address

If the applicant has more than one employer and chooses to have correspondence delivered to the employer's address, provide the name of that employer. \_\_\_\_\_

# Certification Application

INSTALLER CATEGORIES	Initial	Renewal		Delete
		Retest	Training	
<b>Underground</b>				
UMX _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UMR _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UTT _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<b>Aboveground</b>				
AMMX _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AMNX _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AMR _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AFMX _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AFR _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AMEX _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACVL _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Underground/Aboveground</b>				
TL _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<b>INSPECTOR CATEGORIES</b>				
<b>Underground</b>				
IUM _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<b>Aboveground</b>				
IAM _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
IAF _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>



# ► Certification Application

**Aboveground**

IAM \_\_\_\_\_  \_\_\_\_\_

IAF \_\_\_\_\_  \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_

\_\_\_\_\_  \_\_\_\_\_

## SECTION VI – APPLICANT’S CERTIFYING STATEMENT

I certify under penalty of law as provided in 18 PA C.S.A. §4904 (relating to unsworn falsification to authorities), that I am the applicant herein named, that I have received the safety training as provided for under §245.111(h) of the regulations, and that the information I have provided on this Application for Certification is true, accurate, and complete to the best of my knowledge and belief.

\_\_\_\_\_ / / \_\_\_\_\_

Signature of the Applicant (In Ink) Date

## SECTION VII – EMPLOYER’S CERTIFYING STATEMENT

I certify under penalty of law as provided in 18 PA C.S.A. §4904 (relating to unsworn falsification to authorities), that I am an officer of the applicant’s employer. The applicant herein named has been provided with adequate safety training as provided for under §245.111(h) of the regulations. I further certify that the information provided on this Application for Certification is true, accurate, and complete to the best of my knowledge and belief.

\_\_\_\_\_ / / \_\_\_\_\_

Signature & Title of Company Officer (In Ink) Date



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL PROTECTION



# Certification Amendment

## Certification Amendment Form

Change or add  
employer?

---

**SECTION II – CURRENT EMPLOYER INFORMATION:**

Federal Employer Tax Number (EIN) \_\_\_\_\_

Employment Start Date \_\_\_\_\_ Company Certification Number: \_\_\_\_\_

Employer Client ID \_\_\_\_\_ Company Type Code \_\_\_\_\_

Employer Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip+4 \_\_\_\_\_

County \_\_\_\_\_ Municipality \_\_\_\_\_

(City, Township, Borough)

Company Contact \_\_\_\_\_

Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Ext \_\_\_\_\_ Fax: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Email \_\_\_\_\_

Are you  Adding an Employer?  Changing Employers?  Deleting an Employer?

Previous Employer's Name \_\_\_\_\_ Date of change \_\_\_\_\_

---

**SECTION III – MAILING INFORMATION:**

Send correspondence to (Choose One)  Applicant's Home Address  Employer's Address

If more than one employer, specify employer \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

# Company Certification

## § 245.121 – Certification of Companies

- **The company applying for certification must employ at least one (1) DEP certified tank handler or inspector.**
  - **Note: An employee is an individual who has completed a IRS Form W-4 and to whom a company issues a IRS Form W-2 (Wage and Earnings Statement) at the end of the year.**
    - A company may contract with a certified individual to whom the company will issue an IRS Form 1099.
    - The non-certified company may contract with a certified company for the performance of tank handling, tightness testing or inspection activities.
    - The certified individual and certified company is responsible for submitting all forms or reports, and provides DEP with all applicable certification ID numbers.

# Company Certification

2630-PM-BECB0510 4/2012  
Application



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

## STORAGE TANK COMPANY CERTIFICATION APPLICATION

OFFICIAL DEP USE ONLY			
Appl. Appr	Appl. Den.	Application # _____	Client ID # _____
_____	_____	Master Auth. # _____	Auth. ID# _____
_____	_____		

### SECTION I – APPLICATION TYPE

- FIRST** request for Company Certification (This company has never applied for certification)
- RENEW** Company Certification (This company is currently certified, or has been previously certified)
- AMEND** Company Certification Information (Change of address, ownership, certified employees, etc.)

# Company Certification

2570-PM-BWM0510 Rev. 12/2009

Federal Employer Tax ID # (EIN) \_\_\_\_\_

## SECTION VII – CERTIFIED EMPLOYEES

Please list all certified installers and/or inspectors employed by this company. Also, if applicable list the names and termination dates of any previously employed and certified individuals who have terminated. If you have no PA Certified Installers or Inspectors write "None". If you have an employee who has applied for their first certification write "Pending". Note that an "employee" has a IRS Form W-4 (Tax withholding) on file and receives a Form W-2 (Wage and Earnings Statement) from the company. At least one certified individual must be employed in order for the company to receive DEP certification.

*\*If more space is needed copy this page before listing the certified individuals.*

Installer/Inspector Name	Certification Number	A=Active	P=Pending	T=Terminated
		Status (A, P, T)	Hire Date	Termination Date
<b>Brown, John L.</b>	<b>0101</b>	<b>A</b>	<b>07/22/05</b>	
<b>Smith, Edward P.</b>	<b>0202</b>	<b>T</b>		<b>03/21/09</b>
<b>Jones, Roger B.</b>	<b>NA</b>	<b>P</b>	<b>02/19/08</b>	

# ➤ Certified Companies List

**Storage Tanks Website →**  
**Underground Storage Tanks →**  
**Storage Tank Certified Companies**  
**Search**

**\*Updated Daily**



# Certified Companies List

Certified\_ST\_Companies - Report Viewer - Windows Internet Explorer

http://www.depreportingservices.state.pa.us/ReportServer/Pages/ReportViewer.aspx?/Tanks/Certified\_ST\_Companies


Method Index Certified\_ST\_Co... Google

REGION: Out of State PA COUNTY: All

CERTIFICATION CATEGORY: IUM - Inspector - UST - System

View Report

1 of 1 100% Find | Next

 Bureau of Environmental Cleanup and Brownfields  
**Certified Storage Tank Companies**  
9/5/2013 11:55:41 AM

Region: Out of State  
County: All  
Certification Category: IUM - Inspector - UST - System/Facility

Company Name	<b>CHRISTOPHER CONST CO INC</b>	County	
Address	<b>25 WELLS RD HAMMONTON, NJ 08037-8608 (609)561-1607</b>	Region	<b>Out Of State</b>

<u>CERTIFICATION CATEGORY</u>	<u>DESCRIPTION</u>
IUM	Inspector - UST - System/Facility
UMR	UST - Tank/System - Removal
UMX	UST - Tank/System - Installation/Modification

Company Name	<b>ELDRETH ENV SVC INC</b>	County	
Address	<b>654 COLORA RD COLORA, MD 21917-1122 (610)842-2418</b>	Region	<b>Out Of State</b>

Done

Local intranet | Protected Mode: On 125%

# Standards of Performance

## Standards of Performance

- **Your responsibilities as a certified individual or company**

# Standards of Performance

- **§ 245.132 – Standards of Performance**

**(a) Certified companies, certified installers and certified inspectors shall...**

**(1) Maintain current technical and administrative specifications and manuals...**

**(2) Submit, within 60 days of the inspection activity or 30 days of the tank handling activity, a Department-approved form certifying that the activity... meets the requirements of the act and this chapter...**

**... (for projects requiring multiple certification activities and individuals the tank handling and inspection reports may be submitted within 30 days of the conclusion of all activities).**

# Standards of Performance

- (3) Maintain complete records... for a minimum of 10 years.**
- (4) Report a release...or suspected contamination...observed while performing certified activities. Submit a written report within 48 hours. If notification is being submitted as a result of a failed tightness test, a copy of the test should accompany the written notification to the Region.**
- (5) Installers or inspectors should not sign documentation unless personally performed or supervised.**
- (6) Not certify... that the storage tank system project or component thereof is complete unless it complies with the act or this chapter. Project certification applies to both certified activities and non-tank handling activities performed as part of the project.**

# Standards of Performance

## Release Reporting Requirements for Department Certified Individuals

# Standards of Performance

**Release** – “Spilling, leaking, emitting, discharging, escaping, leaching or disposing from a storage tank into surface waters and groundwaters of this Commonwealth or soils or subsurface soils in an amount equal to or greater than the reportable released quantity determined under section 102 of CERCLA, and regulations promulgated thereunder, or an amount equal to or greater than a discharge as defined in section 311 of the Federal Water Pollution Control Act and regulations promulgated thereunder.

The term also includes spilling, leaking, emitting, discharging, escaping, leaching or disposing from a storage tank into a containment structure or facility that poses an immediate threat of contamination of the soils, subsurface soils, surface water or groundwater.”



# Standards of Performance

An **indication of a release** includes one or more of the following conditions:

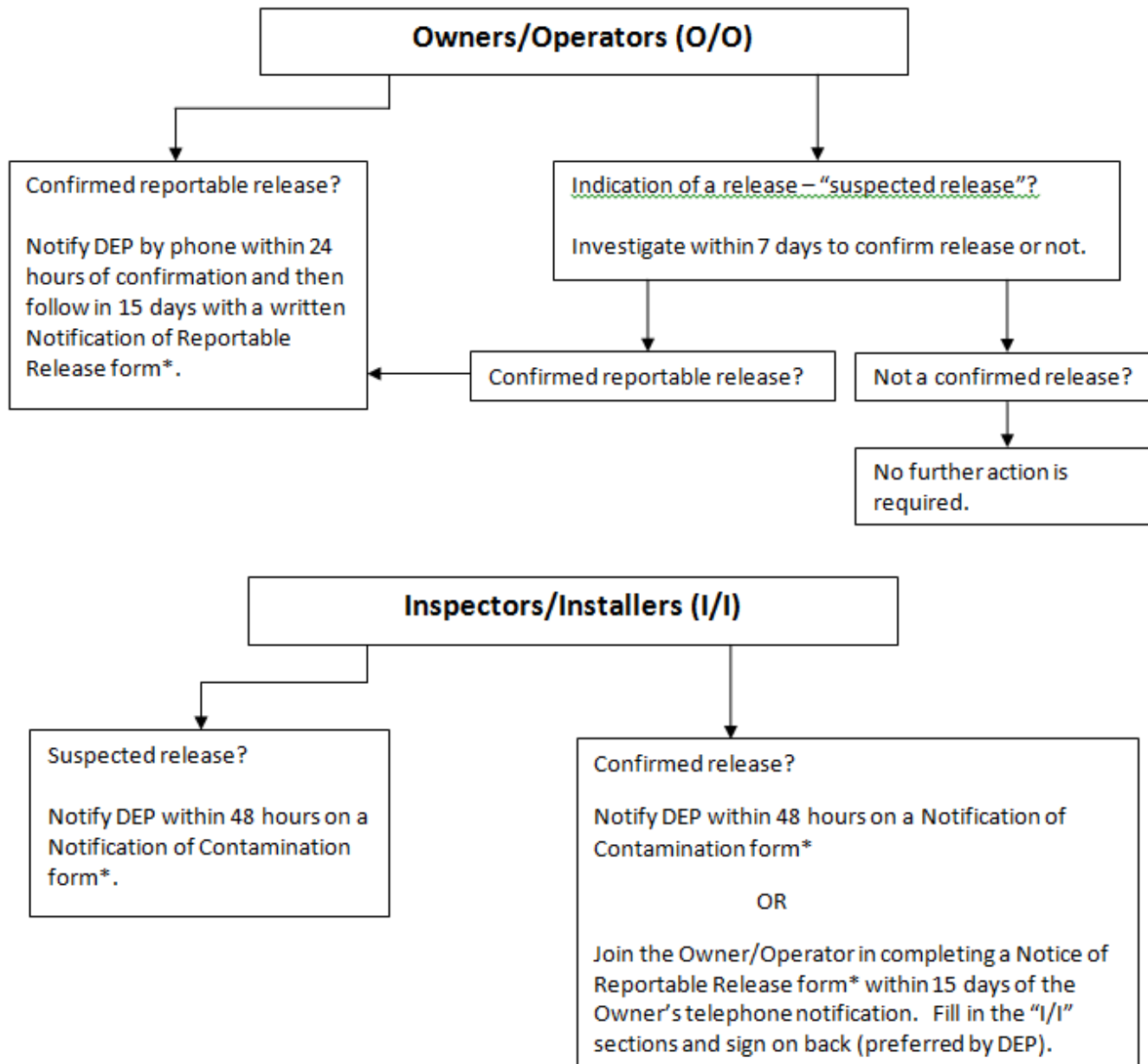
- (1) The presence of a regulated substance or an unusual level of vapors from a regulated substance of unknown origin at a storage tank facility.
- (2) Evidence of a regulated substance or vapors in soils, basements, sewer lines, utility lines, surface water or groundwater in the surrounding area.
- (3) Unusual operating conditions, indicative of a release, such as the erratic behavior of product dispensing equipment.
- (4) The sudden or unexpected loss of a regulated substance from a storage tank or the unexplained presence of water in a storage tank.

# Standards of Performance

- (5) Test, sampling, or monitoring results from a release detection method which indicate a release.
- (6) The discovery of holes in a storage tank during activities such as inspection, repair or removal from service.
- (7) Other events, conditions or results which may indicate a release.



## RELEASE REPORTING FLOW CHART



# Standards of Performance

## Reportable Release:

“A quantity or an unknown quantity of regulated substance released to or posing an immediate threat to surface water, groundwater, bedrock, soil or sediment.”



# Standards of Performance

“A Reportable Release **DOES NOT INCLUDE** (if the owner or operator has control over the release, the release is completely contained and, within 24 hours of the release, the total volume of the release is recovered or removed) the following:

1. A release to an interstitial space of a double-walled aboveground or underground tank.
2. A release of petroleum to an aboveground surface that is less than 25 gallons.
3. A release of a hazardous substance to aboveground surface that is less than its reportable quantity under CERCLA.”

# Standards of Performance

If a Department certified individual **suspects contamination** of soil, surface water or groundwater, while performing services as a certified individual, they must submit a “Notification of Contamination” form, within **48 hours**, to the appropriate regional office of the Department.

-They should indicate suspected contamination along with completing all of the certified individual’s sections of the form.

# Standards of Performance

If a Department certified individual confirms that a reportable release has occurred while performing services as a certified individual, they have two options:

1. Submit a “Notification of Contamination” form to the appropriate regional office of the Department within **48 hours**. On the form, they should indicate a confirmed contamination along with completing all of the certified individual’s sections of the form; or

# Standards of Performance

2. Submit the “Notification of Contamination” form jointly with the owner/operator of the facility within **15 days** of the owner/operator’s telephone notification to the appropriate regional office of the Department.

On the form, they should indicate a confirmed contamination along with completing all of the certified individual’s sections of the form.

# Standards of Performance

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

2550-FM-BWM0082 Rev. 12/2008  
BUREAU OF WASTE MANAGEMENT

<b>NOTIFICATION OF REPORTABLE RELEASE (Owners and Operators)</b>		<input type="checkbox"/> Initial <input type="checkbox"/> Follow-Up			
<b>NOTIFICATION OF CONTAMINATION (Certified Installers and Inspectors)</b>					
<p><b>NOTIFICATION OF REPORTABLE RELEASE (Owners and Operators)</b></p> <p>The Storage Tank Program's Corrective Action Process (CAP) regulations establish release reporting requirements for owners and operators of storage tanks and storage tank facilities.</p> <p>Subsection 245.305(a) of the regulations requires owners or operators to notify the appropriate regional office of the Department as soon as practicable, but no later than 24 hours, after the confirmation of a reportable release.</p> <p>Subsection 245.305(d) requires owners or operators to provide an initial written notification to the Department, each municipality in which the reportable release occurred, and each municipality where that release has impacted environmental media or water supplies, buildings, or sewer or other utility lines, within 15 days of the notice required by Subsection 245.305(a).</p> <p>Subsection 245.305(e) requires owners or operators to provide follow-up written notification to the Department and to each impacted municipality of new impacts to environmental media or water supplies, buildings, or sewer or other utility lines discovered after the initial written notification required by subsection 245.305(d). Written notification is to be made within 15 days of the discovery of the new impact.</p> <p>This form may be used to comply with Subsection 245.305(d) and (e).</p> <p style="text-align: center;"><b>OWNERS AND OPERATORS (O/O)</b>  <b>INDICATE IF THIS IS AN INITIAL OR FOLLOW-UP NOTIFICATION BY MARKING THE APPROPRIATE BOX FOUND IN THE TOP RIGHT-HAND CORNER OF THIS FORM. PLEASE COMPLETE ALL INFORMATION IN SECTIONS I, II, IIIA, IIIB, IV, V, VII and VIII.</b></p>	<p><b>NOTIFICATION OF CONTAMINATION (Certified Installers and Inspectors)</b></p> <p>The Storage Tank Program's Certification regulations establish standards of performance for certified installers and inspectors of storage tanks and storage tank facilities.</p> <p>Subsection 245.132(a)(4) of the regulations requires certified installers and inspectors to report to the Department a release of a regulated substance or confirmed or suspected contamination of soil, surface or groundwater from regulated substances observed while performing services as a certified installer or inspector.</p> <p>This form may be used to comply with Subsection 245.132(a)(4). Subsection 245.132(a)(4) requires submission of the form within 48 hours of observing suspected or confirmed contamination. Where there is a reportable release, the form may be submitted jointly by the owner, operator, certified installer and certified inspector. In this instance, the form must be received by the appropriate regional office within 15 days of the notice required by Subsection 245.305(a).</p> <p style="text-align: center;"><b>CERTIFIED INSTALLERS AND INSPECTORS (I/I)</b>  <b>PLEASE COMPLETE ALL INFORMATION IN SECTIONS I, II, IIIA, IIIC, VI, VII and VIII.</b></p>				
<b>INSTRUCTIONS</b>					
<p>I. <b>FACILITY INFORMATION</b> - Record the name, I.D. number and physical location (not P.O. Box) of the facility at which a reportable release has been confirmed or at which suspected or confirmed contamination has been observed. Include the name and phone number of a person to contact at the facility.</p> <p>II. <b>OWNER/OPERATOR INFORMATION</b> - Record the name, business address and phone number of the owner of the facility identified in Section I. Also, record the name and phone number of the operator of the facility.</p> <p>III. <b>REGULATED SUBSTANCE INFORMATION</b> - Indicate to the best of your knowledge: A) the type of product or products involved; B) the quantity of product or products released; and C) whether the contamination is suspected or confirmed.</p> <p>IV. <b>REPORTABLE RELEASE INFORMATION</b> - Record the date of confirmation of the reportable release, e.g., "9/18/01"; the date and regional office notified; and the date the local municipality(ies) [provide name of municipality(ies)] was/were sent a copy of this form. Indicate to the best of your knowledge the source/cause of the release, how the release was discovered and the environmental media affected and impacts.</p> <p>V. <b>INTERIM REMEDIAL ACTIONS</b> - Indicate the interim remedial actions planned, initiated or completed.</p> <p>VI. <b>SUSPECTED/CONFIRMED CONTAMINATION INFORMATION</b> - Record the date of observation of the suspected or confirmed contamination, e.g., "11/24/01". Indicate to the best of your knowledge the indications of a suspected release or extent of confirmed contamination resulting from the release of the regulated substance.</p> <p>VII. <b>ADDITIONAL INFORMATION</b> - Provide any additional, relevant, available information concerning the reportable release or suspected or confirmed contamination. Include in this section specific details or problems about the release. For example, if the piping was the source of the release and the cause was corrosion of a metal connector or flexible connector, it is important to include that information here. Use additional 8 1/2" x 11" sheets of paper, if necessary.</p> <p>VIII. <b>CERTIFICATION</b> - Please print your name, and provide your signature and date of signature. If a certified installer/inspector, provide certification number and company certification number.</p> <p>IX. <b>ATTACHMENT</b> - If a certified installer/inspector, provide a copy of failed tightness test(s), if applicable.</p> <p style="text-align: center;"><b>PLEASE SEND COMPLETED ORIGINAL FORM TO:</b>          PA Department of Environmental Protection          Environmental Cleanup Program          Storage Tank Section          (and the appropriate address below,          depending on where the FACILITY is located)</p>					
<p>Southwest Region 2 East Main Street Norristown, PA 19401 PHONE: 484-250-5900 FAX: 484-250-5961</p> <p style="text-align: center;"><b>Counties</b> Bucks, Chester, Delaware, Montgomery, Philadelphia</p>	<p>Northeast Region 2 Public Square Wilkes-Barre, PA 18711-0790 PHONE: 570-826-2511 FAX: 570-820-4907</p> <p style="text-align: center;"><b>Counties</b> Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming</p>	<p>Southeastern Region 909 Elmerton Avenue Harrisburg, PA 17110 PHONE: 977-353-1904 FAX: 717-705-4830</p> <p style="text-align: center;"><b>Counties</b> Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York</p>	<p>Northcentral Region 208 W. Third Street, Suite 101 Williamsport, PA 17701 PHONE: 570-321-6525/327-3696 FAX: 570-327-3420</p> <p style="text-align: center;"><b>Counties</b> Bradford, Cameron, Centre, Clinton, Clearfield, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Toga, Union</p>	<p>Northwest Region 400 Waterfront Drive Pittsburgh, PA 15222 PHONE: 412-442-6091/4000 FAX: 412-442-4328</p> <p style="text-align: center;"><b>Counties</b> Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland</p>	<p>Southwest Region 226 Chestnut Street Meadville, PA 16335-3481 PHONE: 814-332-6945 800-373-3398 FAX: 814-332-6121</p> <p style="text-align: center;"><b>Counties</b> Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren</p>



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

# Standards of Performance

2540-FM-BWM0082 Rev. 12/2008

FACILITY I.D. NUMBER \_\_\_\_\_

I. FACILITY INFORMATION (Both O/O and I/I)	II. OWNER/OPERATOR INFORMATION (Both O/O and I/I)
Facility Name _____ Facility I.D. Number _____	Owner Name _____
Street Address (P.O. Box not acceptable) _____	Address _____
City _____ State _____ Zip Code _____	City _____ State _____ Zip Code _____
County _____ Municipality _____	Phone Number _____
Contact Person _____ Phone Number _____	Operator Name _____ Phone Number _____

### III. REGULATED SUBSTANCE INFORMATION

A. Type of Product(s) Involved (Mark All That Apply <input checked="" type="checkbox"/> ): <u>Both O/O and I/I</u>	B. Quantity (Gallons) of Product(s) Released: <u>O/O Only</u>	C. Contamination Suspected [S] or Confirmed [C] (Mark All That Apply <input checked="" type="checkbox"/> ): <u>I/I Only</u>
Leaded Gasoline ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Unleaded Gasoline ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Aviation Gasoline ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Kerosene ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Jet Fuel ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Diesel Fuel ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
New Motor Oil ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Used Motor Oil ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Fuel Oil No. 1 ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Fuel Oil No. 2 ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Fuel Oil No. 4 ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Fuel Oil No. 5 ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Fuel Oil No. 6 ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Other (Specify) _____ <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]
Unknown ..... <input type="checkbox"/>	.....	<input type="checkbox"/> [S] ..... <input type="checkbox"/> [C]





# Standards of Performance

2550-FM-BWM0082 Rev. 12/2008

FACILITY I.D. NUMBER \_\_\_\_\_

## VIII. CERTIFICATION (Both O/O and I/I)

I, \_\_\_\_\_, hereby certify, under penalty of law as provided in 18 Pa.  
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the owner or operator of the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

\_\_\_\_\_  
Signature of Owner or Operator

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Date

I, \_\_\_\_\_, hereby certify, under penalty of law as provided in 18 Pa.  
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified installer who performed tank handling activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

\_\_\_\_\_  
Signature of Certified Installer

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Date

\_\_\_\_\_  
Installer Certification Number

\_\_\_\_\_  
Company Certification Number

I, \_\_\_\_\_, hereby certify, under penalty of law as provided in 18 Pa.  
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified inspector who performed inspection activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

\_\_\_\_\_  
Signature of Certified Inspector

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Date

\_\_\_\_\_  
Inspector Certification Number

\_\_\_\_\_  
Company Certification Number



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DEPARTMENT OF ENVIRONMENTAL PROTECTION

# Standards of Performance

**§ 245.132(b) A certified installer or certified inspector shall display a certification identification card or certificate upon request.**



# Standards of Performance

- **§ 245.21(a) – Tank Handling and Inspection Requirements**

**The certified individual must perform the activity or provide “direct, onsite supervision” whenever tank handling and inspection activities are occurring.**

# Standards of Performance

Pennsylvania Department of Environmental Protection  
Division of Storage Tanks  
March 28, 2014

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## **IMPORTANT NOTICE** **Signatures**

The Department has recently investigated numerous occurrences in which signatures affixed to Department documents were not signed by the individuals themselves. These documents include, but are not limited to, the Registration/Permitting Application Form, UST and AST modification report forms, tank inspection report forms, and Installer/Inspector and Company Certification Applications. Documentation submitted to the Department must be reviewed and signed by the proper individual(s), acknowledging the legal statements preceding the signature field(s) in the document.

**Under no circumstances should any other person sign the name of a certified individual, tank owner, or company officer.**

The Department takes this issue seriously. The submittal of fraudulent signatures to the Department can result in enforcement, such as suspension or revocation of Installer/Inspector or Company Certification. Criminal penalties can be considered under the guidelines set forth in 1. Pa. C.S. §4904, relating to unsworn falsification to authorities.

If you have questions or desire clarification of the above, please contact Eric Lingle with the Division of Storage Tanks at (717) 772-5599.

# Standards of Performance

## **Tank Installers Indemnification Program (TIIP):**

- *Companies doing underground tank work, make sure you keep up with fee payments.*
- *Annual company fee*
- *Activity Fees*
- *Company certification will not be renewed if behind on payments.*

# Storage Tank Permitting

## Permitting Requirements

# Storage Tank Permitting

## § 245.222 – Application Requirements

- **Application for a General Operating Permit shall be submitted on a Department form...**
  - **Storage Tank Registration / Permitting Application Form**
  - **A one-page Storage Tank Registration Amendment Form is now available for use in making some changes.**

# Storage Tank Permitting

2630-FM-BECB0607 Rev. 8/2012

Form



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

## STORAGE TANK REGISTRATION AMENDMENT FORM

Before completing this form, read the instructions provided for this form.

I. FACILITY AND CLIENT INFORMATION					
Facility ID#		Facility Name			
County		Municipality			
Client's Name or Registered Fictitious Name				Client ID#	
II. PURPOSE OF SUBMITTAL					
<input type="checkbox"/> Change to <b>C status</b> , Currently In Use Tank(s) *		<input type="checkbox"/> Change to <b>E status</b> , Tank(s) registered in error <b>only</b>			
* For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.		<input type="checkbox"/> Change Capacity			
<input type="checkbox"/> Change to <b>T status</b> , Temporarily Out of Use Tank(s)		<input type="checkbox"/> Change Substance			
		<input type="checkbox"/> Change Contact Information			
III. TANK INFORMATION					
Tank #	Change Date (Mo/Day/Yr)	Status	Capacity (Gallons)	Substance Name	CAS# Component %



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DEPARTMENT OF ENVIRONMENTAL PROTECTION

# Storage Tank Permitting

2630-PM-BECB0514 Rev. 9/2013  
Form

## X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

### SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date

## XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

### SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date



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DEPARTMENT OF ENVIRONMENTAL PROTECTION

# Storage Tank Permitting

## ONLINE STORAGE TANK REGISTRATION FEE PAYMENT NOW AVAILABLE

Visit [www.dep.pa.gov](http://www.dep.pa.gov), Search: “Storage Tanks ePermitting”

Click the link for ePermitting to go to the Storage Tanks ePermitting web page.

Follow the instructions on the ePermitting page to:

- Create a Greenport account
- Submit an Electronic Filing Administrator Agreement
- Gain access to your storage tank facility invoices
- Make payment
- Print a temporary registration certificate

A video tutorial is available to assist you through the payment process.

# New Registration Certificate

- More inspection information
- Easily track inspection due dates
- Shows overdue inspections
- “TBD” indicates the next inspection due date will be determined once tank repairs are made (AST only)

VERIFY PRESENCE OF WATERMARKED      HOLD TO LIGHT TO VIEW

**Commonwealth of Pennsylvania**  
**Department of Environmental Protection**  
**Bureau of Environmental Cleanup and Brownfields**

**STORAGE TANK REGISTRATION/PERMIT CERTIFICATE**  
**EXPIRATION: JUN-04-2015**

SEQ#	CAPACITY	SUBST	PERMIT TYPE	PERMIT STATUS	AST IN-SVC INSP DUE	AST OUT-OF-SVC INSP DUE	UST OPERATIONS INSP DUE	LINING INSP DUE
003	7,000	DIESL	PBR	Approved	*****	*****	07/10/2016	*****
004	3,000	GAS	PBR	Approved	*****	*****	07/10/2016	*****
005	3,000	DIESL	PBR	Approved	*****	*****	07/10/2016	*****
****	****	****	****	***	***	****	*****	*****
****	****	****	****	***	***	****	*****	*****
****	****	****	****	***	***	****	*****	*****
****	****	****	****	***	***	****	*****	*****
****	****	****	****	***	***	****	*****	*****
****	****	****	****	***	***	****	*****	*****
****	****	****	****	***	***	****	*****	*****

Client ID: 164666      Site ID: 572708  
Owner: VERNON L GESSNER      Facility Kind: TRANS  
Id: 22-61557      Facility Id: 22-61557  
GESSNER LOGGING      GESSNER LOGGING  
496 LUXEMBURG RD      LUXEMBURG RD  
LYKENS PA 17048      RR 1 BOX 391  
LYKENS PA 17048

**WARNING:** THIS DOCUMENT IS PRINTED ON SECURITY WATERMARK PAPER AND CONTAINS SECURITY FIBERS. DO NOT ACCEPT WITHOUT VERIFYING THE PRESENCE OF THE WATERMARK.

# Storage Tank Permitting

## § 245.203 – General Requirement for Permits

**(f) The Department will automatically withhold or withdraw the operating permit for a storage tank that is reported... in temporary closure or temporary removal from service (out-of-service) status...**

**(g) A storage tank system may not be operated if the Department suspends, revokes or denies the tank operating permit. A person may not deliver or place a regulated substance in a tank if the Department suspends, revokes or denies the tank operating permit**

# ▶ Delivery Prohibition

- **Lists are available on Storage Tank Web Site**
  - **Active tank list – no large ASTs or highly hazardous tanks**
  - **Suspended or revoked as a result of enforcement action**
  - **Tanks without operating permits**
- **Tanks in “T” (temporarily out of service) status**
  - **Tank must be empty**
  - **Operating permit withdrawn or withheld**

# Storage Tank Listings

**Storage Tanks Website → Registration →  
Regulated Tank List**

**Excel spreadsheets (updated monthly)  
or live search**

**\*Excludes large ASTs and  
highly hazardous tanks**

# Storage Tank Listings

7/11/2018 1:10:54 PM

Site ID: 453633      Client: 13067  
 Other ID: 38-39466      Client Name: PA DEPT OF MILITARY & VETERANS AFFAIRS  
 Name: AAFES FORT INDIANTOWN GAP      Address: 1 FORT INDIANTOWN GAP BLDG 0-11  
 Address: FISHER AVE BLDG 9-120      Address2:  
 Address2:      City: ANNVILLE  
 City: ANNVILLE      State: PA  
 State: PA      Zip: 17003-5099  
 Zip: 17003      County: Lebanon  
 County: Lebanon      Municipality Name: Union Twp  
 Municipality Name: Union Twp  
 Registration Expiration Date: 06/04/2019

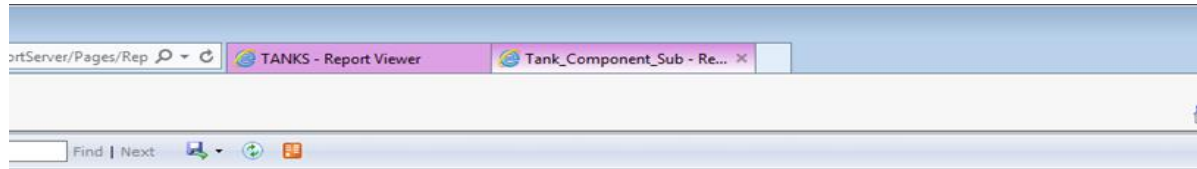
[Click Here For Tank Components](#)

SEQ NUMBER	TANK CODE	DATE INSTALLED	CAPACITY	SUB CODE	TANK STATUS	PERMIT TYPE	PERMIT STATUS	DATE LAST INSPECTION	NEXT INSPECTION DUE
934708 - 001	UST	10/19/2008	12,000	GAS	C	PBR	APPR	12/19/2016	FOI - 12/19/2019
934709 - 002	UST	10/19/2008	8,000	GAS	C	PBR	APPR	12/19/2016	FOI - 12/19/2019

## Query On:

- Facility ID
- County
- Municipality
- Zip Code
- Permit Status

# Storage Tank Listings



## Bureau of Environmental Cleanup and Brownfields Tank Components

7/10/2018 1:19:54 PM

EQ NUMBER	TANK CODE	TANK SYSTEM COMPONENT	TANK COMPONENT	DATE BEGIN
34708 - 001	UST	1 - TANK CONSTRUCTION	1F - FIBERGLASS (DOUBLE WALL)	10/19/2006
34708 - 001	UST	2 - UG PIPING CONSTRUCTION	2J - Double wall, rigid (FRP) primary	10/19/2006
34708 - 001	UST	4 - PUMP/DELIVERY SYSTEM	4C - PRESSURE	12/21/2010
34708 - 001	UST	5 - PIPE RELEASE DETECTION METHOD	5D - INTERSTITIAL MONITOR	01/13/2014
34708 - 001	UST	5 - PIPE RELEASE DETECTION METHOD	5K - ELECTRONIC LINE LEAK DETECTOR	12/21/2010
34708 - 001	UST	6 - SPILL PREVENTION	6Y - YES	10/19/2006
34708 - 001	UST	7 - OVERFILL PREVENTION	7A - OVERFILL ALARM	10/19/2006
34708 - 001	UST	12 - TANK RELEASE DETECTION METHOD	12E - AUTOMATIC TANK GAUGING	04/26/2016
34708 - 001	UST	18 - UST TOTAL SECONDARILY CONTAINED	18Y - YES	10/19/2006
34708 - 001	UST	19 - STAGE I VAPOR RECOVERY	19B - 2 POINT	10/19/2006
34708 - 001	UST	20 - STAGE II VAPOR RECOVERY	20B - COMPLETE ASSIST SYSTEM	01/13/2014
34708 - 001	UST	21 - TANK-TOP CONTAINMENT SUMPS	21A - AT ALL PENETRATIONS	12/21/2010
34708 - 001	UST	22 - UNDER-DISPENSER CONTAINMENT	22A - AT ALL DISPENSERS	12/21/2010
34708 - 001	UST	23 - LINE LEAK DETECTOR SHUTS OFF PUMP	23Y - YES	12/21/2010
34708 - 001	UST	PFLX - Piping Flexible Connectors	PFLXD - Completely Inside Containment Sump, Secondary Pipe or Liner	11/20/2007
34709 - 002	UST	1 - TANK CONSTRUCTION	1F - FIBERGLASS (DOUBLE WALL)	11/20/2007
34709 - 002	UST	2 - UG PIPING CONSTRUCTION	2J - Double wall, rigid (FRP) primary	11/20/2007
34709 - 002	UST	4 - PUMP/DELIVERY SYSTEM	4C - PRESSURE	11/20/2007
34709 - 002	UST	5 - PIPE RELEASE DETECTION METHOD	5D - INTERSTITIAL MONITOR	01/13/2014
34709 - 002	UST	5 - PIPE RELEASE DETECTION METHOD	5K - ELECTRONIC LINE LEAK DETECTOR	12/21/2010
34709 - 002	UST	6 - SPILL PREVENTION	6Y - YES	11/20/2007
34709 - 002	UST	7 - OVERFILL PREVENTION	7A - OVERFILL ALARM	11/20/2007
34709 - 002	UST	12 - TANK RELEASE DETECTION METHOD	12E - AUTOMATIC TANK GAUGING	04/26/2016
34709 - 002	UST	18 - UST TOTAL SECONDARILY CONTAINED	18Y - YES	11/20/2007
34709 - 002	UST	19 - STAGE I VAPOR RECOVERY	19B - 2 POINT	11/20/2007
34709 - 002	UST	20 - STAGE II VAPOR RECOVERY	20B - COMPLETE ASSIST SYSTEM	01/13/2014



# Site Specific Installation Permits

## § 245.231 – Scope

Site-specific installation permits are required *prior to* construction, reconstruction or installation...

- When adding an aboveground tank with a capacity greater than 21,000 gallons at an existing facility
- When installing tanks with an aggregate capacity greater than 21,000 gallons at a new AST facility
- New highly-hazardous storage tank systems
  - An AST or UST with a capacity greater than 1,100 gallons storing a highly hazardous substance
- New underground field constructed storage tank systems

# Site Specific Installation Permits

## **New Large Aboveground Facility:**

**An aboveground storage tank or a group of aboveground storage tanks with a capacity greater than 21,000 gallons at a site where no previously regulated ASTs were registered.**

# Site Specific Installation Permits

## Major Elements:

- Part I / Part II SSIP Application
- General Information Form
- Municipal & County Notification Letters (and Proof of Receipt)
- Siting – Floodplain, Wetlands
- Geology – if karst, deep-mined, or other geological issues, requires geotechnical analysis
- Mapping – plot plan, topographic map, wells within 2500' plotted
- Environmental Assessment – when required
- 30-day public notice in PA Bulletin required for new facilities (DEP handles this)



# Other Storage Tank Issues

## Additional Issues and Information

# New Alternative Fuels Factsheet



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

## UNDERGROUND STORAGE TANK (UST) EQUIPMENT COMPATIBILITY & STORAGE OF BIOFUELS AND BIOFUEL BLENDS

Federal and Pennsylvania release prevention laws require that regulated underground storage tank (UST) systems be constructed or lined with material that is compatible with the substance stored. Compatibility, in this sense, refers to the ability of both the storage tank system components and the stored substance to maintain their respective physical and chemical properties upon contact with one another for the design life of the tank system.

Because the physical and chemical properties inherent to biofuels, such as ethanol and biodiesel, differ from their conventional petroleum fuel counterparts, some UST equipment and components that are compatible with conventional petroleum fuels are not compatible with biofuels or biofuel blends. Higher biofuel blends – such as gasoline-ethanol blends containing greater than 10 percent ethanol, and biodiesel-blended fuel containing greater than five percent biodiesel – can degrade many non-metallic materials, such as natural rubber, polyurethane, older adhesives, certain elastomers and polymers used in flex piping, bushings, gaskets, meters and filters. They can also degrade soft metals, such as zinc, brass, aluminum, lead and copper.

Whether a newly installed UST system or an existing UST system that has been converted to store a different substance, the components of the UST system must satisfy the compatibility requirement before receiving delivery of product into the UST. The following UST system components should be compatible with the substance stored:

- Tank or internal tank lining
- Spill buckets and containment sumps
- Overfill prevention equipment
- Drop tube
- Fill and riser caps
- Line leak detector
- Release detection floats, sensors and probes
- Piping and flexible connectors
- Sealants (including pipe dope and thread sealant)
- Fittings, gaskets, o-rings, bushings, couplings and boots
- Suction pump and components
- Submersible turbine pump and components
- Product shear valve
- Dispensers and hanging hardware

Owners and operators of USTs storing ethanol blends may use the following code to comply with the compatibility requirement:

- American Petroleum Institute Publication 1626 (API RP 1626), "Storing and Handling Ethanol and Gasoline-Ethanol blends at Distribution Terminals and Service Stations."

There are a number of resources available to assist UST owners and operators with determining equipment compatibility with biofuels and biofuel blends, including:

- The Environmental Protection Agency's Office of Underground Storage Tanks maintains information about biofuels and links to resources relevant to storing ethanol and biodiesel in USTs: [www.epa.gov/oust/altfuels/biofuels.htm](http://www.epa.gov/oust/altfuels/biofuels.htm).
- The Petroleum Equipment Institute maintains an online database that contains information on equipment compatibility with ethanol-blended and biodiesel-blended fuels. Listings include product specifications and links to manufacturers: <http://resource.pei.org/altfuels/guide.asp>.
- The Steel Tank Institute maintains information about biofuels storage and links to tank manufacturers' statements of compatibility: [www.steeletank.com](http://www.steeletank.com).

In addition to the material compatibility of UST equipment with the substance stored, the functional capability of equipment used to meet the UST system operating requirements – such as overfill prevention and release detection equipment – may be dependent on the substance stored; as documented by equipment manufacturers' product literature and performance claims, or by third-party evaluations.

The Department of Environmental Protection (DEP) recommends that UST owners and operators follow the below checklist when installing a new UST system, or converting an existing UST system, for storage of gasoline-ethanol blends containing greater than 10 percent ethanol, or biodiesel-blended fuel containing greater than five percent biodiesel.

# New Alternative Fuels Factsheet

## Before Biofuel is Transferred to the Tank

- Determine storage tank system equipment compatibility with the product to be stored. Complete DEP form 2630-FM-BECB0608, *Alternative Fuel Storage Tank Installation/Conversion Form*.
- Check for water in the tank. No level of water is acceptable for gasoline-ethanol blends due to the possibility of phase separation.
- All visible fittings and connections at the top of the tank are tight (no vapors escape and no water enters).
- The appropriate vent top (pressure vacuum/updraft) is present for the type of product being stored.
- Stage I Vapor Recovery is installed and operational, if required.
- Sump and spill containment covers prevent water from entering.
- Water infiltration problems fixed if necessary.
- The tank has been cleaned of all water and sediment.
- Fill Labeling: identify the fill port and paint access covers according to API RP 1637.
- Dispenser Labeling: label dispenser in compliance with Federal and State regulations.
- New UST installation:** Within 30 days after installation, and prior to product delivery, submit to DEP a completed permit application 2630-PM-BECB0514, *Storage Tank Registration/Permit Application Form*, to register the UST and apply for an operating permit. Include the completed *Alternative Fuel Storage Tank Installation/Conversion Form*.

## First Delivery

- Tank filled to 80 percent capacity as recommended by the Renewable Fuels Association (RFA) and kept as full as possible for seven to 10 days.
- Have dispenser calibrated prior to any retail sales.
- Conduct a precision test of the tank system (0.1 gph leak rate) with automatic tank gauge (ATG) system within seven days after tank is filled to make sure the UST system is tight and the leak detection equipment is operating properly. Investigate any "Fail" results according to the suspected release investigation requirements.
- Test for water (use alcohol compatible paste if gauging a UST storing an ethanol blend) at the beginning of each shift for the first 48 hours after delivery (RFA). If there is water in the tank – remove it, find out how it got there, and fix it so it does not occur again.
- Existing UST conversion:** Within 30 days of changing the substance stored in the UST, submit to DEP a completed form 2630-FM-BECB0607, *Storage Tank Registration Amendment Form*, to amend the UST registration information. Include the completed *Alternative Fuel Storage Tank Installation/Conversion Form*.

## Ongoing Maintenance

- Check regularly for water. No level of water is acceptable for gasoline-ethanol blends.
- If product seems to pump slowly, check and replace filters.
- Calibrate the dispenser meter at the time of conversion and two weeks after conversion to verify meter accuracy. Particulate materials may cause excessive wear of the meter, which would require more frequent calibration (API RP 1626).
- Conduct daily, visual inspections of the dispenser and dispenser sump (secondary containment) beneath the dispenser (if one is installed) and perform periodic walkthrough inspections.

### **For additional information on Pennsylvania's Storage Tank Program or to obtain forms, contact:**

Central Office, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762, 717-772-5599, 800-42-TANKS (in PA only)

For more information, visit [www.dep.state.pa.us](http://www.dep.state.pa.us), keyword: Storage Tanks.

# Alternative Fuel Storage Tank Installation / Conversion Form

- All USTs, and ASTs used for motor vehicle fueling, storing:
  - Gasoline/alcohol blends greater than 10% alcohol (E15, E85)
  - Biodiesel blends greater than 5% biodiesel (B10, B20)
- Ensures compatibility of all system components



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

## ALTERNATIVE FUEL STORAGE TANK INSTALLATION/CONVERSION FORM

FOR DEP USE ONLY
Reviewer _____
Date _____

This form is to be completed and signed by the storage tank owner (or owner's representative) and DEP certified tank installer when installing a new storage tank system, or when converting an existing storage tank system, for storage of alternative fuel blends, such as gasoline-ethanol blends containing greater than 10% alternative fuel, or biodiesel or biodiesel blended fuel containing greater than 5% biodiesel. For aboveground storage tank systems, this form only applies to tank systems used for motor vehicle fueling. See the bottom of page 2 for the form submittal and recordkeeping requirements.

DEP recommends that UST owners and operators follow the procedural checklist provided in the Storage Tank Program Fact Sheet 2630-FS-DEP4447 *Underground Storage Tank (UST) Equipment Compatibility & Storage of Biofuels and Biofuel Blends*.

<b>I. FACILITY INFORMATION</b> – Type or print (in ink) all items. When completing this form for a new facility, omit the Facility ID.			
Facility ID#:		Facility Name:	
Facility Street Address:			
Facility Telephone:		County:	Municipality:
<p><b>II (a). STORAGE TANK &amp; PIPING INFORMATION</b> – Sections II(a) and II(b) should be completed in full by the storage tank system owner and DEP certified tank installer. Type or print (in ink) all items. Provide the model/brand and equipment manufacturer for each storage tank system component. Write "NA" and check the corresponding box if the tank/piping/dispenser system does not have the component. Write "UNK" if the model/brand or equipment manufacturer cannot be determined. Check the appropriate box(es) to indicate whether or not the component has been confirmed by a Nationally Recognized Testing Laboratory (NRTL), such as Underwriters Laboratories (UL), and/or has been verified by the component manufacturer for use with the substance stored. Only check "No" if the component is neither NRTL listed nor manufacturer verified. Only one storage tank system per form may be listed.</p> <p>DEP will not approve an operating permit for an alternative fuel storage tank system with "unknown" components, or components that are neither NRTL listed nor manufacturer verified for use with the substance stored, unless a PA licensed professional engineer (P.E.) who has knowledge, experience, and training in materials science determines in his/her professional judgment that those components satisfy the compatibility requirements listed in the Storage Tank Regulations in 25 Pa Code, Chapter 245. The P.E. must sign the certifying statement in Section IV. DEP may request documentation supporting the P.E. determination.</p>			
Tank Orientation: <input type="checkbox"/> Underground <input type="checkbox"/> Aboveground		<b>Alternative Fuel Blend (&gt;10%) Stored</b>	
Capacity (gallons): _____ Date Installed: _____		<input type="checkbox"/> E15 <input type="checkbox"/> E85 <input type="checkbox"/> Other _____	
<input type="checkbox"/> New Tank <input type="checkbox"/> Existing Tank → DEP Tank #: _____		<b>Biodiesel Blend (&gt;5% biodiesel) Stored</b>	
		<input type="checkbox"/> B10 <input type="checkbox"/> B20 <input type="checkbox"/> Other _____	
<b>Component</b>	<b>Model / Brand</b>	<b>Equipment Manufacturer</b>	<b>NRTL Listed or Manufacturer Verified for the Stored Fuel</b>
Storage Tank			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Internal Tank Lining			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
ATG Probe, Float / Sensor			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Tank Interstitial Sensor			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Spill Bucket			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Drop Tube			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Overfill Auto Shut-off Valve			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Ball Float Valve			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Product Pipe Information: <input type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Mixed (New & Existing)			
Product Pipe Configuration: <input type="checkbox"/> Single wall <input type="checkbox"/> Double wall			
Product Pipe			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Pipe Fitting / Valve Material			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA

# Alternative Fuel Storage Tank Installation / Conversion Form

2630-FM-BECB0608 5/2014

Facility ID#: \_\_\_\_\_ Facility Name: \_\_\_\_\_

**II (b). DISPENSER INFORMATION** – Follow the instructions provided for Section II(a) of this form. If needed, attach an additional copy of this page with Section II(b) completed for each additional dispenser unit installed to the storage tank system.

Dispenser Number: \_\_\_\_\_ Dedicated Dispenser Hose:  Yes  No Blending Dispenser:  Yes  No

Component	Model / Brand	Equipment Manufacturer	NRTL Listed or Manufacturer Verified for the Stored Fuel
Dispenser			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Suction Pump			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Dispenser Sump			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Dispenser Sump Sensor			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Sump Penetration Fittings			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Flex Connector			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Emergency (Shear) Valve			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Gaskets / Seals			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Blending Valve			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Check Valve			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Meter			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Fuel Filters			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Break-Away Device			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Nozzle(s) / Swivel(s)			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA
Hose(s)			<input type="checkbox"/> Listed <input type="checkbox"/> Verified <input type="checkbox"/> No <input type="checkbox"/> NA

**III. INSTALLER CERTIFICATION** – (Required)

Based on my personal observation of the storage tank system and review of the substance compatibility documentation for the storage tank system components, I certify that the storage tank system satisfies the compatibility requirements of Act 32 and Chapter 245. I also certify under penalty of law, as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided on this form is true, accurate and complete to the best of my knowledge and belief.

Installer Name \_\_\_\_\_ Installer Cert. No. \_\_\_\_\_ Company Name \_\_\_\_\_ Company Cert. No. \_\_\_\_\_

Installer Signature \_\_\_\_\_ Date \_\_\_\_\_

**IV. PROFESSIONAL ENGINEER CERTIFICATION** – (Only if needed. See the instructions for Sections II(a) and II(b).)

Based on my personal observation of the storage tank system and review of the substance compatibility documentation for the storage tank system components, I certify that the storage tank system satisfies the compatibility requirements of Act 32 and Chapter 245. I also certify under penalty of law, as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided on this form is true, accurate and complete to the best of my knowledge and belief.

P.E. Name \_\_\_\_\_ PA License No. \_\_\_\_\_ Phone No. \_\_\_\_\_ P.E. Signature \_\_\_\_\_ Date \_\_\_\_\_

**V. OWNER CERTIFICATION** – (Required)

My signature represents to the Department that I own or represent the owner of the storage tank. I have reviewed the completed form, and I certify under penalty of law as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities) that the information provided on this form is accurate and complete to the best of my knowledge and belief.

Owner/Representative Name \_\_\_\_\_ Owner/Representative Signature \_\_\_\_\_ Phone No. \_\_\_\_\_ Date \_\_\_\_\_

Facility Owner  Owner's Representative  Facility Operator  Property Owner

**Submit:** Within 30 days of the installation of a new storage tank or the conversion of an existing storage tank, mail the completed form to PA DEP at the address listed to the right.

**Recordkeeping:** Keep a copy of the completed form as a permanent installation/construction record for the operational life of the storage tank system, and have it available for review upon request by DEP or a certified storage tank inspector.

PA DEP  
Division of Storage Tanks  
P.O. Box 8762  
Harrisburg, PA 17105-8762

- The form is signed by the tank owner or owner's representative.
- The form is signed by a Professional Engineer for any components that have unknown compatibility, is unlisted, or the manufacturer's certification is not available.
- Finally, the form is signed by the PA DEP certified installer (UMX or AMMX).
- The ultimate responsibility lies on the UMX/AMMX to ensure that all system components are compatible with the substance stored.

# 2007 REGULATION CHANGES

## § 245.1 – Definitions

- **Re-regulates large aboveground heating oil tanks greater than 30,000 gallons capacity where the product is consumed on the premises where stored**
- **Registration of existing tanks was to have been accomplished by January 9, 2008**
- **Requires most combination of tanks (manifold systems) to be registered separately**

# 2007 REGULATION CHANGES

## § 245.1 – Definitions

**Regulated substances now include:**

- **Biodiesel**
- **Synthetic fuels and fluids (motor oil)**
- **Ethanol intended for blending with motor fuel**
- **Several non-petroleum oils**

# ▶ Notable Changes to Certifications

- ***AFMX*** – Now permits the *modification of tank components* of an aboveground manufactured storage tank system. (ex: nozzle, manway, etc.) **AMMX** still needed to *install* a manufactured tank system.
- ***TL*** - For purposes of corrosion protection, installation or repair of an internal UST lining is no longer permitted. A certified TL may evaluate the integrity of an internal UST lining or supervise the evaluation of the lining. (To evaluate an AST lining an IAM or IAF certification is required.)

# Storage Tank Closure

- **Closure Notification**
  - **Submit to Department regional office 30 days before scheduled date of removal – serves notice of intent to close or remove tank (USTs or Large ASTs)**
    - **This is a dual purpose form, also used to notify DEP of intent to install (USTs)**
- **Closure Report (USTs or Large ASTs)**
  - **When required the report is sent to the applicable Department regional office**
- **Registration/Permitting Application**
  - **The only way to remove tanks from system inventory**

# Storage Tanks Website

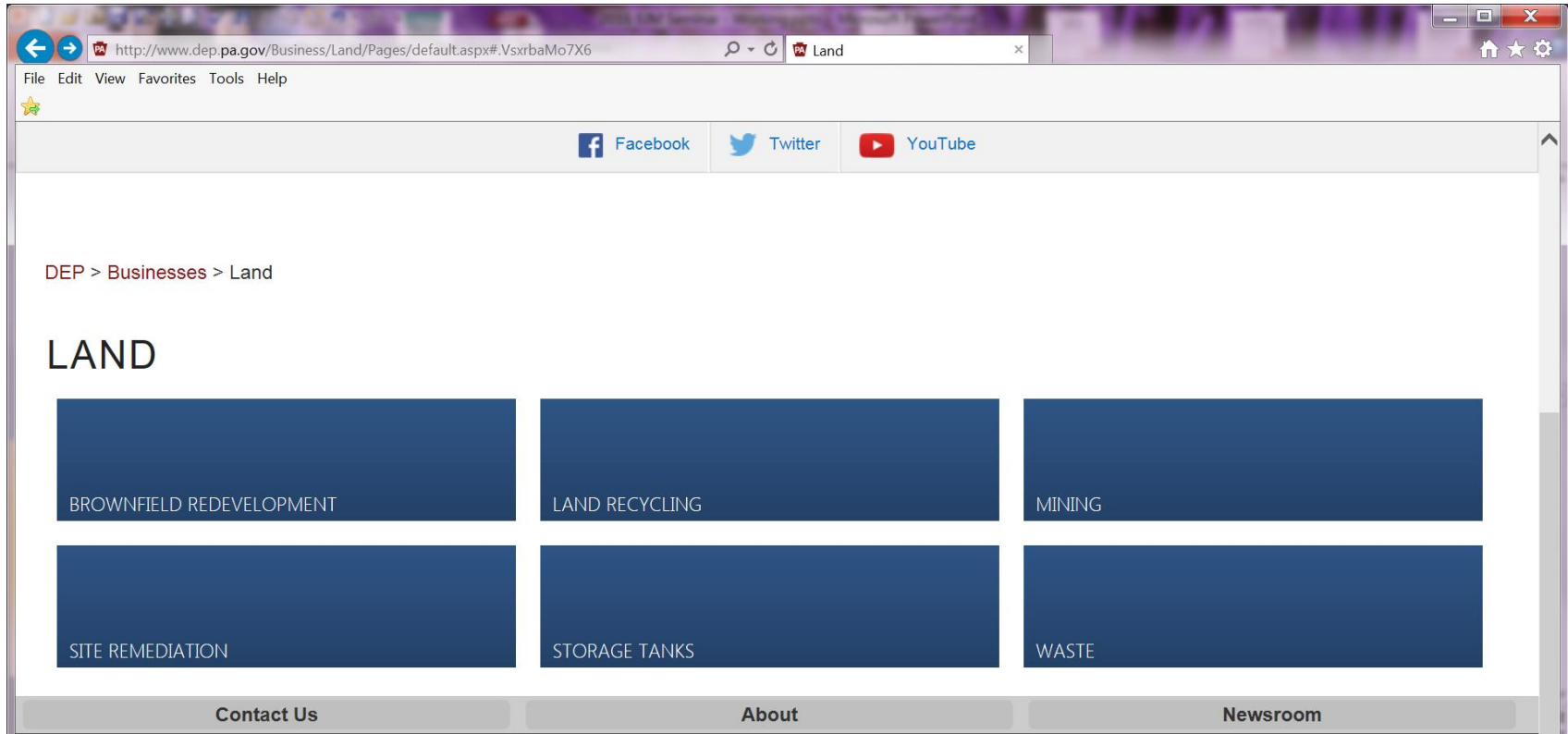
**[www.dep.pa.gov](http://www.dep.pa.gov)**



# Storage Tanks Website

The screenshot shows a web browser window displaying the Pennsylvania Department of Environmental Protection (PA DEP) website. The browser's address bar shows the URL <http://www.dep.pa.gov/Pages/default.aspx>. The website features a blue navigation bar with the following menu items: ABOUT DEP, CITIZENS, BUSINESSES, PUBLIC PARTICIPATION, and DATA AND TOOLS. The 'BUSINESSES' menu is currently open, displaying a list of categories: AIR, LAND, WATER, ENERGY, RADIATION PROTECTION, PROGRAM INTEGRATION, CONSTRUCTION CONTRACTS, and OTHER PROGRAMS. The main content area includes the PA.GOV logo, the Pennsylvania Department of Environmental Protection logo, and the names of Governor Tom Wolf and Acting Secretary Patrick McDonnell. Social media links for Facebook, Twitter, and YouTube are also visible. A search bar is present on the right side of the page. At the bottom, a blue banner contains the text: [Governor Tom Wolf announced his 2017-2018 budget proposal on February 7, 2017. More Details](#) with a 'Close' button on the right.

# Storage Tanks Website



# Storage Tanks Website

DEP > [Businesses](#) > [Land](#) > Storage Tanks

## WELCOME TO DIVISION OF STORAGE TANKS

In accordance with the Department of Environmental Protection's mission, the Storage Tank Program will protect Pennsylvania's air, land and water from storage tank releases and provide for the health and safety of its citizens. Storage Tank Program staff will work as partners with individuals, organizations, governments and businesses to prevent releases from storage tanks and restore our natural resources when releases do occur. Under the [Storage Tank and Spill Prevention Act](#), which became effective on Aug. 5, 1989, the Storage Tank Program is responsible for developing and implementing [regulations](#) for above ground and underground storage tanks. Specific program responsibilities include the following: tank [registration](#) and payment of an annual registration fee, [certification](#) of tank handling and inspection individuals and companies, [permitting](#) of tanks, establishment of technical and operational standards for [aboveground](#) and [underground](#) storage tank systems, and procedures for reporting of releases and [corrective action](#) by tank owners.

### RELATED INFORMATION

- ABOUT STORAGE TANKS
- FACT SHEETS
- DEP TECHNICAL GUIDANCE DOCUMENTS
- FORMS AND APPLICATIONS
- ABOVEGROUND STORAGE TANKS

Contact Us      About      Newsroom

+ More      Agencies      Privacy Policy      Settings      Share      Tech Help

# Administrative Summary

- **Submit documents, reports, applications on current forms**
  - **Tank handling activities within 30 days of completion**
  - **Inspection activities 60 days from date of inspection**
  - **Inspections as part of a project involving multiple certified individuals and certification categories should be submitted 30 days from completion of the project. Signature dates should never precede an install date!**
- **New Alternative Fuel Storage Tank Installation / Conversion Form**
- **Pay attention to your certification expiration date**
- **Renew certification 60-120 days prior to expiration date**
- **Requests for renewal of certification submitted more than 60 days beyond expiration date requires applicant to meet initial requirement for certification (see handout – Qualifications for Initial Applicants)**
- **Update individual and company information as changes occur**

# Administrative Summary

- **Certified companies and certified individuals share responsibility for all activities, and for the timely submission of all reports or project-related forms**
- **Certify safety training and application accuracy**
- **All tank handling or inspection activities involving non-certified employees or personnel are to be supervised by a certified installer or certified inspector with the applicable certification**
- **Do not sign tank handling or inspection documents unless you performed or supervised the certified activity**
- **Please don't refer tank owners to the Pollution Prevention Reimbursement Grant Program (pump & plug) without confirming eligibility**
- **Companies, pay TIIP fees!**

# ▶ Department Contact Information

PA DEP

Rachel Carson State Office Building

400 Market Street

P.O. Box 8763

Harrisburg, PA 17105-8763

Phone: 1-800-42-TANKS (in PA)

717-772-5599

FAX: 717-772-5598

Web address: [www.dep.pa.gov](http://www.dep.pa.gov)

**Let's take a 10-minute break**



# **AST Technical Information**

Presented by:

**AST Technical Staff**

# Aboveground Storage Tank Inspection

- Inspection Summary Forms
  - Ensure the most current are being utilized
    - Check AST part of DEP Division of Storage Tank Website
    - DEP will try to keep you updated if changes are implemented

# Aboveground Storage Tank Inspection

2630-FM-BECB0150 Rev. 3/2013  
FORM



Latest update

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

## ABOVEGROUND STORAGE TANK INTEGRITY INSPECTION SUMMARY

<p><b>I. <u>Type of Inspection</u></b></p> <p><input type="checkbox"/> In-service</p> <p><input type="checkbox"/> Out-of-service</p> <p><b>Lining inspection</b></p>	<p><b>II. <u>Inspection Date(s)</u></b></p> <p>Completion of this inspection _____</p> <p>Last in-service inspection _____</p> <p>Last out-of-service inspection _____</p>	<p><b>FOR DEP USE ONLY</b></p> <p>Reviewer _____</p> <p>Date _____</p> <p>Entered By _____</p> <p>Date _____</p>
<p><b>III. <u>Facility Information</u></b></p> <p>Facility I.D. Number <b>XX-XXXXX</b> _____</p> <p>Facility Name _____</p> <p>Facility Address _____</p> <p>_____</p> <p>Municipality _____</p>	<p><b>IV. <u>Inspector Information</u></b></p> <p>Name _____</p> <p>Certification number _____</p> <p>Phone <b>Number where you can be reached</b> _____</p> <p>Employer _____</p> <p>Employer certification number _____</p>	

# Aboveground Storage Tank Inspection

## V. Tank Identification

Owner's Tank  
DEP Tank ID number 123\_A ID Number \_\_\_\_\_  
Nominal Capacity (gallons) NOT BARRELS!  
Size: diameter \_\_\_\_\_ (ft) length/height \_\_\_\_\_ (ft)  
Substance stored Current or proposed, if empty  
Original construction code Must be AST

## VI. Fire/Safety Permit

Number Is this AST on the permit?  
Issuing Authority PA L&I? City? PASPFM?  
Date Issued \_\_\_\_\_

- |   |                                      |
|---|--------------------------------------|
| <input type="checkbox"/> Horizontal Saddle Tank | <input type="checkbox"/> Shop Built  |
| <input type="checkbox"/> Vertical Tank          | <input type="checkbox"/> Field Built |
| <input type="checkbox"/> Elevated Vertical Tank |                                      |

Check one box  
in each column

**MUST BE AST.**

# Aboveground Storage Tank Inspection

## VII. Certified Inspector

I, the DEP Certified Inspector, have inspected the entire above referenced tank system. Based on my observation of the tank system, review of examination and tests results and information provided by the owner, I certify under penalty of law as provided in 18 Pa. C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided by me is true, accurate, and complete to the best of my knowledge and belief. I also certify that this tank system  can  cannot remain in service or be returned to service without additional evaluation or modification.

Your signature, signed by you.

Certified Inspector's Signature

Date signed

Date

VIII. Owner or Owner's Representative I have reviewed the completed inspection report. I certify under penalty of law as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities), the information provided by me is true, accurate, and complete to the best of my knowledge and belief.

\_\_\_\_\_  
Name (Please Print)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\*Ensure owners reviewed/understand inspection, if they refused to sign, write that in the signature block.

# Aboveground Storage Tank Inspection

2630-FM-BECB0150 Rev. 3/2013  
FORM

Facility ID XX — XXXXX

DEP Tank ID 123 A

Inspection Date \_\_\_\_\_

IX. **Evaluation of Tank System** Indicate the condition of the following components by marking the appropriate columns. If unsatisfactory explain deficiency in comment section.

<u>System component</u>	<u>Unsatisfactory</u>		
	<u>Satisfactory</u>	<u>Tank Cannot be Returned to Service</u>	<u>Not Applicable</u>
Foundation and tank supports	<input type="checkbox"/>	<input type="checkbox"/>	
Tank shell	<input type="checkbox"/>	<input type="checkbox"/>	
Tank roof	<input type="checkbox"/>	<input type="checkbox"/>	
Tank bottom/floor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal linings & coating, if installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Method(s) used for nondestructive examination(s)	<u>Large AST bottoms need visual, UT, and 1 more (VB, MFE, etc.)</u>		

	<u>Satisfactory</u>	<u>Unsatisfactory</u>	<u>Tank Cannot be returned to service</u>	<u>Not Applicable</u>
External deterioration protection	<input type="checkbox"/>	<input type="checkbox"/>		
Appurtenances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ancillary equipment (including piping)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cathodic protection system, if installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*Ensure any comments in Section XV. match this section.

Always label each page with Facility ID, DEP Tank ID, and Inspection Date.

# Aboveground Storage Tank Inspection

## X. Calculated Information

1. Corrosion/deterioration rate: Tank Shell \_\_\_\_\_ (in/yr) 3. Service life based on corrosion rate:  
Tank Bottom \_\_\_\_\_ (in/yr) Tank \_\_\_\_\_ (years)  
Piping \_\_\_\_\_ (in/yr) Piping \_\_\_\_\_ (years)

Which method did you use to calculate the tank bottom service life?:  API-653  Corrosion Rate

What was the retirement thickness for the calculation? (T-min or other endpoint) \_\_\_\_\_

2. Next inspection scheduled by: **If checked, the cannot remain in service (box on page 1 should be checked)**  
In-service \_\_\_\_\_ (mm/dd/yy)  Next Inspection Dates to be Determined after  
Out-of-service \_\_\_\_\_ (mm/dd/yy) Repairs and before tank is returned to service

Calculate **corrosion rates, service life and next inspection dates**, unless the *minimum acceptable thickness* has been reached for that component.

If repairs are completed subsequent to the inspection, the next inspection dates can be updated *after* the modifications.

# ▶ Calculation of service life (large ASTs)

- **API 653 calculated service life method,**
  - Based on minimum acceptable thickness for continued use (0.1 in. or 0.05 in. for bottom)

**OR**

- **Corrosion rate life method**
  - $\frac{1}{4}$  of the corrosion rate life with a maximum of 5 years for in-service inspection frequencies
  - $\frac{1}{2}$  of the corrosion rate life with a maximum of 20 years for out-of-service inspection frequencies

# Aboveground Storage Tank Inspection

## XI. Observations

1. Contamination observed/suspected:  No  Yes, Department notification form submitted on \_\_\_\_\_.
2. Does the tank have any perforations?  No  Yes
3. Is the tank system appropriately labeled?  Yes  No

## XII. Record Review

1. Written operations and maintenance plan available on site:  Yes  No
2. Spill Prevention Response Plan is current and available on site:  Yes  No  Not required
3. Owner/Operator monthly maintenance inspection record is available for the past twelve months:  Yes  No
4. Is this tank internally lined?  Yes  No  No record available
5. Is a leak test required at the time of this inspection?  Yes  No  
If so, did the test indicate a possible leak?  Yes  No What method was used? \_\_\_\_\_

Do not overlook these sections.

*If available, you **must review** these records as part of your integrity inspection. If any of the required records aren't available, please note and comment about this.*

# Aboveground Storage Tank Inspection

## Records

- **Spill Prevention Response Plans (SPRPs)**
  - Required when the aggregate capacity of all regulated ASTs exceed 21,000-gallons
  - SPCC plans are not necessarily SPRP Plans.
- **Operation and maintenance plans** are an integral part of the SPRP
  - Also required for large storage tank facilities
  - Does not need to be a standalone document, but make sure that it's included with the SPRP, if it is not.

# Aboveground Storage Tank Inspection

## Records

- **Leak tests** are required for existing large ASTs *without secondary containment (RPB), no cathodic protection, and no internal lining* at every in-service integrity inspection – Refer to API Publication 334 – A Guide to Leak Detection for ASTs

Methods include:

- Acoustic Technology
- Volumetric/Mass Technology
- Soil-Vapor Monitoring Technology
- Inventory Control Technology
- Tracer Gas (i.e. helium tests)

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# Aboveground Storage Tank Inspection

2630-FM-BECB0150 Rev. 3/2013  
FORM

Facility ID \_\_\_\_\_

DEP Tank ID \_\_\_\_\_ A

Inspection Date \_\_\_\_\_

## XIII. Tank Information

### (1) Tank Construction

- A Single wall steel
- D Double wall steel
- E Single wall fiberglass
- F Double wall fiberglass
- R Single wall molded plastic
- S Single wall stainless steel
- 99 Other \_\_\_\_\_

### (3) Aboveground Piping Construction

- A Steel
- D Fiberglass
- F PVC or Plastic
- L Stainless Steel
- 99 Other \_\_\_\_\_

### (5) Pipe Release Detection Method

- G Visual inspection
- H None
- 99 Other \_\_\_\_\_

### (7) Overfill Prevention

- Y Yes
- N No

### (10) Tank Cathodic Protection

- B Galvanic
- C Impressed current
- N None

### (16) Emergency Containment **Check records.**

- Meets permeability requirement
- Verified by a Registered Professional Engineer
- Containment present but does not meet requirements
- No containment structure
- Outer wall of a double walled tank

### (17) Secondary Containment

- Impermeable layer: **Material?** \_\_\_\_\_
- Space for release detection: **What space?** \_\_\_\_\_
- N None

### (24) Normal Vent / Emergency Vent

- S Satisfactory
- U Unsatisfactory

**Identify which vent, if "Unsatisfactory"**

# Aboveground Storage Tank Inspection

XIV. Double Walled Tanks If this is a double walled tank that relies solely on the outer wall for containment, please answer the following questions.

Is there spill prevention (Spill Bucket/Containment Box)?  Yes  No

Are there block valves on all product lines?  Yes  No

Is there a solenoid valve or antisiphon device?  Yes  No  Not applicable?

- **Solenoid valve or anti-siphon device is only *not applicable* when:**
  - All the piping never drops below maximum liquid level for the tank.
- OR**
- There is no pumping system downstream of the block valve located immediately downstream of the tank nozzle.

# Aboveground Storage Tank Inspection

XV. Comments Describe any tank system deficiencies and note additional information discovered during the inspection. If additional comment sheets are needed, label each sheet with facility and tank identification numbers, inspection date and page number.

Describe any deficiencies here:

\*Ensure comments match evaluation and observations sections of the AST Integrity Inspection Summary Form.

# Aboveground Storage Tank Inspections

## AST Integrity Inspection Summaries

- Ensure that the summaries are sent within 60-days of inspection date.
- Review thoroughly if you aren't filling out the forms, sign-off and submit when completed, see above.
- Do not sign the form unless you personally performed the entire integrity inspection.
- If tank is internally lined, please add the due date for the lining inspection to the form
- Changes to this form are forthcoming

# ▶ AST Modifications

- Major Modifications\*:
  - alters design and may affect integrity of AST system or facility; affects tank portion
- Minor Modifications:
  - does not alter design and may affect integrity of AST system or facility; does not affect tank portion.
- Maintenance :
  - does not alter design and does not affect integrity of AST system or facility.

\*Always inspected for large ASTs

## AST Modifications

- *Storage Tank Modification/Maintenance Technical Guidance* updated March 2014
- Read the definitions to assist category of repair
- Questionable repairs, please call AST Unit
- If inspection is needed for major modifications, involve appropriate AST inspector *prior to repair and critical times*
- **30-day submittal requirement for Modification Reports**

# ▶ AST Major Modifications

- Replacement or addition of tank shell plate(s)
- Repair or replacement of tank bottom
- Installation, repair or replacement of interior lining or coating
- Installation, replacement, or structural repair of the tank integral roof or of an internal floating roof
- New or additional piping runs or not-like kind replacements within the containment
- Initial penetrations of tank shell, roof or bottom
- Installation of new containment structure

# ▶ AST Minor Modifications

- Excavations *within the containment*, but not under tank or piping supports.
- Installation of *spill containment, tank gauging, and vents* for which the AST was designed and fitting exist on the shell or roof
- Repairs involving cutting or welding on piping runs or not like kind replacements downstream of the first control valve and within the emergency containment

# ▶ AST Maintenance Activities

- Tank painting, exterior coating, labeling
- Containment maintenance, surface coating, minor surface repair
- Like-kind replacement of tank gauge
- Piping outside containment area
- AST cleaning not performed as part of a closure activity
- Replacement of threaded or flanged ancillary equipment located downstream of first isolation valve within emergency containment

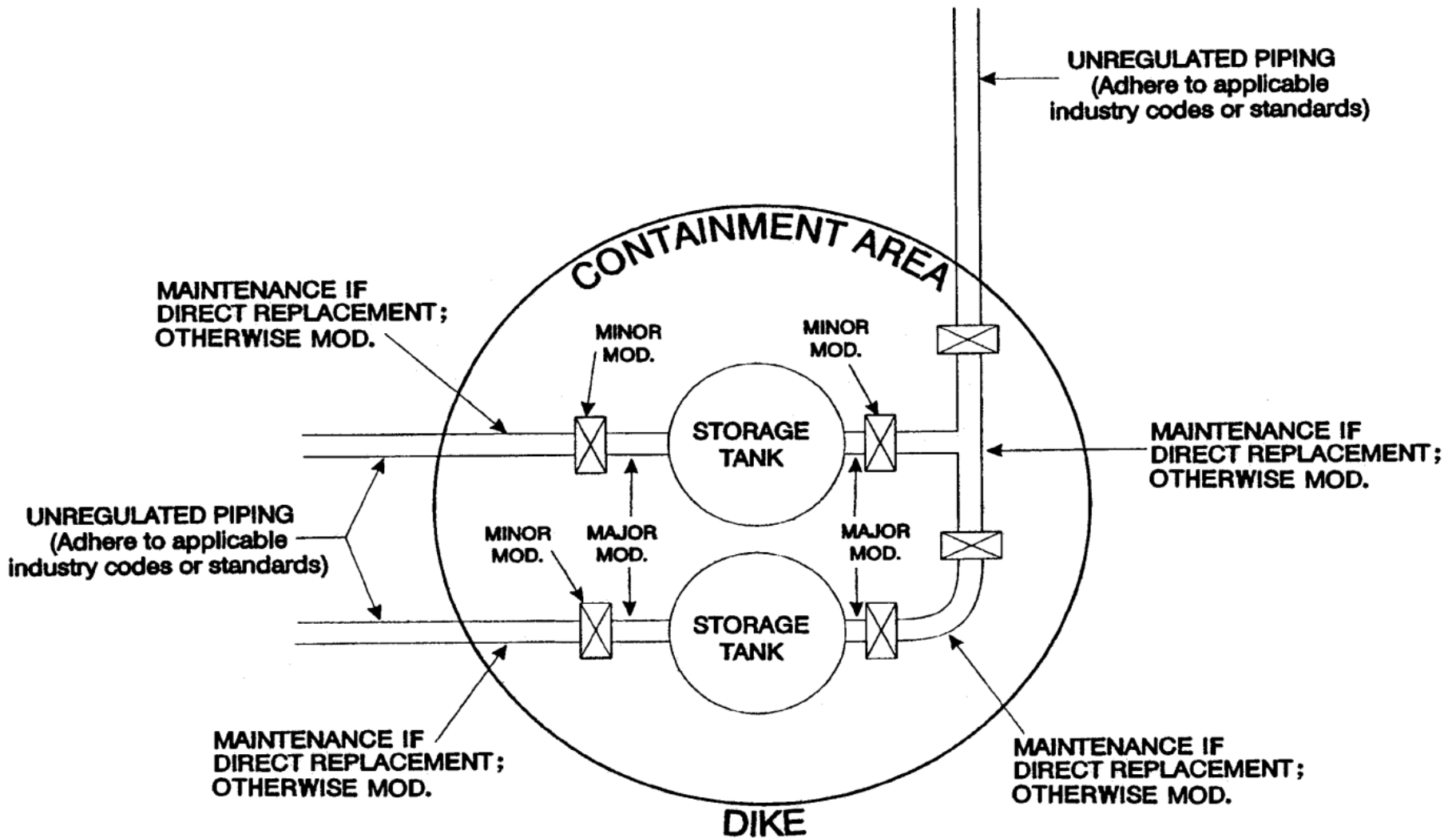


Figure from *Storage Tank Modification and Maintenance Issues*, update March 29, 2014



**ABOVEGROUND STORAGE TANK MODIFICATION REPORT**

I. FACILITY INFORMATION	OFFICIAL USE ONLY			
Facility I.D. Number _____	<b>INITIAL</b>	<b>DATE</b>		
Facility Name _____	CO Review _____	_____		
Facility Address _____ _____	Data Entry _____	_____		
Municipality _____	RO Review _____	_____		
County _____				
<b>II. TANK INFORMATION – Information Obtained from Registration Certificate?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				
Tank ID Number _____A	Owner Tank Number _____	Tank Capacity (gallons) _____		
Substance Stored _____				
Where was the tank assembled? <input type="checkbox"/> Field Constructed <input type="checkbox"/> Manufactured (Shop Built)				
Tank configuration <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Elevated Vertical Tank Construction Code _____				
<b>III. TANK MODIFICATION INFORMATION</b>				
Was this modification work performed to correct deficiencies discovered during an inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Tank modification is in accordance with manufacturer's specifications, engineer's design criteria, current industry standards and complies with the Fire Safety Requirements for flammable and combustible liquids (if applicable). If no, explain all irregularities in the comment section. <input type="checkbox"/> Yes <input type="checkbox"/> No Modification standard _____				
<b>IV. INSTALLER INFORMATION (Please Type or Print Clearly)</b>				
Installer Name	Certification Number	Certification Category Used	Company Name	Company Certification
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
<b>V. INSTALLER CERTIFICATION</b>				
This Section must be completed by the certified installer(s) for tank handling activities performed on aboveground storage tank systems. By signing below, the certified installer verifies that the tank handling activity was conducted in compliance with the design, installation, modification and operation standards of Act 32 and applicable regulations. The signature also certifies, under penalty of law as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided is true, accurate, and complete to the best of his/her knowledge and belief.				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Date(s) Work Completed	Installer's Signature(s)	Date(s) of Signature		

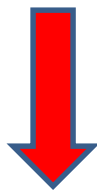
Please input the date in MM/DD/YYYY format.

Modification Reports must be submitted to PA DEP within 30 days of the completion of the Activity(s)

**VI. TANK SYSTEM COMPONENTS – (Only check the blocks for modified or newly installed component(s))**

- |   |  |
|---|--|
| <p>(1) Tank</p> <p><input type="checkbox"/> I Liner Modification/Installation</p> <p><input type="checkbox"/> K Modification of tank bottom</p> <p><input type="checkbox"/> L Modification of tank shell</p> <p><input type="checkbox"/> M Modification of tank roof</p> <p><input type="checkbox"/> Q Double bottom (explain) _____</p> <p><input type="checkbox"/> 99 Other (explain) _____</p> | <p>(10) Tank Cathodic Protection</p> <p><input type="checkbox"/> B Galvanic</p> <p><input type="checkbox"/> C Impressed current</p>  |
| <p>(3) Aboveground Piping</p> <p><input type="checkbox"/> New Piping Run - Piping Material: _____<br/>(A, B, D, E, I, J, K)</p> <p><input type="checkbox"/> H Modification of existing piping</p> <p><input type="checkbox"/> 99 Other (explain) _____</p>  | <p>(12) Tank Release Detection</p> <p><input type="checkbox"/> E Automatic tank gauge</p> <p><input type="checkbox"/> H Interstitial monitor</p> <p><input type="checkbox"/> L Grooves made in the impermeable pad</p> <p><input type="checkbox"/> M Slotted pipe above the impermeable pad</p> <p><input type="checkbox"/> 99 Other (explain) _____</p> |
| <p>(5) Pipe Release Detection (AST's in Vaults)</p> <p><input type="checkbox"/> Y Installed/modified</p>  | <p>(16) Emergency Containment</p> <p><input type="checkbox"/> Y Installed/modified</p>   |
| <p>(6) Spill Prevention (Spill Bucket/Containment Box)</p> <p><input type="checkbox"/> Y Installed/modified</p>   | <p>(17) Secondary Containment</p> <p><input type="checkbox"/> Y Installed/modified</p>   |
| <p>(7) Overfill Prevention</p> <p><input type="checkbox"/> Y Installed/modified</p>   | <p>(24) Normal Vent / Emergency Vent</p> <p><input type="checkbox"/> Y Installed/modified</p>  |

**VII. DETAILED SCOPE OF WORK AND ANY ADDITIONAL COMMENTS:**



**VIII. INSPECTOR INFORMATION**

A modification inspection is required when a major modification is performed on an aboveground tank greater than 21,000 gallons in capacity. A modification inspection is also required on small aboveground field constructed tanks when a major modification is performed to the tank shell or tank bottom. Is an inspection required for this activity?  Yes  No

If yes, was the inspector involved prior to the initiation of the project and present at critical times?  Yes  No

Inspector  
Name

Certification  
Number

Inspection  
Category

Company  
Name

Company  
Certification No.

When a **major modification** is performed, the inspector must be *involved prior to the initiation* of the project and *present at critical times*.

Section VIII. must be completed. Identify yourself and give contact information to the installer.

# AST Modification Inspections

## Modification Inspections

- Required when a major modification is performed on a large AST (>21,000-gallons), and on a small field constructed AST shell or bottom (>250 to 21,000-gallons).
- IAMs cannot perform modification inspections of aboveground field constructed storage tank systems
- **60-day submittal requirement**, but try to get in sooner, preferably within 30-days

## AST Modification Inspections

# Modification Inspections

- When substantial modifications are made to the tank floor, the next inspections date projections shall be determined based on the condition of the tank subsequent to those modifications and reported to the Department by the certified inspector on the appropriate inspection form provided by the Department (§245.554 Installation and modification inspections)
  - **Still utilize the initial out-of-service inspection date as starting point for projecting next inspection interval, unless the entire tank floor is being replaced.**

## AST Modification Inspections

### Modification Inspection Scenario 1

An AST modification inspection covers AST bottom patch plates and puddle welds on an existing AST bottom with heavy corrosion. These areas of corrosion were identified during an OS integrity inspection on **9/13/2017**. At the time of the OS inspection, the corrosion rate and remaining service life calculations resulted in a shortened OS inspection interval of 11.4 years. Before placing the tank back into service the facility owner opted to have their AST bottom repaired to extend service life and next inspection intervals. Based on the repairs and existing corrosion rates, the new service life calculations and OS integrity inspection interval were greater than 20 years. ***What would the next OS inspection date be if your modification inspection was today?***

## AST Modification Inspections

### Modification Inspection Scenario 1

The next out-of-service integrity inspection due date of **09/13/2037** would be given because that is when the ultrasonic thickness gauge and other non-destructive examination measurements were taken. Furthermore, the maximum interval between out-of-service inspection intervals is 20 years according to the Pennsylvania Storage Tank Regulations.

## AST Modification Inspections

### Modification Inspection Scenario 2

An AST modification inspection covers the installation of a new AST bottom. The original OS inspection conducted on **11/26/2017** identified that 60% of the tank floor has corroded beyond 0.1” (minimum acceptable thickness). The owner elected to have a **new bottom installed** over the existing bottom that was covered with a HDPE liner. Sand was poured between the existing bottom and new bottom and installed with leak detection ports in accordance with API 650 Appendix I. Taking into account the corrosion rates of the existing bottom and new 0.250” carbon steel, lap welded bottom, the expected service life of this tank is greater than 20 years.

***If your inspection was today, when will the next OS integrity inspection be due?***

## AST Modification Inspections

### Modification Inspection Scenario 2

The next out-of-service integrity inspection will have a due date of **11/14/2028**. A 10 year maximum OS integrity inspection interval would be given, due to the unknown corrosion rate of the new bottom. It has been the Department's position that corrosion rates from old tank bottoms cannot be utilized for new AST bottoms. This is explained in Section 245.553(e)(2)(i) in the PA Storage Tank Regulations.

## AST Modification Inspections

### Modification Inspection Scenario 3

An AST modification inspection covers the installation of an internal tank lining over the existing tank bottom and 18” up the shell. This AST had an OS integrity inspection completed on **1/23/2018** by another PADEP-certified inspection company. The API 653 internal inspection reported that corrosion rates for the tank bottom and shell were relatively low (0.00012 in/yr), and the overall condition of the tank bottom was excellent with over 50 years of remaining service life.

***What are the next required AST inspection dates for this AST, if your lining inspection was today?***

## AST Modification Inspections

### Modification Inspection Scenario 3

The next integrity inspection dates would be as follows:

- Out-of-Service Integrity Inspection: **1/23/2038**
  - (20 years from previous OS Inspection)
- In-Service Integrity Inspection: **1/23/2023**
  - (5 years from previous OS inspection)
- Lining Inspection: **11/14/2028\***

\*Maximum interval for a lining inspection is 10 years or as warranted or recommended by the manufacturer or design engineer.



## ABOVEGROUND STORAGE TANK MODIFICATION INSPECTION SUMMARY

<p><b>I. <u>Inspection Date(s)</u></b></p> <p>_____</p> <p>_____</p>	<p style="text-align: center;"><b>FOR DEP USE ONLY</b></p> <p>Reviewer _____ Date _____</p> <p>Entered By _____ Date _____</p>
<p><b>II. <u>Facility Information</u></b></p> <p>Facility ID number _____</p> <p>Facility Name _____</p> <p>Facility Address _____</p> <p>_____</p> <p>Municipality _____</p>	<p><b>III. <u>Inspector Information</u></b></p> <p>Name _____</p> <p>DEP Inspector Certification Number _____</p> <p>Inspection Category _____</p> <p>Phone ( ) _____</p> <p>Employer _____</p> <p>DEP Company Certification Number _____</p>
<p><b>IV. <u>Tank Identification</u></b></p> <p>DEP Tank ID number _____ A      Owner Tank ID Number _____</p> <p>Capacity (gallons) _____</p> <p>Tank Configuration:    <input type="checkbox"/> Horizontal    <input type="checkbox"/> Shop Built</p> <p>                                  <input type="checkbox"/> Vertical        <input type="checkbox"/> Field Built</p> <p>                                  <input type="checkbox"/> Vertical Elevated</p> <p>Construction Code _____</p> <p>Substance stored _____</p> <p>Size: diameter _____ (ft) length/height _____ (ft)</p>	<p><b>V. <u>Permit Information</u></b></p> <p>Fire/Safety Permit Number _____</p> <p>Issuing Authority _____</p> <p>Date Issued _____</p> <hr/> <p><b>VI. <u>Next Integrity Inspections (If applicable)</u></b></p> <p>In-Service _____ (mm/dd/yy)</p> <p>Out-of-Service _____ (mm/dd/yy)</p> <p style="color: red; font-weight: bold; font-size: 1.2em;">Lining</p>

Facility ID \_\_\_\_\_ DEP Tank ID \_\_\_\_\_ A Inspection Date \_\_\_\_\_

**IX. Installer Information**

Installer Name	Certification Number	Company Name	Company Certification
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**X. Description of Modifications. What modification work was inspected?**

- New bottom – describe configuration \_\_\_\_\_
- Repaired bottom \_\_\_\_\_
- Added or repaired internal lining \_\_\_\_\_
- Modification of shell \_\_\_\_\_
- Modification of roof \_\_\_\_\_
- Added or repaired nozzle(s) – where? \_\_\_\_\_
- Modification of containment structure(s) \_\_\_\_\_
- Other - explain \_\_\_\_\_

List **all** installers and their information, as well as what you inspected, in these sections. Elaborate on these descriptions, if needed, in the comments section.

**XI. Evaluation of Modifications:**

Was the welding completed in accordance with industry practices and performed by an appropriately qualified welder?

Yes     No     Not Applicable

Was the tank modification performed in accordance with manufacturer's specifications, engineer's design criteria and current industry standards? If no, explain all deficiencies in Section XII.     Yes     No

Was the nondestructive testing performed in accordance with industry codes and practices by a properly qualified individual with the test results indicating no deficiencies?     Yes     No

Were you, as the DEP certified inspector, involved prior to the initiation of the modifications and present at critical times?

Yes     No

If this modification was in response to an integrity inspection, were **all** of the inspector's recommendations addressed?

Yes     No     Not Applicable

If no, what is still unfinished? \_\_\_\_\_

***Present at critical times?*** This is not a documentation review, a “take your word for it” scenario, or an, “I know this welder does everything by the book, and has never made a mistake in their life”.

The AST inspector must be involved and **PRESENT** in order to reliably determine that the following were met:

- 1) Industry standards and project specs. were followed throughout the tank handling activity.
- 2) Appropriate testing and NDE were properly conducted
- 3) The tank is suitable for operational service.

# AST Installation Inspections

## Installation Inspections

### Required for:

1. Large (manufactured and field constructed) AST construction, reconstruction, relocation
2. Small field constructed AST construction, reconstruction, relocation

# AST Installation Inspections

## Installation Inspections

### Not required for:

1. Small ( $\leq 21,000$ -gallons) manufactured ASTs
2. Uncertified Installs
  - **Tanks 5,000-gallons** or less (AMMX/IAM/IAF can verify installation)
  - **Tanks >5,000-gallons** (IS integrity inspection needs to be completed)
    - If integrity inspection is not completed the due date for the next required integrity inspection may be based off the installation date of the tank, which could result in an overdue inspection upon registration.
  - **Tanks >21,000-gallons** (OS integrity inspection needs completed)
    - Site Specific Installation Permit requirements remain applicable

# Installation Inspections

- AST inspectors must be involved prior to the initiation of a project and present at critical times.
- AST systems shall be inspected by a DEP-certified inspector at the time of installation in accordance with § 245.522 (relating to new AST installations and reconstructions)...
- The inspection report shall be kept for the operational life of the tank

# Installation Inspections

- Comprehensive evaluation of tank system
  - Field constructed ASTs are hydrostatically tested.
  - Alternative test for tightness
  - Non-destructive examination (NDE)



## ABOVEGROUND STORAGE TANK INSTALLATION INSPECTION SUMMARY

<p><b>I. Reason for Inspection</b></p> <p><input type="checkbox"/> New tank system</p> <p><input type="checkbox"/> Relocated tank system</p> <p><input type="checkbox"/> Uncertified installation</p>	<p><b>II. Inspection Date(s)</b></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p style="text-align: center;"><b>FOR DEP USE ONLY</b></p> <p>Reviewer _____</p> <p>Date _____</p> <p>Entered By _____</p> <p>Date _____</p>
<p><b>III. Facility Information</b></p> <p>Facility I.D. Number _____</p> <p>Facility Name _____</p> <p>Facility Address _____</p> <p>_____</p> <p>Municipality _____</p>	<p><b>IV. Inspector Information</b></p> <p>Name _____</p> <p>DEP Inspector Certification Number _____</p> <p>Inspection Category _____</p> <p>Phone (____) _____</p> <p>Employer _____</p> <p>DEP Company Certification Number _____</p>	
<p><b>V. Tank Identification</b></p> <p style="text-align: center;">Owner Tank</p> <p>DEP Tank ID number ____A ID Number _____</p> <p>Capacity (gallons) _____</p> <p>Tank Configuration:   <input type="checkbox"/> Horizontal   <input type="checkbox"/> Shop Built</p> <p style="padding-left: 40px;"><input type="checkbox"/> Vertical       <input type="checkbox"/> Field Built</p> <p style="padding-left: 40px;"><input type="checkbox"/> Elevated Vertical</p> <p>Construction Code _____</p> <p>Substance stored _____</p> <p>Size: diameter _____ (ft) length/height _____ (ft)</p>	<p><b>VI. Permit Information</b></p> <p>DEP Site Specific Installation Permit Number _____</p> <p>Fire/Safety Permit Number _____</p> <p>Issuing Authority _____</p> <p>Date Issued _____</p>	<p><b>VII. Next Integrity Inspections (If applicable)</b></p> <p>In-Service _____ (mm/dd/yy)</p> <p>Out-of-Service _____ (mm/dd/yy)</p>
<p><b>VIII. Certified Inspector</b></p> <p>I, the DEP Certified Inspector, have inspected the above referenced tank system. Based on my observation of the tank system, review of examination and tests results and information provided by the owner, I certify under penalty of law as provided in 18 Pa. C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided by me is true, accurate, and complete to the best of my knowledge and belief.</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Certified Inspector's Signature <span style="float: right;">_____</span> Date</p>		
<p><b>IX. Owner or Owner's Representative</b></p> <p>I have reviewed the completed inspection report. I certify under penalty of law as provided in 18 PA C.S.A. Section 4904 (relating to unsworn falsification to authorities), the information provided by me is true, accurate, and complete to the best of my knowledge and belief.</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Name (Please Print) <span style="float: right;">_____</span> Title <span style="float: right;">_____</span> Phone Number</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Signature <span style="float: right;">_____</span> Date</p>		

Facility ID \_\_\_\_\_ - \_\_\_\_\_ DEP Tank ID \_\_\_\_\_ A Inspection Date \_\_\_\_\_

<b>X. Installer Information</b>			
Installer Name	Certification Number	Company Name	Company Certification
<b>XI. Evaluation of Tank System</b> Enter the condition of the following components by marking the appropriate blocks.			
	Satisfactory	Unsatisfactory	Not Applicable
Materials meet specifications	<input type="checkbox"/>	<input type="checkbox"/>	
Foundation and tank supports	<input type="checkbox"/>	<input type="checkbox"/>	
Welding (procedure, qualification)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank construction (floor, shell, and roof)	<input type="checkbox"/>	<input type="checkbox"/>	
Appurtenances	<input type="checkbox"/>	<input type="checkbox"/>	
Ancillary equipment (including piping)	<input type="checkbox"/>	<input type="checkbox"/>	
Normal venting	<input type="checkbox"/>	<input type="checkbox"/>	
Emergency venting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary containment (under the tank bottom)	<input type="checkbox"/>	<input type="checkbox"/>	
Please describe:			
Emergency containment design & permeability	<input type="checkbox"/>	<input type="checkbox"/>	
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal lining/coating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External coating & labeling	<input type="checkbox"/>	<input type="checkbox"/>	
Overfill prevention (gauge, HLA, & automatic shut off or manned operating procedure)	<input type="checkbox"/>	<input type="checkbox"/>	
Hydrostatic test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative test for tightness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nondestructive testing (procedure, qualifications)	<input type="checkbox"/>	<input type="checkbox"/>	
Fire Safety Standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operations & Maintenance plan	<input type="checkbox"/>	<input type="checkbox"/>	
Spill Prevention & Response Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Yes <input type="checkbox"/> No	Tank installation is in accordance with manufacturer's specifications, engineers design criteria and current industry standards. If no, explain all deficiencies in Section XII.		
<b>XII. Comments</b> Describe any tank system deficiencies and note additional information discovered during the inspection. If additional comment sheets are needed, label each sheet with facility and tank identification numbers, inspection date and page number.			

# ASTs Inspection Summary

Capacity (gallons)	Installation Inspection	IS Insp.	OS Insp.	Modification Inspection	Internal Lining Insp.
251 - 5,000	Field Constructed			Field Constructed	10 years
5k - 21k	Field Constructed	10 years		Field Constructed	10 years
1,101 - 21k (Hi-Haz)	Field Constructed	10 years		Field Constructed	10 years
>21,000 (elevated)	All	5 years		All	10 years
>21,000	All	5 years	10 years	All	10 years

\* These are initial intervals- Subsequent inspection schedules are based on the condition of the tank at the time of the inspection, as well as corrosion, deterioration, and site-specific conditions that may necessitate more frequent inspections

**Let's take a 10-minute break**

# Common AST Inspection Violations

## Top 3 Aboveground Storage Tank Integrity Inspections Violations in PA

- #1 Performance/Design standards Violations (paint, label, vents, etc.)**
- #2 Monthly Maintenance Check Violations**
- #3 AST Containment Violations**

**What is the common theme?**

# Common AST Inspection Violations

## Monthly Operation and Maintenance Checks




# ▶ AST Monthly Operations and Maintenance Checks

## Monthly Operations and Maintenance Checks

1. A visual examination of the tank system for deterioration.
2. A check of the containment area for accumulation of water and removal of water as necessary.
3. Confirmation that containment drain valves are secured in the closed position when not in use.
4. Monitoring of the leak detection system.
5. A check of vents for restrictions.
6. A check of ancillary equipment for operational malfunctions.
7. An investigation of conditions that may be a fire or safety hazard, or pose an environmental hazard.
8. Observation for evidence of a release of regulated substance from the tank system.

# AST Monthly Operations and Maintenance Checks

2630-FM-BECB0170 2/2012


**pennsylvania**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

### SAMPLE MONTHLY MAINTENANCE OPERATION CHECKLIST FOR OWNERS OF SMALL ABOVEGROUND STORAGE TANKS

ITEM	SYMBOL	REFERENCE
<b>I. Visual Check for Deterioration</b>		
Condition of tank exterior	S U	_____
Condition of aboveground piping	S U	_____
Condition of foundations and supports	S U	_____
Condition of containment structures	S U	_____
<b>II. Containment Areas</b>		
Level of standing water in containment	S U	_____
Drain Valves secured in a closed position	Y N	_____
Debris or fire hazard in containment	Y N	_____
<b>III. Leak Detection System</b>		
Leak detection system monitored	Y N	_____
Regulated Substance in containment area	Y N	_____
Evidence of release from tank	Y N	_____
Evidence of release from ancillary equipment including piping	Y N	_____
<b>IV. Ancillary Equipment</b>		
Overflow prevention device functioning properly (if installed)	Y N	_____
Valves functioning properly	Y N	_____
Vents clear of restrictions	Y N	_____
Gauge or monitoring device functioning properly (if installed)	Y N	_____
<b>V. Safety Precautions</b>		
Safety equipment in place and operative	Y N	_____
Fire extinguishers in place	Y N	_____
Safety precautions posted	Y N	_____
Tank system secured to prevent vandalism and unauthorized use	Y N	_____

Facility I.D.# \_\_\_\_\_ Inspection Completed By: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Symbols**

S - Satisfactory    U - Unsatisfactory    Y - Yes    N - No

# AST Monthly Operations and Maintenance Checks

## Record Keeping Requirements:

Monthly leak detection records and maintenance checklists shall be maintained for the previous 12 months



# AST Monthly Operations and Maintenance Checks

## Other Items to Consider

- **Aboveground storage tank grounding/bonding /lightning protection**
- **Fuel monitoring (check for presence of water/microbes)**
- **Cathodic Protection Rectifiers**
- **Thermal and pressure relief systems**
- **Insulated ASTs – check for areas of moisture, external corrosion**
- **Follow-up on Unsatisfactory and/or Required items**

# Common AST Inspection Violations

## Emergency Venting

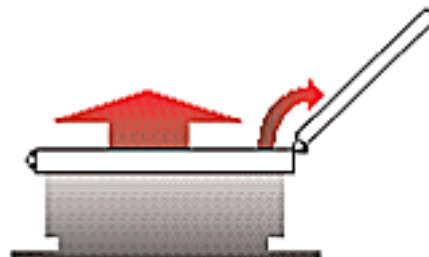
### Common Problems

1. Inadequate design – too small, wetted area calculations
2. Not functioning – shear pin replaced, won't lift
3. Long bolt manholes – needs to have the ability to lift
4. Frangible roof – won't work for smaller diameter ASTs
5. Double walled tanks – primary and secondary both need e-vents



**Pop-Up Style**

Weight of lid determines pressure setting ( 8 oz., 12 oz., 16 oz.) . Metal-to-metal seat or O-ring seat.



**Flip-Up Style**

Latch releases at set pressure, spring loaded hinge lifts lid open.



**Long Bolt Manhole**

Lid is able to lift under excess pressure. Vapors exit out opening.



**Weak Roof-to-Shell Tank**

Special joint designed to let go under excessive pressure.

# Common AST Inspection Violations

**Emergency Venting – Is it needed, and is it present?**



# Common AST Inspection Violations

**Emergency Venting – Is it needed, and is it present?**



# Common AST Inspection Violations

**Emergency Venting – Is it needed, and is it present?**



# Common AST Inspection Violations

## **Emergency Venting – Is it needed, and is it present?**

Class IIIB liquids: Flash point equal to or greater than 200° F.

– motor oil, lubricating oil

Tank capacities greater than 12,000-gallons and not stored in containment areas with Class I and II liquids do not require emergency vents. (NFPA 30 22.7.1.1.3)

# Common AST Inspection Violations

## **AST system exterior coating**

§ 245.533 and §245.612(g)- The exterior surfaces of aboveground tanks and piping shall be protected by a suitable coating which prevents corrosion and deterioration. The coating system shall be maintained throughout the operational life of the tank.



# Common AST Inspection Violations

**Labels** - § 245.515(a) and §245.612(i) – ASTs shall be labeled in accordance with industry standards and labels shall be easily legible from outside the containment area and shall be capable of readily identifying the regulated substance stored.



# Secondary Containment

Secondary containment shall be provided on a new tank at installation, on an existing tank at reconstruction or relocation, or when the tank floor is replaced. Needs space for detection of a release

- Permeability must be less than  $1.0 \times 10^{-7}$  cm/sec at anticipated hydrostatic head and shall be verified at installation.
  - Steel bottom ASTs on a concrete pad
  - Double steel bottom AST construction with leak detection ports (monitored monthly)
  - Horizontal saddle AST over earthen dike

# Secondary Containment

- must be designed to direct any release to a monitoring point to meet leak detection requirements.
- existing ASTs without secondary containment and no cathodic protection or internal lining must be leak tested at each in-service integrity inspection until the tank is upgraded. ([SEE SLIDE #102](#))

# Secondary Containment

Can this single bottom AST, in direct contact with the ground, meet secondary containment requirements?



# Emergency Containment

Verify permeability, capacity, and compatibility...



# Emergency Containment

## Large AST Containments

Emergency containment must be able to contain 110% of the capacity of the largest AST in the containment area.

**AND**

Permeability of new and replacement emergency containment must be  $1.0 \times 10^{-6}$  cm/sec.

Existing emergency containment structures must meet the requirements for new/replacement structures.

**OR**

Verification by a PE that the containment structure permeability, coupled with a monitoring program and response plan, is capable of detecting and recovering a release.

# Common AST Inspection Violations

## Emergency Containment

**245.612(d)** – Emergency containment must be sufficiently impermeable to contain any potential release for a minimum of 72 hours and until the release can be detected and fully recovered in an expeditious manner.



# Common AST Inspection Violations

## Emergency Containment

**Will it even hold rain for any period of time?**



# Common AST Inspection Violations

## Emergency Containment

**Will a cement block wall hold the contents of a catastrophic release?**



# Common AST Inspection Violations

## Emergency Containment - Excessive Vegetation

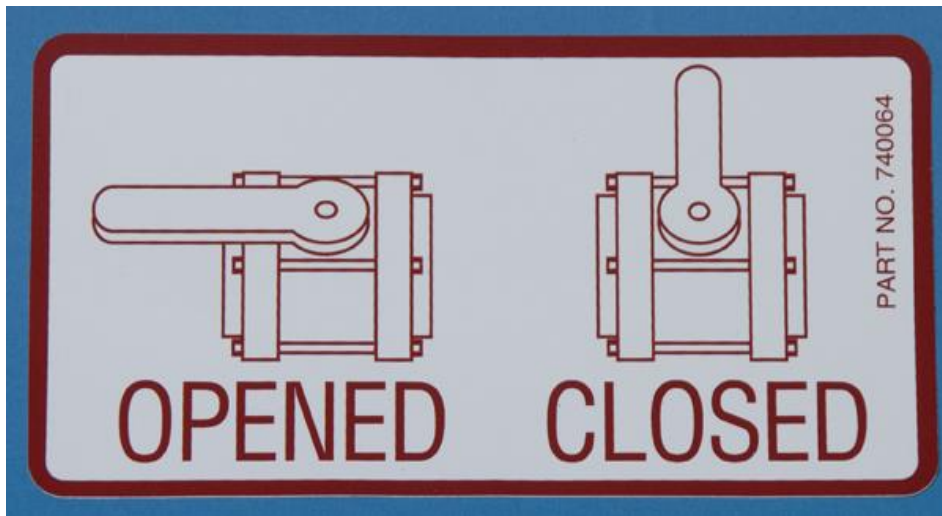
May 2013

July 2013



# Common AST Inspection Violations

## Emergency Containment - Valves



# Common AST Inspection Violations

## Emergency Containment – Valves



# Common Inspection Violations

## Emergency Containment –

Structures to prevent accumulation of storm water.

What is wrong here?



# Common AST Inspection Violations

**Emergency Containment – Spill and Overfill protection?  
UL 142 Closed top dike tank with removable rain shields**



# Common AST Inspection Violations

**How about inspecting a UL142 closed-top dike AST with welded rain shields?**



## **IMPORTANT NOTICE**

### **UL-142 Closed-top Dike Aboveground Storage Tanks Inspections**

The Department of Environmental Protection (Department) has recently been in discussions with the Steel Tank Institute (STI) regarding the inspection requirements for Underwriters Laboratories, Inc. (UL)-142 listed closed-top dike aboveground storage tanks (ASTs). STI is a Nationally-recognized association that trains and certifies individuals to inspect ASTs to the STI's Standard for the Inspection of Aboveground Storage Tanks (SP001). The Department acknowledges this AST inspector certification as one of the acceptable pre-requisites in order to become a Department-certified aboveground manufactured storage tank inspector.

STI's SP001 Inspection Standard does not specifically describe AST inspection methodology for tanks constructed to the UL-142 closed top dike standard. Rain shields, which are welded from the upper portion of the shell of the AST to the steel containment box, limit access to the lower portions (approximately two-thirds) of the tank shell, making ultrasonic thickness measurements and visual inspections of the enclosed portion of the tank shell difficult.

The Department has taken the position that inspectors may use the following criteria to evaluate UL-142 closed-top dike tank system (must be labeled and come from manufacturer with welded rain shields in place) integrity and suitability for service during AST in-service integrity inspections:

1. Visual inspection shall be conducted through an access port to yield enough information about the condition inside the closed top dike area and to determine if liquid is present.
2. If water has entered the space or conditions indicate corrosion could be causing a problem, further evaluation may be needed. AST modifications may be needed in order to provide access for additional assessment.
3. Ultrasonic thickness measurements shall be taken on the tank shell wherever accessible, such as above the rain shields.
4. Ensure tank systems are operated with spill and overflow protection controls. (spill bucket, overflow protection, block valves on product lines, anti-siphon/solenoid valves)
5. Ensure an emergency vent is present and functions for the closed-top containment structure.

If you have questions or desire clarification of the above, please contact the Division of Storage Tanks at (717) 772-5599.

# Common AST Inspection Violations

## Double-walled ASTs

What items are needed to meet emergency and secondary containment requirements?

1. **Spill bucket/containment** at the fill point
2. **Overfill protection** – alarm, device, gauge/shut down procedure.
3. **Block valves** on product lines (located as close as possible to the shell of the AST)
4. **Solenoid valve/anti-siphon device** – located immediately downstream of the block valve and required on piping that is below the maximum liquid level.

## ▶ ASTs in Underground Vaults

**Piping distribution systems used to dispense Class I or II motor fuels for resale must be provided with release detection equivalent to underground piping release detection addressed in Section 245.445 and equipped with a continuous leak detection system capable of detecting vapors and liquids. The detection system must activate an alarm that automatically shuts down the dispensing system if a release occurs.**



# ▶ ASTs in Underground Vaults

*If you cannot physically enter the underground vault, it must meet Underground Storage Tank requirements.*

**ASTs cannot function as USTs**

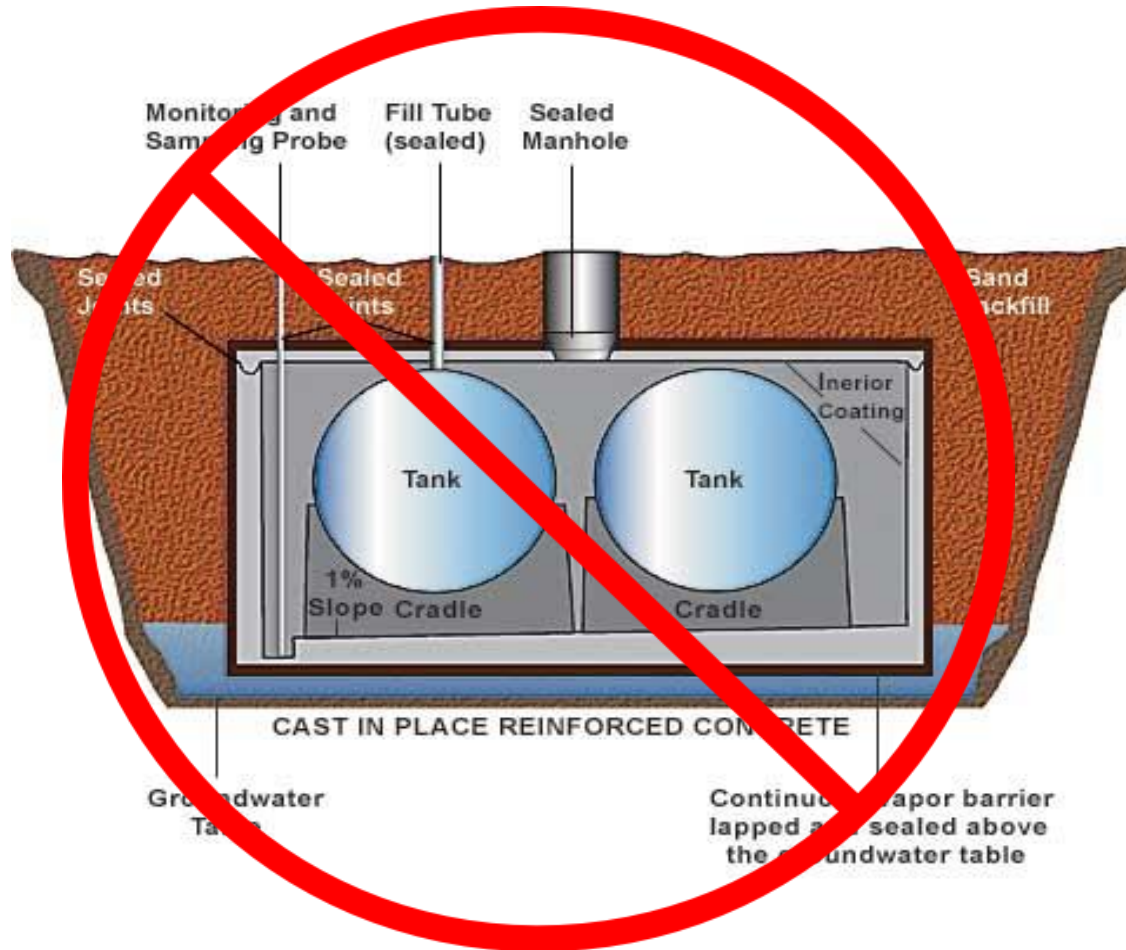
**USTs cannot function as ASTs**

**(NFPA 30, PA L & I)**



# ▶ ASTs in Underground Vaults

A tank must be in its own vault. Adjacent vaults may share a common wall.



# ▶ Insulated ASTs

How are we going to inspect these single-walled ASTs?



# ▶ Insulated ASTs

**Check for Corrosion Under Insulation (CUI) at base of shell.**



# Insulated ASTs

Inspection ports need to be made for UT measurement of each shell course.



# Questions from the field....

**Don't even ask. This is a very ugly situation.**



## Questions from the field....

**Does a 500-gallon gasoline tank need registered with DEP?**



## ► Questions from the field....

**Would this tank need registered with DEP?**



## ▶ Questions from the field....

**Do these two 150-gallon sodium hypochlorite ASTs need registered with DEP?**



## Questions from the field....

**Should we put this tank way out back behind the building because acetone is so flammable?**



# ► Questions from the field...



**What to do when your spill bucket is full?**

**10.31.2013 14:49**

## ► Questions from the field....

**Can we use this tank to store aviation gas?**



## Questions from the field...

**What chime?**



## ► Questions from the field...

**Why do monthly maintenance checks when you have rain shields?**



## Questions from the field...

**“My dad installed this tank 30 years ago... We’ve never had a problem with it. Why can’t we continue using it?”**



# ► Questions from the field...

**...there are more than a dozen reasons why!**



## Questions from the field...

**“We need to move our tank from the back of the garage to down behind the warehouse with the other one...”**

**What do we need to do?”**



## Questions from the field...

**“We have a currently operating AST at our finishing plant across the street, that we’d like to use in our production plant. What do we need to do?”**



## ▶ Questions from the field...

**Should ASTs be protected against flotation?**



## ► Questions from the field...

**Any suggestions for this non-regulated AST?**



## Questions from the field...

- “How do I get heating oil over to this tank?”**
- Do not pressurize a tank to transfer product!**



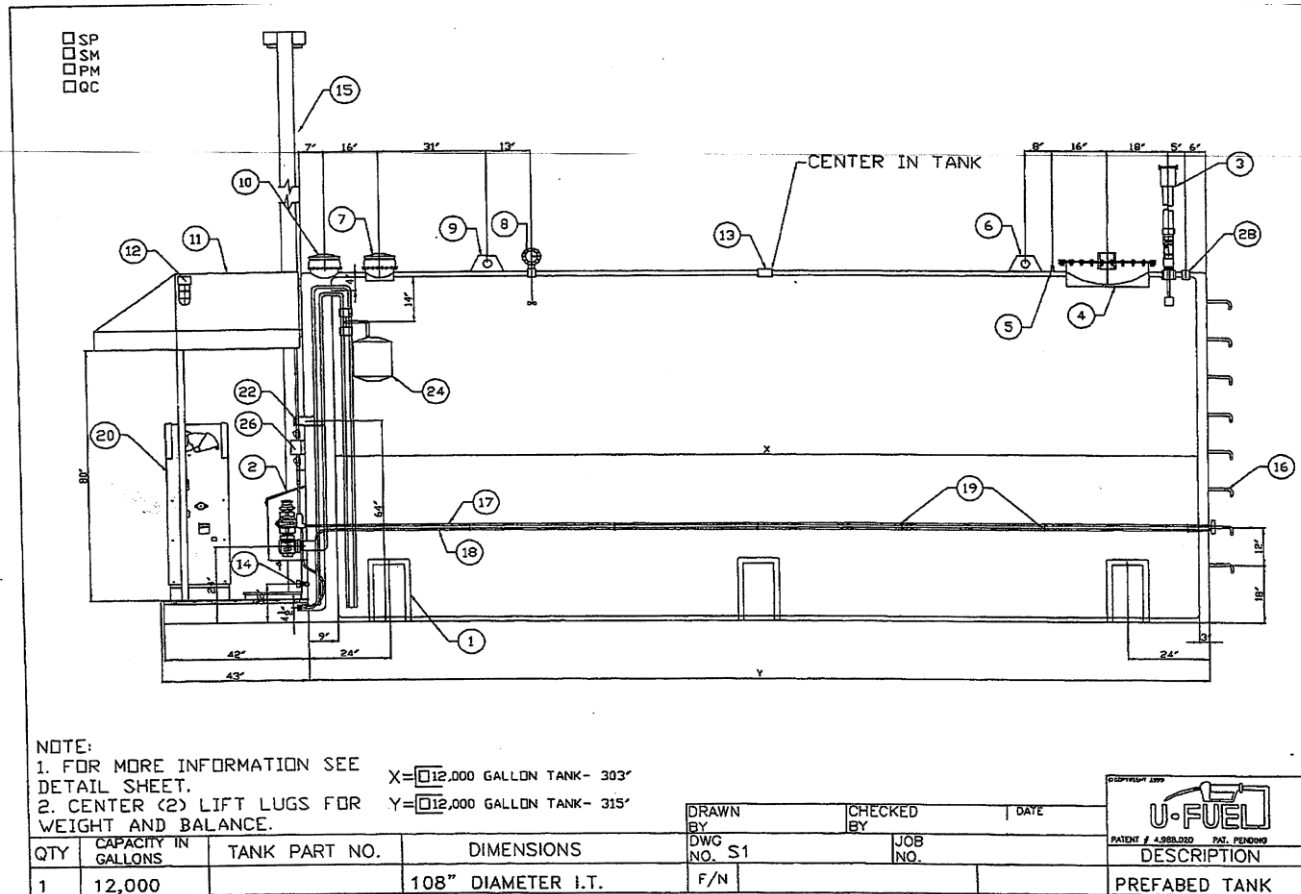
# Questions from the field...

## UL-142 Double-walled AST manufactured by U-FUEL



# Questions from the field...

## UL-142 Double-walled AST manufactured by U-FUEL



## Questions from the field...

**Is this “double walled” AST, truly a double walled AST?**



## Questions from the field...

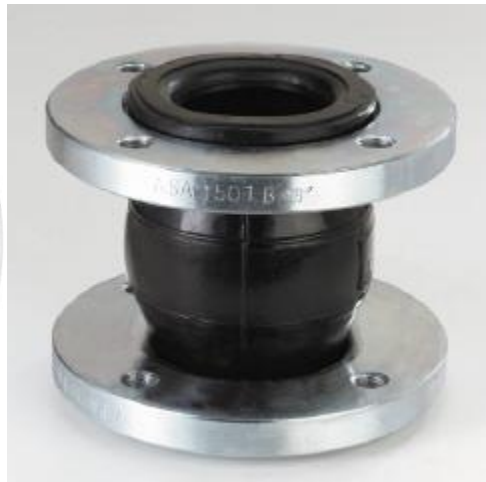
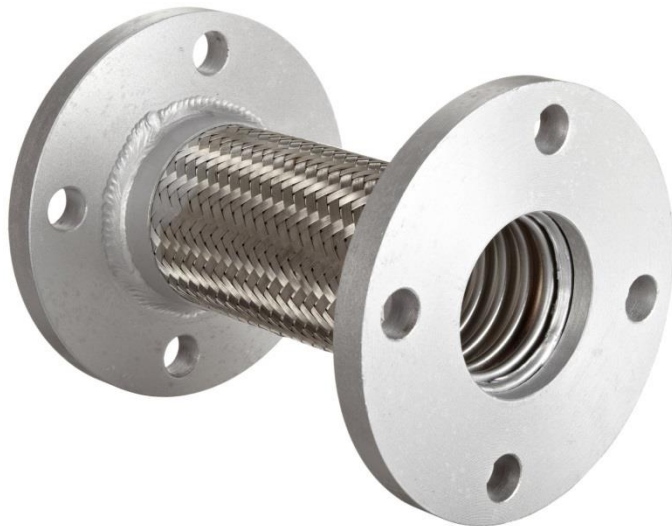
Is this “double walled” AST, truly a double walled AST?



## Other Reminders...

### Flexible Connectors:

- Always check with tank manufacturer's installation instructions.
- Always ensure it is rated and compatible for the product stored.
- Consider the situations where these connections are needed.



# Other Reminders...

## Safety



## ➤ Other Reminders...

### Holes in AST roofs:

- **Temporary repairs are not permanent repairs, and are not recognized by API 653 – Tank Inspection, Repair, Alteration, and Reconstruction Standard.**
  - May be allowable for a limited duration, but *must* be agreed upon by DEP and completed by AFMX and IAF.
  - Non-metallic composite materials used to repair a roof of a steel tank *will not* bring a tank back into compliance.

# What Paperwork Goes Where?

	Regional	Central
Integrity/Installation Inspection	X	X
Lining Inspection	X	X
Mod Report/Mod Inspection	X	X
30 day Closure Notice	X	
Closure Report	X	
Contamination / Release Reporting	X	
Amended Registration	X	X
Registration		X
TOS Extension Request Letters		X

# Report Submittal Emails

- Central Office: [tanks@pa.gov](mailto:tanks@pa.gov)
- Region 1 (SE): [ra-serotanks@pa.gov](mailto:ra-serotanks@pa.gov)  
Modification Reports must be mailed.
- Region 2 (NE): [ra-nero-tanks@pa.gov](mailto:ra-nero-tanks@pa.gov)
- Region 3 (SC): [ra-ep-scro-tanks@pa.gov](mailto:ra-ep-scro-tanks@pa.gov)
- Region 4 (NC): [ra-nc-tanks@pa.gov](mailto:ra-nc-tanks@pa.gov)
- Region 5 (SW): [ra-pghtanks@pa.gov](mailto:ra-pghtanks@pa.gov)
- Region 6 (NW): [ra-nwro-tanks@pa.gov](mailto:ra-nwro-tanks@pa.gov)

**\*Individual emails must be < 10 MB total\***



Bureau of Environmental Cleanup & Brownfields

# DEP Regional Emergency Response Phone Numbers

North West Region – 1-800-373-3398

South West Region – 412-442-4000

North Central Region – 570-327-3636

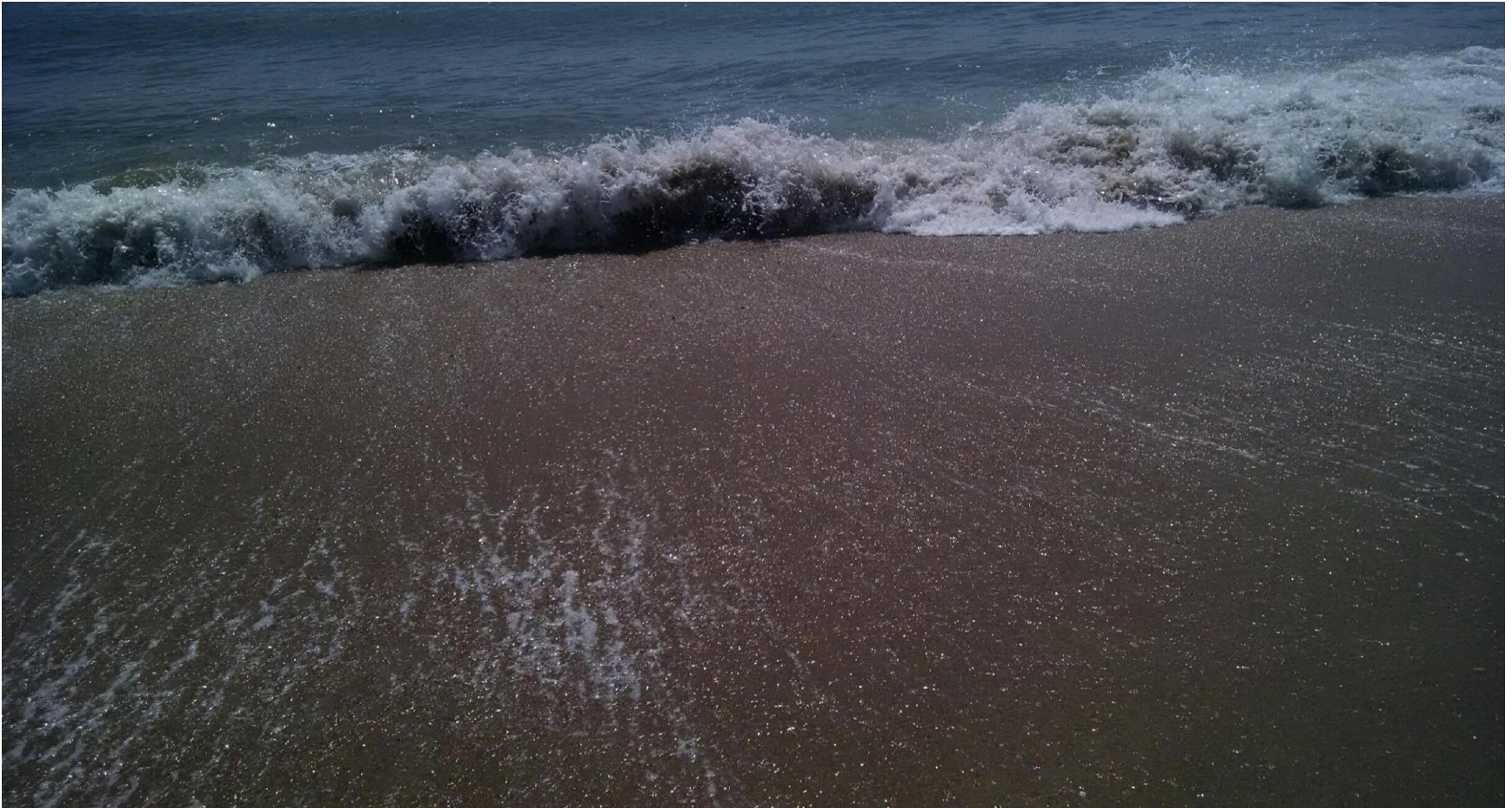
South Central Region – 866-825-0208

North East Region – 570-826-2511

South East Region – 484-250-5900

➤ Additional Questions?

**Thank you for your time.**





Bureau of Environmental Cleanup & Brownfields

# Questions?

**Randy Martin – 717-772-5828 – ramartin@pa.gov**

**Alex Eckman – 717-772-5827 – eeckman@pa.gov**

**Alex Hess – 717-783-9767 – alhess@pa.gov**

**Magen Majeski – 717-772-5810 – mmajeski@pa.gov**

**Eric Lingle – 717-783-2403 – elingle@pa.gov**

**Anne Toth – 717-772-5808 – anntoth@pa.gov**

**Wendy Davis – 717-772-5829 – wendavis@pa.gov**