UNDERGROUND STORAGE TANK OPERATOR CLASS A & B TRAINING COURSE

Presented By:

Keystone Petroleum Equipment, Ltd.

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MODULE 1 OPERATOR REQUIREMENTS AND RESPONSIBILITIES

OPERATOR TRAINING REQUIREMENTS

- PA Code Title 25 Chapter 245.436 became effective December 26, 2009
- Requires all facilities with regulated underground storage tanks to have at least one designated Class A, B, and C operators by August 8, 2012

CLASS A OPERATOR

- Assigned the primary responsibility of ensuring PADEP compliant operation of the regulated underground storage tank system(s) at all facilities
- Makes sure UST systems are properly installed, repairs are made correctly and in a timely manner, and that documentation of repairs/modifications are maintained
- Must understand the different operator classifications along with the responsibilities and training requirements that accompany them
- A Class A operator can train Class C operators; training to include:
  - Site specific training
  - Preparation of Class C training material
  - Documentation of training
  - Ensuring Class C training is kept up to date

CLASS B OPERATOR

- Understands day to day operations relating to compliance, monitoring, record keeping, maintenance, and spill prevention
- Ensures equipment used on the UST system is operational, third party certified, and capable of functioning with the specific system. This includes overfill & spill prevention, corrosion protection, and release detection equipment
- Must be familiar with their own duties and the duties of the Class C operators. Class B operators may also train Class C operators

CLASS C OPERATORS

- Class C operators are trained by the Class A or Class B operators
- Training is to be site specific at the facility where the Class C operator is working
- The main focus of a Class C operator is emergency procedures, such as:
  - Spill response and general site safety. (i.e. not allowing smoking at the pumps)
  - Making appropriate notifications for spills, alarms, etc……
  - Location and operation of the emergency stop

MULTI-CLASS OPERATORS

- An 'A' operator is also a qualified 'B' and/or 'C' operator
- A 'B' operator is also a qualified 'C' operator

For a small facility, one person can fulfill all the required operator roles but….

OPERATOR RESPONSE REQUIREMENTS

- Class A or B operator must be available for immediate phone consultation during operating hours
- Class A or B operator must be able to be at the site within 24 hours
- Class C operator should always be at the site during operating hours

WHAT ABOUT UNMANNED FACILITIES?

- Class A and B response times are the same
- A Class C operator must be available immediately for phone consultation and be able to be onsite within 2 hours of being contacted
- Emergency contacts and procedures must be prominently displayed for all users of the site

OTHER OPERATOR OPTIONS

- Regulations do not specify that operator must be a direct employee
- Operator classes can be sub-contracted to a 3rd party that possesses the appropriate certification. If you are sub contracting your A operator then a signed contract must exist.
- PADEP certified individuals in the IUM and/or UMX and/or UMI category are automatically certified as an 'A' Operator (if an IUM is a facilities Class A operator they are not allowed to perform official FOI's at the site)

MODULE 2
FINANCIAL RESPONSIBILITY
&
TANK NOTIFICATIONS/REGISTRATION

FINANCIAL RESPONSIBILITY
USTIF

- All regulated USTs must be insured through the Pennsylvania Underground Storage Tank Indemnification Fund (USTIF)

- The fund is administered by ICF, Inc., a third party consulting firm
- Heating oil tanks greater then 3,000 gallons can opt into the fund

USTIF FEES

1. All regulated USTs storing gasoline, gasohol, aviation fuel, new motor oil, hazardous substances, mixture, other, and diesel fuel tanks at farms pay 1.1 cents per gallon which is charged by the distributor at the time of delivery
2. All regulated USTs storing heating oil, diesel fuel, kerosene, used motor oil and unknown products are charged a fee of 8.25 cents per gallon of UST capacity paid annually

DOCUMENTATION

- 2018 Regulations now require the FOI inspector to review USTIF records
- This could include logging in to your USTIF account and showing the inspector you have a zero balance
- For records in category 1, this will be you BOL's/Invoices from your distributor(s)
- For records in category 2, it will be your annual invoice from USTIF

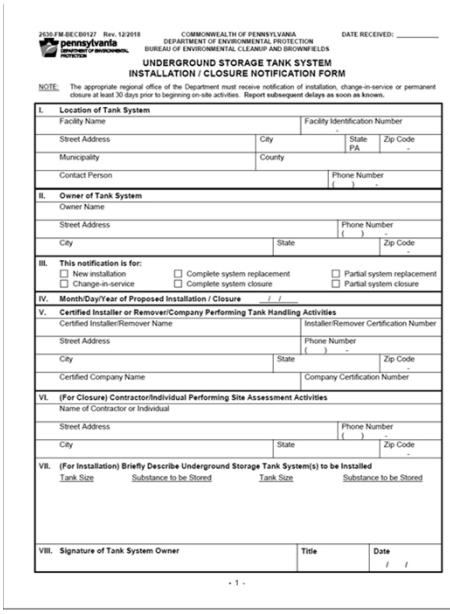
FILING USTIF CLAIMS

- Call (717) 787-0763 or (800) 595-9887 (IN PA) to report a claim
- Claims **must** be submitted within 60 days of the discovery of the release or they will be denied!!!
- PADEP & USTIF notifications are separate. Make sure you do BOTH!
- Deductibles:
  - **Corrective Action: $5,000** per tank per occurrence
  - **3rd Party Liability: $5,000** per tank per occurrence
- Coverage is $1.5 million per occurrence

PA DEP FORMS

- 30 Day Closure/Installation Form: Submitted 30 days before the installation or permanent closure of a UST system. This should be signed by the tank owner and lists the DEP certified individual to perform the work.

2018 UPDATED FORM



2630-FM-BECB0127 Rev. 12/2018 COMMONWEALTH OF PENNSYLVANIA DATE RECEIVED: _____
pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

UNDERGROUND STORAGE TANK SYSTEM
INSTALLATION / CLOSURE NOTIFICATION FORM

NOTE: The appropriate regional office of the Department must receive notification of installation, change-in-service or permanent closure at least 30 days prior to beginning on-site activities. **Report subsequent delays as soon as known.**

I. Location of Tank System
Facility Name | Facility Identification Number
Street Address | City | State PA | Zip Code
Municipality | County
Contact Person | Phone Number

II. Owner of Tank System
Owner Name
Street Address | Phone Number
City | State | Zip Code

III. This notification is for:
☐ New installation ☐ Complete system replacement ☐ Partial system replacement
☐ Change-in-service ☐ Complete system closure ☐ Partial system closure

IV. Month/Day/Year of Proposed Installation / Closure __/__/____

V. Certified Installer or Remover/Company Performing Tank Handling Activities
Certified Installer/Remover Name | Installer/Remover Certification Number
Street Address | Phone Number
City | State | Zip Code
Certified Company Name | Company Certification Number

VI. (For Closure) Contractor/Individual Performing Site Assessment Activities
Name of Contractor or Individual
Street Address | Phone Number
City | State | Zip Code

VII. (For Installation) Briefly Describe Underground Storage Tank System(s) to be Installed
Tank Size | Substance to be Stored | Tank Size | Substance to be Stored

VIII. Signature of Tank System Owner | **Title** | **Date** __/__/____

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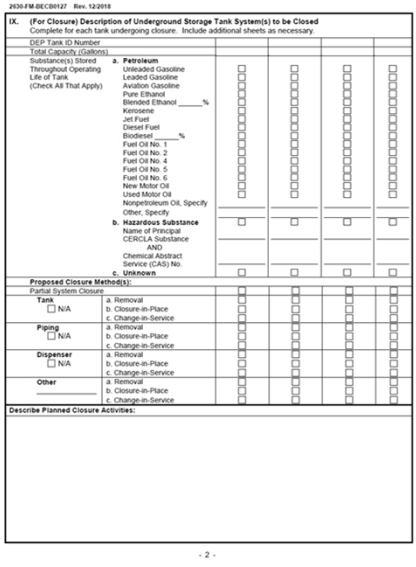

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IX. (For Closure) Description of Underground Storage Tank System(s) to be Closed
Complete for each tank undergoing closure. Include additional sheets as necessary.

DEP Tank ID Number
Total Capacity (Gallons)

Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)

a. Petroleum
Unleaded Gasoline
Leaded Gasoline
Aviation Gasoline
Pure Ethanol
Blended Ethanol _____%
Kerosene
Jet Fuel
Diesel Fuel
Biodiesel _____%
Fuel Oil No. 1
Fuel Oil No. 2
Fuel Oil No. 4
Fuel Oil No. 5
Fuel Oil No. 6
New Motor Oil
Used Motor Oil
Nonpetroleum Oil, Specify
Other, Specify

b. Hazardous Substance
Name of Principal CERCLA Substance
AND
Chemical Abstract Service (CAS) No.

c. Unknown

Proposed Closure Method(s):
Partial System Closure

Tank ☐ N/A — a. Removal; b. Closure-in-Place; c. Change-in-Service
Piping ☐ N/A — a. Removal; b. Closure-in-Place; c. Change-in-Service
Dispenser ☐ N/A — a. Removal; b. Closure-in-Place; c. Change-in-Service
Other _____ — a. Removal; b. Closure-in-Place; c. Change-in-Service

Describe Planned Closure Activities:

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PA DEP FORMS

- Registration Form: This is used to register or remove tanks from PA DEP's system. It must be signed by an individual certified in the activity being claimed on the form as well as the tank owner. The exceptions to a certified individual signing is change of ownership & the owner making administrative changes.

2630-PM-BECB0014 Rev. 2/2017
Form

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

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

DEP USE ONLY
Client ID#
Site ID#
Account #
Auth ID#
APS ID#
Master Auth ID#

Facility ID #

Facility Name

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☐ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

* For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0014a) and copies of the Class A and Class B operator training certificates.

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID# | Client Type/Code | Fee Kind (check one if applicable) ☐ Volunteer Fire Co/EMS Org ☐ State Govt ☐ Fed Govt

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Client Contact Last Name | First Name | MI | Suffix

Client Contact Title | Phone | Ext

E-mail Address | FAX

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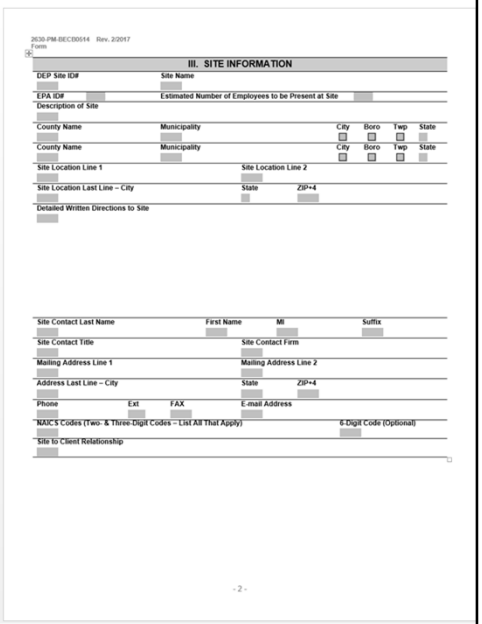

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III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

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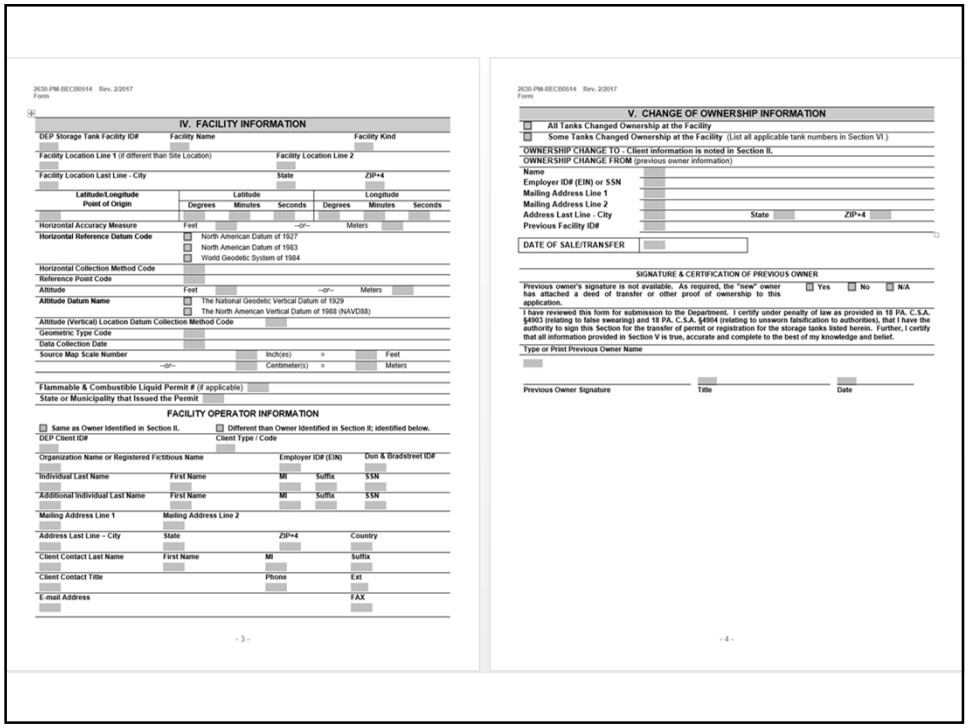

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IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | Facility Name | Facility Kind

Facility Location Line 1 (if different than Site Location) | Facility Location Line 2

Facility Location Last Line - City | State | ZIP+4

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

Horizontal Accuracy Measure: Feet --or-- Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude: Feet --or-- Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number: Inch(es) = Feet --or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ Same as Owner identified in Section II. ☐ Different than Owner identified in Section II; identified below.

DEP Client ID# | Client Type / Code

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Client Contact Last Name | First Name | MI | Suffix

Client Contact Title | Phone | Ext

E-mail Address | FAX

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Form

V. CHANGE OF OWNERSHIP INFORMATION

- ☐ All Tanks Changed Ownership at the Facility
- ☐ Some Tanks Changed Ownership at the Facility (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name

Employer ID# (EIN) or SSN

Mailing Address Line 1

Mailing Address Line 2

Address Last Line - City | State | ZIP+4

Previous Facility ID#

DATE OF SALE/TRANSFER

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ Yes ☐ No ☐ N/A

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature | Title | Date

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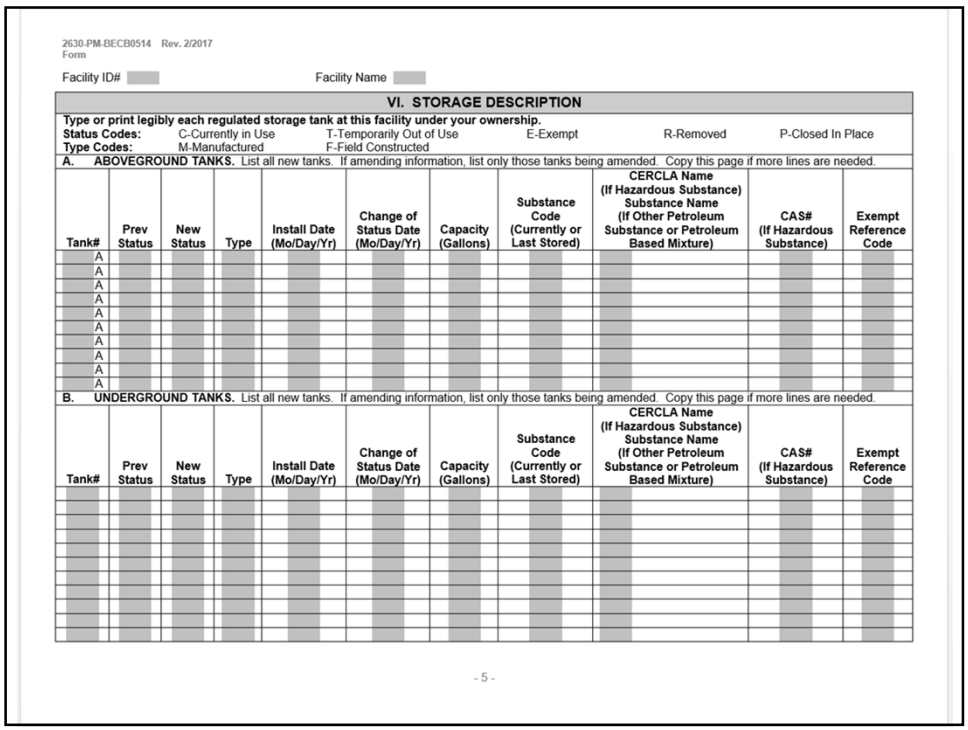

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Form

Facility ID# Facility Name

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.
Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place
Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
A										
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

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Facility ID# Facility Name

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. Steel W/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Steel With Lined Interior	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel With Liner	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Q. Double Bottom (AST's Only)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (AST's Only)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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Form

Facility ID# Facility Name

Underground Piping Construction & Corrosion Protection (2)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Bare Steel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Double Wall Metallic Primary	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Double Wall Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K. Double Wall Flexible Primary	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
L. Trench Liner	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Aboveground Piping Construction & Corrosion Protection (3)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Carbon Steel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Product Delivery System (4)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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Form

Facility ID# Facility Name

Spill Prevention (6) UST Only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Y. Installed and Liquid Tight	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
N. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Fill In Less Than 25 Gallons (Exempt)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Overfill Prevention (7)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Overfill Alarm	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Ball Float Valve and No Air Eliminator	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Fill In Less Than 25 Gallons (Exempt)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
N. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
S. Drop Tube Shutoff Device	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Y. Yes (AST only)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Emergency Containment (16) ASTs Only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
E. Exempt	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
N. No	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
V. Underground Vault	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Secondary Containment (17) ASTs Only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
E. Exempt	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
N. No	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
V. Underground Vault	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Stage I Vapor Recovery (19) USTs and ASTs When Applicable	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Coax	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
N. None or Incomplete	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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2630-PM-BECB0514 Rev. 2/2017
Form

Facility ID# Facility Name

Stage II Vapor Recovery (20)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Complete Balance System	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Complete Assist System	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. UG Piping Only	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
N. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tank-top Containment Sumps Present (Product Piping Only) (21) USTs Only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Under-dispenser Containment Present (22) USTs Only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Line Leak Detector Shuts Off Pump (23) USTs Only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. No	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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Form

Facility ID# Facility Name

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE										
Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.										
Items 2 & 3 below apply to large ASTs and all USTs	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3. Closure document kept on file by owner.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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2630-PM-BECB0514 Rev. 2/2017
Form

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name

Owner Signature **Title** **Date**

Information & Invoices should be sent to:

☐ Tank Owner Contact
☐ Site Contact
☐ Facility Operator
☐ Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name **Employer ID# (EIN)** **Dun & Bradstreet ID#**

Individual Last Name **First Name** **MI** **Suffix** **SSN**

Additional Individual Last Name **First Name** **MI** **Suffix** **SSN**

Mailing Address Line 1 **Mailing Address Line 2**

Address Last Line – City **State** **ZIP+4** **Country**

Contact Title **Phone** **Ext.**

E-mail Address

Client to Site (Facility) Relationship

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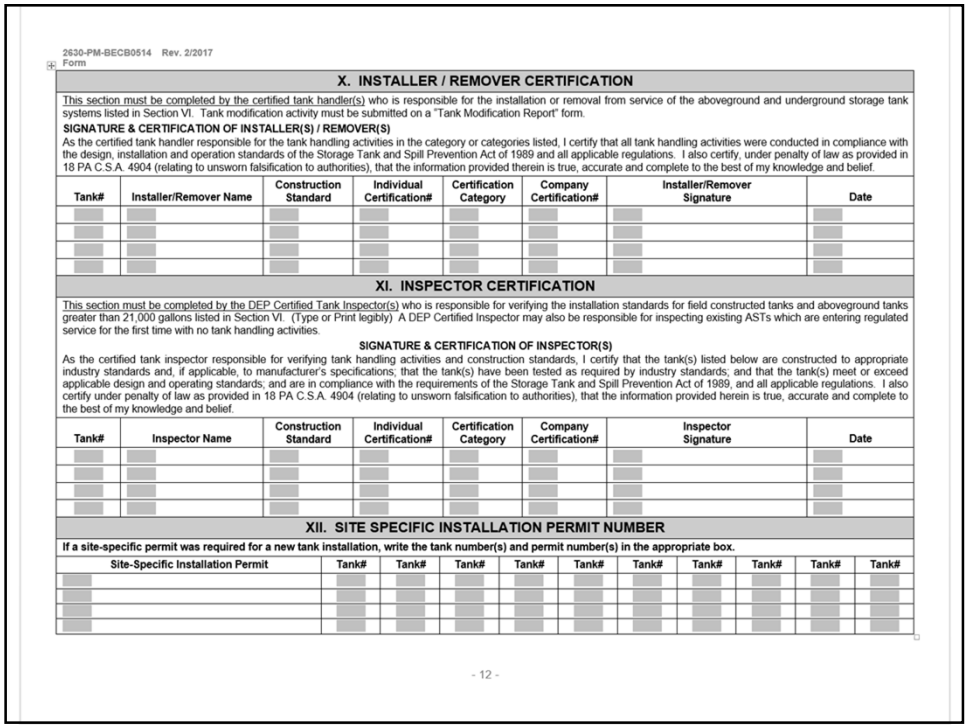

2630-PM-BECB0514 Rev. 2/2017
Form

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

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

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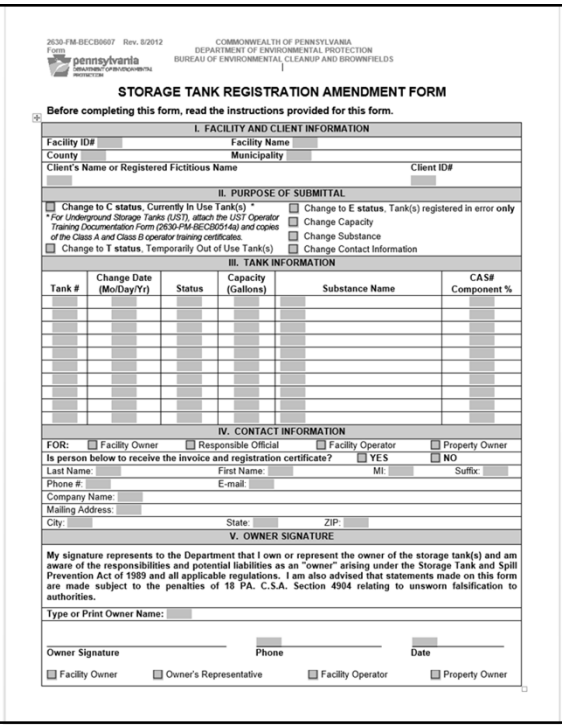
PA DEP FORMS

- Registration Amendment: Can be used to change facility or product information. It can also be used to register a facility as temporarily out of service (TOS). This only needs to be signed by the tank owner or owner representative.



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

☐ Change to C status, Currently In Use Tank(s) *
* 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.
☐ Change to T status, Temporarily Out of Use Tank(s)
☐ Change to E status, Tank(s) registered in error only
☐ Change Capacity
☐ Change Substance
☐ Change Contact Information

III. TANK INFORMATION

Tank #	Change Date (Mo/Day/Yr)	Status	Capacity (Gallons)	Substance Name	CAS# Component %

IV. CONTACT INFORMATION

FOR: ☐ Facility Owner ☐ Responsible Official ☐ Facility Operator ☐ Property Owner
Is person below to receive the invoice and registration certificate? ☐ YES ☐ NO
Last Name: | First Name: | MI: | Suffix:
Phone #: | E-mail:
Company Name:
Mailing Address:
City: | State: | ZIP:

V. OWNER SIGNATURE

My signature represents to the Department that I own or represent the owner of the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this form are made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name:

Owner Signature | Phone | Date

☐ Facility Owner ☐ Owner's Representative ☐ Facility Operator ☐ Property Owner

PA DEP FORMS

- Modification Report: Completed by a DEP certified individual after a modification to the UST system is made. A copy should be retained by the owner/operator for all future inspections
- Almost any work that involves your fuel system, including excavation work above your fuel system requires a DEP certified individual.
- The DEP charges the certified individual for filing major modification reports.

Modification Types

Major	Minor
Any work involving excavation	Adding a spike anode to a flex line
Adding a new form of line release detection (ie.. Install tank monitor)	Replacing a leak detector
Adding/replacing anodes on a tank	Replacing a flex hose
Repairing a line leak	Replacing a drop tube

2018 UPDATED FORM

2630-FM-BECB0575 Rev. 12/2018

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

pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

UNDERGROUND STORAGE TANK MODIFICATION REPORT

FOR DEP USE ONLY
Reviewer_____ Date_____
Entered by_____ Date_____

I. FACILITY INFORMATION

Facility I.D. Number _____
Facility Name _____
Facility Address _____
_____
Municipality _____
GPS Location Lat: _____ Long: _____

II. ACTIVITY INFORMATION

This modification activity is?
☐ Minor modification
☐ Major modification

Is this modification in response to an inspection?
☐ Yes ☐ No
If Yes: Inspector: _____
Inspection Date: _____

III. TANK INFORMATION

Tank modification is in accordance with manufacturer's specifications and current industry standards. If no, explain all irregularities in the comment section.
☐ Yes ☐ No

Tank modification complies with Fire Safety Requirements (for flammable & combustible liquids). If no, explain all irregularities in the comment section.
☐ Yes ☐ No ☐ Not Applicable

Fire/Safety Permit Number _____ Issued By _____ Date _____

IV. INSTALLER INFORMATION (If additional installers were involved, include their information in VII. Comments)

Installer Name	Installer Cert. No.	Certification Category(ies)	Company Name	Company Cert. No.

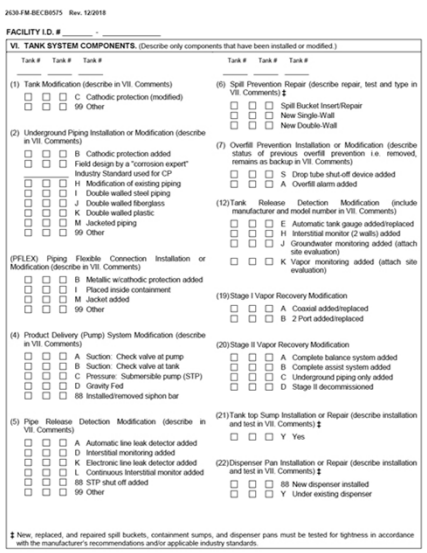
Installer Contact Name _____ Contact Email _____ Contact Phone _____

V. INSTALLER CERTIFICATION

This Section must be completed by the certified installer(s) for modifications performed on underground storage tank systems. By signing below, the certified installer verifies that the tank handling activity was conducted in compliance with the 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.

Signature(s) _____ Date(s) of Signature _____ Date(s) Work Completed _____

- 1 -



2630-FM-BECB0575 Rev. 12/2018

FACILITY I.D. # _____ - _____

VI. TANK SYSTEM COMPONENTS. (Describe only components that have been installed or modified.)

Tank # Tank # Tank # | Tank # Tank # Tank #

(1) Tank Modification (describe in VII. Comments)
☐☐☐ C Cathodic protection (modified)
☐☐☐ 99 Other

(2) Underground Piping Installation or Modification (describe in VII. Comments)
☐☐☐ B Cathodic protection added
☐☐☐ Field design by a "corrosion expert" Industry Standard used for CP
☐☐☐ H Modification of existing piping
☐☐☐ I Double walled steel piping
☐☐☐ J Double walled fiberglass
☐☐☐ K Double walled plastic
☐☐☐ M Jacketed piping
☐☐☐ 99 Other

(PFLEX) Piping Flexible Connection Installation or Modification (describe in VII. Comments)
☐☐☐ B Metallic w/cathodic protection added
☐☐☐ I Placed inside containment
☐☐☐ M Jacket added
☐☐☐ 99 Other

(4) Product Delivery (Pump) System Modification (describe in VII. Comments)
☐☐☐ A Suction: Check valve at pump
☐☐☐ B Suction: Check valve at tank
☐☐☐ C Pressure: Submersible pump (STP)
☐☐☐ D Gravity Fed
☐☐☐ 88 Installed/removed siphon bar

(5) Pipe Release Detection Modification (describe in VII. Comments)
☐☐☐ A Automatic line leak detector added
☐☐☐ D Interstitial monitoring added
☐☐☐ K Electronic line leak detector added
☐☐☐ L Continuous Interstitial monitor added
☐☐☐ 88 STP shut off added
☐☐☐ 99 Other

(6) Spill Prevention Repair (describe repair, test and type in VII. Comments) ‡
☐☐☐ Spill Bucket Insert/Repair
☐☐☐ New Single-Wall
☐☐☐ New Double-Wall

(7) Overfill Prevention Installation or Modification (describe status of previous overfill prevention i.e. removed, remains as backup in VII. Comments)
☐☐☐ S Drop tube shut-off device added
☐☐☐ A Overfill alarm added

(12) Tank Release Detection Modification (include manufacturer and model number in VII. Comments)
☐☐☐ E Automatic tank gauge added/replaced
☐☐☐ H Interstitial monitor (2 walls) added
☐☐☐ J Groundwater monitoring added (attach site evaluation)
☐☐☐ K Vapor monitoring added (attach site evaluation)

(19) Stage I Vapor Recovery Modification
☐☐☐ A Coaxial added/replaced
☐☐☐ B 2 Port added/replaced

(20) Stage II Vapor Recovery Modification
☐☐☐ A Complete balance system added
☐☐☐ B Complete assist system added
☐☐☐ C Underground piping only added
☐☐☐ D Stage II decommissioned

(21) Tank top Sump Installation or Repair (describe installation and test in VII. Comments) ‡
☐☐☐ Y Yes

(22) Dispenser Pan Installation or Repair (describe installation and test in VII. Comments) ‡
☐☐☐ 88 New dispenser installed
☐☐☐ Y Under existing dispenser

‡ New, replaced, and repaired spill buckets, containment sumps, and dispenser pans must be tested for tightness in accordance with the manufacturer's recommendations and/or applicable industry standards.

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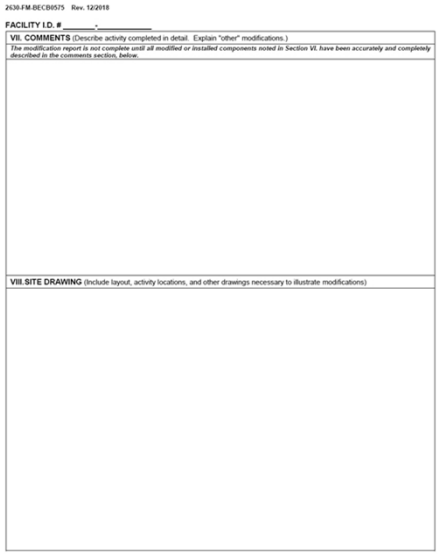
2018 UPDATED FORM



2630-FM-BECB0575 Rev. 12/2018

FACILITY I.D. # _____ - _____

VII. COMMENTS (Describe activity completed in detail. Explain "other" modifications.)

The modification report is not complete until all modified or installed components noted in Section VI. have been accurately and completely described in the comments section, below.

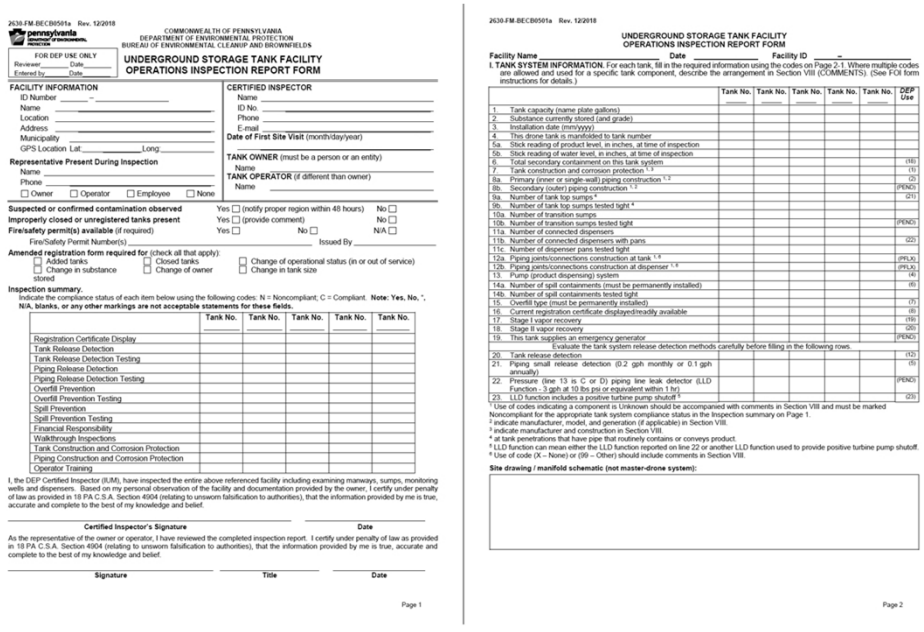
VIII. SITE DRAWING (Include layout, activity locations, and other drawings necessary to illustrate modifications)

- 3 -

PA DEP FORMS

- Facility Operations Inspection (FOI): Completed every three years by a PA DEP certified inspector. Copies should be retained by the owner/operator. DEP generally sends an inspection reminder letter. The due date of the next inspection is also on the annual registration certificate
- This form is signed by both the inspector and the owner
- PADEP appears to take action based on the compliance status listed on page 1 – Keep your facilities in compliance to avoid a PADEP post inspection site visit

2018 UPDATED FORM



2630-FM-BECB0501a Rev. 12/2018

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

FOR DEP USE ONLY
Reviewer _____ Date _____
Entered by _____ Date _____

UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

FACILITY INFORMATION
ID Number _____ – _____
Name
Location
Address
Municipality
GPS Location Lat: _____ Long: _____

Representative Present During Inspection
Name
Phone
☐ Owner ☐ Operator ☐ Employee ☐ None

CERTIFIED INSPECTOR
Name
ID No.
Phone
E-mail

Date of First Site Visit (month/day/year)

TANK OWNER (must be a person or an entity)
Name

TANK OPERATOR (if different than owner)
Name

Suspected or confirmed contamination observed Yes ☐ (notify proper region within 48 hours) No ☐
Improperly closed or unregistered tanks present Yes ☐ (provide comment) No ☐
Fire/safety permit(s) available (if required) Yes ☐ No ☐ N/A ☐
Fire/Safety Permit Number(s) _____ Issued By _____

Amended registration form required for (check all that apply):
☐ Added tanks ☐ Closed tanks ☐ Change of operational status (in or out of service)
☐ Change in substance stored ☐ Change of owner ☐ Change in tank size

Inspection summary.
Indicate the compliance status of each item below using the following codes: N = Noncompliant; C = Compliant. **Note: Yes, No, *, N/A, blanks, or any other markings are not acceptable statements for these fields.**

	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
Registration Certificate Display					
Tank Release Detection					
Tank Release Detection Testing					
Piping Release Detection					
Piping Release Detection Testing					
Overfill Prevention					
Overfill Prevention Testing					
Spill Prevention					
Spill Prevention Testing					
Financial Responsibility					
Walkthrough Inspections					
Tank Construction and Corrosion Protection					
Piping Construction and Corrosion Protection					
Operator Training					

I, the DEP Certified Inspector (IUM), have inspected the entire above referenced facility including examining manways, sumps, monitoring wells and dispensers. Based on my personal observation of the facility and documentation 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.

_____ _____
Certified Inspector's Signature **Date**

As the representative of the owner or operator, 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), that the information provided by me is true, accurate and complete to the best of my knowledge and belief.

_____ _____ _____
Signature **Title** **Date**

Page 1

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UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

Facility Name _____ **Date** _____ **Facility ID** _____ – _____

I. TANK SYSTEM INFORMATION. For each tank, fill in the required information using the codes on Page 2-1. Where multiple codes are allowed and used for a specific tank component, describe the arrangement in Section VIII (COMMENTS). (See FOI form instructions for details.)

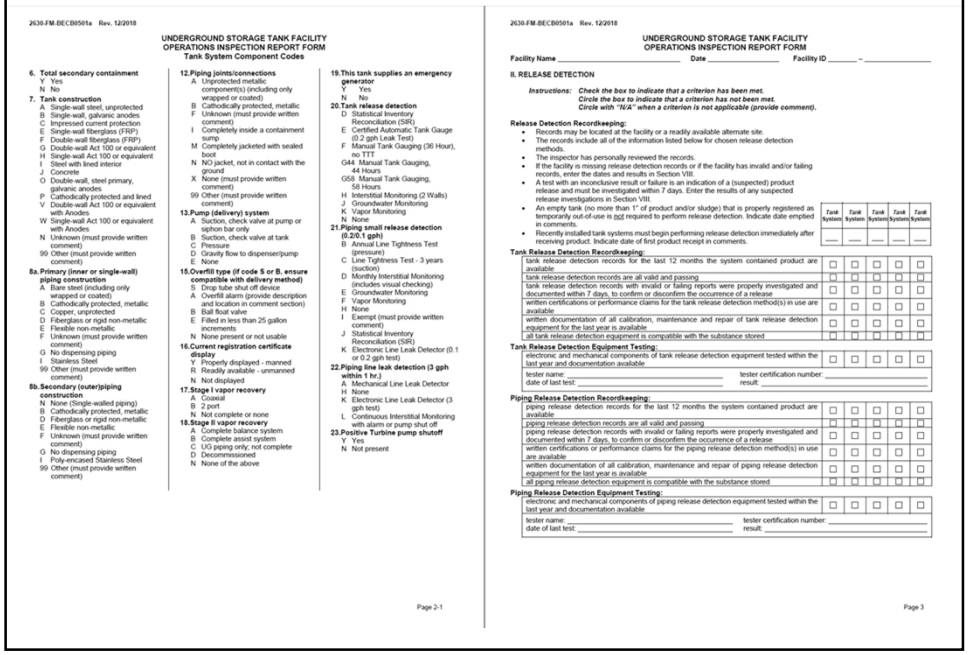
	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.	DEP Use
1. Tank capacity (name plate gallons)						
2. Substance currently stored (and grade)						
3. Installation date (mm/yyyy)						
4. This drone tank is manifolded to tank number						
5a. Stick reading of product level, in inches, at time of inspection						
5b. Stick reading of water level, in inches, at time of inspection						
6. Total secondary containment on this tank system						(16)
7. Tank construction and corrosion protection [1, 3]						(1)
8a. Primary (inner or single-wall) piping construction [1, 2]						(2)
8b. Secondary (outer) piping construction [1, 2]						(PEND)
9a. Number of tank top sumps [4]						(21)
9b. Number of tank top sumps tested tight [4]						
10a. Number of transition sumps						
10b. Number of transition sumps tested tight						(PEND)
11a. Number of connected dispensers						
11b. Number of connected dispensers with pans						(22)
11c. Number of dispenser pans tested tight						
12a. Piping joints/connections construction at tank [1, 5]						(PFLX)
12b. Piping joints/connections construction at dispenser [1, 5]						(PFLX)
13. Pump (product dispensing) system						(4)
14a. Number of spill containments (must be permanently installed)						(6)
14b. Number of spill containments tested tight						
15. Overfill type (must be permanently installed)						(7)
16. Current registration certificate displayed/readily available						(8)
17. Stage I vapor recovery						(19)
18. Stage II vapor recovery						(20)
19. This tank supplies an emergency generator						(PEND)
Evaluate the tank system release detection methods carefully before filling in the following rows.						
20. Tank release detection						(12)
21. Piping small release detection (0.2 gph monthly or 0.1 gph annually)						(5)
22. Pressure (line 13 is C or D) piping line leak detector (LLD Function – 3 gph at 10 lbs psi or equivalent within 1 hr)						(PEND)
23. LLD function includes a positive turbine pump shutoff [6]						(23)

[1] Use of codes indicating a component is Unknown should be accompanied with comments in Section VIII and must be marked Noncompliant for the appropriate tank system compliance status in the Inspection summary on Page 1.
[2] indicate manufacturer, model, and generation (if applicable) in Section VIII.
[3] indicate manufacturer and construction in Section VIII.
[4] at tank penetrations that have pipe that routinely contains or conveys product.
[5] LLD function can mean either the LLD function reported on line 22 or another LLD function used to provide positive turbine pump shutoff.
[6] Use of code (X – None) or (99 – Other) should include comments in Section VIII.

Site drawing / manifold schematic (not master-drone system):

Page 2

2018 UPDATED FORM



2630-FM-BECB0501a Rev. 12/2018

UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM
Tank System Component Codes

6. Total secondary containment
Y Yes
N No

7. Tank construction
A Single-wall steel, unprotected
B Single-wall, galvanic anodes
C Impressed current protection
E Single-wall fiberglass (FRP)
F Double-wall fiberglass (FRP)
G Double-wall Act 100 or equivalent
H Single-wall Act 100 or equivalent
I Steel with lined interior
J Concrete
O Double-wall, steel primary, galvanic anodes
P Cathodically protected and lined
V Double-wall Act 100 or equivalent with Anodes
W Single-wall Act 100 or equivalent with Anodes
N Unknown (must provide written comment)
99 Other (must provide written comment)

8a. Primary (inner or single-wall) piping construction
A Bare steel (including only wrapped or coated)
B Cathodically protected, metallic
C Copper, unprotected
D Fiberglass or rigid non-metallic
E Flexible non-metallic
F Unknown (must provide written comment)
G No dispensing piping
I Stainless Steel
99 Other (must provide written comment)

8b. Secondary (outer)piping construction
N None (Single-walled piping)
B Cathodically protected, metallic
D Fiberglass or rigid non-metallic
E Flexible non-metallic
F Unknown (must provide written comment)
G No dispensing piping
I Poly-encased Stainless Steel
99 Other (must provide written comment)

12. Piping joints/connections
A Unprotected metallic component(s) (including only wrapped or coated)
B Cathodically protected, metallic
F Unknown (must provide written comment)
I Completely inside a containment sump
M Completely jacketed with sealed boot
N NO jacket, not in contact with the ground
X None (must provide written comment)
99 Other (must provide written comment)

13. Pump (delivery) system
A Suction, check valve at pump or siphon bar only
B Suction, check valve at tank
C Pressure
D Gravity flow to dispenser/pump
E None

15. Overfill type (if code S or B, ensure compatible with delivery method)
S Drop tube shut off device
A Overfill alarm (provide description and location in comment section)
B Ball float valve
E Filled in less than 25 gallon increments
N None present or not usable

16. Current registration certificate display
Y Properly displayed - manned
R Readily available - unmanned
N Not displayed

17. Stage I vapor recovery
A Coaxial
B 2 port
N Not complete or none

18. Stage II vapor recovery
A Complete balance system
B Complete assist system
C UG piping only; not complete
D Decommissioned
N None of the above

19. This tank supplies an emergency generator
Y Yes
N No

20. Tank release detection
D Statistical Inventory Reconciliation (SIR)
E Certified Automatic Tank Gauge (0.2 gph Leak Test)
F Manual Tank Gauging (36 Hour), no TTT
G44 Manual Tank Gauging, 44 Hours
G58 Manual Tank Gauging, 58 Hours
H Interstitial Monitoring (2 Walls)
J Groundwater Monitoring
K Vapor Monitoring
N None

21. Piping small release detection (0.2/0.1 gph)
B Annual Line Tightness Test (pressure)
C Line Tightness Test - 3 years (suction)
D Monthly Interstitial Monitoring (includes visual checking)
E Groundwater Monitoring
F Vapor Monitoring
H None
I Exempt (must provide written comment)
J Statistical Inventory Reconciliation (SIR)
K Electronic Line Leak Detector (0.1 or 0.2 gph test)

22. Piping line leak detection (3 gph within 1 hr.)
A Mechanical Line Leak Detector
H None
K Electronic Line Leak Detector (3 gph test)
L Continuous Interstitial Monitoring with alarm or pump shut off

23. Positive Turbine pump shutoff
Y Yes
N Not present

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UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

Facility Name _____ Date _____ Facility ID _____ – _____

II. RELEASE DETECTION

Instructions: Check the box to indicate that a criterion has been met.
Circle the box to indicate that a criterion has not been met.
Circle with "N/A" when a criterion is not applicable (provide comment).

Release Detection Recordkeeping:
- Records may be located at the facility or a readily available alternate site.
- The records include all of the information listed below for chosen release detection methods.
- The inspector has personally reviewed the records.
- If the facility is missing release detection records or if the facility has invalid and/or failing records, enter the dates and results in Section VIII.
- A test with an inconclusive result or failure is an indication of a (suspected) product release and must be investigated within 7 days. Enter the results of any suspected release investigations in Section VIII.
- An empty tank (no more than 1" of product and/or sludge) that is properly registered as temporarily out-of-use is not required to perform release detection. Indicate date emptied in comments.
- Recently installed tank systems must begin performing release detection immediately after receiving product. Indicate date of first product receipt in comments.

	Tank System	Tank System	Tank System	Tank System	Tank System
	___	___	___	___	___

Tank Release Detection Recordkeeping:

tank release detection records for the last 12 months the system contained product are available	☐	☐	☐	☐	☐
tank release detection records are all valid and passing	☐	☐	☐	☐	☐
tank release detection records with invalid or failing reports were properly investigated and documented within 7 days, to confirm or disconfirm the occurrence of a release	☐	☐	☐	☐	☐
written certifications or performance claims for the tank release detection method(s) in use are available	☐	☐	☐	☐	☐
written documentation of all calibration, maintenance and repair of tank release detection equipment for the last year is available	☐	☐	☐	☐	☐
all tank release detection equipment is compatible with the substance stored	☐	☐	☐	☐	☐

Tank Release Detection Equipment Testing:

electronic and mechanical components of tank release detection equipment tested within the last year and documentation available	☐	☐	☐	☐	☐

tester name: _____ tester certification number: _____
date of last test: _____ result: _____

Piping Release Detection Recordkeeping:

piping release detection records for the last 12 months the system contained product are available	☐	☐	☐	☐	☐
piping release detection records are all valid and passing	☐	☐	☐	☐	☐
piping release detection records with invalid or failing reports were properly investigated and documented within 7 days, to confirm or disconfirm the occurrence of a release	☐	☐	☐	☐	☐
written certifications or performance claims for the piping release detection method(s) in use are available	☐	☐	☐	☐	☐
written documentation of all calibration, maintenance and repair of piping release detection equipment for the last year is available	☐	☐	☐	☐	☐
all piping release detection equipment is compatible with the substance stored	☐	☐	☐	☐	☐

Piping Release Detection Equipment Testing:

electronic and mechanical components of piping release detection equipment tested within the last year and documentation available	☐	☐	☐	☐	☐

tester name: _____ tester certification number: _____
date of last test: _____ result: _____

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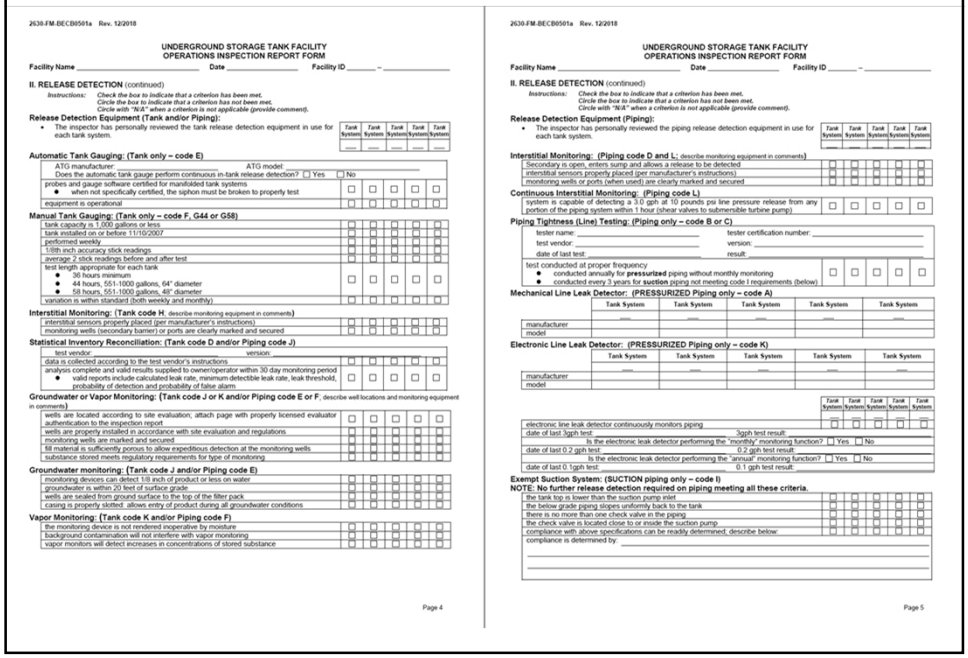
2018 UPDATED FORM



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UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

Facility Name _____ Date _____ Facility ID _____ – _____

II. RELEASE DETECTION (continued)

Instructions: Check the box to indicate that a criterion has been met.
Circle the box to indicate that a criterion has not been met.
Circle with "N/A" when a criterion is not applicable (provide comment).

Release Detection Equipment (Tank and/or Piping):
- The inspector has personally reviewed the tank release detection equipment in use for each tank system.

	Tank System	Tank System	Tank System	Tank System	Tank System
	___	___	___	___	___

Automatic Tank Gauging: (Tank only – code E)

ATG manufacturer: _____ ATG model: _____
Does the automatic tank gauge perform continuous in-tank release detection? ☐ Yes ☐ No

probes and gauge software certified for manifolded tank systems ● when not specifically certified, the siphon must be broken to properly test	☐	☐	☐	☐	☐
equipment is operational	☐	☐	☐	☐	☐

Manual Tank Gauging: (Tank only – code F, G44 or G58)

tank capacity is 1,000 gallons or less	☐	☐	☐	☐	☐
tank installed on or before 11/10/2007	☐	☐	☐	☐	☐
performed weekly	☐	☐	☐	☐	☐
1/8th inch accuracy stick readings	☐	☐	☐	☐	☐
average 2 stick readings before and after test	☐	☐	☐	☐	☐
test length appropriate for each tank ● 36 hours minimum ● 44 hours, 551-1000 gallons, 64" diameter ● 58 hours, 551-1000 gallons, 48" diameter	☐	☐	☐	☐	☐
variation is within standard (both weekly and monthly)	☐	☐	☐	☐	☐

Interstitial Monitoring: (Tank code H, describe monitoring equipment in comments**)**

interstitial sensors properly placed (per manufacturer's instructions)	☐	☐	☐	☐	☐
monitoring wells (secondary barrier) or ports are clearly marked and secured	☐	☐	☐	☐	☐

Statistical Inventory Reconciliation: (Tank code D and/or Piping code J)

test vendor: _____ version: _____

data is collected according to the test vendor's instructions	☐	☐	☐	☐	☐
analysis complete and valid results supplied to owner/operator within 30 day monitoring period ● valid reports include calculated leak rate, minimum detectible leak rate, leak threshold, probability of detection and probability of false alarm	☐	☐	☐	☐	☐

Groundwater or Vapor Monitoring: (Tank code J or K and/or Piping code E or F, describe well locations and monitoring equipment in comments**)**

wells are located according to site evaluation; attach page with properly licensed evaluator authentication to the inspection report	☐	☐	☐	☐	☐
wells are properly installed in accordance with site evaluation and regulations	☐	☐	☐	☐	☐
monitoring wells are marked and secured	☐	☐	☐	☐	☐
fill material is sufficiently porous to allow expeditious detection at the monitoring wells	☐	☐	☐	☐	☐
substance stored meets regulatory requirements for type of monitoring	☐	☐	☐	☐	☐

Groundwater monitoring: (Tank code J and/or Piping code E)

monitoring devices can detect 1/8 inch of product or less on water	☐	☐	☐	☐	☐
groundwater is within 20 feet of surface grade	☐	☐	☐	☐	☐
wells are sealed from ground surface to the top of the filter pack	☐	☐	☐	☐	☐
casing is properly slotted allows entry of product during all groundwater conditions	☐	☐	☐	☐	☐

Vapor Monitoring: (Tank code K and/or Piping code F)

the monitoring device is not rendered inoperative by moisture	☐	☐	☐	☐	☐
background contamination will not interfere with vapor monitoring	☐	☐	☐	☐	☐
vapor monitors will detect increases in concentrations of stored substance	☐	☐	☐	☐	☐

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UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

Facility Name _____ Date _____ Facility ID _____ – _____

II. RELEASE DETECTION (continued)

Instructions: Check the box to indicate that a criterion has been met.
Circle the box to indicate that a criterion has not been met.
Circle with "N/A" when a criterion is not applicable (provide comment).

Release Detection Equipment (Piping):
- The inspector has personally reviewed the piping release detection equipment in use for each tank system.

	Tank System	Tank System	Tank System	Tank System	Tank System
	___	___	___	___	___

Interstitial Monitoring: (Piping code D and L; describe monitoring equipment in comments**)**

Secondary is open, enters sump and allows a release to be detected	☐	☐	☐	☐	☐
interstitial sensors properly placed (per manufacturer's instructions)	☐	☐	☐	☐	☐
monitoring wells or ports (when used) are clearly marked and secured	☐	☐	☐	☐	☐

Continuous Interstitial Monitoring: (Piping code L)

system is capable of detecting a 3.0 gph at 10 pounds psi line pressure release from any portion of the piping system within 1 hour (shear valves to submersible turbine pump)	☐	☐	☐	☐	☐

Piping Tightness (Line) Testing: (Piping only – code B or C)

tester name: _____ tester certification number: _____
test vendor: _____ version: _____
date of last test: _____ result: _____

test conducted at proper frequency ● conducted annually for **pressurized** piping without monthly monitoring ● conducted every 3 years for **suction** piping not meeting code I requirements (below)	☐	☐	☐	☐	☐

Mechanical Line Leak Detector: (PRESSURIZED Piping only – code A)

	Tank System	Tank System	Tank System	Tank System	Tank System
manufacturer	___	___	___	___	___
model					

Electronic Line Leak Detector: (PRESSURIZED Piping only – code K)

	Tank System	Tank System	Tank System	Tank System	Tank System
manufacturer	___	___	___	___	___
model					

	Tank System	Tank System	Tank System	Tank System	Tank System
	___	___	___	___	___
electronic line leak detector continuously monitors piping	☐	☐	☐	☐	☐
date of last 3gph test: _____ 3gph test result: _____					
Is the electronic leak detector performing the "monthly" monitoring function? ☐ Yes ☐ No					
date of last 0.2 gph test: _____ 0.2 gph test result: _____					
Is the electronic leak detector performing the "annual" monitoring function? ☐ Yes ☐ No					
date of last 0.1gph test: _____ 0.1 gph test result: _____					

Exempt Suction System: (SUCTION piping only – code I)
NOTE: No further release detection required on piping meeting all these criteria.

the tank top is lower than the suction pump inlet	☐	☐	☐	☐	☐
the below grade piping slopes uniformly back to the tank	☐	☐	☐	☐	☐
there is no more than one check valve in the piping	☐	☐	☐	☐	☐
the check valve is located close to or inside the suction pump	☐	☐	☐	☐	☐
compliance with above specifications can be readily determined; describe below:	☐	☐	☐	☐	☐

compliance is determined by: _____

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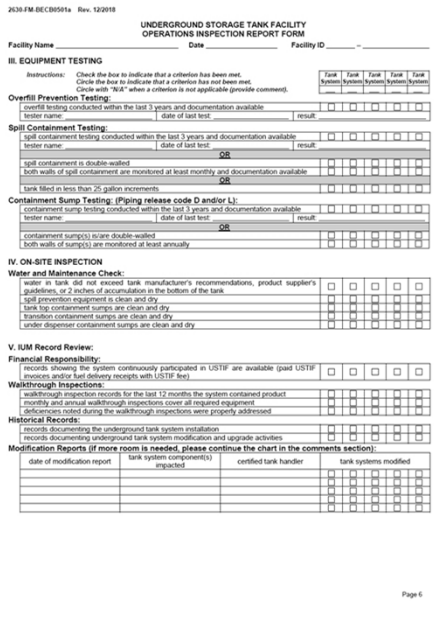

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UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

Facility Name _____ Date _____ Facility ID _____ – _____

III. EQUIPMENT TESTING

Instructions: Check the box to indicate that a criterion has been met. Circle the box to indicate that a criterion has not been met. Circle with "N/A" when a criterion is not applicable (provide comment).

	Tank System:	Tank System:	Tank System:	Tank System:	Tank System:

Overfill Prevention Testing:

overfill testing conducted within the last 3 years and documentation available	☐	☐	☐	☐	☐	
tester name: _____ date of last test: _____ result: _____						

Spill Containment Testing:

spill containment testing conducted within the last 3 years and documentation available	☐	☐	☐	☐	☐	
tester name: _____ date of last test: _____ result: _____						
OR						
spill containment is double-walled	☐	☐	☐	☐	☐	
both walls of spill containment are monitored at least monthly and documentation available	☐	☐	☐	☐	☐	
OR						
tank filled in less than 25 gallon increments	☐	☐	☐	☐	☐	

Containment Sump Testing: (Piping release code D and/or L):

containment sump testing conducted within the last 3 years and documentation available	☐	☐	☐	☐	☐	
tester name: _____ date of last test: _____ result: _____						
OR						
containment sump(s) is/are double-walled	☐	☐	☐	☐	☐	
both walls of sump(s) are monitored at least annually	☐	☐	☐	☐	☐	

IV. ON-SITE INSPECTION

Water and Maintenance Check:

water in tank did not exceed tank manufacturer's recommendations, product supplier's guidelines, or 2 inches of accumulation in the bottom of the tank	☐	☐	☐	☐	☐
spill prevention equipment is clean and dry	☐	☐	☐	☐	☐
tank top containment sumps are clean and dry	☐	☐	☐	☐	☐
transition containment sumps are clean and dry	☐	☐	☐	☐	☐
under dispenser containment sumps are clean and dry	☐	☐	☐	☐	☐

V. IUM Record Review:

Financial Responsibility:

records showing the system continuously participated in USTIF are available (paid USTIF invoices and/or fuel delivery receipts with USTIF fee)	☐	☐	☐	☐	☐

Walkthrough Inspections:

walkthrough inspection records for the last 12 months the system contained product	☐	☐	☐	☐	☐
monthly and annual walkthrough inspections cover all required equipment	☐	☐	☐	☐	☐
deficiencies noted during the walkthrough inspections were properly addressed	☐	☐	☐	☐	☐

Historical Records:

records documenting the underground tank system installation	☐	☐	☐	☐	☐
records documenting underground tank system modification and upgrade activities	☐	☐	☐	☐	☐

Modification Reports (if more room is needed, please continue the chart in the comments section):

date of modification report	tank system component(s) impacted	certified tank handler	tank systems modified				
			☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐

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UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

Facility Name _____ Date _____ Facility ID _____ – _____

VI. CORROSION PROTECTION COMPLIANCE CRITERIA

- The UST Cathodic Protection System Evaluation Form(s) (2630-FM-BECB0610) must be attached to this report for the two most recent corrosion protection tests, if testing was conducted after December 22, 2018.

Instructions: Check the box to indicate that a criterion has been met. Circle the box to indicate that a criterion has not been met. Circle with "N/A" when a criterion is not applicable (provide comment).

	Tank System:	Tank System:	Tank System:	Tank System:	Tank System:

Lined Tanks: (Tank only – code I)

tank inspected and lined according to national standard date lined: _____	☐	☐	☐	☐	☐
tank initially inspected 10 years after lining and every 5 years thereafter dates inspected: _____	☐	☐	☐	☐	☐

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

tank structure to soil potential is equal to or more negative than -850 mV, **or** meets other nationally recognized protection standard: specify: _____	☐	☐	☐	☐	☐
most recent tank CP survey (date) _____	___	___	___	___	___
previous tank CP survey (date) _____	___	___	___	___	___
pipe/flex structure to soil potential is equal to or more negative than -0850 mV, **or** meets other nationally recognized protection standard: specify: _____	☐	☐	☐	☐	☐
most recent **pipe/flex** CP survey (date) _____	___	___	___	___	___
previous **pipe/flex** CP survey (date) _____	___	___	___	___	___

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

system was designed by a corrosion expert	☐	☐	☐	☐	☐
system is turned on and functioning within design limits	☐	☐	☐	☐	☐
any variation of ± 10% of the initial amperage readings have been properly investigated	☐	☐	☐	☐	☐
documentation of last three amp readings (plus volt and runtime when meters available), 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: _____

Assessment Method: _____

VII. Operator Training

- ☐ list of trained operators designates a class A operator and they have their Class A operator training certificate
- ☐ list of trained operators designates a class B operator and they have their Class B operator training certificate
- ☐ list of trained operators designates class C operator(s) and the date of their initial training or last refresher is within the previous 12 months
- ☐ written instructions and notification procedures are readily available for class C operators at retail facilities OR are posted in a location visible to the storage tank user at non-retail facilities

DESCRIBE INFORMAL TRAINING PROVIDED FOR OWNER, CLASS A AND/OR CLASS B OPERATORS – see instructions.

_____
_____
_____
_____
_____

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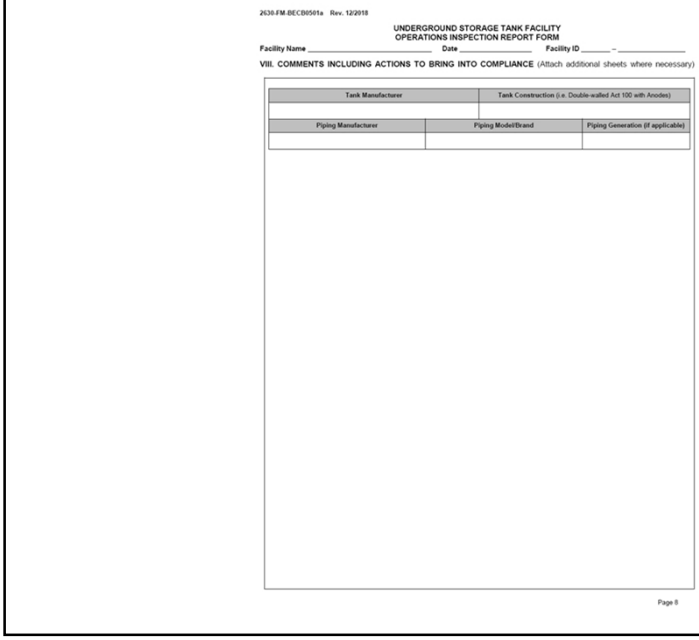

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UNDERGROUND STORAGE TANK FACILITY
OPERATIONS INSPECTION REPORT FORM

Facility Name _____ Date _____ Facility ID _____ – _____

VIII. COMMENTS INCLUDING ACTIONS TO BRING INTO COMPLIANCE (Attach additional sheets where necessary)

Tank Manufacturer	Tank Construction (i.e. Double-walled Act 100 with Anodes)

Piping Manufacturer	Piping Model/Brand	Piping Generation (if applicable)

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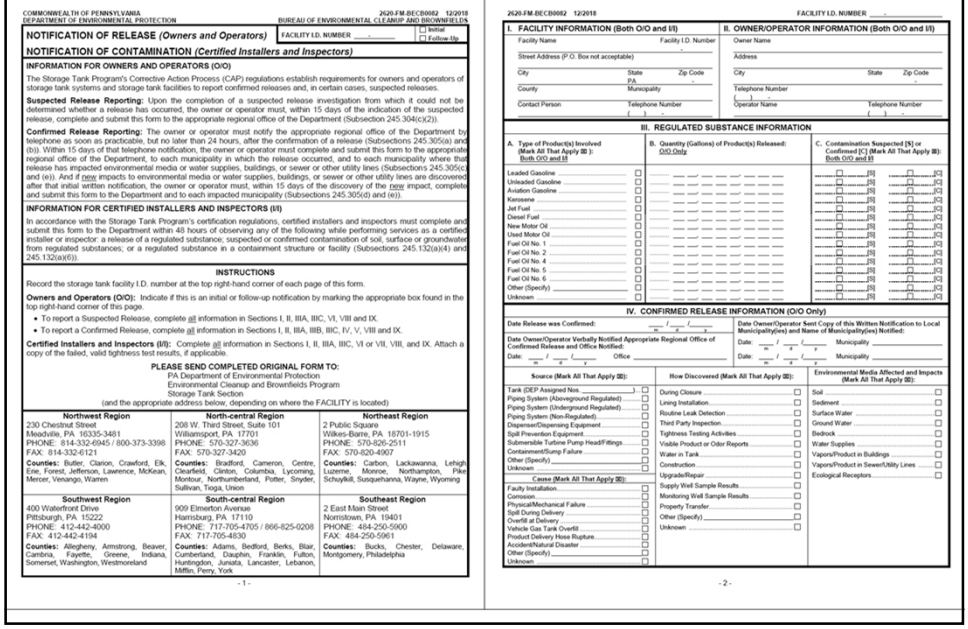
2018 UPDATED FORM



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

2620-FM-BECB0082 12/2018
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

NOTIFICATION OF RELEASE *(Owners and Operators)* | FACILITY I.D. NUMBER ____-____ | ☐ Initial ☐ Follow-Up

NOTIFICATION OF CONTAMINATION *(Certified Installers and Inspectors)*

INFORMATION FOR OWNERS AND OPERATORS (O/O)

The Storage Tank Program's Corrective Action Process (CAP) regulations establish requirements for owners and operators of storage tank systems and storage tank facilities to report confirmed releases and, in certain cases, suspected releases.

Suspected Release Reporting: Upon the completion of a suspected release investigation from which it could not be determined whether a release has occurred, the owner or operator must, within 15 days of the indication of the suspected release, complete and submit this form to the appropriate regional office of the Department (Subsection 245.304(c)(2)).

Confirmed Release Reporting: The owner or operator must notify the appropriate regional office of the Department by telephone as soon as practicable, but no later than 24 hours, after the confirmation of a release (Subsections 245.305(a) and (b)). Within 15 days of that telephone notification, the owner or operator must complete and submit this form to the appropriate regional office of the Department, to each municipality in which the release occurred, and to each municipality where that release has impacted environmental media or water supplies, buildings, or sewer or other utility lines (Subsections 245.305(c) and (e)). And if new impacts to environmental media or water supplies, buildings, or sewer or other utility lines are discovered after that initial written notification, the owner or operator must, within 15 days of the discovery of the new impact, complete and submit this form to the Department and to each impacted municipality (Subsections 245.305(d) and (e)).

INFORMATION FOR CERTIFIED INSTALLERS AND INSPECTORS (I/I)

In accordance with the Storage Tank Program's certification regulations, certified installers and inspectors must complete and submit this form to the Department within 48 hours of observing any of the following while performing services as a certified installer or inspector: a release of a regulated substance; suspected or confirmed contamination of soil, surface or groundwater from regulated substances; or a regulated substance in a containment structure or facility (Subsections 245.132(a)(4) and 245.132(a)(6)).

INSTRUCTIONS

Record the storage tank facility I.D. number at the top right-hand corner of each page of this form.

Owners and Operators (O/O): Indicate if this is an initial or follow-up notification by marking the appropriate box found in the top right-hand corner of this page.

- To report a Suspected Release, complete all information in Sections I, II, IIIA, IIIC, VI, VIII and IX.
- To report a Confirmed Release, complete all information in Sections I, II, IIIA, IIIB, IIIC, IV, V, VIII and IX.

Certified Installers and Inspectors (I/I): Complete all information in Sections I, II, IIIA, IIIC, VI or VII, VIII, and IX. Attach a copy of the failed, valid tightness test results, if applicable.

PLEASE SEND COMPLETED ORIGINAL FORM TO:
PA Department of Environmental Protection
Environmental Cleanup and Brownfields Program
Storage Tank Section
(and the appropriate address below, depending on where the FACILITY is located)

Northwest Region	North-central Region	Northeast Region
230 Chestnut Street Meadville, PA 16335-3481 PHONE: 814-332-6945 / 800-373-3398 FAX: 814-332-6121 **Counties:** Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren	208 W. Third Street, Suite 101 Williamsport, PA 17701 PHONE: 570-327-3636 FAX: 570-327-3420 **Counties:** Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union	2 Public Square Wilkes-Barre, PA 18701-1915 PHONE: 570-826-2511 FAX: 570-820-4907 **Counties:** Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming
Southwest Region	**South-central Region**	**Southeast Region**
400 Waterfront Drive Pittsburgh, PA 15222 PHONE: 412-442-4000 FAX: 412-442-4194 **Counties:** Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland	909 Elmerton Avenue Harrisburg, PA 17110 PHONE: 717-705-4705 / 866-825-0208 FAX: 717-705-4830 **Counties:** Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York	2 East Main Street Norristown, PA 19401 PHONE: 484-250-5900 FAX: 484-250-5961 **Counties:** Bucks, Chester, Delaware, Montgomery, Philadelphia

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2620-FM-BECB0082 12/2018 FACILITY I.D. NUMBER ____-____

I. FACILITY INFORMATION (Both O/O and I/I)

Facility Name | Facility I.D. Number
Street Address (P.O. Box not acceptable)
City | State PA | Zip Code
County | Municipality
Contact Person | Telephone Number ( ) -

II. OWNER/OPERATOR INFORMATION (Both O/O and I/I)

Owner Name
Address
City | State | Zip Code
Telephone Number ( ) -
Operator Name | Telephone Number ( ) -

III. REGULATED SUBSTANCE INFORMATION

A. Type of Product(s) Involved (Mark All That Apply ☒): Both O/O and I/I	B. Quantity (Gallons) of Product(s) Released: O/O Only	C. Contamination Suspected [S] or Confirmed [C] (Mark All That Apply ☒): Both O/O and I/I
Leaded Gasoline ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Unleaded Gasoline ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Aviation Gasoline ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Kerosene ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Jet Fuel ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Diesel Fuel ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
New Motor Oil ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Used Motor Oil ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Fuel Oil No. 1 ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Fuel Oil No. 2 ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Fuel Oil No. 4 ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Fuel Oil No. 5 ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Fuel Oil No. 6 ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Other (Specify) ____ ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]
Unknown ☐	____,____,____,____,____,____,____	☐ [S] ☐ [C]

IV. CONFIRMED RELEASE INFORMATION (O/O Only)

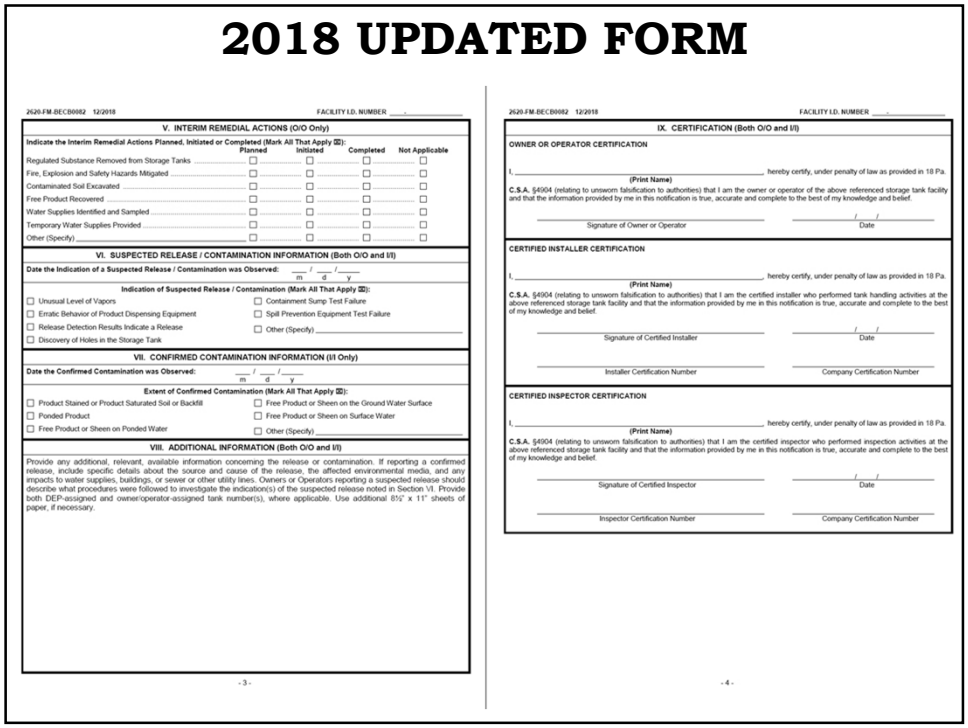
Date Release was Confirmed: ___/___/___ (m/d/y)

Date Owner/Operator Verbally Notified Appropriate Regional Office of Confirmed Release and Office Notified:
Date: ___/___/___ Office ____

Date Owner/Operator Sent Copy of this Written Notification to Local Municipality(ies) and Name of Municipality(ies) Notified:
Date: ___/___/___ Municipality ____
Date: ___/___/___ Municipality ____

Source (Mark All That Apply ☒):	How Discovered (Mark All That Apply ☒):	Environmental Media Affected and Impacts (Mark All That Apply ☒):
Tank (DEP Assigned Nos. ____) ☐	During Closure ☐	Soil ☐
Piping System (Aboveground Regulated) ☐	Lining Installation ☐	Sediment ☐
Piping System (Underground Regulated) ☐	Routine Leak Detection ☐	Surface Water ☐
Piping System (Non-Regulated) ☐	Third Party Inspection ☐	Ground Water ☐
Dispenser/Dispensing Equipment ☐	Tightness Testing Activities ☐	Bedrock ☐
Spill Prevention Equipment ☐	Visible Product or Odor Reports ☐	Water Supplies ☐
Submersible Turbine Pump Head/Fittings ☐	Water in Tank ☐	Vapors/Product in Buildings ☐
Containment/Sump Failure ☐	Construction ☐	Vapors/Product in Sewer/Utility Lines ☐
Other (Specify) ____ ☐	Upgrade/Repair ☐	Ecological Receptors ☐
Unknown ☐	Supply Well Sample Results ☐	
Cause (Mark All That Apply ☒):	Monitoring Well Sample Results ☐	
Faulty Installation ☐	Property Transfer ☐	
Corrosion ☐	Other (Specify) ____ ☐	
Physical/Mechanical Failure ☐	Unknown ☐	
Spill During Delivery ☐		
Overfill at Delivery ☐		
Vehicle Gas Tank Overfill ☐		
Product Delivery Hose Rupture ☐		
Accident/Natural Disaster ☐		
Other (Specify) ____ ☐		
Unknown ☐		

- 2 -



2018 UPDATED FORM

2620-FM-BECB0082 12/2018 FACILITY I.D. NUMBER ____-____

V. INTERIM REMEDIAL ACTIONS (O/O Only)

Indicate the Interim Remedial Actions Planned, Initiated or Completed (Mark All That Apply ☒):

	Planned	Initiated	Completed	Not Applicable
Regulated Substance Removed from Storage Tanks	☐	☐	☐	☐
Fire, Explosion and Safety Hazards Mitigated	☐	☐	☐	☐
Contaminated Soil Excavated	☐	☐	☐	☐
Free Product Recovered	☐	☐	☐	☐
Water Supplies Identified and Sampled	☐	☐	☐	☐
Temporary Water Supplies Provided	☐	☐	☐	☐
Other (Specify) ____	☐	☐	☐	☐

VI. SUSPECTED RELEASE / CONTAMINATION INFORMATION (Both O/O and I/I)

Date the Indication of a Suspected Release / Contamination was Observed: ___/___/___ (m/d/y)

Indication of Suspected Release / Contamination (Mark All That Apply ☒):

- ☐ Unusual Level of Vapors
- ☐ Erratic Behavior of Product Dispensing Equipment
- ☐ Release Detection Results Indicate a Release
- ☐ Discovery of Holes in the Storage Tank
- ☐ Containment Sump Test Failure
- ☐ Spill Prevention Equipment Test Failure
- ☐ Other (Specify) ____

VII. CONFIRMED CONTAMINATION INFORMATION (I/I Only)

Date the Confirmed Contamination was Observed: ___/___/___ (m/d/y)

Extent of Confirmed Contamination (Mark All That Apply ☒):

- ☐ Product Stained or Product Saturated Soil or Backfill
- ☐ Ponded Product
- ☐ Free Product or Sheen on Ponded Water
- ☐ Free Product or Sheen on the Ground Water Surface
- ☐ Free Product or Sheen on Surface Water
- ☐ Other (Specify) ____

VIII. ADDITIONAL INFORMATION (Both O/O and I/I)

Provide any additional, relevant, available information concerning the release or contamination. If reporting a confirmed release, include specific details about the source and cause of the release, the affected environmental media, and any impacts to water supplies, buildings, or sewer or other utility lines. Owners or Operators reporting a suspected release should describe what procedures were followed to investigate the indication(s) of the suspected release noted in Section VI. Provide both DEP-assigned and owner/operator-assigned tank number(s), where applicable. Use additional 8½" x 11" sheets of paper, if necessary.

- 3 -

2620-FM-BECB0082 12/2018 FACILITY I.D. NUMBER ____-____

IX. CERTIFICATION (Both O/O and I/I)

OWNER OR OPERATOR CERTIFICATION

I, ____ (Print Name) hereby certify, under penalty of law as provided in 18 Pa. 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 ___/___/___

CERTIFIED INSTALLER CERTIFICATION

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

CERTIFIED INSPECTOR CERTIFICATION

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

- 4 -

WHEN DO I REPORT?

OWNER & OPERATORS

- Any spill to soil or a waterway is reportable, this includes storm sewers
- A spill to an impervious surface in quantities greater than 25 gallons
- A spill to an impervious surface in quantities less than 25 gallons if you don't meet all 3:
  - Have control of over the release
  - The release is completely contained
  - The total volume of the release is recovered and removed within 24 hours of the release
- A release to a containment sump higher than the bottom of the first penetration
- After a failed or inconclusive investigation of a suspected release

If you make a notification of release to the PADEP you should also notify USTIF

§ 245.304. Investigation and reporting of suspected releases.

(a) The owner or operator of a storage tank system or storage tank facility shall initiate and complete an investigation of a suspected release of a regulated substance as soon as practicable, but no later than 7 days after the indication of a suspected release. An indication of a suspected 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 outside of storage tank system components designed to routinely contain or convey product, at or near 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 system or the unexplained presence of water in a storage tank system.

(5) Test, sampling or monitoring results, including the sounding of an alarm, from a release detection method which indicate a release.

(6) The discovery of holes in or damage to a storage tank system during activities such as inspection, repair or removal from service.

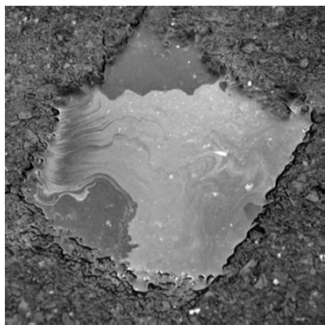
(7) Other events, conditions or results which may indicate a release.

WHEN DO I REPORT?

INSTALLERS & INSPECTORS

- A release (any release regardless of gallons or where it occurred)
- Suspected or confirmed contamination
- A regulated substance observed in a containment structure or facility (make sure your sumps are clean and dry)
- Certified individual performing testing must report a failed test (sump, overfill, spill prevention testing)

A reputable certified company should also remind the owner to call USTIF



HOW DO I REPORT?

NOTICE OF RELEASE

(OWNERS & OPERATORS)

- Verbal notification to the PADEP (and any affected utilities) within 24 hours by owner/operator
- Written notification by owner/operator filed within 15 days to the appropriate regional office and local municipality (Notification of Reportable Release Form)

NOTICE OF CONTAMINATION

(INSTALLERS & INSPECTORS)

- If a certified individual is performing a regulated activity at a facility they are required to report
- A certified individual must submit a written notification within 48 hours (Notification of Contamination Form)
- Make sure to clean your sumps/spill buckets prior to inspection (A certified inspector must make a notification of contamination if we see water/fuel in a sump)

PA DEP FORMS

- All forms, instructions and regulations can be found at:

www.dep.pa.gov

Keyword: Storage Tanks

Or

On the USB drive provide to you as part of this class

RECORDKEEPING REQUIREMENTS

- Records are to be maintained onsite or at a readily available alternative site
- Records are divided into two different types:
  - Permanent (life of the system and/or component plus 1 year)
  - Temporary

PERMANENT RECORDS EXAMPLES

- Corrosion expert's design of your impressed current system, including the site assessment
- Tank system installation, modification and upgrade documents
- Tank system assessment records prior to an upgrade
- Installation testing and commissioning reports required for corrosion protection systems
- UST system repairs, including those in response to a release
- Tank lining evaluation reports
- Department approval for a variance or alternative leak detection method
- Tank closure report

TEMPORARY RECORDS EXAMPLES

- Tank registration certificate
- Tank and pipe release detection records for the past 12 months
- The last annual check/test/maintenance records of leak detection equipment which verify proper functionality
- The last three impressed current system readings (required every 60 days)
- The last 2 CP surveys for CP systems
- The last sump testing records (required every 3 years)
- The previous 12 months of visual inspection logs
- The previous annual inspection log

MODULE 1 & 2 REVIEW

- How many of each operator class must each company have?

  One. A company is required to have at least one Class A, B & C operator

- Who can train a companies Class C operator(s)?

  The class A and B operators

- What is the primary focus of the class C operators training?

  Emergency procedures

- At a manned facility when should a class C operator be onsite?

  During operating hours

- How many hours until a class A or B operator must be onsite after an emergency?

  Within 24 Hours

MODULE 1 & 2 REVIEW

- USTIF claims must be submitted within how many days of discovering the release?

  60 Days

- How much is the USTIF deductible per tank, per occurance?

  Two at $5,000.00/ea. - 3rd party liability & corrective action.

- For record keeping purposes, records fall into two categories, what are they?

  Permanent & Temporary

- How many hours until you must verbally notify DEP about a spill?

  24 hours

- How many days are before you must submit a written notification of contamination form?

  15 Days

MODULE 3
SITE SAFETY
&
EMERGENCY PROCEDURES

HEALTH AND SAFETY

- Hazards
- Safety Equipment
- Safety Training
- Emergency Procedures/Contacts
- Safety Inspections and Checklists

HAZARDS

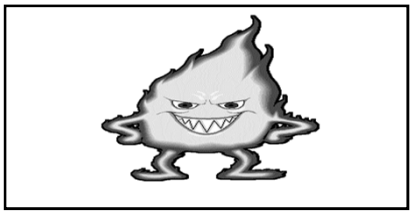
- Traffic
- Fire
- Explosion
- Chemical Exposure
- Weather
- Asphyxiation
- Other people

THE FIRE TRIANGLE

3 fire components:

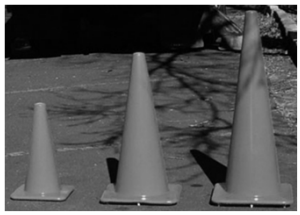
1. Fuel Source
2. Oxygen
3. Ignition Source

A fire can **not** occur unless all three are present. The one most under your control is the ignition source.



PERSONAL SAFETY EQUIPMENT

- Proper footwear
- Safety vest for doing work in the parking lot and/or fueling area
- Safety cones
- All relevant safety contact information should be readily available and part of your emergency procedures
- Communication device



SITE SAFETY EQUIPMENT

- Bollards & island forms – Protection of the dispensers
- Swivels – Protects the hose from twisting and kinking
- Break-aways and shear valves – Help to prevent spills/fire when a dispenser is hit or when a customer drives off with the nozzle still in his tank
- Nozzles – Help prevent spills
- E-stop – Kills power to the fueling area to help prevent fires
- Intercom – Used to communicate with the customer
- Snuffer and fire extinguishers – Used to fight fires

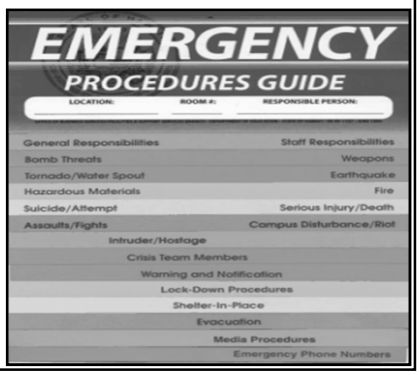
SAFETY TRAINING AND DOCUMENTATION

Your safety training should be part of your Class C operator training

- All employees who work at a facility utilizing a UST system should receive training on the hazards that they will encounter, prevention measures, and emergency procedures
- Training should cover necessary safety equipment and proper use of that equipment
- Emergency procedures and contacts
- Training should cover any site specific issues, ie.. Location of the fire extinguisher, emergency exits, E-stop, etc..

EMERGENCY PROCEDURES

- Emergency Procedures must be posted at every regulated UST facility by June 28, 2010
  - Unattended – Post in location visible to people using the fueling system
  - Attended – Keep at location near the attendant
- Where is the location of the Emergency Stop and how is it operated? Also include the location of exits, spill kits, and fire extinguishers
- Emergency procedures should include appropriate emergency contacts and a list of what notifications need to be made



SAFETY INSPECTIONS & CHECKLISTS

- What site specific items are checked weekly and/or daily at your facility?
- What is required by regulations and what is a good idea for general safety?
- Who is responsible for performing the inspection
- How are the results being documented and how is this documentation being stored?

WORKGROUP #1

- Divide into groups based on facility types:
  - Attended (C-store/repair garage)
  - Unattended sites (Retail/fleet/municipal)

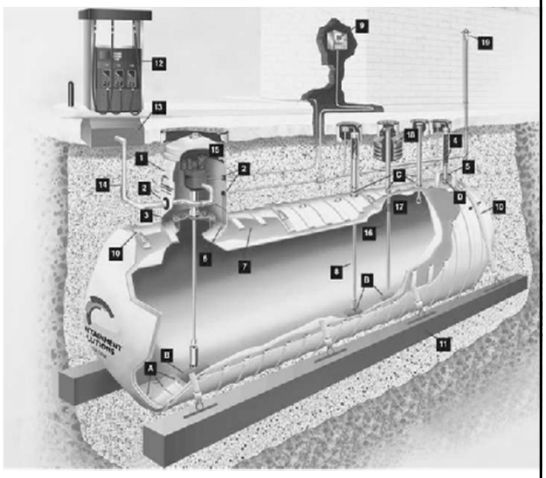
Unattended sites get a 10 min break while Attended sites go over Class C training requirements

Attended sites get a 10 min while unattended sites go over Class C training requirements

MODULE 4
TANK COMPONENTS AND PRODUCT COMPATIBILITY

COMPONENTS OF A FUEL SYSTEM

A. Flow Channels
B. Tank Bottom Deflector Plates
C. Primary Tank Fittings
D. Monitoring Fitting
1. Turbine Enclosure
2. Fitting Kits for Turbine Enclosure
3. Secondary Containment Collar
4. Reservoir Sensor
5. Fiberglass Reservoir
(replaces monitoring fitting)
6. Containment Collar Sensor
7. Monitoring Fluid with Color Tracer
8. Electronic Inventory Gauge
9. Electronic Control Panel
10. Split-Strap Anchor System
11. Deadman Anchor
12. Dispenser
13. Dispenser Sump
14. Double-Wall Pipe
15. Submersible Pump
16. Fill Tube with Overfill Shut-Off
17. Ball Float Valve
18. Overfill Spill Container
19. Primary Tank Vent



EQUIPMENT CATEGORIES

Venting & Vapor Recovery

All tanks must be vented. The vent riser should be made of steel and extend 12' in the air (3' above rooflines)

Stage I - Required on all gas tanks over 2,000 gallons. This is the process of the recovery of vapors from the tank back to the delivery truck.

- Two point connection
- Coaxial connection

Stage II – Was required for gas tanks in certain areas of the State. This is the process of the recovery of vapors from the customers vehicles back to the tank. If a station has Stage II, they must maintain it until it is properly decommissioned per PADEP standards.

Spill & Overfill Protection

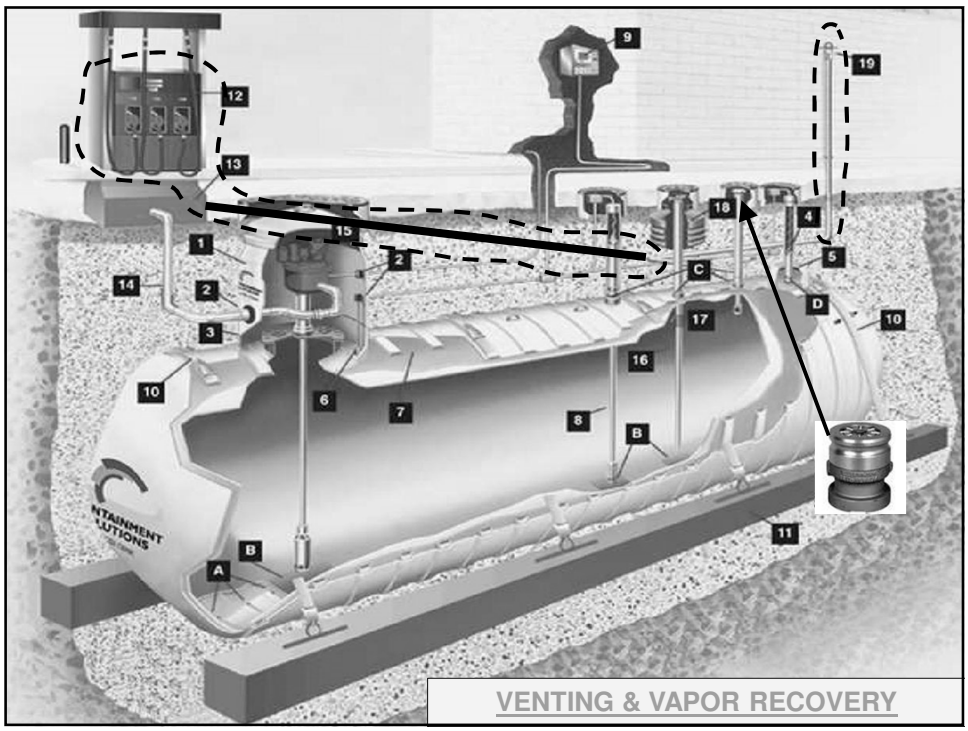
Required on all tanks receiving deliveries of 25 gallons or more at a time

Secondary Containment

Required on all tanks and lines

Release Detection

Required on all tanks and lines this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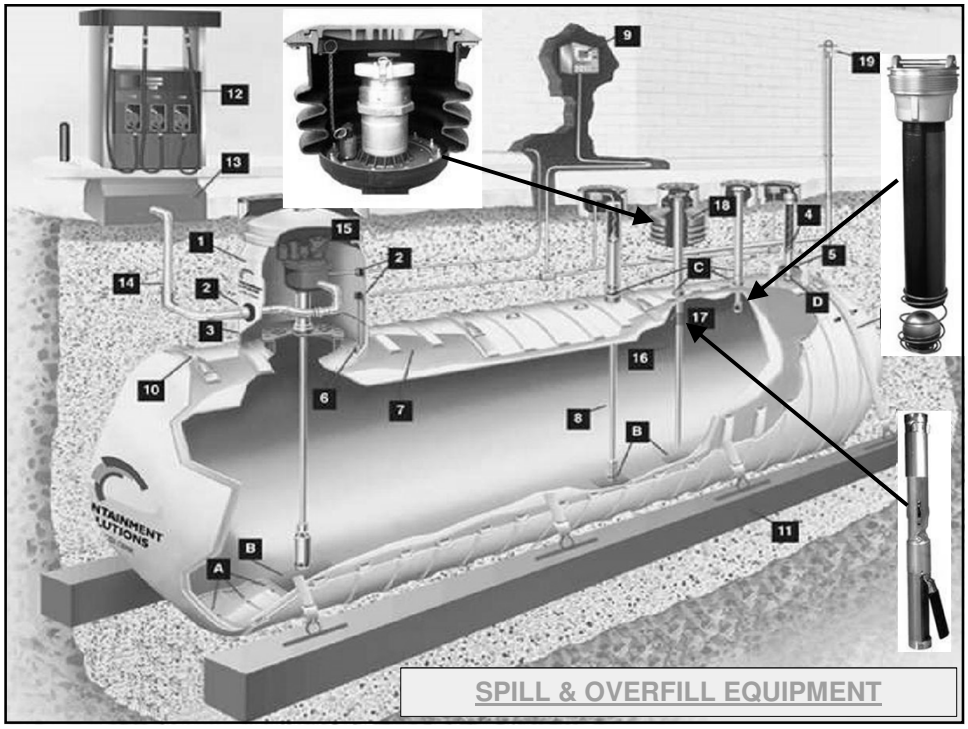
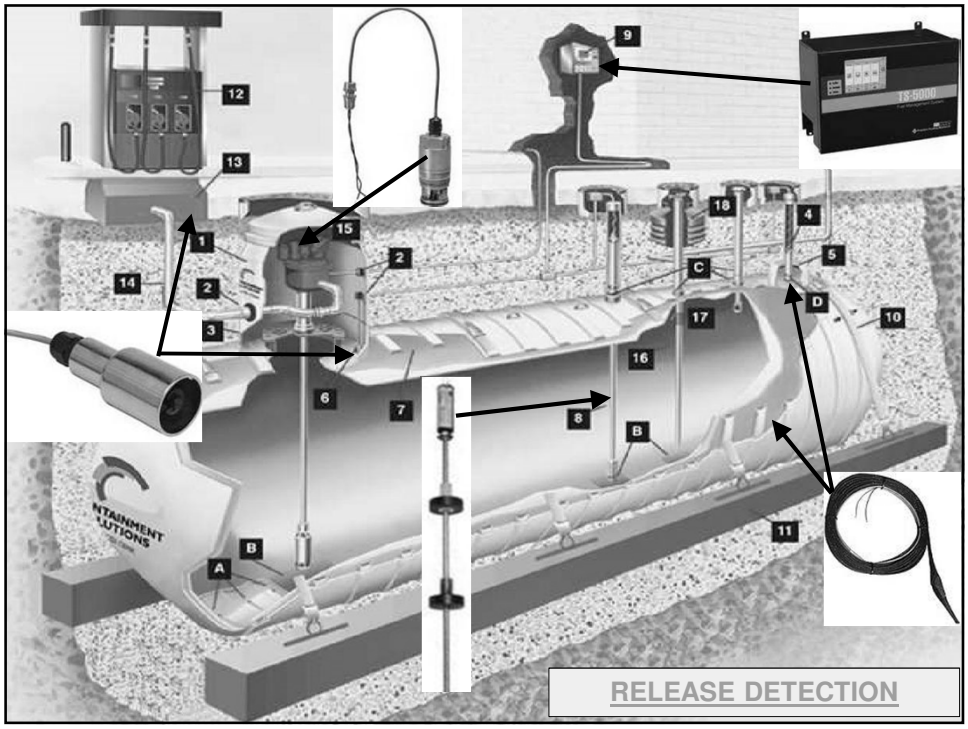
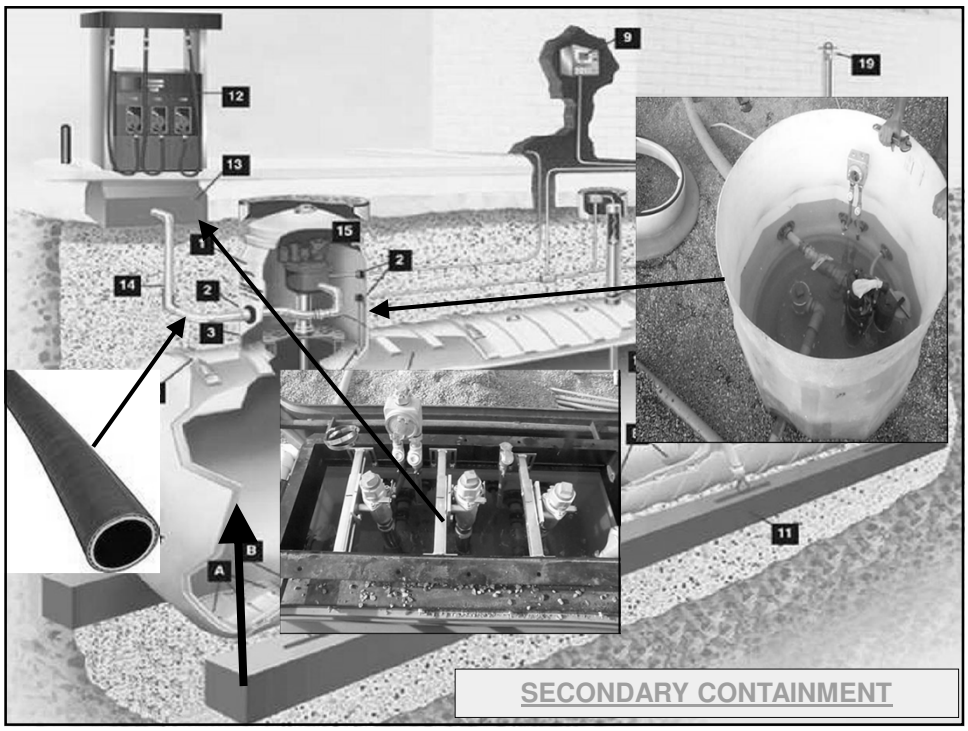
VENTING & VAPOR RECOVERY


SPILL & OVERFILL EQUIPMENT


RELEASE DETECTION



SECONDARY CONTAINMENT SUMPS

- Used to contain releases from double-wall piping and isolate piping components
- New DEP regulations now require containment sumps to be tested upon installation or modification (including piping replacement)
- Testing is commonly performed by flooding the containment area with water and monitoring the level for at least one hour. (called hydrostatic testing)
- Water Level should be at least 4'' above highest sump penetration

SUMP TESTING

- 4 possible kinds of sumps:
  - 1 - Dispenser (sometimes called UDC) – Required for new sites
  - 2 – Tank (sometimes called submersible sump) – Required for new sites
  - 3 – Spill buckets (sometimes called catch basins) – Required for new sites
  - 4 – Transition – Optional, usually found at retrofits
- All sumps must be tested upon installation or repair, then every 3 years

Testing is commonly performed by flooding the containment area with water and monitoring the level for at least one hour. (called hydrostatic testing)

Water Level should be at least 4" above highest sump penetration

TANK COMPONENTS & PRODUCT COMPATIBILITY

- Product compatibility means making sure that all components of your fuel system is compatible with the product being stored and dispensed
- This is much more critical with it comes to high concentration blends of fuel such as E85, E100 and even 100% bio-diesel
- Every component in a UST system must be UL listed for the product that is being stored & dispensed in that system
- UL ratings are available through the manufacturer of the specific component
- This is something that should be taken into account when changing products in a tank system

CHANGING PRODUCT - TIPS

- What if you want to change regulated products in a UST system?
- Ensure that the system is capable (UL listed) for the new product & if it is an older tank system

  HAVE THE TANK THOROUGHLY CLEANED!!!!
- This is especially important when switching from conventional gas to an ethanol blend and from conventional diesel to biodiesel
- Stickers are required on dispensers informing customers of the fuel and its contents
- Water should never be in a tank in the first place. Biodiesel and ethanol blended gasoline are more sensitive to water, possibly causing phase separation or bacterial/fungal growth.

CHANGING PRODUCT - PAPERWORK

- Changing product grades **does not** require DEP notification. i.e.… regular to super, or from conventional to ethanol (10% and less) or from diesel to bio-diesel (5% and less).
- Changing regulated product types **does** require DEP notification using either the registration form or the registration amendment form. i.e.… from gas to diesel or from kerosene to ethanol.
  - If changing to Ethanol >10% or Bio-diesel >5% then a Alternative Fuels Compatibility form must also be submitted.
- Changing from a regulated product to an unregulated product requires a tank closure. i.e.… from gas to heating oil.

MODULE 3 & 4 REVIEW

- By June 28th 2010, what must be posted at each facility with a regulated UST?

  Emergency procedures

- The fire triangle is composed of what 3 elements?

  Fuel, oxygen and ignition source

- What device helps prevent spills/fires if a dispenser is hit?

  Shear valve

- What are the three main items that need to be on your emergency procedures?

  Location and operation of the emergency stop

  A list of emergency contacts

  Notifications that need to be made

MODULE 3 & 4 REVIEW

- What form is required to change regulated product types in a tank?

  Registration form or Registration amendment form

- Stickers are required on dispensers to inform customers of fuel type and _____.

  Blend ratio

- DEP regulations of 12/22/2018 now require sump testing at what frequency?

  Upon installation, repair or replacement, then every 3 years

- All equipment in a UST system must be compatible and _____ listed for the product being stored and dispensed.

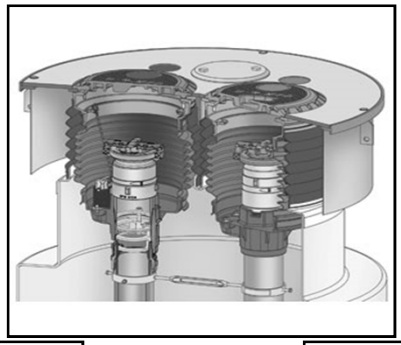
  UL

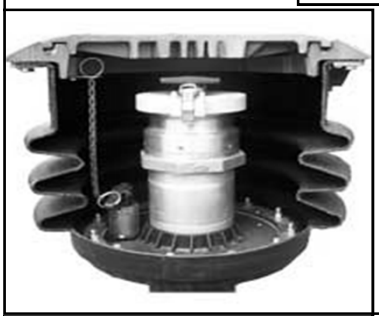
MODULE 5
SPILL & OVERFILL PREVENTION

SPILL CONTAINMENT

- Required on all UST systems filled in amounts greater than 25 gallons
- Spill containment devices are often referred to as spill buckets or catchment basins
- They should have sufficient capacity (~5 gallons) to capture a small amount of product released from a delivery hose and be placed around ports where product is transferred into the UST system (fill ports only, not required at vapor recovery ports)
- Newly installed or modified/replaced spill buckets must be tested (hydrostatic test) at install to show they are liquid tight, then are tested every three years
- The test records should be retained until the unit is retested

SPILL CONTAINMENT





OVERFILL PREVENTION

- Automatically shut off flow into the tank when the tank is no more than 95% full.

OR

- Alert the transfer operator when the tank is no more than 90% full by restricting the flow into the tank or triggering a high-level alarm.

- Three main types: overfill drop tube, ball float and overfill alarm.

- There are two types of deliveries that UST systems receive.
  1. Pressurized
  2. Gravity

- **THE OVERFILL PREVENTION DEVICE / METHOD MUST BE COMPATIBLE WITH THE DELIVERY METHOD!!!!**

OVERFILL PREVENTION- DROP TUBE SHUTOFF DEVICES

- These are commonly referred to as "flappers"
- Action point should be 95% of the tanks capacity at the highest. They can be set lower.
- Most drop-tube shutoff devices are only capable of stopping gravity deliveries.
- Different devices must be used for pressurized deliveries.

OVERFILL PREVENTION DROP-TUBE SHUTOFF DEVICES

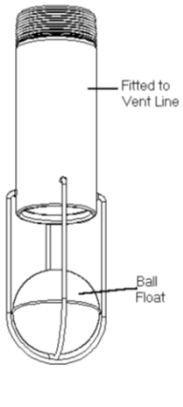
Advantages	Disadvantages
• Easily verified	• Easily bypassed by delivery driver
• Hopefully an easy install (no power needed)	• Must be changed if the customer switches delivery methods

BALL FLOAT VALVES

- Works on the theory that if air can't exit the tank, fuel can't go in
- Action point must be set at 90% or less of the tank's capacity
- Can only be used if they are currently installed and in proper working order
- Can not be installed new and can't be repaired/replaced if existing

BALL FLOAT VALVE

OPEN



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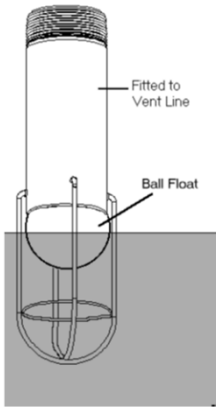


BALL FLOAT VALVES

Advantages

- Low cost

Disadvantages

- Not easily verified
- No one knows if/when it breaks
- Tank can be damaged if it receives a pressurized delivery
- Can be very difficult to remove
- **Cannot not be used on systems with remote fills, coaxial vapor recovery, and suction systems with an air eliminator**

EXTERNAL OVERFILL ALARMS

- Audible and/or visual alarm that notifies the driver when the tank is 90% full
- It must be audible and/or visible to the driver while he or she is making the delivery

EXTERNAL OVERFILL ALARMS

Advantages

- Can be used in all applications
- Easily tested

Disadvantages

- Expensive
  - The annunciator is an add on to the ATG
  - Additional wiring/building penetration
- Does not physically restrict the delivery

MODULE 6
RELEASE DETECTION

RELEASE DETECTION REGULATION REQUIREMENTS

Tank

- 0.2gal/hr monthly test
- Interstitial monitoring
- Interstitial monitoring is required on all USTs installed after November 10, 2007

Pressurized Piping

- 0.2gal/hr monthly test or 0.1gal/hr annual test
- 3.0gal/hr continuous form of release detection which must be tested annually
- Pressurized piping installed after Nov 10, 2007 must have positive shutdown on the 3.0gal/hr method & interstitial monitoring

RELEASE DETECTION REGULATION REQUIREMENTS

American Suction Style Piping

(check valve at both ends or just at the tank end)

- Tightness test every three years

or

- Monthly monitoring of containment sumps at both ends

European or Safe Suction Style

(check valve at dispenser end only)

- This type of system is exempt from line release detection

RELEASE DETECTION REGULATION REQUIREMENTS

If a release is ever suspected, an investigation should be completed as soon as possible but no later than

7 days!!!

If the results of your investigation are inconclusive or show that there was a release, you must then follow the notification of release requirements

TANK INTERSTITIAL MONITORING

- Interstitial monitoring is monitoring the space between the two walls of double wall tanks for signs of a release (*liquid*)
- Must be performed at least once a month
- This can be done by manually sticking the interstice and logging the results or…
- With a sensor between the two walls where a status report is printed or the alarm status is manually logged
- Interstitial monitoring has two main benefits:
  - It is not affected by manifolded systems
  - It is not affected by inventory levels

AUTOMATIC TANK GAUGING

- Automatic tank gauging uses the probe in the tank to perform a 0.2gal/hr test
- This can be done in two ways
  - Static testing is when the fuel is monitored for one period of time over a 2-5 hour period. The tank must not be in operation during this time and this method can not be used on manifolded systems.
  - Continuous monitoring is when the probe tests for smaller amounts of time, while the system is not operating. It compiles the data over time and gives test results. This is a software upgrade for most ATGs (SCALD- Incon; CSLD-Veeder Root). The upgrade makes the ATG able to test manifolded systems. It performs better for sites that operate 24 hours a day and sites that frequently have low volumes in their tanks.

STATISTICAL INVENTORY RECONCILIATION (SIR)

- This must be done through an approved third party vendor
- **Daily** stick readings, sales volumes, and delivery receipts must be very well kept and submitted to the vendor every month
- They compile the data and send a test result
- In addition to providing a monthly 0.2gal/hr tank test, SIR also provides a monthly 0.2gal/hr piping test

The 2018 regulations changes now state that the SIR results are due from your vendor immediately at the end of your 30 day test period

LESS COMMON TANK RELEASE DETECTION METHODS

- Manual tank gauging
  - Only can be used on tanks with a max capacity of 1,000 gal.
  - Procedure for testing must be followed, see section 245.444 for details
  - EPA has a free booklet that can be used for learning how to do manual tank gauging (search for EPA 510-B-93-005)
- Vapor or Liquid monitoring
  - Requires sensors around the tanks in the observation wells
  - Very uncommon method, only 1 site in the state uses this method

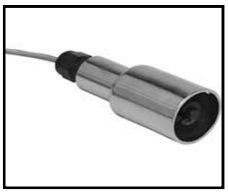
PRESSURIZED PIPING RELEASE DETECTION

- UST systems utilizing pressurized piping are required to have two forms of piping release detection
- The first is a continuous 3.0gal/hr form. A 3.0gal/hr leak would need to be picked up within one hour. This is the "big leak" form.
- The second is a monthly 0.2gal/hr form. A 0.2gal/hr leak must be picked up within a month. This is the "small leak" form.
- A 0.1gal/hr annual test can be substituted for 0.2gal/hr monthly testing

CONTINUOUS 3.0GAL/HR PIPING RELEASE DETECTION

- Leak Detectors: Leak detectors are installed in the submersible pump and monitor pressure inside the line to check for leaks. In the event a leak is detected, they can restrict or shut off the flow of product.
- There are two types:
  - Mechanical (MLLD) – Can only restrict product flow
  - Electronic (ELLD) – Can completely stop the flow of product (positive shutoff)
- All leak detectors must be tested annually by a certified individual

CONTINUOUS 3.0GAL/HR PIPING RELEASE DETECTION



- Compliance via sensor: This can only be performed at facilities with double wall piping and containment sumps at both ends.
- A monthly sensor status report must be printed and kept for at least a year.
- When using sensors for continuous 3.0gal/hr piping release detection, the sensors must be tested annually!

MONTHLY 0.2GAL/HR PIPING RELEASE DETECTION

- This can be done with electronic line leak detectors (Elld's) or SIR
  - Elld's if connected to the tank monitor will require a monthly pass print out for record keeping
  - Stand alone Elld's will require monthly manual logging of a 'pass'
- SIR follows the same procedures as tank release detection

0.1GAL/HR ANNUAL PIPING RELEASE DETECTION

- A 0.1gal/hr annual test can be substituted for monthly 0.2 gal/hr testing. There are two ways of achieving this

1. Some electronic line leak detectors can perform a 0.1 gph test. A passing test print out must be retained
2. An annual line test meets the 0.1gal/hr requirement. This must be performed by a PA DEP UTT certified individual (the annual line test is typically done when you have mechanical leak detectors)

PIPING RELEASE DETECTION

UNMANNED FACILITY EXCEPTION

- All unmanned facilities with pressurized piping, regardless of when it was build, must have a continuous 3.0gal/hr form of piping release detection that automatically shuts off or restricts the flow of product in the event of a release

In other words, you can't use sensors in the sumps tied to just an alarm for your large form of LRD.

RELEASE DETECTION RECORD KEEPING

- Release detection records must be maintained for at least the previous 12 months
- All release detection equipment must be third party certified and the certification is a record that you should have

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- **2018 regulations now require:**
- Monthly visual checks of your spill prevention equipment, fill pipe, fill cap and release detection equipment – This must be documented and retained for the previous 12 months
- Annual visual inspection of all containment sumps for damage and liquid/debris – This must be documented and retained until the next annual inspection

RELEASE DETECTION RECORD KEEPING

§ 245.438. Periodic operation and maintenance walk-through inspections.

(a) To properly operate and maintain spill prevention and release detection equipment part of underground storage tank systems, no later than December 22, 2019, owners and operators shall conduct walkthrough inspections at a minimum of every 30 days, with the exception of spill prevention equipment at underground storage tank systems receiving deliveries at intervals greater than every 30 days, which may be checked prior to each delivery. The walkthrough inspection shall include, at a minimum, all of the following:

(1) For spill prevention equipment:

(i) Visually check for damage.

(ii) Remove liquid or debris.

(iii) Check for and remove obstructions in the fill pipe.

(iv) Check the fill cap to make sure it is securely on the fill pipe.

(v) For double-walled spill prevention equipment with interstitial monitoring, check for a leak in the interstitial area.

(2) For release detection equipment:

(i) Check to make sure the release detection equipment is operating with no alarms or other unusual operating conditions present.

(ii) Ensure records of release detection testing are reviewed and current.

(b) To properly operate and maintain containment sumps and handheld release detection equipment part of underground storage tank systems, no later than December 22, 2019, owners and operators shall conduct walk-through inspections at a minimum of every 12 months that include, at a minimum, all of the following:

(1) For containment sumps:

(i) Visually check for damage and the presence of liquid or debris.

(ii) Remove liquid or debris.

(iii) For double-walled sumps with interstitial monitoring, check for a leak in the interstitial area.

(2) For handheld release detection equipment, check devices such as tank gauge sticks or groundwater bailers for operability and serviceability.

(c) Owners and operators of underground storage tank systems shall ensure operation and maintenance walk-through inspections required under this section are performed in accordance with one of the following criteria, unless the Department determines that a more stringent requirement is necessary to avoid releases of regulated substances from underground storage tank systems:

(1) Requirements developed by the manufacturer.

(2) Code of practice developed by a Nationally recognized association or independent testing laboratory.

(3) Requirements determined by the Department to be no less protective of human health and the environment than the requirements in paragraphs (1) and (2).

Monthly visual inspection requirements:
- ATG
- Spill Buckets

Annual visual inspection requirements:
- Sumps (all sumps, regardless of anything, meaning if it is a sump you must do an annual visual inspection)

MODULE 5 & 6 REVIEW

- UST's filled in increments of _____ gallons or less are exempt from _____ & _____?

  25 gallons are exempt from spill and overfill prevention

- Why can't a ball float be used with pressurized deliveries?

  When the ball closes, the pressurized delivery can rupture the tank

- How can a delivery driver bypass an overfill drop tube?

  By breaking off the tank stick in order to block the flapper valve from closing

- What can't an overfill alarm do?

  Restrict the delivery

- What are the three types of overfill prevention equipment?

  Drop tube shut off devices

  Ball floats

  Overfill alarms

MODULE 5 & 6 REVIEW

- Release detection records must be maintained for how long?

  12 months – one pass per tank/line per month for the last 12 months

- For your small form of line release detection your monthly leak test should be at a leak rate of _____ gallons per hour ?

  0.2 gph (or one annual test at .1gph)

- Your large form of line release detection is a continuous method able to detect a leak rate of _____ gallons per hour?

  3 gph

- Facilities built after 11/10/2007 with complete secondary line containment must perform what monthly?

  Interstitial monitoring

- Within 7 days of a failed release detection test an owner must do what?

  Investigate

MODULE 7
CATHODIC PROTECTION SYSTEMS

CATHODIC PROTECTION – WHAT IS REQUIRED?

- DEP requires that any component of a UST system that is in contact with soil and/or back fill that routinely contains product must be protected from corrosion

So what is corrosion?

- Corrosion results from an electric current which is caused by contact between metal surfaces, water, and the chemicals present in soils and water
- Cathodic protection is one of several methods for protecting underground tanks and pipelines from corrosion
- Other common names: CP, corrosion protection, STIP-3 or STIP-3 Testing

POSSIBLE PETROLEUM EQUIPMENT REQUIRING CATHODIC PROTECTION

- Tanks
- Lines
- Flex hoses
- Tank top fittings

CATHODIC PROTECTION – HOW IT WORKS

Two types of cathodic protection systems

Galvanic (Sacrificial)	Impressed Current (ICCP)
Uses the difference in energy levels between the steel tank (hard metal) and zinc or magnesium anodes (soft metal) to create current flow. This causes corrosion to occur on the softer metal. This is typically a factory installed option.	Uses an outside power source called a rectifier to create current flow. These systems are designed by a corrosion engineer/expert and are typically used to protect large quantities of metal or added to tanks/lines that were not factory protected with galvanic.

- Regardless of the type of CP system you have, it works by managing the flow and direction of the current which controls corrosion.

ALTERNATIVE TO CP SYSTEMS

- In addition to the two types of CP systems used to prevent corrosion there is another way to meet DEP's requirement for corrosion protection and that is:

  - Isolating the component from the soil and/or back fill.

GALVANIC PROTECTION SACRIFICIAL SYSTEM

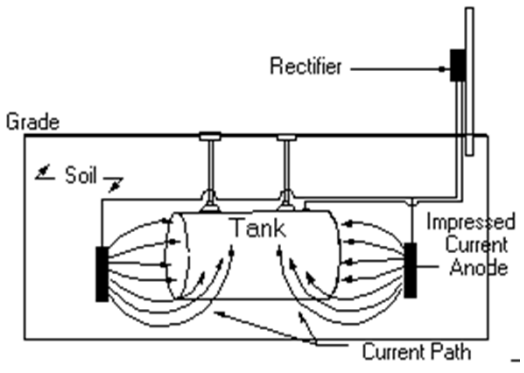
- A sacrificial anode protects steel by managing the flow of electrical currents from the equipment
- The sacrificial anode(s) are attached to the component that is to be protected
- The anodes are a softer metal then what is being protected, typically they are made of zinc or magnesium
- Electrons exit the system through the anode
- The anode corrodes instead of the tank

GALVANIC SYSTEM

IMPRESSED CURRENT SYSTEM

- This type of system uses anodes attached to a rectifier to introduce a negative DC current to the soils around the objects to be protected. It is through the current introduction that corrosive forces are transferred to the anode.
- ICCP systems typically protect large steel structures or are used at facilities that did not come with factory installed galvanic CP systems.
- These systems are designed by a corrosion expert, typically someone holding NACE certification, and require a site survey be completed prior to installation.

SCHEMATIC & COMPONENTS OF AN ICCP SYSTEM

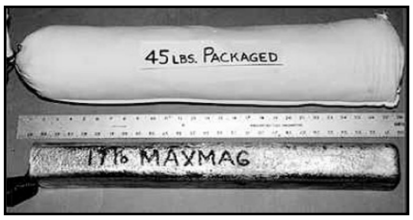


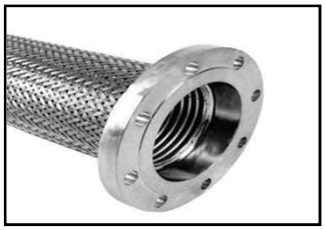
Anodes

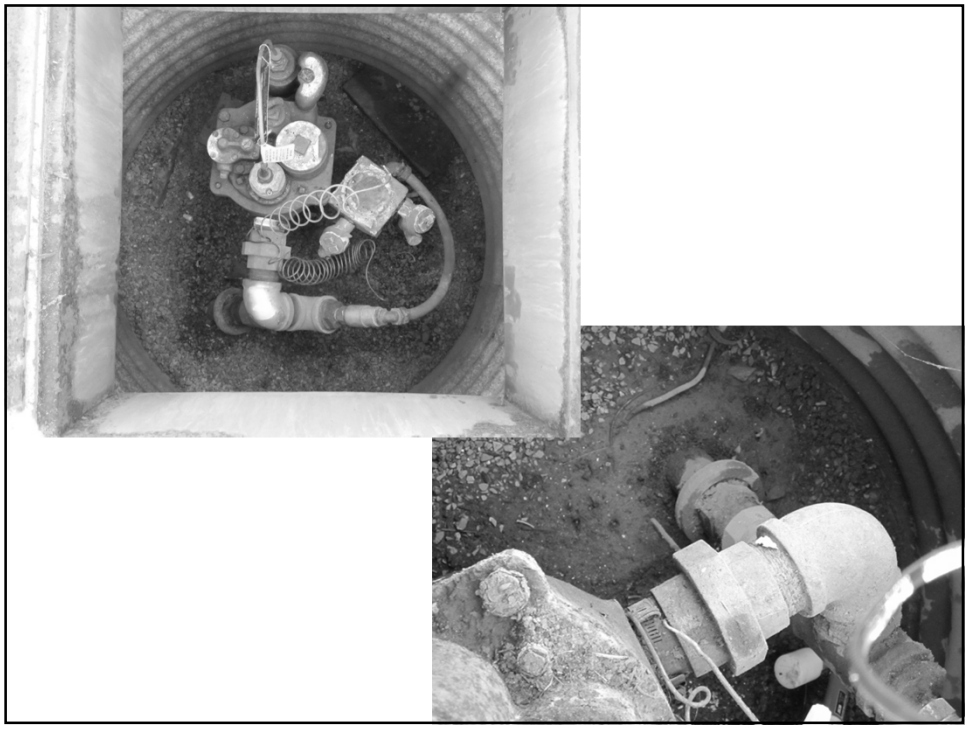
Rectifier

CATHODIC PROTECTION UPGRADES/REPAIRS

- Anodes can be added to equipment if needed, but:
- An approved method must be followed when adding supplemental protection to a UST, this will involve a NACE certified corrosion expert to size the anode properly.
- A spike anode may be added to a flex hose to properly protect them from corrosion. This does not require a NACE certified individual.
- Adding anodes to soil safe brand flex connectors does not make them compliant.







CP TESTING AND RECORD KEEPING REQUIREMENTS

Galvanic Systems:

- Must be tested upon installation or repair
- Must be tested 6 months after installation or repair
- Must be tested every 3 years thereafter

Impressed Current Systems:

- Same as above for installation or repair
- Must record rectifier volt & amp readings every 60 days

Records:

- Must keep last 3 sets of rectifier readings for ICCP systems (temp. record)
- Must keep last the last two sets of CP test results (temp record)
- Must keep the initial site survey for ICCP systems (permanent record)

MODULE 7A
2018 REGULATION CHANGES

(THAT DIDN'T FIT ANYWHERE ELSE IN THE PRESENTATION)

2018 REGULATION CHANGES

- Annual testing of all electronic and mechanical components of release detection equipment
  - Ie… leak detectors, sensors, lines
- Every 3 year testing of:
  - Sumps (dispenser, tank, spill buckets & transition)
  - Spill prevention equipment
  - Overfill equipment
- Testing must be done by a PADEP certified individual possessing the correct certification – The big change here is that owners are no longer able to do the 'official' test of their sensor, but you can test the sensors as part of your monthly or annual visual inspection

1. Tank systems installed on or before 12/22/2018, have 1 year before requirement, then;
2. Due date based on FOI due date but no later than December 21, 2021, whichever comes first.

Tank systems installed after 12/22/2018, must test at installation.

2018 REGULATION CHANGES
WHAT DO I HAVE TO DO RIGHT NOW?

- Monthly log file of:
  - Monthly physical check of all spill buckets
    - Looking for clean and dry
    - Verify no tank stick left in drop tube
    - Verify fill cap is tight
    - Verify no cracks in spill bucket, plow ring is ok, lid fits
  - Monthly physical check of your ATG
    - Is it functioning; powered on and no alarms
- Consolidate your DEP records per site for inspections
  - Initial tank registration paperwork
  - Modification reports
  - Verify you can prove USTIF payment types
    - Throughput = Invoice from supplier showing USTIF Fees
    - Capacity = Paid annual USTIF invoice or login to your USTIF account (if you have one setup on the portal) showing a zero balance

2018 REGULATION CHANGES

- Certain non-regulated tanks are now regulated and vice versa, see sections 245.403(c) & (d) for a listing. These are tanks that are typically installed at industrial facilities.
- Generator tanks are losing their release detection exemptions per the schedule below:

Underground storage tank systems that store fuel solely for use by emergency power generators must now perform release detection. Phase in as follows:

1. USTs installed on or before 11/10/2007
    a. No later than 12/21/2020
2. USTs installed after 11/10/2007
    a. No later than 12/22/2019
3. USTS installed after 12/22/2018
    a. At installation

2018 REGULATION CHANGES
(MORE ON GENERATORS)

- If a generator has a return line, then the line is considered to be an American suction line and will need to perform line tightness testing every 3 years or must perform monthly interstitial monitoring
- Line release detection for generators is exempt from having to implement positive shutoff

WORKSHEET COMPLETION

- Break into company groups
- Apply knowledge to complete worksheet section on fuel components

	Tank #:			Tank #:		
Product:			Diesel			Gas
Capacity:			10,000			10,000
Year Tanks Installed:			1998			1998
Year lines Installed:			1998			2009
	Test Frequency (in Months)	Operator or Certified Indv.	Method of Compliance	Test Frequency (in Months)	Operator or Certified Indv.	Method of Compliance
Tank Release Detection:	1	O	ATG - Veeder Root, keep last 12 months	1	O	ATG - Veeder Root, keep last 12 months
Line Release Detection (Small):	12	C	Annual .01 line test, Keystone calls us to setup testing date	1	C	Senors - Print out sensor status report monthly
Line Release Detection (Large):	12	C	MLLD - Vaporless, annual testing	12	C	ELLD - Annual testing is covered under release detection equipment testing
Spill Prevention Equipment Testing:	36	C	Required - Must use certified tester, next test due xx/xx/2020	36	C	Required - Must use certified tester, next test due xx/xx/2020
Overfill Prevention Equipment Testing:	12	C	Required - Must use certified tester, next test due xx/xx/2020	12	C	Required - Must use certified tester, next test due xx/xx/2020
Release Detection Equipment Testing:	12	C	Required - Must use certified tester, next test due xx/xx/2020	12	C	Required - Must use certified tester, next test due xx/xx/2020
Containment Sump Testing (only required if using int. monitoring as either form of line release detection):	NA	NA	NA - Lines installed pre 11/2007	36	C	Required - Must use certified tester, next test due xx/xx/2020
CP - Tank:	36	C	Required - Must use certified tester, next test due xx/xx/2020	NA	NA	NA - Single wall fiberglass tank
CP - Line End at Tank:	NA	NA	NA - Inside tank sump	NA	NA	NA - Inside tank sump
CP - Line End at Dispensers:	36	C	Required - Keystone calls us to setup testing date	NA	NA	NA - Inside tank sump
ICCP Volt/Amp Readings:	NA	NA	NA - Galvanic CP	NA	NA	NA - No CP on this tank system
Class C Operator Training:	12	O	Train at hire, then train all employees every October	12	O	Same as Tank 001
Spill Prevention & Release Detection Check:	1	O	Visual inspection with manual log file, keep last 12 months	1	O	Same as Tank 001
Containment Sump Check (all sumps):	12	O	Visual inspection with manual log file, keep last 12 months	12	O	Same as Tank 001

This is an example of completed columns from the site worksheet

MODULE 8
TEMPORARY AND PERMANENT CLOSURE OF REGULATED UST SYSTEMS

TEMPORARILY OUT OF SERVICE T.O.S.

- Makes facilities that are not being used safer
- Useful for facilities awaiting sale or saving for permanent closure

REQUIREMENTS FOR TEMPORARY CLOSURE – USING A CERTIFIED CONTRACTOR

- Tanks must be emptied (less than 1" of substance)
- Lines must be emptied and capped or blinded
- Secure tank against unauthorized entry
- Contractor submits a registration form to DEP
  - Includes documentation of proper product disposal
  - Includes certified individuals signature for modifying the system

REQUIREMENTS FOR TEMPORARY CLOSURE – BY OWNER (ONLY GOOD FOR 3 MONTHS)

- Tanks must be emptied (less than 1" of substance)
- Secure tank against unauthorized entry
- Submit a registration Amendment Form to DEP
  - Include documentation of proper product disposal
    - IUM/UMX certification of disposal
    - Manifest of pump out & disposal

- At the end of 3 months then a proper TOS must occur

TEMPORARY CLOSURE RESULTS

- USTs in temporary closure are exempt from release detection requirements
- Annual registration and insurance fees must still be paid
- Corrosion protection must be maintained
- Tank must be vented
- Facility operations inspections (FOI) must be completed every 3 years by a DEP certified inspector

TEMPORARY CLOSURE TIME LIMITS

- A noncompliant UST has a 12 month (1 year) temporary closure time period
- A compliant UST has a 36 month (3 year) temporary closure time period
- Time limits can be shortened at the discretion of DEP
- At the end of a temporary closure time limit the tank must be permanently closed or returned to service operating, fully compliant

PERMANENT UST CLOSURE

Two Different Types

- Closure by Removal
- Closure by Close-in-Place

No matter which one you choose:

A PA DEP Certified individual/company must be used to permanently close a UST system

CLOSURE IN PLACE

- Removal is always preferred though circumstances can sometimes make removal impossible
- Sampling is still required
- Closure in place is almost always more expensive then removal

CLOSURE IN PLACE

- All product must be removed and the tank must be thoroughly cleaned before a solid, inert material can be added to fill the tank as much as possible

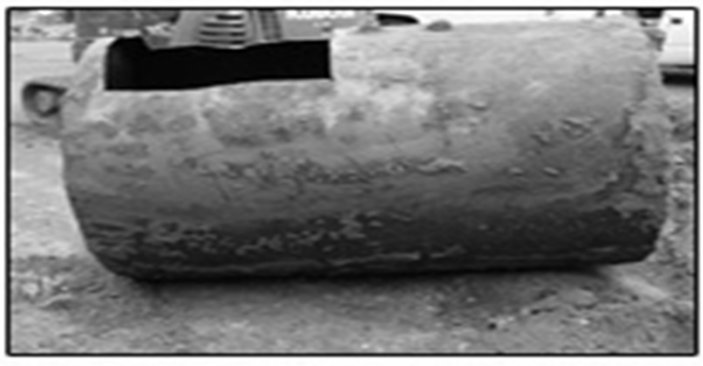
CLOSURE IN PLACE DISADVANTAGES

- More Expensive
- More Time
- Difficult to Sample
- The tank(s) may cause issues v

TANK REMOVAL

CLOSURE BY REMOVAL

- The tank is removed from the ground and dismantled safely
- Samples can easily be taken from under the tank



UST CLOSURE REPORT

- A closure report must be created after the permanent closure of any regulated UST.
- Closure reports should include: site information, tank information, sampling maps, sample results, the name of the certified individual/company performing the closure, and all waste manifests (tanks, piping, product, etc.
- If contamination is suspected or confirmed, the closure report must be submitted to PA DEP.
- Closure reports must be kept by the owner for 3 years.

MODULE 7 & 8 REVIEW

- A rectifier must have its readings logged every how many days?
  60 days
- Cathodic protection must be tested within _____ months of installation/repair and every _____ years after?
  6 months & 3 years
- Any component of a UST system that comes in contact with soil/back fill must be protected from what?
  Corrosion
- What brand of flex hose does not have continuity between both metallic ends?
  Soilsafe
- In addition to CP systems, what is another method of protecting metallic components from corrosion?
  Physically isolate the component from soil and/or backfill

MODULE 7 & 8 REVIEW

- A tank is considered empty if it has _____?

  Less then 1" of product

- A UST in temporary closure is exempt from what? And not exempt from what?

  Tank and line release detection

  Cathodic protection testing

- How long can a compliant tank system be in TOS? How long can a non-compliant tank system be in TOS?

  3 years

  1 year

- How long must a tank owner keep a tank closure report if no contamination was encountered?

  3 years

QUESTIONS BEFORE THE TEST