



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Environmental Cleanup & Brownfields

Welcome to the 2016 Underground Storage Tank Inspector Seminar



Introductions

Central Office Staff

- **Randy Martin** - Solid Waste Program Specialist - Supervisor of the UST Unit
- **Joshua Blanco** - Solid Waste Specialist - UST Unit
- **Patrick Sosik** - Environmental Trainee - UST Unit
- **Anne Toth** - Solid Waste Program Specialist - Permitting & Certification 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 – UST Technical Staff

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

Central Office – UST Technical Staff

- **Joshua Blanco** - Solid Waste Specialist -
Responsible for Regions 2, 3, 6 (NE, SC, NW)
- **Patrick Sosik** - Environmental Trainee -
Responsible for Regions 1, 4, 5 (SE, NC, SW)

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
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

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

Anne Toth
 Anne Toth, Chief
 Certification Unit

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
 - 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.
 - At this point it is too late to schedule this examination.
 - 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

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. _____



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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certification Application

	Initial	Renewal		Delete
		Retest	Training	
INSTALLER CATEGORIES				
Underground				
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"/>
Aboveground				
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"/>
Underground/Aboveground				
TL _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
INSPECTOR CATEGORIES				
Underground				
IUM _____	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Aboveground				
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 _____ _____

_____ <input type="checkbox"/> _____
_____ <input type="checkbox"/> _____

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

- **Primary consideration: 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
Brown, John L.	0101	A	07/22/05	
Smith, Edward P.	0202	T		03/21/09
Jones, Roger B.	NA	P	02/19/08	

➤ 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	CHRISTOPHER CONST CO INC	County	
Address	25 WELLS RD HAMMONTON, NJ 08037-8608 (609)561-1607	Region	Out Of State

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

Done

Local intranet | Protected Mode: On 125%

Standards of Performance

Standards of Performance

- **things that are required of you 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

§ 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

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

UTT must provide written test results to the owner within 20 days of performing the test

The UTT performing the test must record individual and company certification numbers on the test results report given to the owner

- If a tightness test fails CALL the DEP regional office serving the County where the facility is located.***
- Mail the Notice of Contamination or Suspected Release to the regional office within 48 hours of performing the test AND attach a copy of the tightness test report.***

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 C status , Currently In Use Tank(s) *		<input type="checkbox"/> Change to E status , Tank(s) registered in error only			
* 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 T status , 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

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

Report Viewer - Windows Internet Explorer provided by DEP

http://www.depreportingsvcs.state.pa.us/ReportServer/Pages/ReportViewer.aspx?%2ftanks%2ftanks

File Edit View Favorites Tools Help


Report Viewer

Facility ID (99-99999) Zip Code: 17003 View Report

County and Permit Status: Approved, Denied, Revoked, Si

Municipality: (Null)

1 of 8 100% Find | Next Select a format Export

 **Storage Tanks Search Results**

1/3/2011 3:03:43 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
Address: FISHER AVE BLDG 9-120 Address2:
Address2: City: ANNVILLE City: ANNVILLE
State: PA State: PA
Zip: 17003 Zip: 17003-5099
County: Lebanon Municipality Name: Union Twp

SEQ NUMBER	TANK CODE	DATE INSTALLED	CAPACITY	SUB CODE	TANK STATUS	PERMIT TYPE	PERMIT STATUS	DATE LAST INSPECTION	INSPECTION CODE
934708 - 001	UST	10/19/2008	12,000	GAS	C	PBR	APPR	11/20/2007	FOI
934709 - 002	UST	10/19/2008	8,000	GAS	C	PBR	APPR	11/20/2007	FOI

Site ID: 579185 Client: 87584
Other ID: 38-17324 Client Name: ANNVILLE CLEONA SCH DIST

ReportViewer.aspx?%2ftanks%2ftanks Local intranet 100%

start Oracle Applic... Report Viewe... Microsoft Pa... My Documents Blank letter fo... 3:04

Query parameters:

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



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



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.
- 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.steeeltank.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, 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*.

I. FACILITY INFORMATION – 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>II (a). STORAGE TANK & PIPING INFORMATION – 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		Alternative Fuel Blend (>10%) Stored	
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 #: _____		Biodiesel Blend (>5% biodiesel) Stored	
		<input type="checkbox"/> B10 <input type="checkbox"/> B20 <input type="checkbox"/> Other _____	
Component	Model / Brand	Equipment Manufacturer	NRTL Listed or Manufacturer Verified for the Stored Fuel
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.

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

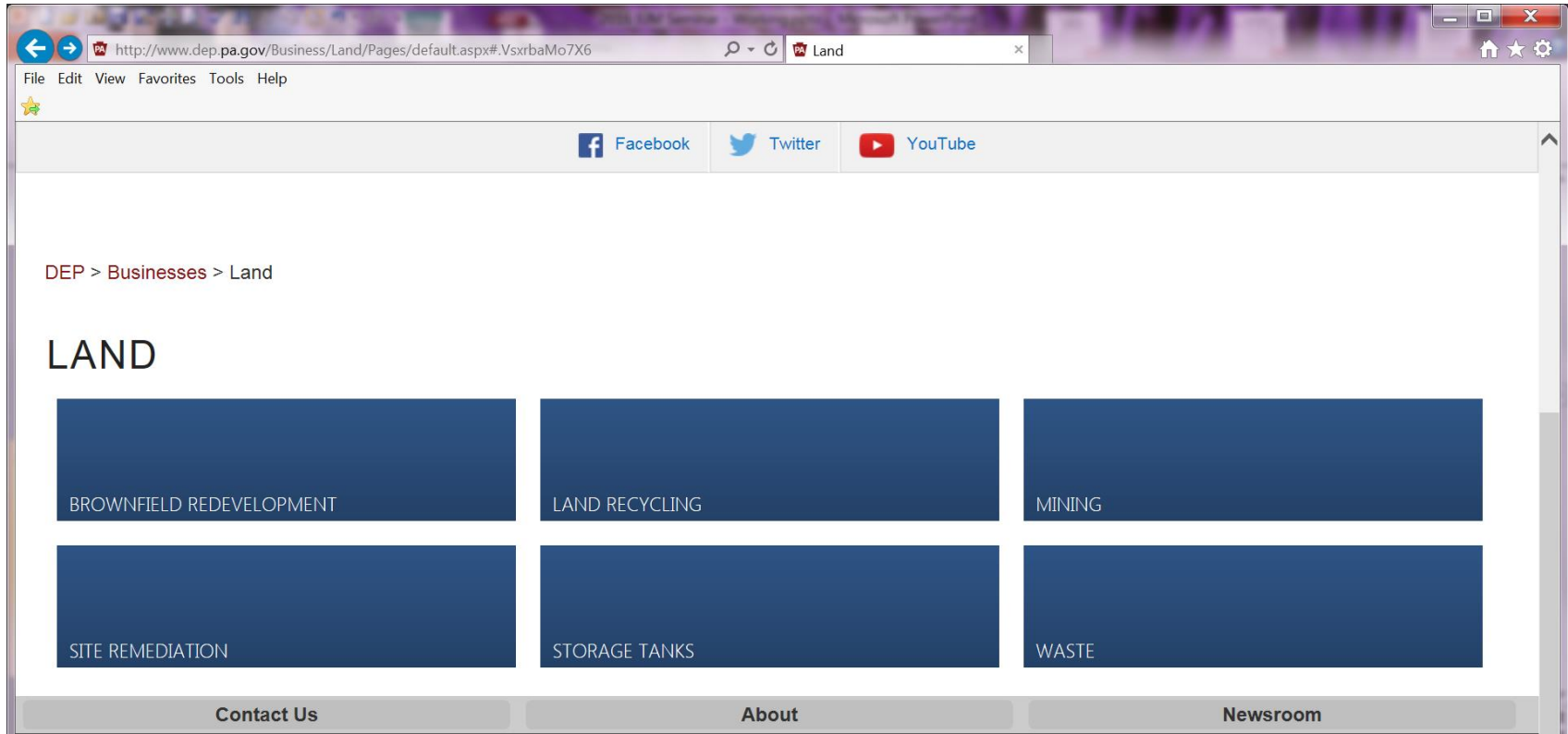
www.dep.pa.gov



Storage Tanks Website

The screenshot shows a web browser window displaying the Pennsylvania Department of Environmental Protection (PA.GOV) website. The browser's address bar shows the URL: <http://www.dep.pa.gov/Pages/default.aspx#.Vsxm8qMo7X5>. The website header includes the PA.GOV logo and navigation tabs for CITIZENS, BUSINESSES, PUBLIC PARTICIPATION, and DATA AND TOOLS. A large banner image of a snowy landscape features the Pennsylvania Department of Environmental Protection logo and the text: "pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION" and "TOM WOLF, GOVERNOR | JOHN QUIGLEY, SECRETARY". A Facebook icon is visible below the banner. A central navigation menu is open, listing: AIR, LAND, WATER, ENERGY, RADIATION PROTECTION, PROGRAM INTEGRATION, CONSTRUCTION CONTRACTS, and OTHER PROGRAMS. To the right of this menu is a search bar and a vertical list of links: SITE MAP, REGIONAL RESOURCES, and REPORT AN INCIDENT. At the bottom of the page, there are links for "Contact Us", "Privacy Policy", "Newsroom", and "Tech Help".

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

Let's take a 10 minute break!

10

Break Time is Over!

Minutes Remaining Please

Return to Your Seats

Where do Pennsylvania facilities stand with the US EPA?

- As of March 31, 2016, there were 22,652 regulated underground storage tanks located at 7,859 facilities.
- Between October 1, 2015 and March 31, 2016 , 1,382 third-party and 352 Pennsylvania DEP staff inspections were performed for a total of 1,734 initial, onsite inspections.
- Between October 1, 2015 and March 31, 2016, Pennsylvania DEP staff performed 658 follow-up inspections performed as the result of violations discovered during third-party inspections.



Where do Pennsylvania facilities stand with the US EPA?

- As of March 31, 2016, the Pennsylvania DEP's Overall Significant Operational Compliance (SOC) rate for underground storage tanks was 76.2%, easily exceeding the national goal of 68.0%.
- Between October 1, 2015 and March 31, 2016 – 76 enforcement actions, including 9 Delivery Prohibitions, were taken by the Pennsylvania DEP and a total of \$125,959 was collected in penalties.





UST Technical Information

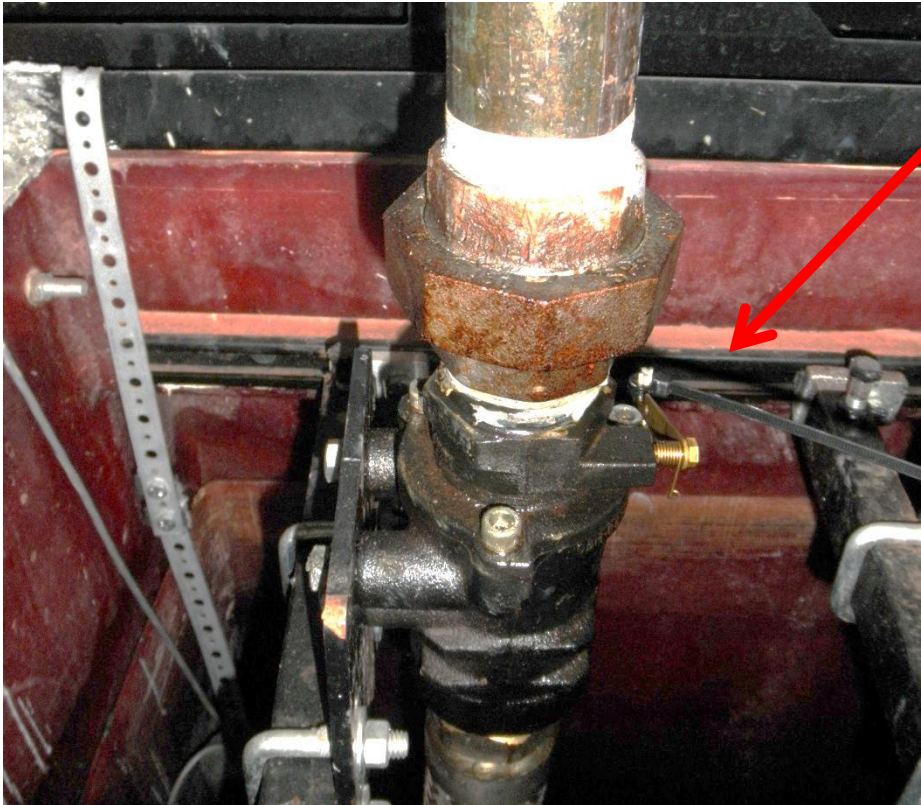
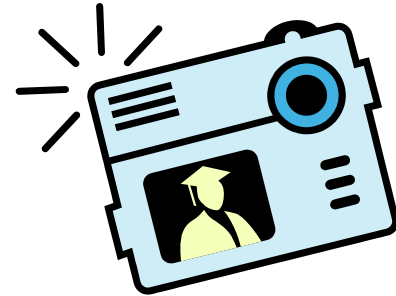
Presented by:

UST Technical Staff

Tools

- **Digital Camera**

- Take pictures of everything



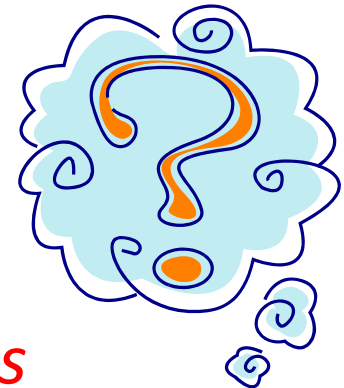
- Many unseen problems are found when reviewing pictures back in the office
- **Pictures can clarify what you witnessed if UST Technical Staff have follow-up questions.**

What do You See?



Modification or Maintenance?

- Not sure if the work to be performed is considered a Modification or Maintenance activity?
- DEP has an updated guidance document to assist in determining Modification versus Maintenance activities
- <http://www.dep.pa.gov/>
- Use the search bar and search for:
Modification and Maintenance issues
- If still unsure, call DEP Technical Staff to clarify



▶ Minor/Major Mods and Maintenance

- Major Modifications

- Activity to upgrade, repair, refurbish or restore an existing tank which:

- Alters design
 - May affect integrity
 - Excavation required



- E.g.: Installation of CP system, piping replacement, sump replacement, breaking concrete

▶ Minor/Major Mods and Maintenance

- Minor Modifications

- Activity to upgrade, repair, refurbish or restore an existing tank which:

- Does not alter design
 - May affect integrity
 - No excavation required



- E.g.: Installation of a different kind of LLD, overfill prevention replacement, shear valves replacement, entry boots replacement, pulling new piping through chase

Minor/Major Mods and Maintenance

- Maintenance

- Normal operational upkeep

- Does not alter design
- Does not affect integrity
- No excavation required



- E.g.: Replacing filters, CP testing, empty spill buckets/sumps, replacing dispenser parts above shear valve, replacing LLD with like devices when accessible from aboveground

Modification & Maintenance Changes

- **Major Modifications**

- Complete dispenser replacement with excavation, also requires under dispenser containment

- **Minor Modifications**

- Replacement of dispenser without excavation (bolt off, bolt on)
- Cathodic protection repairs that only involve rectifier replacement or reconnecting wires with no excavation
- Repairs to primary or secondary containment, including installation/repair of sump entry fittings (no excavation)

- **Maintenance**

- Adjustments to ICCP rectifiers (adjustments need to be evaluated/determined by a Corrosion Expert prior to the adjustment)

► Modifications: Corrosion Protection

- **25 Pa. Code § 245.421(1) Tanks & 245.421(2) Piping** indicate that ‘Field-installed cathodic protection systems are designed by a corrosion expert.’
 - Corrosion Expert is defined in **245.1 Definitions**

<p>CORROSION EXPERT -</p> <p>The Department’s definition requires NACE certification unless the person is a registered professional engineer (P.E.) with certification or licensing that includes education and experience in corrosion control of buried or submerged metal piping systems and metal tanks.</p>	<p>NACE CERTIFICATION</p>
	<p>Corrosion Specialist</p>
<p>CATHODIC PROTECTION TESTER -</p> <p>The Department’s definition of cathodic protection tester does not require any specific certification; however, it does require education and experience in various corrosion areas. Persons holding these NACE certification levels are viewed by the Department as fully meeting regulatory requirements.</p>	<p>Cathodic Protection Specialist</p>
	<p>Cathodic Protection Technologist</p>
	<p>Cathodic Protection Technician</p>
	<p>Cathodic Protection Tester</p>
	<p>Senior Corrosion Technologist</p>
	<p>Corrosion Technologist</p>
<p>Corrosion Technician</p>	

► Modifications: Sti-P3[®] Upgrades/Repairs

- It is the Department's expectation that:
 1. A Department certified "UMX" will perform or be onsite to oversee any tank handling activity.
 2. Any tank handling activity should be performed in strict accordance with a recommended practice and site design.
 3. All tank handling activities should be properly documented to show compliance with Department requirements, recommended practices and the site specific design.
- While these are General Rules for Modifications to USTs, these rules ALL apply to the addition of Supplemental Anodes to a sti-P3[®] tank
 - The recommended practice and site design in these cases can be either a Corrosion's Expert's site specific design or STI R972 Recommended Practice for the Addition of Supplemental Anodes to sti-P3[®] USTs.

Documentation: Sti-P3[®] Upgrades/Repairs

- A Department certified “UMX” should include the following in the comments or supporting documents of modification reports for sti-P3[®] Upgrades/Repairs:
 - The standards and practices used to perform the upgrade/repair.
 - The results of any testing required to assess the site for the tank handling work.
 - The results of all Cathodic Protection surveys both before and after the work is completed.
 - The specific location, burial depth, type, and weight of all Anodes added to the tank system.
 - The name and contact information of the corrosion expert responsible for the site design.
- Certified tank handlers and their companies who fail to properly meet the requirements in 25 Pa. Code § 245 can be subject to enforcement.

Dispenser Removal / Replacement

Dispenser Removal and Replacement



Dispenser Removal / Replacement

Effective Nov. 10, 2007, dispenser containment is required:

- Under each dispenser of a new or replacement UST system,
- Under each dispenser added to an existing UST system,
- Under an existing dispenser when more than 50 percent of the piping conveying product from the tank to the dispenser is replaced,
- Under an existing dispenser when a vertical riser, interconnected piping and fittings are replaced below the shear valve, involving a major modification (excavation takes place). See Technical Guidance No. 257-0900-011, “Storage Tank Modification and Maintenance Issues.”

Containment is not required on systems installed before Nov. 10, 2007. In a typical dispenser knock-down where the shear valve operates as designed, no piping is replaced below the shear valve and no excavation is involved, reinstalling or replacing the dispenser does not require installation of under dispenser containment.

Dispenser Removal / Replacement

	30 day notice	UMR	UMX	Major Mod	Minor Mod	Sampling /Closure report	Meet New Regs
Remove Dispenser (No Replacement Dispenser)	X	X			X	X	
Remove Dispenser / Replace Dispenser (simple bolt off/on)			X		X		
Remove Dispenser / Replace with New Dispenser (usually requires excavation or breaking concrete, new brackets , new mounting hardware, etc.)	X	X	X	X		X	X
Remove Dispenser for TOS status (no excavation needed)			X		X		

Dispenser Removal / Replacement

Real World Example – Before Modification



▶ Dispenser Removal / Replacement



Before Modification

Dispenser Removal / Replacement

After Modification



Dispenser Removal / Replacement

New dispenser frame, piping and concrete under dispenser – Not Minor



Dispenser Removal / Replacement

Compliant with current regulations?



➤ Proper placement of overfill alarm?



➤ Proper placement of overfill alarm?



Kerosene Fills



Please See:

**Combustible and Flammable
Liquids Act
Act 1998-15**

Section 7(a): Retail Service stations.

Labor & Industry requirement

Fire hazard safety measure that is intended to prevent the delivery of other fuels into kerosene tanks.

Applies to kerosene tanks at retail facilities.

Most retail gasoline and diesel fills are 4 inches; therefore, the kerosene fill must be smaller than 4 inches and also must be a tight fill.

Be mindful of the delivery method and the overfill prevention device!

Facility Operations Inspection Report Completion



Facility Address on the FOI

- Make sure the proper address for a facility is on the report
- Compare the physical address of facility with the Registration Certificate.
- No P.O. Boxes. No Rural Routes if possible.
- If an address is unclear, ambiguous, or the tanks are not easily found from the road: Add a GPS coordinate and/or explanation of how tanks are found in the comment section of the FOI
- Changes to any address information requires an amended registration



FOI: Basic Expectations

- FOI Forms should be complete and accurate.
- The FOI should be signed by the IUM and facility representative.
- The FOI arrives at the DEP within 60 days.
 - Not 2 months. Not postmarked on the 60th day.
 - If it will be late, please pick up the phone and let us know.
- **Request:** If you inspect a facility **AFTER** the inspection due date on the Registration Certificate, call Central Office and report that the FOI was done.

FOI: Basic Expectations

- Instructions and Guidelines for completing FOIs are available on the website:
 - **Document Number:** 263-3120-003 **Title:** Guidelines for Conducting Underground Storage Tank (UST) Facility Operations Inspections (FOI)
 - **Document Number:** 2630-FM-BECB0501 **Title:** Underground Storage Tank Facility Operations Inspection Report Form Instructions
- Complete Physical Inspections & Complete Paperwork Inspections
 - IUM **should** review the paperwork required for compliance with the facility representative.
 - **Ask Questions** to determine what the facility representative should be giving you.
Did they replace Spill Containment, Sumps, Dispensers?
 - There is **MORE** to paperwork than Release Detection documents.
 - A suggestion is to list specifically the paperwork provided in comments.

FOI: Compliance Determinations

- Compliance is based on the conditions upon arrival at the site.
- Compliant items should have ALL appropriate checkboxes checked on Pages 3 to 6.
- Noncompliant items and any N/As should have clear comments on Page 7.
- Attributes (on Page 2) marked as “Unknown” are NOT Compliant.
 - Comments should explain why it is unknown.
- Attributes & Associated Compliance determination **SHOULD NOT** depend on previous FOI reports.
 - IUMs include comments frequently indicating that this is how they have determined compliance. This can lead to enforcement against you and your company.

Site Drawings or Comments

- Site Drawings are suggested by the Department
- Certain items are expected to either be included in a site drawing or explained in the comments:
 - Location of Overfill Alarms
 - Sensor placement (in particular when not in all sumps/pans)
 - Compartmented Tanks
 - Any manifolded tank configurations other than standard Drone/Master configuration
 - Unique Piping configurations to include lengths and types
 - Tanks with both New and Old Piping



Every Site is Unique!



If it is Unique, Put it in the comments!

Let's take a 10 minute break!

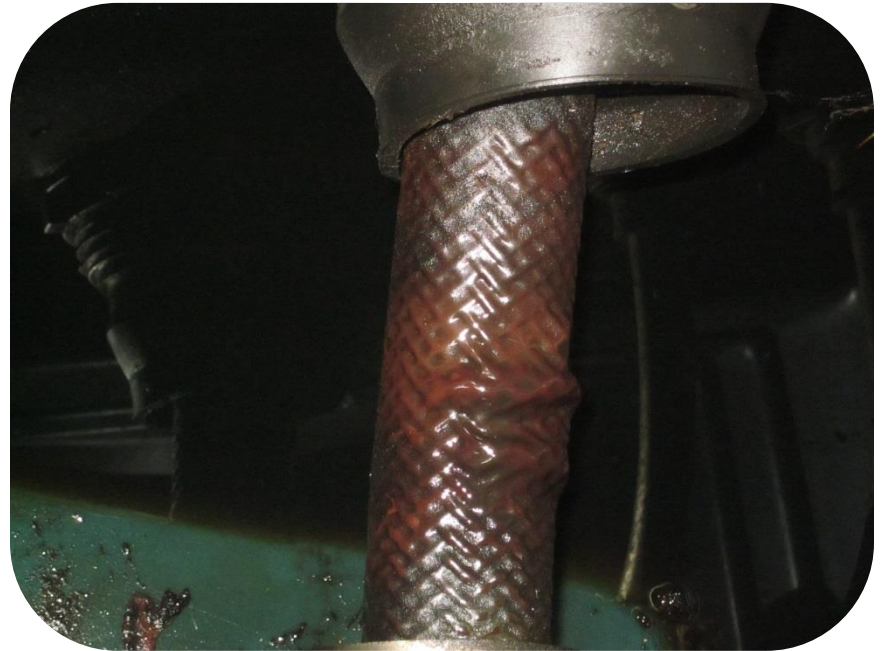
10

Break Time is Over!

Minutes Remaining Please

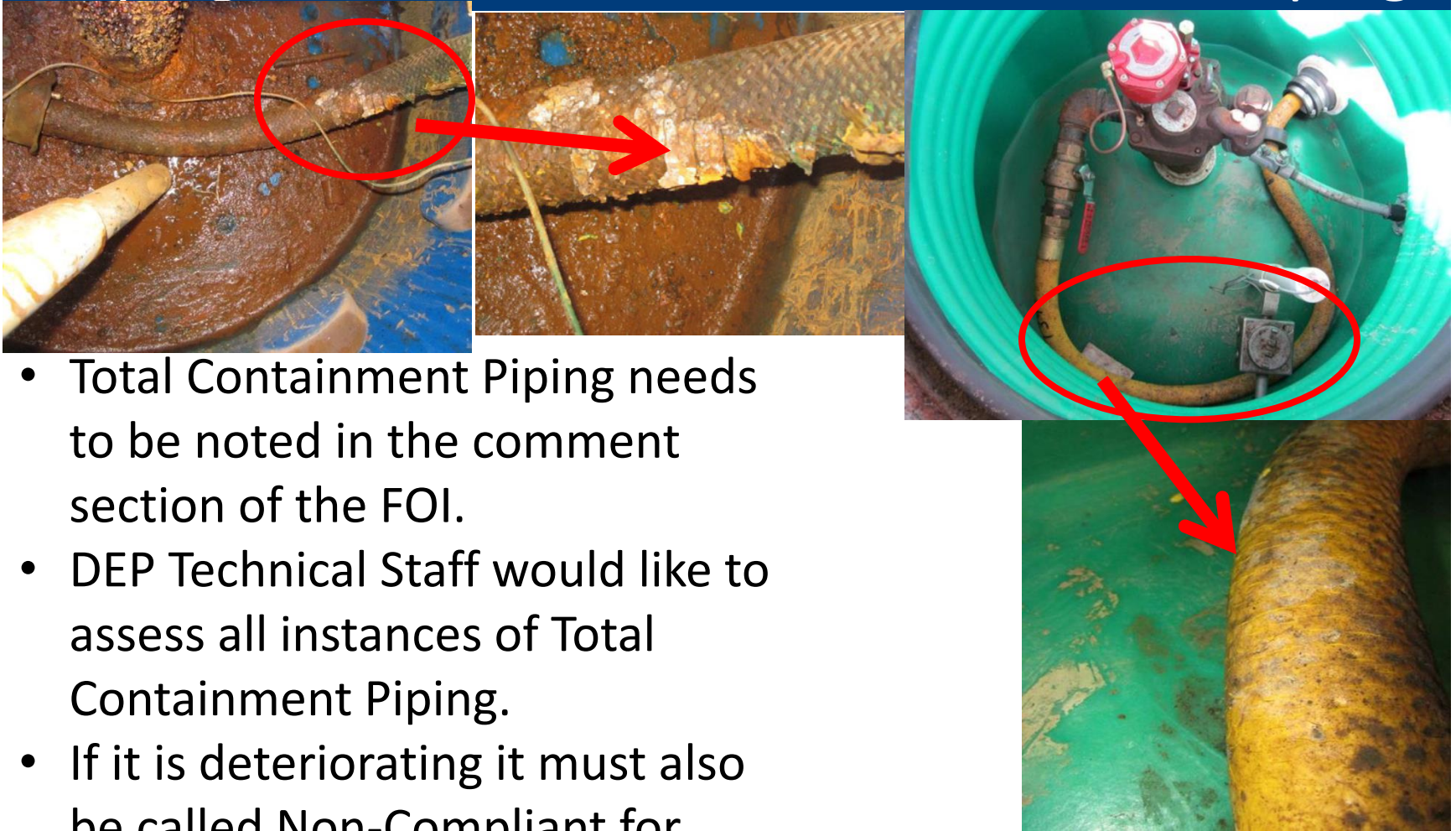
Return to Your Seats

Comments: Piping Deterioration



- Deteriorating Piping should be noted in the comments of an FOI.
- The piping should be marked Non-Compliant on Page 1.

Piping Deterioration: Total Containment Piping



- Total Containment Piping needs to be noted in the comment section of the FOI.
- DEP Technical Staff would like to assess all instances of Total Containment Piping.
- If it is deteriorating it must also be called Non-Compliant for piping construction on Page 1.

Piping Deterioration



- Piping requires careful inspection.
- Sumps should be inspected from multiple angles.



Pictures should be reviewed back in the office for missed items.

Piping Deterioration



Comments: Containment Sumps

- Containment Sumps and Pans
 - From FOI Instructions: Underground tank system sumps must be maintained clean, free from water intrusion, dry and in good repair.



- Comments should include:
 - Condition (intact, stained, etc.)
 - How much water, if any?
 - Is water in contact with piping and other metal fittings?
 - Yes = Noncompliant Piping
 - Where is water infiltration coming from?
 - Sumps should be dried and cleaned immediately.

▶ How Would You Describe These?



Comments: Containment Sumps

- Containment Sumps, Pans, and Spill Buckets
 - If installed after 11/10/2007 these require Liquid Tightness Testing.
 - The owner is required to maintain copies of the most recent test with their compliance documents.
 - The Department receives many FOIs that mark no liquid tightness documentation and there are no comments:
 - Always include comments when documentation is missing **AND** cover required documentation with the facility operator as part of your compliance review/assistance.

Comments: Release Detection

- Tank Release Detection
 - The Department requires monthly monitoring of Tanks.
 - 12 Passing Months should be available.
 - Missing, Invalid, and Failing months should be clearly detailed in the comments section.
 - Changes and Multiple forms of Release Detection should be clearly explained in the comments.
- Piping Release Detection
 - Reminder: Compliance is based on arrival at the site!
 - Dates on Page 5 should reflect the last test conducted prior to your arrival.
 - If testing is conducted concurrent with your FOI these results should be included in the comments section.
 - Monthly Monitoring should be recorded in comments in the same manner as Tank Release Detection.
- Invalid and Failing Release Detection
 - Triggers a suspected release investigation within 7 days. Results should be included in comments.

Release Detection?



Page 15 from FOI Guidance:
The inspector should ask the facility representative to show the inspector the equipment being used for release detection and explain/ show/demonstrate its use.

Continuous Interstitial Monitoring

- Sensors used for 3.0 gph (LLD Function) must be tested annually.
- Sensors used for Positive STP shutoff must be tested annually.
 - When used for the continuous 3.0 gph release detection (LLD) method.
 - When used to meet the positive STP shutoff requirement for new pressurized piping.
 - NOTE: Individual Dispenser Shutdown does NOT meet this requirement



Piping Release Detection: Common Errors

- Piping installed after 11/10/2007:
 - Pressurized System: missing Positive STP Shutdown
 - Suction Systems:
 - Marked as Exempt from Release Detection
 - Not evaluated for Interstitial Monitoring or Total Secondary Containment.
- Piping using Continuous Interstitial Monitoring without sensors in all Sumps and Pans:
 - Box checked on Page 4: ‘capable of detecting 3.0 gph release within 1 hour’
 - When Department questions the configuration the IUM is either not confident in previous assessment or the physical configuration clearly does not meet the standards.
 - Example on next slide

Example: Continuous Interstitial Monitoring



Question? Does a 3 gallon per hour leak trigger STP Shutdown within 1 hour?

Scenario:

1. Site is required to use interstitial monitoring.
2. Site uses continuous interstitial monitoring for positive turbine shutdown.
3. 1 STP sump and 2 Dispenser sumps. 1 sensor in STP sump. No sensors in Dispenser sumps.
4. Piping penetrations are 7-8" above bottom of the dispenser sumps.
5. All boots are tight and jumpers are being used.



Sensor Hall of Fame



▶ Release Detection: Summary Printouts

Release Detection: Summary Printouts

The Department will typically accept summary printouts:

- Summary Printouts can be easily changed; therefore, IUMs should verify results with ATG History print outs.
- The Department reserves the right to request original ATG print outs from the 3rd Party Approved Equipment.

Release Detection: CSLD/SCALD Issues

- SCALD and CSLD Reports will have 2 or more dates:
 - Date of Printing
 - Date of Passing Test
 - Passing Test dates can be significantly older than the date the report was printed. Ensure that you check the passing test date for each tank, each month!
 - Northeast Region identified a SCALD report that each month reported a passing test; however, the test was from September 2013

Release Detection: CSLD Dates

- CSLD Example:
 - Print Date
 - All Good, Completed Day of Printout
 - T1, T3, & T4 Test Dates
 - All Good, Completed Day of Printout
 - T2:
 - NOV 20, 2015 PASS
 - 66 Days Ago

JAN 25, 2016 8:00 AM
CSLD TEST RESULTS
JAN 25, 2016 8:00 AM

T 1: DIESEL
PROBE SERIAL NUM 042841
0.2 GAL/HR TEST
PER: JAN 25, 2016 PASS

T 2: REGULAR
PROBE SERIAL NUM 042707
0.2 GAL/HR TEST
PER: NOV 20, 2015 PASS

T 3: REGULAR 2
PROBE SERIAL NUM 076397
0.2 GAL/HR TEST
PER: JAN 25, 2016 PASS

T 4: PREMIUM GOLD
PROBE SERIAL NUM 042706
0.2 GAL/HR TEST
PER: JAN 25, 2016 PASS



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Release Detection: SCALD Dates

- Sample SCALD Report:
 - Print Date
 - Test Date
 - Test Result

```
INCOM
INTELLIGENT CONTROLS INC
P. O. BOX 638
SACO ME 04072
1-800-984-6266

08/13/1998      9:56 AM
-----
SCALD TEST REPORT

TANK 1          11882.3 GAL
                UNLD REG

LEAK TEST       0.200 GPH
LEAK THRESHOLD 0.100 GPH
EXTENT          18.0 HRS
VOL QUALIFY     0.0%
TEST STARTED   12:22 PM
TEST STARTED   08/07/1998
SALES RATE     31.751 GPH
EVAPORATED     1.781 GAL
LOST           0.327 GAL
DUTY FACTOR    0.31
UPDATED        12:40 AM
UPDATED        08/10/1998

SLOPE          -0.002 GAL/HR
TEST RESULT    PASSED
SLOPE EQUALS  CALCULATED
LEAK RATE
```



Release Detection: CSLD/SCALD Issues

- Cause of Error:
 - The CSLD functions by collecting data while product is NOT being dispensed from the tank. While product is being dispensed the CSLD cannot collect data. When a tank is having a constant release, the CSLD mistakenly recognizes this as product being dispensed.
 - Solutions:
 - Familiarize with the other methods of recognizing leaks.
 - Review CSLD/SCALD Troubleshooting guides from the manufacturers.
 - Train your facility operators during inspections.
 - VR ATGs may be able to install a Pump Sense module to differentiate between product dispensing and a constant release.

Cathodic Protection Issues and Reminders

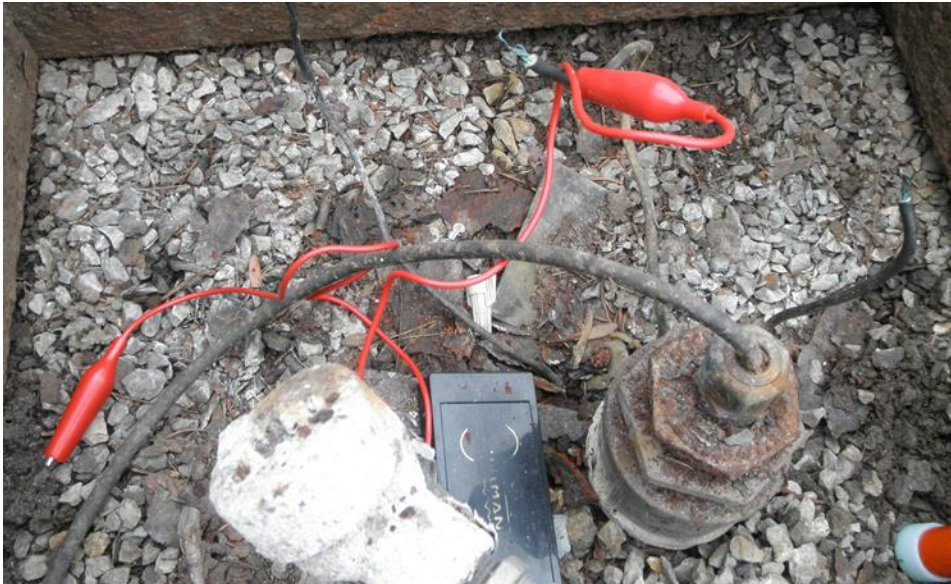


Compliance: Corrosion Protection

- Required Documentation:
 - Both Galvanic and ICCP Require:
 - 2 CP Surveys
 - 1 on the day of FOI and 1 within the past 3 years.
 - 1 within the past 3 years and one within 3 years of that survey.
 - Modification Reports and Supporting Documentation for any upgrades or repairs
 - Ensure all Field Installed CP Systems have both Tank Shell Assessment and Corrosion Expert's design documentations.
 - FOI and Corrosion Protection Guidance detail the steps required to resolve compliance at sites who have failed to maintain historical documentation.
 - » These documents are available on the website and the back table

Compliance: Corrosion Protection

- Required Documentation:
 - ICCP Requires:
 - Rectifier readings
 - 3 Required:
 - » Current Reading (Within 60 Days)
 - » Current Reading – 60 Days
 - » Current Reading – 120 Days
 - Corrosion Expert's Design and System Limitations documentation.



FOI: Corrosion Protection Sections

Galvanic and Impressed Cathodic Protection: (Tank code B, C, O or P and/or Piping)

tank structure to soil potential greater than 0.85 volts, **or** meets other nationally recognized protection standard: specify: _____

_____ potential on **tank** current monitoring (date) 02/19/2016

_____ potential on **tank** previously monitored (date) 02/24/2013

pipe/flex structure to soil potential greater than 0.85 volts, **or** meets other nationally recognized protection standard: specify: _____

_____ potential on **pipe/flex** current monitoring (date) _____

_____ potential on **pipe/flex** previously monitored (date) _____

Impressed Current Design and Rectifier Output: (Tank code C or P and/or Piping)

system designed by a corrosion expert
system is turned on and functioning within design limits
documentation of last three amp (plus volt and runtime when meters available) readings, recorded at least once every 60 days:

most recent: volts: _____ amps: _____ runtime: _____ date: _____

60 days prior: volts: _____ amps: _____ runtime: _____ date: _____

120 days prior: volts: _____ amps: _____ runtime: _____ date: _____

If Cathodic Protection or supplemental anodes were added to an existing tank system, fill in the following (Information is **Required** for Compliance):

Date assessed: _____

Date installed: _____

Tank Shell Assessment Method: _____



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FOI: ICCP Design and Rectifier Output

Impressed Current Design and Rectifier Output: (Tank code C or P and/or Piping)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

system designed by a corrosion expert

system is turned on and functioning within design limits

documentation of last three amp (plus volt and runtime when meters available) readings, recorded at least once every 60 days:

most recent: volts: _____ amps: _____ runtime: _____ date: _____

60 days prior: volts: _____ amps: _____ runtime: _____ date: _____

120 days prior: volts: _____ amps: _____ runtime: _____ date: _____

Review: Checkbox Meaning

1. 'System Designed by a Corrosion Expert'

- How is this being assessed?
- How should it be assessed?

2. 'System is turned on and functioning within design limits'

- Per FOI Guidance (PG 14): 'If limitations are not available, variations of $\pm 10\%$ from the initial readings should be investigated by a corrosion expert.'

3. Document Last 3 Rectifier Readings

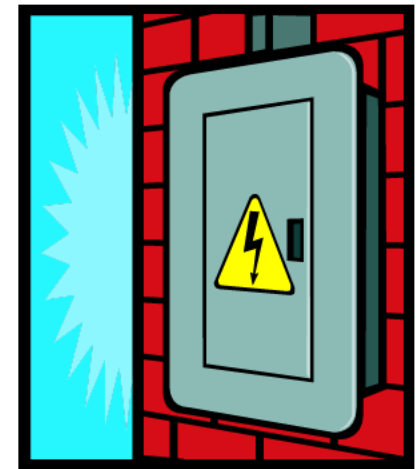
- Every 60 Days
- Available Items from Volts, Amps, and Runtime

Cathodic Protection Documentation

- On October 3rd of 2015, the Department published:
 - 263-4200-002 Guidelines for the Evaluation of Underground Storage Tank Cathodic Protection Systems
 - 2630-FM-BECB0610 UST Cathodic Protection System Evaluation Form

From the Guidelines Introduction:

The primary purpose of this document is to provide general guidelines regarding the evaluation of cathodic protection systems operating on underground storage tank (UST) systems in the Commonwealth of Pennsylvania ...This guidance is also intended to establish what minimum documentation should be generated by a cathodic protection tester in order to conduct a valid cathodic protection evaluation and be able to reproduce the test results.



Cathodic Protection Documentation

- **SECTION 8 - CATHODIC PROTECTION EVALUATION DOCUMENTATION**
 - Cathodic Protection surveys prepared by IUMs and other Cathodic Protection documents reviewed during inspections should be reviewed with consideration of the following items:
 - Site Drawing
 - Reference electrode placement for each reading.
 - Placement of each Anode in ICCP Systems and Field-installed Galvanic Systems.
 - Locations of all other relevant items that the Cathodic Protection tester can identify.
 - Test Results
 - Every Cathodic Protection Survey should clearly indicate whether the survey results in a Pass, Fail, or Inconclusive for the facility. The survey documentation is NOT valid for compliance without this information.

FOI: Emergency Procedures and Operators

- **25 Pa. Code § 245.436(a)(1) states,** “An owner shall designate Class A, Class B and Class C operators for each underground storage tank system or facility that has underground storage tanks permitted to operate by the Department.”
 - Every Facility must have at least 1 of each type of operator.
 - There should be a list of designated operators.
 - Name, Operator Class, Date of Training, Date of Refresher, and Phone Number (unmanned and Class A/B not permanently onsite)
- All sites should have **valid** Emergency Procedures.
 - Posted in view of dispensers for unmanned sites
 - Available to Class C Operators
 - Class C Operators should know where they are!

FOI: Emergency Procedures

EMERGENCY RESPONSE CONTACTS

[REDACTED] DE, MD, NJ, NY (127,126), PA, OH, VA
MID MARKETS – REVISED 07/17/14

PUBLIC SAFETY

Fire Department	911
Police Department	911
Hospital	911

YOUR FIRST CALL SHOULD ALWAYS BE TO:

(Except for low Fuel Alarms)

[REDACTED] **Help Desk**

9-1-

What Do You Think Happened When the Department Called This Number?

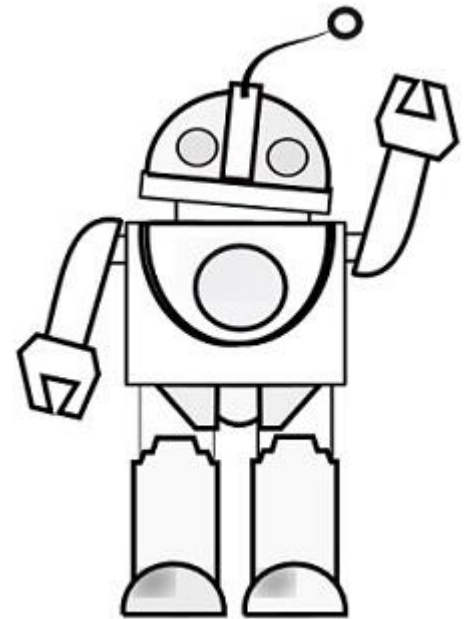
If you guessed that:

- We were told it was the wrong number.
- The individual on the other end was unable to provide the appropriate contact information.

You would be correct!

Previously Covered

- Satellite Dispensers: Big and Little Leak Issues
- Overfill Compatibility: Delivery Method and System Construction
- Shallow Bravo Boxes
- Water Checks
 - Yes, we expect you to stick the tank.
- Release Reporting in depth



Release Reporting



What Goes Where?

	Regional	Central
FOI	X	X
Lining Inspection	X	X
Mod Report	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
- Region 1 (SE): ra-serotanks@pa.gov
Modification Reports must be mailed.
- Region 2 (NE): ra-nero-tanks@pa.gov
- Region 3 (SC): ra-ep-scro-tanks@pa.gov
- Region 4 (NC): ra-nc-tanks@pa.gov
- Region 5 (SW): ra-pghtanks@pa.gov
- Region 6 (NW): ra-nwro-tanks@pa.gov

Individual emails must be < 10 MB total



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DEPARTMENT OF ENVIRONMENTAL PROTECTION



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 – 1-866-825-0208 **

North East Region – 570-826-2511

South East Region – 484-250-5900

****Please note that South Central's Phone number is NEW as of 2014****



Bureau of Environmental Cleanup & Brownfields

Questions?

Kris Shiffer – 717-772-5809 – kshiffer@pa.gov

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

Alex Eckman – 717-772-5827 – eckman@pa.gov

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Pat Sosik – 717-772-5803 – psosik@pa.gov

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

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