

Administrative & Aboveground Storage Tank Inspector Seminar

Bureau of Environmental Cleanup & Brownfields
04/08/2026





Pennsylvania
Department of
Environmental Protection

Attention



- Attendance at this course is required periodically for certification renewal.
- You are welcome to attend DEP training as often as you would like.
- Information being shared is for your benefit.
- Opportunity for discussion to better the tanks program.

“Nobody ever told me that.”



Questions: Who to Contact

ASTs – Inspections and Modifications		
Magen Majeski	717-772-5810	Supervisor Compliance/ Policy
Kevin Davenport	717-772-5823	Compliance/ All Regions
Tank Registration and Permitting		
Josh Blanco	717-772-5804	
Tank Handler and Inspector Certification		
Anne Toth	717-772-5808	
Wendy Davis	717-772-5829	



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PFOA and PFOS

Newly regulated ASTs should have been registered by 7/8/2024 and are required to meet all applicable sections of Chapter 245.

Where could these tanks be?

Bulk plants

Airports

Water Treatment Plants

And more...





PFOA and PFOS

What do you need to do if you find one of these tanks?

1. Assist owner in completing registration paperwork, including AST system components.
2. Include AST construction standard (if any) on signature page.
3. Make sure that the AST system meets secondary and emergency containment requirements.
4. DO NOT sign the registration form UNLESS all the technical requirements for regulated AST systems is met.
5. Attach a signed cover-letter itemizing deficiencies that must be corrected for the AST system to meet all the technical requirements.
6. Reminder: ASTs that operate under constant pressure do not need to be registered with the DEP storage tanks program (greater than 15 psi) – Pressure Vessel exemption.



Summary

- Administrative
 - Registration & Permitting
 - Certification Applications & Renewals
 - Electronic Submissions through “PUP”
- “Technical”
 - Release Reporting Requirements
 - Site Specific Installation Permits
 - Standards of Performance
 - Industry Standards
 - Facility Monitoring/Operation and Maintenance
 - Containment
 - Linings
 - Closure
 - Emergency Generators



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Administrative Training





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Administrative Training

- **Section 1:** Website Navigation
- **Section 2:** Public Upload Portal (PUP)
- **Section 3:** Registration Form/e-permitting
- **Section 4:** Site-Specific Installation Permits
- **Section 5:** Certification Reminders



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Website Navigation

www.pa.gov/agencies/dep.html

The old website address www.dep.pa.gov will redirect you
to the new website address

You may need to update your bookmarks or favorites



Pennsylvania
Department of
Environmental Protection

Website Navigation

Official Website of the Commonwealth of Pennsylvania

PA Commonwealth of Pennsylvania

Translate Search


Services Agency Directory Your Government Visit PA News

Agencies > Department of Environmental Protection

Department of Environmental Protection

Our mission is to protect Pennsylvania's air, land, and water resources while ensuring the health and safety of all residents and visitors to the commonwealth.

Submit an incident or complaint →





Website Navigation

Department of
Environmental
Protection



- Programs and Services >
- Residents >
- Public Participation >
- Report Incidents and Complaints
- Newsroom
- Alerts
- Data and Tools >
- About DEP >
- Contact Us >
- DEP Search



Streamlining Permits for Economic Expansion and Development (SPEED)

Created to accelerate permit processing and keep Pennsylvania aligned with business demands, eligible permit applications will use DEP-approved contractors for expedited review.

The Invitation For Bids (IFB) is now open to find qualified professionals to fill these roles.

[Read more about SPEED →](#)

Popular



[Falcon Cam →](#)



[Flooding and Storm Resources →](#)



[Environmental Justice →](#)



[Energy Programs Office →](#)



Website Navigation

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Programs and Services

Department of
Environmental
Protection

Programs and Services

- Air
- Business
- Bureau of Laboratories
- Contracts, Procurement, and Bonding
- Energy
- Grants, Loans, and Rebates
- Infrastructure Act
- Integration
- Land
- Mining

Explore the Programs and Services section to see all the ways the Pennsylvania DEP aims to protect air, land, and water resources in PA.

Air	→	Bureau of Laboratories	→	Business	→
Contracts, Procurement, and Bonding	→	Energy	→	Grants, Loans, and Rebates	→
Infrastructure Act	→	Integration	→	Land	→
Mining	→	Oil and Gas	→	Radiation Protection	→
Small Business Ombudsman's Office	→	Waste Programs	→	Water	→





Website Navigation

PROGRAMS AND SERVICES

Land

Department of
Environmental
Protection

Programs and Services

Air

Business

Bureau of Laboratories

Contracts, Procurement, and
Bonding

Explore this section to see all the ways the Pennsylvania DEP aims to protect land resources in PA.

Land Recycling Program



Mining



Site Remediation



Storage Tanks



Waste Programs





Website Navigation

ENVIRONMENTAL CLEANUP AND BROWNFIELDS

Division of Storage Tanks

Department of Environmental Protection

Programs and Services

Air

Business

Bureau of Laboratories

Contracts, Procurement, and
Bonding

Energy

Grants, Loans, and Rebates

Infrastructure Act

Integration

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

What's New in Storage Tanks

2018 Revisions to
Pennsylvania's
Storage Tank
Regulations



About Storage
Tanks



Storage Tank
ePermitting



Storage Tank
Data / Searches





Website Navigation

- Infrastructure Act
- Integration >
- Land >
 - Land Recycling Program
 - Brownfield Redevelopment
 - Site Remediation
 - Storage Tanks**
 - Mining >
 - Oil and Gas >
 - Radiation Protection >
 - Waste Programs >
 - Water >
- Residents >
- Public Participation >
- Report Incidents and Complaints
- Newsroom
- Alerts
- Data and Tools >
- About DEP >
- Contact Us >
- DEP Search



What's New in Storage Tanks

- [PFOS and/or PFOA and related substances in Storage Tanks](#) (PDF)
- Electronic payments and document submittals:
 - [Quick Pay](#) for registration fees
 - [Online Registration & Fee Payment](#)
 - [Public Upload Portal for Document Submissions | Instructions](#) (PDF)
- [Summary Information on Underground Storage Tanks \(USTs\)](#) (PDF) - Updated 12/11/2024

Data / Searches >

Fact Sheets →

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Aboveground Storage Tanks →

Underground Storage Tanks →

Register a Storage Tank →

Storage Tank Permitting →

Installer and Inspector Certification →



Pennsylvania
Department of
Environmental Protection

Website Navigation

www.pa.gov/agencies/dep.html →

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[Land](#) →

[Storage Tanks](#) →



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Electronic Submissions – “PUP”





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Public Upload with Payment (PUP)

- The public can provide documents directly to DEP through this public upload interface / portal.
- The system has a payment function that is used by many areas in DEP to accept payments. Storage Tanks submissions generally do not require payments.
- The exceptions are Site-Specific Installation Permit (SSIP) fees and penalty payments associated with enforcement actions.



Where

<https://www.pa.gov/agencies/dep/programs-and-services/land/storage-tanks.html>

Division of Storage Tanks

Department of Environmental Protection

Programs and Services

Air >

Business >

Bureau of Labor >

Contracts, Procurement, Bonding >

Energy >

Grants, Loans, and Rebates >

Infrastructure Act >

Integration >

Land >

Land Recycling Program >

Brownfield Redevelopment >

Site Remediation >

Storage Tanks >

Mining >



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What's New in Storage Tanks

- [PFOS and/or PFOA and related substances in Storage Tanks](#) (PDF)
- Electronic payments and document submittals:
 - [Quick Pay](#) for registration fees
 - [Online Registration & Fee Payment](#)
 - [Public Upload Portal for Document Submissions](#) | [Instructions](#) (PDF)
- [Summary Information on Underground Storage Tanks \(USTs\)](#) (PDF) - Updated 12/8/2023

[2018 Revisions to Pennsylvania's Storage Tank Regulations](#) →

[About Storage Tanks](#) →

[Storage Tank ePermitting](#) →

[Storage Tank Data / Searches](#) →

[Fact Sheets](#) →

[Technical Guidance Documents](#) →



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How

Click **'No'** unless a DEP representative has returned a previous submission with a request to update and resubmit.

Public Upload

Welcome to PA DEP's Public Upload with Payment Submission Page!

There are many forms which may be submitted via this tool. If a form requires payment, and your organization is not exempt, you will need to make payment at the time of submission. Payment can be made by credit card or Telecheck (ACH).

Public Submission


Resubmittal

If you are attempting to submit a new form to DEP, please answer 'NO' to the resubmission question and you will see the Public Upload form to complete a new submission.

If you are resubmitting a form which was previously submitted to DEP and required an update, please answer 'YES' to the resubmission question and you will see further instructions on how to start the resubmission.

Is this a resubmittal? Yes No

Validate and Continue





How

cess/PublicSubmission/Home

Public Upload

Public Submission

Submission Information

Submitter Information

Submitter Name*

Submitter's Organization*

Submitter Email Address*

Phone Number*

Submission Information

There are many submission types which can be submitted to DEP. You can filter the list of Submission Types by selecting one or more programs. The Submission Type drop down list supports type-ahead filtering. This means if you click into the Submission Type drop down list and type, it will filter the list to any Submission Types with the word 'waiver' anywhere in the name. It is not case sensitive.

Submission Type Filter (optional)

Filter Submission Types by Program (optional)

DEP Program Area

Request Type*

Permit #/Project #

Applicant EIN

Project Address

The top portion of the submission screen looks like this.

There are 5 areas:

- Submitter Info
- Submission Info
- Project Address
- Comments
- File Upload



How

Submitter Info

- For **certification applications** enter the applicant's name.
- For **all other documents** enter the point of contact's (POC) name. The POC = the person who can answer questions about the submitted documents.
- The POC will receive an email confirmation.



How

Submission Info

Filter by: ENV CLEANUP & BROWNFIELDS ECB

Submission Information

There are many submission types which can be submitted to DEP. You can filter the list of Submission Types by selecting one or more program areas. Additionally, the Submission Type drop down list supports type-ahead filtering. This means if you click into the Submission Type drop down list and type the word 'waiver'; it will filter the list to any Submission Types with the word 'waiver' anywhere in the name. It is not case sensitive.

Filter Submission Types by Program (optional)

Submission Type - Select from the list*

DEP Program Area

Request Type*

Permit #/Project #

Applicant EIN

1 selected

✓ Check all ✕ Uncheck all

AIR QUALITY AQ

CLEAN WATER CW

DISTRICT MINING OPERATIONS DMO

ENV CLEANUP & BROWNFIELDS ECB

MINE SAFETY MS



How

Submission Info

When filtered, the Filter Submission Types by Program (really **Document Name**) is narrowed to Storage Tanks, Site Remediation, and Land Recycling documents.

Submission Type Filter (optional)	1 selected
Filter Submission Types by Program (optional)	Select a value
DEP Program Area	
Request Type*	Select a value
Permit #/Project #	ABOVEGROUND STORAGE TANK CLOSURE REPORT FORM 2630-FM-BECB0514
Applicant EIN	ABOVEGROUND STORAGE TANK LINING INSPECTION SUMMARY 2630-FM-BECB0014
Project Address	ABOVEGROUND STORAGE TANK MODIFICATION REPORT FORM 2630-FM-BECB0151
Address	ABOVEGROUND STORAGE TANK SPILL PREVENTION RESPONSE PLAN
	ABOVEGROUND STORAGE TANK THIRD PARTY INSPECTION



How

Submission Info

Start typing part of the **Document Name** to narrow the list further.

1 selected ▼

Select a value ▲

underground

- UNDERGROUND STORAGE TANK CLOSURE REPORT FORM 2630-FM-BECB0159
- UNDERGROUND STORAGE TANK FACILITY OPERATIONS INSPECTION REPORT FORM 2630-FM-BECB0501
- UNDERGROUND STORAGE TANK LINING EVALUATION FORM
- UNDERGROUND STORAGE TANK MODIFICATION REPORT FORM 2630-FM-BECB0575
- UNDERGROUND STORAGE TANK OPERATOR TRAINING DOCUMENTATION FORM 2630-PM-BECB0514A



How

Submission Info

Some **Document Name** Suggestions:

- **Installer:** Installer/Inspector Certification App or Amendment App
- **Company:** Company Certification Application
- **MOD:** UST and AST Modification Report Forms
- **Under:** Underground FOI, Closure, Lining Eval, Operator Training
- **Install:** Installation/Closure Notification, Alternative Fuels
- **Closure:** UST and AST Closure Forms
- **Registration:** Storage Tank Registration/Permitting Form



How

Submission Info

- Request Type:
 - **NEW** for all forms **EXCEPT** certification applications
 - Certification Applications can be: **NEW, RENEWAL, or AMENDMENT**

**Please place the Storage Tanks Facility ID in the Permit #/Project # field
Leave blank for certification applications**

Request Type*	NEW
Permit #/Project #	15-32112
 Applicant EIN	X



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How

Submission Info

If you are a **NEW** facility and submitting your **first** Registration form (no Facility ID has been assigned by DEP)
– [Enter the Applicant EIN](#)



How

Submission Clarification

- Each submission is associated with either a **certified individual/company** or a **Facility ID** (Permit #)
- Multiple files and types of files can be uploaded
- Do not submit documents for multiple facilities or document types in the same upload
- Installer/Inspector applications and Company applications **MUST** be submitted separately



How

Project Address

As you type the address it may auto complete if the address already exists in the system.

For **certification applications** use the applicant's or company's address

Project Address

Address

City
2500 Conestoga Ave, Honey Brook PA 19344
2500 Conestoga Creek Rd, Narvon PA 17555

County/Mun
2500 Cone Rd, Thomasville GA 31757

County (i
No data t
Add County
2500 Conestoga Trl. Las Vegas NV 89108

PA Zip Code

Is Primary?	Region(s)	Edit	Delete



How

Project Address

- Clicking Add County/Municipality/Region will pop up the screen below.
- You will select the Facility's or Applicant's County.
- After the County's Municipality list loads, you will select the Municipality where the facility, applicant, or company is located.
- The Region will auto complete.
- Click Save.

The screenshot shows a web form titled "Site Location" with a close button (x) in the top right corner. The form contains the following fields:

- County***: A dropdown menu with the text "Select a value" and a downward arrow.
- Municipality***: A dropdown menu with the text "Select a value" and a downward arrow.
- Primary***: A checkbox that is currently unchecked.
- Region***: A text input field that is currently empty and has a light gray background.

At the bottom right of the form, there are two buttons: a blue "Save" button and a white "Cancel" button with a gray border.



How

Comments

- Comments are currently optional.
- We reserve the right to change this requirement based on DEP needs.

Attachments

- The action happens here!
- Click Attach Scanned Form.

Submission Notes

Provide any necessary comments below for the review staff

Attachments (0)

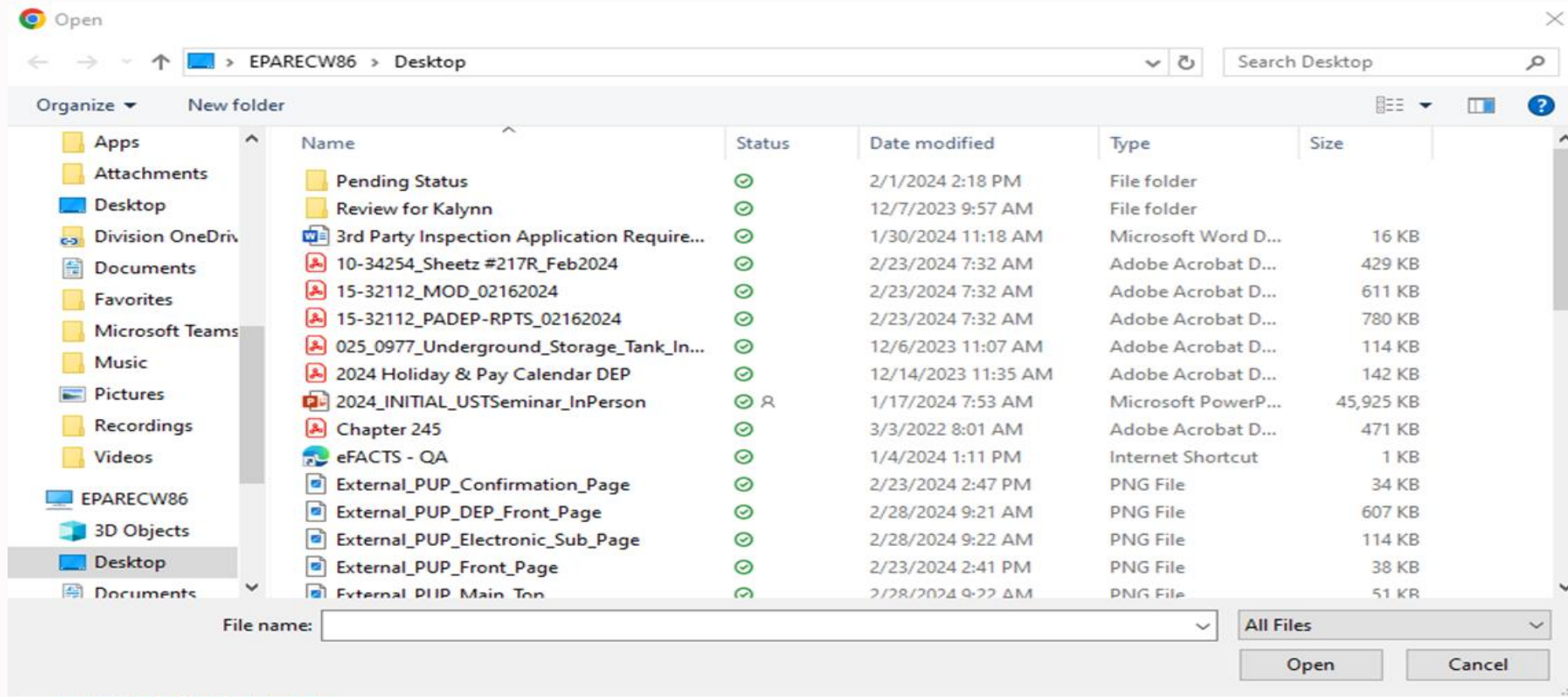
Attach Scanned Form

← Click Here



How

Attachments





How

Attachments

Recommendation: Place your files in designated location to make easy to find.

Notes:

- No commas in File Names
- No File Names longer than 100 characters - IMPORTANT!

Public Module Attachments (2)			
Date Added	Document Name	Delete	Download
02/28/2024 09:30:09 AM	15-32112_MOD_02162024		
02/28/2024 09:30:08 AM	15-32112_PADEP-RPTS_02162024		

[Attach Scanned Form](#)



Reminder

When Can I Submit Multiple Documents?

- **UST Example:**
 - **Modification Report:** You may attach testing forms and facility diagrams to the Modification Report.
 - **FOI Report:** Should also attached cathodic protection evaluations reviewed during the inspection. You may also attach monthly walkthrough inspections, 60-day ICCP rectified readings, and other documents reviewed to make compliance determinations during the inspection.



Reminder

When Can I Submit Multiple Documents?

- **AST Example:**
 - Inspection Report (General): May attach supplemental documentation related to the tank system being inspected (ex: P.E. Containment Certification).
 - Out-of-Service Inspections: May attach the Lining Inspection Form where required.
 - Modifications and Modification Inspections: May attach supplemental documentation related to the reported activity.



Reminder

When Can I Submit Multiple Documents?

- **Registration Example:**
 - Registration/Permitting Applications: May also attach UST Operator training documentation, deed (or other ownership documentation), substance SDS, or other pertinent documentation relating to the registration submission.
- **Certification Example:**
 - Certification Applications: Attachment A form (when required), training course certificates, TL manufacturer letters, or other documentation associated with the submitted application.



How

Submit

Larger file sizes may take longer to load. Patience is a must during this step!

A screenshot of a web form interface. At the top, there is a dark green header bar with the text "Attachments (0)" and a small white downward-pointing triangle on the right. Below this header is a white rectangular area containing a blue button with the text "Attach Scanned Form". At the bottom of the form, there is a light gray footer bar containing a blue button with the text "Submit". A red arrow with the text "Click Here" inside it points towards the "Submit" button.



Complete - Confirm

Confirmation Screen

[Public Upload](#)

Submission Details

Details have been submitted successfully. Please review and print the Transaction Receipt for your records.

Reference :	213939
Form Name :	UNDERGROUND STORAGE TANK MODIFICATION REPORT FORM 2630-FM-BECB0575
Submitter Name :	Joshua Blanco
Submitter Organization :	DEP
Submitter Email :	jblanco@pa.gov
Phone Number :	(717) 772-5804
Submitted To :	ra-tanks@pa.gov
Date Submitted :	02/28/2024

[Print Confirmation](#)



Pennsylvania
Department of
Environmental Protection

Complete - Confirm

Confirmation Email -> Submitter Email

Notice of Application Received

○ depgreenporthelpdesk@state.pa.us

To ● Blanco, Joshua

↩ Reply ↩ Reply All → Forward 📧 ⋮

Wed 2/28/2024 9:35 AM

Submission Details

Details have been submitted successfully. Please review and print the Transaction Receipt for your records.

Reference : 213939
Form Name : UNDERGROUND STORAGE TANK MODIFICATION REPORT FORM 2630-FM-BECB0575
Submitter Name : Joshua Blanco
Submitter Organization : DEP
Submitter Email : jblanco@pa.gov
Phone Number : (717) 772-5804
Submitted To : ra-tanks@pa.gov
Date Submitted : 02/28/2024



Summary

- **Step 1:** Navigate to <https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home>
- **Step 2:** Enter your information
- **Step 3:** Enter Document/Submission Type Info
 - **Filter by: ENV CLEANUP & BROWNFIELDS ECB**
- **Step 4:** Enter Facility ID in Permit #
 - 1 Document/Submission Type for 1 Facility per upload
- **Step 5:** Enter Address, County, and Municipality
- **Step 6:** Click Submit
- **Step 7:** Save your confirmation



Why

Why is DEP asking for your participation?

- Document Security – less risk of loss between your submission and final filing. The document remains in one storage location with a designated reference number through the whole lifecycle.
- Future Access – documents move through our review and processing directly into Electronic Records Management. This will allow future document reviews to go to a single source for all records related to any location or certification holder.
- Clear Confirmations – certified individuals and companies are provided with a clear submission confirmation to verify timely and appropriate submission.
- Single Submission – no need to send to multiple email addresses and verify submission to the correct regional office resource email account.



Registration Forms

Two methods of submittal:

- **PUP (attach document from your computer)**



- **ePermitting (fully digital form)**

Registration Forms - ePermitting

What is ePermitting?

- A fully digital platform that several DEP divisions use to manage permitting and registration needs - no stamps needed!
- The fastest and most efficient way to submit a Storage Tanks registration / permitting application.

Welcome to the e-permitting Home page!

In the area below, you will see any program areas which you have enrolled in. Click on the program area where you need to do work.

There is also an Enrollment Dashboard which would allow you to enroll in additional program areas or additional clients.

You can track the status of your application using [the Department of Environmental Protection's online Permit Tracker](#). Instructions can be found on the Permit Tracker's home page under "Learn more about permit tracking."



Storage Tanks



Enrollment Dashboard

ePermitting

ePermitting accepts:

- Registration fee payments
- New facility registration
- Add tanks
- Remove or close tanks
- Change tank status or substance
- Change of ownership
- Update contact or owner information
- Update site or facility information

(AKA - all the same functions a paper form can do!)

ePermit Authorization Overview

Select the areas below which you would like to amend and click Save.

Storage Tank Registration - Amend Existing Facility

[View All Modules](#)

Included	Go To	Status	Completed
✓	Tank Owner Information	🟢	02/12/2026
✓	Site Information	🟢	02/12/2026
✓	Facility Information	🟢	02/12/2026
✓	Responsible Official Contact Information	🟢	02/12/2026
✓	Storage Tank Information	🟢	02/12/2026

General Attachments(0)

Date Added	Document Name	Document Type	Description	Edit	Delete	Download
No attachments to display						

[Upload New Attachment](#)

Final Completeness Check
Submit
Back



ePermitting vs Paper



ePermitting	Paper Registration Forms
Applications reviewed in <u>7 days or less (not a typo!)</u>	Applications reviewed in 30+ days
Tells you what information is required directly in-program; nearly impossible to submit an incomplete form.	Separate instructions to read to ensure all required fields are filled-in.
Digital input by default	Handwritten forms manually digitized. Human error and/or rejections possible due to messy handwriting
Email notifications automatically sent when invoices or prepared applications are ready for review	Scanning pieces of paper several times to send to different people for signature / approval. Keeping track of several email threads
Registration certificate immediately available after fee payment. Can print as many copies as you need	Waiting for a paper certificate in the mail. Scanning a piece of paper for additional copies
Update facility contact information immediately – no amendment needed	Must submit a registration amendment to change facility contacts
Once an account is set up, use it for all future registration needs	New stack of papers every time



ePermitting – Welcome Video

Official website of the Commonwealth of Pennsylvania



Translate

Search



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Agencies Department of Environmental Protection Programs and Services Business ePermitting Storage Tank ePermitting

EPERMITTING

Storage Tanks ePermitting

Department of
Environmental
Protection

Programs and Services
Air
Business
Permit Information
Storage Tank Permitting
ePermitting
Municipal Waste Permitting
Residual Waste Permitting
Bureau of Laboratories

Online Registration and Fee Payment Instructions

Quick Pay now available – [pay registration fees and obtain your certificate with no login required!](#)

Storage tank owners may now pay annual Storage Tank registration fees and submit the below listed storage tank registration amendments online through the Department's ePermitting application on Greenport. Follow the steps below to create a Greenport account and access the ePermitting application. Contact the Division of Storage Tanks at 717-772-5599 with any questions.

Registration amendments accepted through ePermitting Dashboard using the Create or Maintenance Tab (see step 4 below):

- New facility registrations (existing storage tank owner)
- Adding tank(s)
- Removing/closing tank(s)

2018 Revisions to
Pennsylvania's
Storage Tank
Regulations



About Storage
Tanks



Storage Tank
Data / Searches



Fact Sheets



ePermitting

“Ugh, not *another* online portal...”

Wait!

We know, and we get it. Don't worry – setup is easy, the benefits are worth it, and we're here to help if you get stuck.

If you've ever set up a rewards account for your favorite store, you can do this!



ePermitting

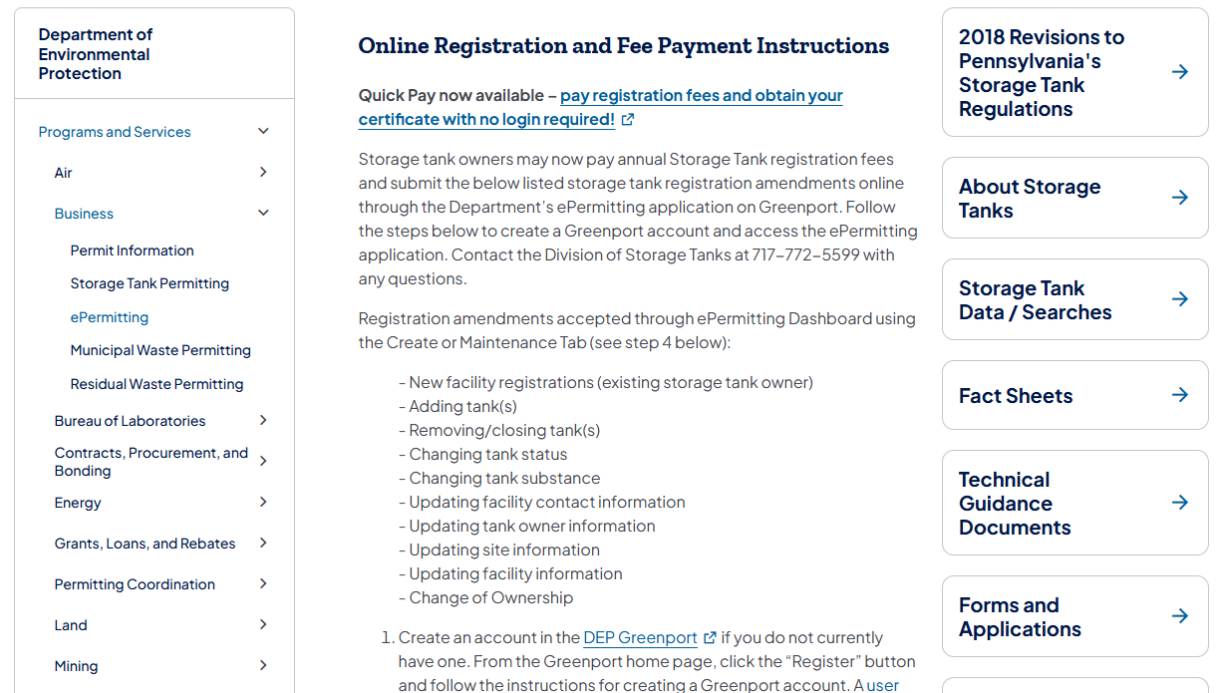
Getting started is easy!

1. Set up a Greenport account
2. Enroll in ePermitting for Storage Tanks
3. Start submitting registrations

These steps are described in detail on the pa.gov website here:

[Storage Tank ePermitting](#)

Storage Tanks ePermitting



Department of Environmental Protection

Programs and Services

- Air
- Business
 - Permit Information
 - Storage Tank Permitting
 - ePermitting**
 - Municipal Waste Permitting
 - Residual Waste Permitting
- Bureau of Laboratories
- Contracts, Procurement, and Bonding
- Energy
- Grants, Loans, and Rebates
- Permitting Coordination
- Land
- Mining

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- New facility registrations (existing storage tank owner)
- Adding tank(s)
- Removing/closing tank(s)
- Changing tank status
- Changing tank substance
- Updating facility contact information
- Updating tank owner information
- Updating site information
- Updating facility information
- Change of Ownership

1. Create an account in the [DEP Greenport](#) if you do not currently have one. From the Greenport home page, click the "Register" button and follow the instructions for creating a Greenport account. A [user](#)

2018 Revisions to Pennsylvania's Storage Tank Regulations →

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ePermitting - Greenport


Greenport is a multi-department digital platform that puts several online applications into one dashboard.

- One key that opens several doors!
- Used by PA's DEP, DCNR, PDA, and MMB
- Login credentials tied to your email address and company details


Link here: [Greenport](#)

User Guide here: [Greenport User Guide](#)


Welcome to the new GreenPort powered by the PA Keystone Login!




Department of
Environmental Protection



Department of Conservation
and Natural Resources



Pennsylvania Department
of Agriculture



Milk Marketing Board

Login to your account

Note: Do not use your Old DEP GreenPort account created before 03/20/2021.

Username

Password

Login

[What is GreenPort?](#)
[Forgot Username?](#)
[Forgot Password?](#)
[Need your account unlocked?](#)

Register a new GreenPort account

Register

When you register a new GreenPort account, you automatically create a new Keystone Login account.

PA Keystone Login is an account management system for commonwealth online services. You can use your PA Keystone Login username and password to log into any online service that participates in PA Keystone Login.

Powered by
PA KEYSTONE LOGIN
[Keystone Login FAQ](#)

ePermitting - Enrollment

Once a Greenport account is created, next is ePermitting enrollment. This grants you access to the specific program areas you use, for the facilities you support.

- From the Greenport dashboard, click the Request Access button to get started.
- Four submitter roles available: Tank Owner, Consultant (3rd party submitter), Tank Installer, Certified Company
- When prompted to review the Security Agreement, please read thoroughly to ensure you understand your role and responsibilities in ePermitting.

User Guide here: [ePermitting Enrollment Guide](#)

Welcome to the self-enrollment Registration Dashboard!

[Start a New Program Enrollment](#)

If you are here, you have successfully created your Keystone/Greenport login and you are now requesting access to an application. This enrollment process will either allow the agency to link you to your client information or allow a company that does business with the agency to grant you access to do work on their behalf.



Enrollment Review

You currently have 0 request(s) for access to your company information.

Requested Enrollment in	Program Area	Client	Requestor	Requestor Company	Review
No Results Found					

Enrollment

You currently have 5 enrollment(s) started. Select the draft enrollment below to complete and submit.

Requested Enrollment in	Program Area	Client	As a	Edit	Delete this Draft
e-Permitting	Storage Tanks	Yet to be determined	EFA		

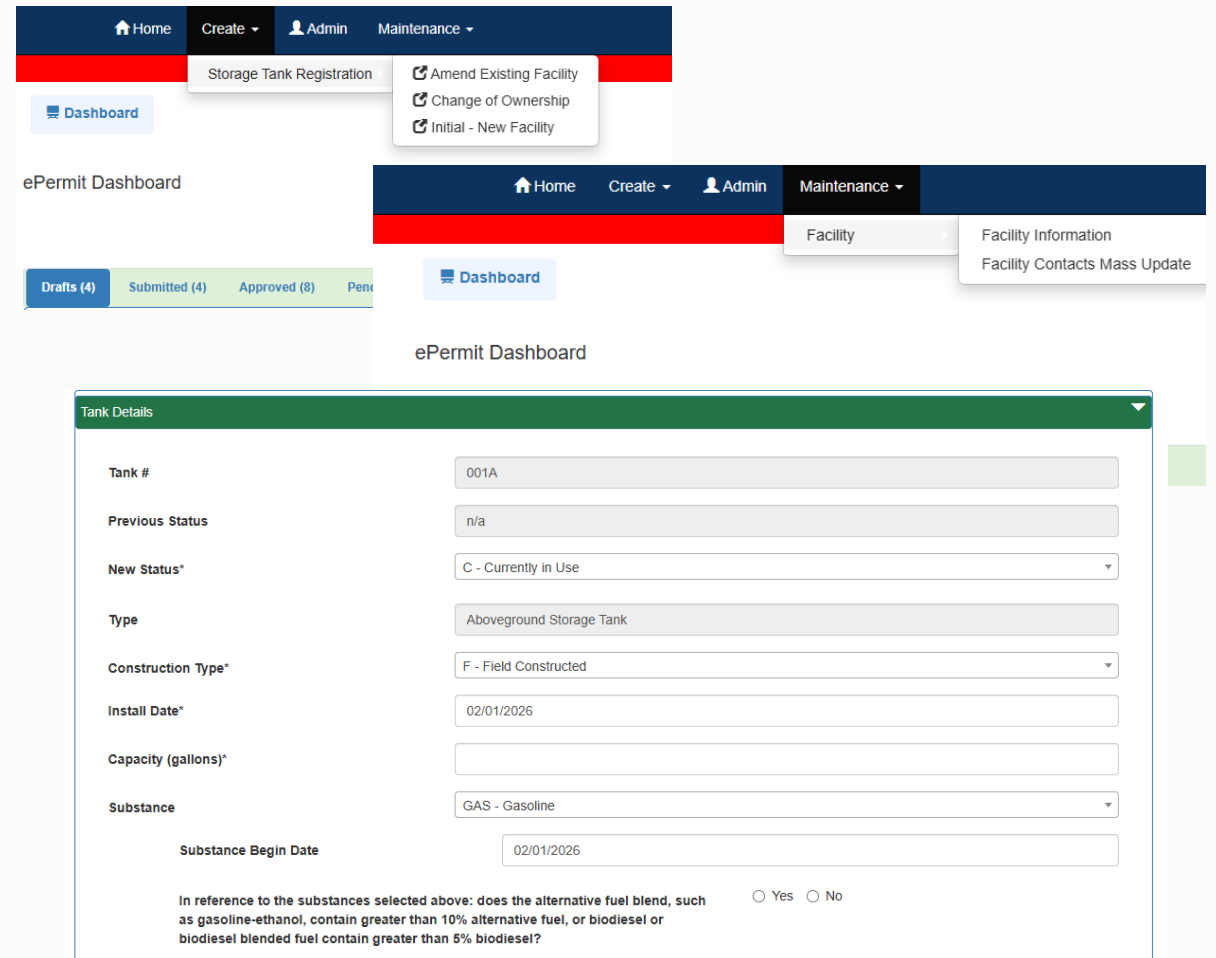
ePermitting - Registrations

When enrollment is complete (and approved, if needed) you are ready to use ePermitting!

- Log in to Greenport, select ePermitting, and click Storage Tanks to view and submit registrations.
- Registration applications are divided into modules – these are comparable to the Sections of the paper form.
- When a registration is approved, the Tank Owner will be prompted to pay any outstanding invoices. Once complete, they can print their new registration certificate.
- Tank owners can update facility contact information directly from the Facility Information tab.

User Guide here: [Storage Tanks ePermitting Guide](#)

Fee Payment Guide here: [ePermitting Payment Guide](#)



The screenshot displays the ePermitting web application interface. At the top, there is a navigation bar with 'Home', 'Create', 'Admin', and 'Maintenance' tabs. A dropdown menu under 'Create' shows options for 'Storage Tank Registration', 'Amend Existing Facility', 'Change of Ownership', and 'Initial - New Facility'. Below this is the 'ePermit Dashboard' with tabs for 'Drafts (4)', 'Submitted (4)', 'Approved (8)', and 'Pending'. A second navigation bar shows 'Home', 'Create', 'Admin', and 'Maintenance' tabs, with a dropdown menu under 'Maintenance' showing 'Facility', 'Facility Information', and 'Facility Contacts Mass Update'. Below this is another 'ePermit Dashboard' with a 'Dashboard' button. The main content area shows the 'Tank Details' form with the following fields:

Tank #	001A
Previous Status	n/a
New Status*	C - Currently in Use
Type	Aboveground Storage Tank
Construction Type*	F - Field Constructed
Install Date*	02/01/2026
Capacity (gallons)*	
Substance	GAS - Gasoline
Substance Begin Date	02/01/2026

In reference to the substances selected above: does the alternative fuel blend, such as gasoline-ethanol, contain greater than 10% alternative fuel, or biodiesel or biodiesel blended fuel contain greater than 5% biodiesel? Yes No

ePermitting – General Tips



- When completing a registration, the Final Completeness Check must run successfully before the Submit button is available. You must hit the Submit button to complete the registration application.
- When enrolling in ePermitting to complete a Change of Ownership, the new Tank Owner should set up their account with their company's information. Do not use the existing Facility ID, as this will connect their login to the former owner's company.

Submission Validation Messages

Module Validation				
Status	Module Name	Module Complete	Detail Modules Complete	Business Rules Valid
✔	Tank Owner Information	✔	✔	✔
✔	Site Information	✔	✔	✔
✔	Facility Information	✔	✔	✔
✔	Responsible Official Contact Information	✔	✔	✔
✔	Storage Tank Information	✔	✔	✔

Submission Business Rule Validation			
Status	Authorization Type	Application Type	Message
✔	Validated Successfully		

Missing General Attachments(0)	
Status	Missing Required Attachments
✔	Validated Successfully

-- Ok --

Final Completeness Check
Submit
Back

ePermitting for Certified Users

Tips for Certified Companies and Installers:

- During enrollment, Consultant and Certified Company roles are very similar; we recommend using Certified Company unless you have full signatory authorization from tank owner(s) to manage registrations on their behalf.
- A user cannot be enrolled as a Consultant *and* Certified Company on the same account – you must pick one or the other.
- A Tank Owner must be enrolled in ePermitting in order for Certified Companies, Installers and Consultants to prepare registrations on their behalf.
- When a Certified Company or Installer completes a registration application, it is sent to the Tank Owner for final review and signoff. The Tank Owner then submits the application to the DEP.
- When first starting work for a Tank Owner, a Certified Company or Installer will be prompted to provide the Tank Owner's Client ID or Facility ID to begin their registration application.
- Change of Ownership must be submitted by the tank owner; Certified users will not have access to this option.



ePermitting for Certified Users

In summary, if you are a Certified Company or Installer working with a Tank Owner, these are your steps to get started:

- Set up ePermitting credentials through Greenport.
- Confirm if the tank owner has ePermitting credentials yet.
- If not, the tank owner should create a Greenport account and request access to ePermitting.
- Ask the tank owner for their Client ID and/or Facility ID; this is typically available on invoices and prior certificates.
- Log in to ePermitting, select a registration option from the top menu, and enter the requested identifier to get started.
- Submit the registration application to the tank owner; they will receive an automated email prompting them to review and submit the application.

Facility Selection

Purpose of Submittal* Amend Existing Facility

Below you will enter the Facility ID for the Facility you are completing work for or select a Facility below that you have previously submitted work to.

Enter the Facility ID. Validate Facility ID

OR

Select from Facilities you have previously submitted work for.

Client ID	Tank Owner Name	Headquarters Address	Remove from list
There are no items to display			

Continue
Cancel

Tank Owner Selection

Purpose of Submittal* Initial - New Facility

Below you will enter the Client ID for the Tank Owner you are completing work for or select a Tank Owner below that you have previously submitted work to.

Enter the Client ID. Validate Client ID

OR

Select from Tank Owners you have previously submitted work for. (Note: if you have a Client listed below that you no longer need to see on this "quick pick" list, you may click Remove. This will not prevent you from doing future work for this Client nor seeing past submissions. This will just remove the client from the below pick list.)

Client ID	Tank Owner Name	Headquarters Address	Remove from list
There are no items to display			

Continue
Cancel

ePermitting – Need help?



Who are you gonna call? Sam!

(no ghosts to bust here, sorry)

- First, see if our user guides can help. We have detailed guides for every step of getting started in ePermitting. They are all linked on the pa.gov webpage here: [Storage Tank ePermitting](#)
- If the guides cannot resolve the issue, take screenshots of any specific error messages or pain points.
- Contact Sam Barnes, DEP Management Technician, for assistance. Sam is the main point of contact for Storage Tanks ePermitting onboarding, issue resolution, and support.

Sam Barnes

sambarnes@pa.gov

717-783-3795



Registration Certificates

- DEP no longer sends registration certificates when invoices are paid online:
 - Facility owners can access their certificate immediately
 - When a tank status is changed online, a new certificate can be printed
- DEP prints and mails registration certificates for transactions handled by mail
- Registration certificates are no longer printed on security paper
 - Online vs. DEP printed certificates are formatted differently
 - You can always verify a certificate's legitimacy by using the Active Storage Tank Search (USTs and small ASTs only) on our website



Pennsylvania
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Site Specific Installation Permits

SSIP required PRIOR to construction, reconstruction, or installation of:

- New AST systems with a capacity > 21,000 gallons
- New AST facilities with an aggregate aboveground storage capacity > 21,000 gallons
- New highly hazardous substance tank systems
- New field-constructed UST systems



Certification Renewal Reminders

Individuals:

Know your certification's expiration date!

Schedule training 12 – 18 months in advance:

- Technical Training
- Administrative Training
- Retesting? - Submit application at least 120 days out



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Certification Renewals

RENEWAL IS NOT AUTOMATIC

Submit the Renewal Application and Technical Training Certificates via PUP

PUP System:

- Fill in online fields*
 - Attach application and training certificates
 - Submit
- * **Reminders:** Submitter's Name = Applicant's name
Project Address = Applicant's address



Pennsylvania
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Certification Renewals

Companies:

Pay your TIIP fees: <https://ustif.pa.gov>

Renew every 3 years: submit application via PUP system



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New Certification

New Applicant or Adding Categories

- Application Form
- Attachment A for each category being requested (some exceptions)
- Initial Technical Training Course for each category being requested (some exceptions)
- Hand sign your application – no typed computer fonts
- Submit at least 60 days before desired date test date.



New Certification

2630-PM-BECB0506c 4/2012

Applicant Name _____

III-b. Storage Tank Facility Employer Information

Provide detailed information for each activity listed in Section III-a. The activity numbers in III-a. must correspond to the activity numbers listed in III-b.

Facility where the work was completed	DEP Verified	Applicant's employer when work was performed
Activity No. 1 Owner Name _____ Facility Name _____ Pa Facility I.D. # _____ Address _____ City _____ State _____ Zip _____ Owner Contact _____ Contact Phone () _____ Facility Phone () _____	Approved <input type="checkbox"/> Verified	Company Name _____ Address _____ City _____ State _____ Zip _____ Contact _____ Phone () _____ Verifying Official Signature _____ Reported under PA certification ID _____
Activity No. 2 Owner Name _____ Facility Name _____ Pa Facility I.D. # _____ Address _____	Approved <input type="checkbox"/> Verified	Company Name _____ Address _____ City _____ State _____ Zip _____



Pennsylvania
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Certification Testing

- **Online Examinations by ASC (Assess)**



- **Exams can be scheduled any time (24/7) with the exception of some holidays**



Certification Testing

- Must submit complete application 60 days prior to desired exam date
- After approval, applicant receives an email and letter from DEP
- Applicant receives an email from ASC with instructions about paying for and accessing the exams
- Fee is \$75 per exam
- Examinee needs:
 - Computer with webcam
 - Secondary camera (i.e. smartphone)
 - Government ID (Driver's license, Passport, etc.)



Certification Testing

- Examinee is connected to a live proctor who will provide instructions and monitor the exam.
- Work surface must be cleared. No other people or pets allowed in the room where applicant is taking the exam.
- DEP provides test results to examinee within 10 business days.
- 80% needed to pass any exam.
- Exams can be scheduled any time (24/7) with the exception of some holidays.



Certification Testing

Administrative Exam:

- Required for first-time applicants only
- Timed exam – 1 hour limit
- During the exam Chapter 245 and Storage Tank and Spill Prevention Act can be accessed via an online link. Paper copies may not be used during the exam
- Hard copies are mailed to applicants



Certification Reminders

Use the most recent version of DEP's Forms

What's New in Storage Tanks

- [PFOS and/or PFOA and related substances in Storage Tanks](#) (PDF)
- Electronic payments and document submittals:
 - [Quick Pay](#) for registration fees
 - [Online Registration & Fee Payment](#)
 - [Public Upload Portal for Document Submissions](#) | [Instructions](#) (PDF)
- [Summary Information on Underground Storage Tanks \(USTs\)](#) (PDF) - Updated 12/11/2024

Data / Searches →

Fact Sheets →

Technical
Guidance
Documents →

Forms and
Applications →





Pennsylvania
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Certification Reminders

Notify DEP of Changes:

- Address
- Employer
- Email address

Amendment application form for individuals.

Company application form marked as amendment.

For email changes only, simply email one of us.



Pennsylvania
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Certification Renewals

**DON'T FORGET TO SUBMIT YOUR RENEWAL
APPLICATION TO DEP!!**

**DEP CAN'T GRANT YOU CERTIFICATION RENEWAL
WITHOUT A RENEWAL APPLICATION!!!**



Pennsylvania
Department of
Environmental Protection

Release Reporting





Release Reporting

Certified individuals are required to report the following conditions to DEP if observed while performing services as a certified individual:

Release

Spills, leaks, discharges, etc. into water or soil OR that pose an immediate threat* to water or soil.

Suspected Contamination

Indications of a release:
holes in shell, failed leak tests, unusual vapor levels.

Confirmed Contamination

Observation of regulated substance in environmental media.



Release Reporting

Release

Release

Spilling, leaking, emitting, discharging, escaping, leaching or disposing from a storage tank into surface waters and groundwaters of this Commonwealth or soils or subsurface soils in an amount equal to or greater than the reportable released quantity determined under section 102 of CERCLA, and regulations promulgated thereunder, or an amount equal to or greater than a discharge as defined in section 311 of the Federal Water Pollution Control Act and regulations promulgated thereunder. The term also includes spilling, leaking, emitting, discharging, escaping, leaching or disposing from a storage tank into a containment structure or facility that poses an immediate threat of contamination of the soils, subsurface soils, surface water or groundwater.

Immediate Threat of Contamination

Spilling, leaking, emitting, discharging, escaping, leaching or disposing from a storage tank into a containment structure or facility in an amount equal to or greater than the reportable release quantity determined under section 102 of CERCLA and regulations promulgated thereunder. The term also includes spilling, leaking, emitting, discharging, escaping, leaching or disposing of petroleum into a liquid-tight containment sump or emergency containment structure in an amount less than 25 gallons as a result of a tank handling activity unless the certified installer providing direct onsite supervision has control over the regulated substance, the regulated substance is completely contained and, prior to the certified installer leaving the storage tank facility, the total volume of the regulated substance is recovered and removed.

Suspected Contamination

Confirmed Contamination



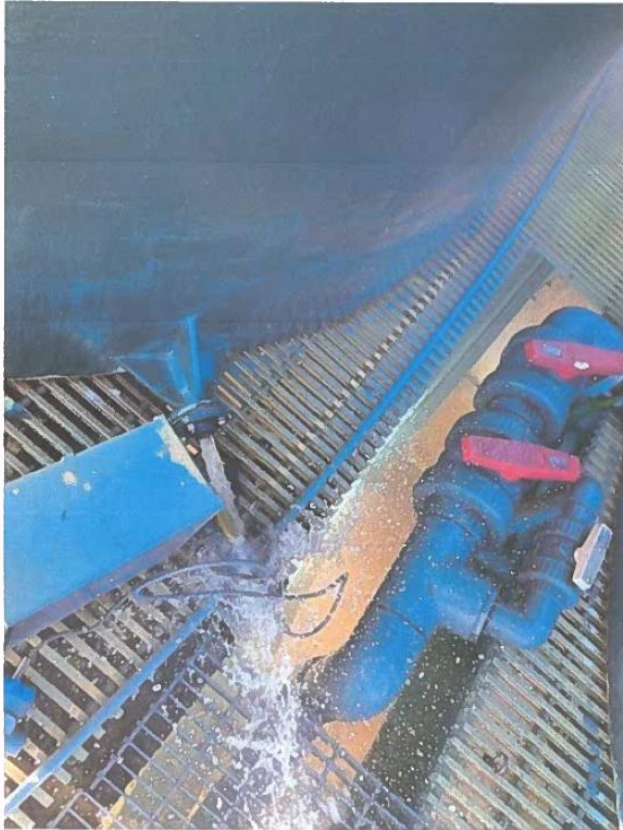
Pennsylvania
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Release Reporting

Release

Suspected
Contamination

Confirmed
Contamination



Release – Regulated substance escapes the storage tank system.

Product leaked into the emergency containment structure is generally considered a release.





Release Reporting

Release

Suspected
Contamination

Confirmed
Contamination

A Release does not include:

Petroleum leaks of less than 25 gallons into a liquid-tight containment sump or emergency containment structure as a result of a tank handling activity if:

- The certified installer providing direct onsite supervision has control over the regulated substance;
- The regulated substance is completely contained; and
- The total volume of the regulated substance is recovered and removed before the certified installer leaves the tank facility.



Release Reporting

Release

Suspected
Contamination

Confirmed
Contamination

Indications of a release, like:

- Unusual level of vapors from unknown origin.
- Evidence of a regulated substance or vapors in soils, basements, sewer lines, utility lines, surface water or groundwater.
- Sudden or unexpected loss of a regulated substance from a storage tank.
- Test, sampling, or monitoring results from a release detection method which indicate a release.
- Unusual operating conditions, which may be indicative of a release.
- Unexplained presence of water in a storage tank.
- Hole(s) discovered in a storage tank system.
- Other events, conditions or results which may indicate a release.



Pennsylvania
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Release Reporting

Release

Suspected
Contamination

Confirmed
Contamination

Regulated substance observed in environmental media (soil, water, backfill)





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Release Reporting

Release

Suspected
Contamination

Confirmed
Contamination

If you observe any of these while performing duties as a DEP-certified individual, you must report it to DEP in writing within 48-hours of observing the condition.

A large, orange, multi-pointed starburst graphic with a dark blue rectangular box in the center containing the text "Notification of Contamination".

Notification of
Contamination

[NOR/NOC Form](#)



Release Reporting

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

2620-FM-BECB0082 Rev. 6/2019
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.

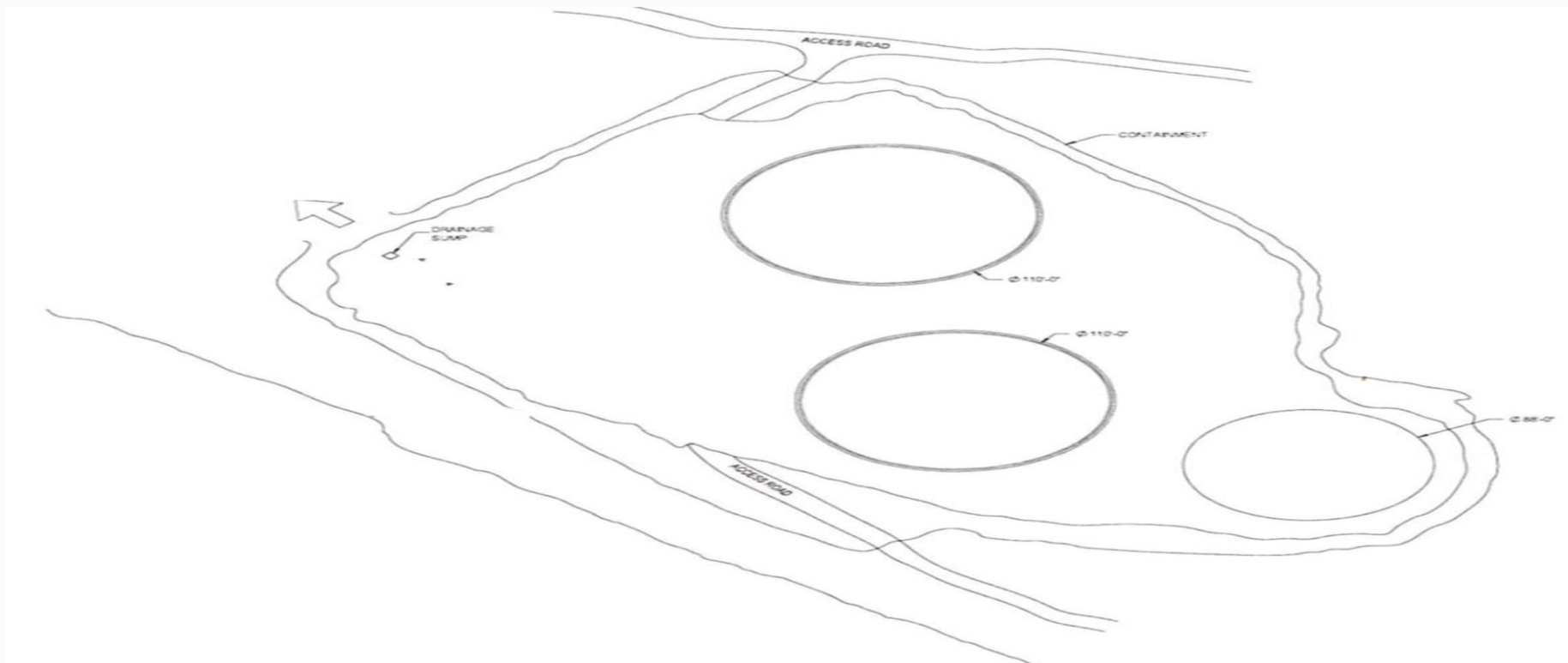
PLEASE SEND COMPLETED ORIGINAL FORM TO:
PA Department of Environmental Protection
Environmental Cleanup and Brownfields Program
Storage Tank Section
(and the appropriate address below, depending on where the FACILITY is located)

Northwest Region 230 Chestnut Street Meadville, PA 16335-3481 PHONE: 814-332-6945 / 800-373-3398 FAX: 814-332-6121 Counties: Armstrong, Butler, Clarion, Crawford, Elk, Erie, Forest, Indiana, Jefferson, Lawrence, McKean, Mercer, Venango, Warren	North-central Region 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	Northeast Region 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 400 Waterfront Drive Pittsburgh, PA 15222 PHONE: 412-442-4000 FAX: 412-442-4194 Counties: Allegheny, Beaver, Cambria, Fayette, Greene, Somerset, Washington, Westmoreland	South-central Region 909 Elmerton Avenue Harrisburg, PA 17110 PHONE: 717-705-4705 / 800-541-2050 FAX: 717-705-4830 Counties: Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York	Southeast Region 2 East Main Street Norristown, PA 19401 PHONE: 484-250-5900 FAX: 484-250-5961 Counties: Bucks, Chester, Delaware, Montgomery, Philadelphia



Pennsylvania
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Environmental Protection

Site Specific Installation Permits





Pennsylvania
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Environmental Protection

Site Specific Installation Permits

A Site-Specific Installation Permit (SSIP) is required for the following:

- New AST systems with a capacity > 21,000 gallons.
- New Large AST facilities with an aggregate aboveground storage capacity > 21,000 gallons.
- New Highly-Hazardous substance tank systems (*AST and UST*).



Pennsylvania
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Site Specific Installation Permits

Where required, the SSIP must have been issued to the facility **PRIOR** to the construction, reconstruction, or installation of **ANY** parts of the regulated AST system. That includes the emergency containment area.

Certified Installers and Inspectors on a job requiring an SSIP must verify that the SSIP has been issued **BEFORE** beginning activities to build, rebuild, or install the tank system.

Site Specific Installation Permits

- Once issued, the SSIP is a permit to install a tank system or systems at a particular location.
- DEP review of the permit application is not a technical review of the design of the tank system(s).
- Issuance of the SSIP is not DEP-approval of the system design. It is approval to install a tank system(s) in a particular location.



Pennsylvania
Department of
Environmental Protection

Site Specific Installation Permits

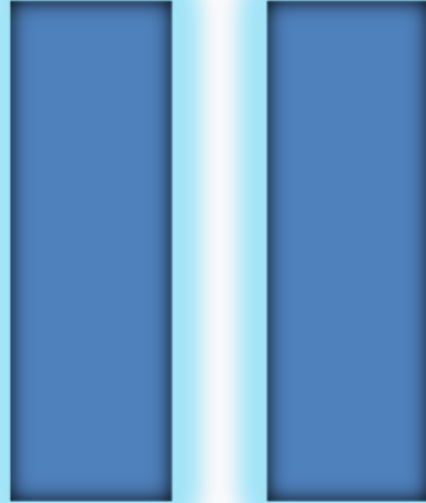
SSIP application forms, packages, checklists, and instructions can be found on the Storage Tanks website under “Forms and Applications,” or by following the link below.

[Site-Specific Installation Permit Documents](#)



Pennsylvania
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Questions?





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10-Minute Break





Pennsylvania
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Standards of Performance





Pennsylvania
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Environmental Protection

Standards of Performance

Certified inspectors are the eyes and ears of DEP.

DEP certifies inspectors to complete thorough inspection activities and report complete and accurate information to DEP using the forms that DEP provides.

All DEP forms have associated instructions. If you don't understand the form or the instructions, please call.

Forms and instructions can be found on the Storage Tanks website under "Forms and Applications".



Pennsylvania
Department of
Environmental Protection

Standards of Performance

DEP-certification is conditional on meeting the standards of performance in Chapter 245.



Standards of Performance

Installers and **Inspectors** must ensure both the tank handling or inspection activity AND the DEP report form are complete.

- An activity is not complete until it complies with Chapter 245, and applicable codes and standards.
- Incomplete paperwork does not stop the clock on your submission deadlines.

All DEP forms have comments sections. **Comments are expected.**



Pennsylvania
Department of
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Standards of Performance

Standards of Performance are found in § 245.132.

Except for submission deadlines and recordkeeping requirements, the Standards of Performance for certified companies and certified individuals are largely common sense.



Standards of Performance

Certified Companies and Certified Individuals are required to:

- Keep **current** standards and specifications so any work you do is in accordance with the most **current** version.
- Follow **current** standards, codes of practice, and equipment manufacturer's instructions to ensure you're doing the work correctly.
- Report releases and contamination to DEP.
- Conduct certified activities in such a way that you don't cause a release.



Standards of Performance

Certified Company/Individual Requirements(cont'd):

- Do not certify something is complete unless it is.
- Do not sign off on work that you didn't do or oversee.*
- Do not certify the inspection of an installation or modification unless you were there to determine that it was done properly and tested properly.*
- Do not tell an owner, operator or DEP that an activity is complete unless it is, and it is in compliance with the regulations.



Standards of Performance

Document Submission

Document	Due
Integrity Inspection (IS, OS)	60 days after
Lining Inspection	60 days after
Modification Inspection	30 days after
Modification Report	30 days after
Notification of Contamination/Release	48 hours after
Registration Form	30 days after

Failure to meet submission time-frames is a violation of the standards of performance for certified individuals and may lead to enforcement action.



Standards of Performance

245.132(a)(3) (*related to Standards of performance*) requires certified companies, certified installers, and certified inspectors to:

Maintain complete records of tank handling and inspection activities for a minimum of 10 years.

Remember: If you leave your company on less than amicable terms, you will need a copy of all your records.



Standards of Performance

245.132(a)(8) requires certified companies, certified installers, and certified inspectors to:

Adhere to accepted industry standards and applicable industry codes of practice when performing tank handling and inspection activities.



Standards of Performance

Installation, Modification, Repair, and Inspection standards have their own record generation and retention requirements.

“Complete” tank handling/inspection records are not limited to a copy of the DEP Inspection report form.

- Report form is a required submission.
- DEP may request additional documentation.



Standards of Performance

Both API and STI Inspection Standards include recordkeeping requirements,

Required documentation includes:

- Tank nameplate data
- Tank system specific details, including components, locations, changes
- Non-Destructive Evaluation (NDE) locations, readings, results
- Pictures, drawings, tables
- Inspection findings, deficiencies, recommendations
- Fitness for service determination



Standards of Performance

245.132(a)(9) requires certified companies, certified installers, and certified inspectors to:

Provide requested records and documentation to the Department under section 107(c) of the act (35 P.S. § 6021.107(c)).



Standards of Performance

- **Complete STI and API reports for all PA DEP regulated tank inspections for the last 10 years; including NDE records, drawings, pictures, etc. *(as required by the relevant standard)***
- **Should be available to DEP upon request.**

Standards of Performance

Signatures

I, the DEP Certified Inspector, have inspected the entire above referenced tank system. Based on my observation of the tank system, review of examination and test results and information provided by the owner, I certify under penalty of law as provided in 18 Pa. C.S.A. Section 4904 (relating to unsworn falsification to authorities), that the information provided by me is true, accurate, and complete to the best of my knowledge and belief.

Your signature on reports certifies the accuracy and completeness of the information provided.



Pennsylvania
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Standards of Performance

DEP accepts that the information provided by certified individuals is complete and accurate.

Unless it becomes evident that a certified individual is not reporting complete and accurate information to DEP.



Standards of Performance

Submission of Falsified Documents/Information

Falsified Documents

- Inaccurate
Installer/Inspector
Information
- False Testing Results
- Incorrect Dates
- Forged Records
- Omitted Violations
- Unreported Releases

Potential Enforcements

- Penalty
- Suspension
- Revocation
- Referral to AG

(Individual AND Company)



Standards of Performance

Impacts of Falsified Information

Receipt of falsified information from a certified individual/company requires:

- Significant follow-up and investigation
- Enforcement action
- Time to restore confidence

DEP reports are legal documents. Submission of inaccurate and/or incomplete information is not a “minor” paperwork violation.



Pennsylvania
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Environmental Protection

Industry Standards





Industry Standards (General)

NOTE:

Regulatory requirements shall prevail over Nationally-recognized codes and standards whenever there is a conflict.

Chapter 245 is not specific/explicit about all aspects of AST systems. Codes and Standards fill in those gaps.

Construction Standards

245.521(a) Aboveground storage tank construction shall meet or exceed Nationally recognized industry association codes of practice.

245.612(a) Aboveground storage tanks shall be designed, constructed and installed or modified in accordance with current codes of practice developed by Nationally recognized associations and the manufacturer's specifications.





Construction Standards

API 12-series
(12A, 12B, 12C, 12F, 12P)

API 12 C 1st ed. 1936

API 650

1st ed. 1961

ASTM D1998

1st ed. 1998

UL-142

1st ed. 1922

UL-2085

1st ed. 1994

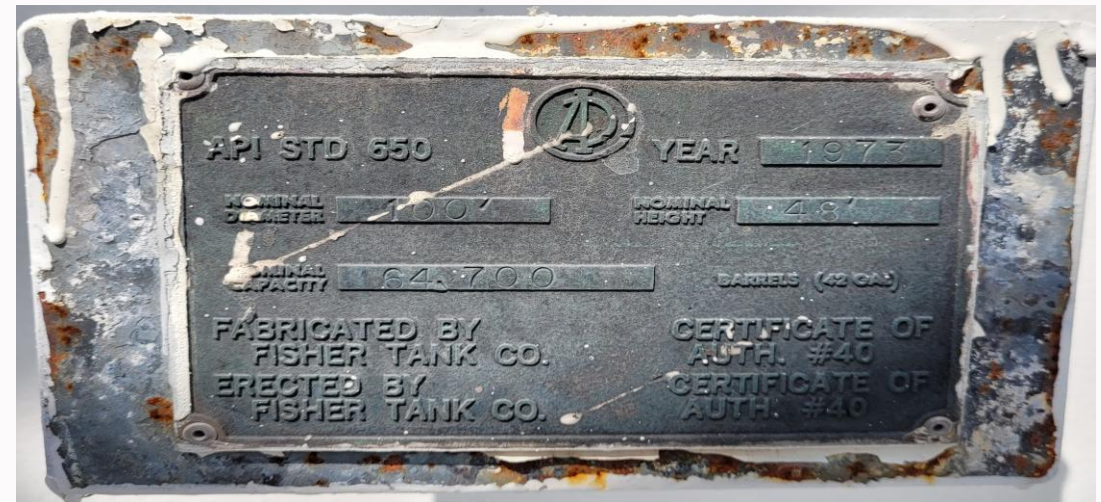
Construction Standards

If original construction standard/code can't be identified by nameplate or documentation:

P.E. must certify that the tank meets or exceeds requirements of a specified applicable standard/code.

OR

The tank should be permanently closed.



Construction Standards

If the tank was originally constructed to a non-applicable standard/code (*i.e. UL-58 UST*), it should be permanently closed.

USTS for aboveground use specifically prohibited in NFPA 30.

*Unless evaluated by a P.E. and installation date taken into consideration.



1000 Gallon Fuel Tank

\$2,300 · Sold

 Like

 Save

 Share

Description

Sandblasted primed and painted, "farmer's edition" clean and ready for diesel fuel, other tank sizes available ,WILL NOT RESPOND TO "IS THIS AVAILABLE " all prices are non negotiable

See less



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Installation & Modification Standards

245.521(a) New aboveground storage tank systems shall be installed in accordance with applicable codes of practice and consistent with manufacturers or fabricator's specifications as specified in § 245.522.

245.524(a) Modifications performed on aboveground storage tank systems shall be designed and implemented in accordance with current codes of practice developed by Nationally recognized associations.



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Installation & Modification Standards

245.612(a) Aboveground storage tanks shall be designed, constructed and installed or modified in accordance with current codes of practice developed by Nationally recognized associations and the manufacturer's specifications.

Installation & Modification Standards

Installation:

PEI RP 200

PEI RP 800

API 2610

Modification:

API 653

STI SP031

NACE No. 11/SSPC-PA

8





Inspection Standards

245.132(a) Certified companies, certified installers and certified inspectors shall:

8) Adhere to equipment manufacturer's instructions, accepted industry standards and applicable industry codes when performing tank handling, tightness testing or inspection activities or other non-tank handling activities on the project.



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Inspection Standards

API 653



API 570

*As-needed for piping
inspections*



STI SP001





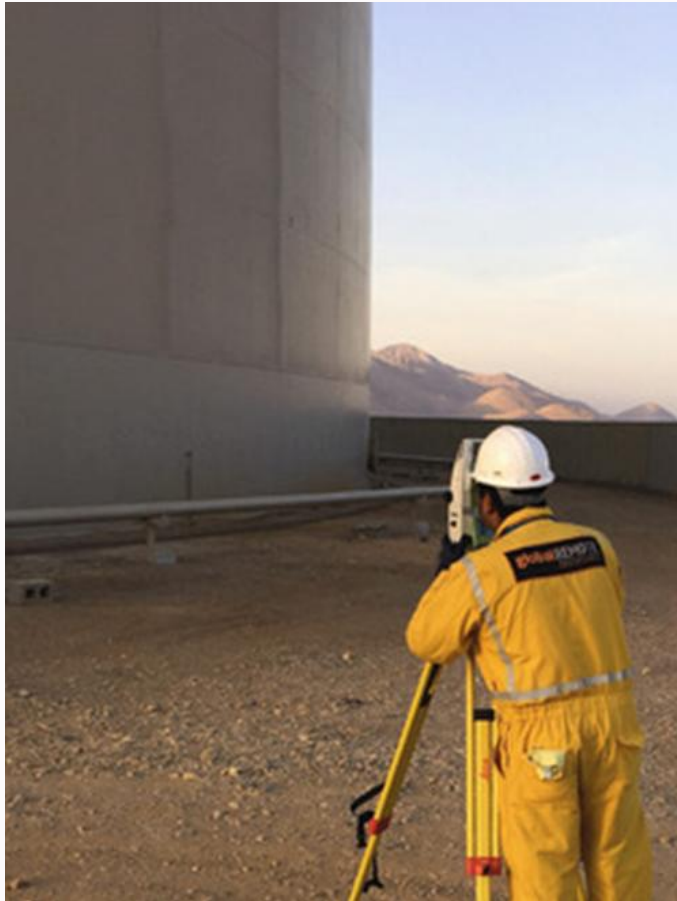
Inspection Standards

Out of Plane Survey

- Required at each Integrity Inspection conducted to API 653

245.552(b)(9) & 245.553(b)(11)

- Inspection must evaluate: tank system integrity and suitability for service.
 - API 653 4.1.3 (g) (*determining suitability for service*) “tank foundation, soil, and settlement conditions”.
 - Annex C Checklist for Tank Inspection C.1.1 measure foundation levelness and bottom evaluation.

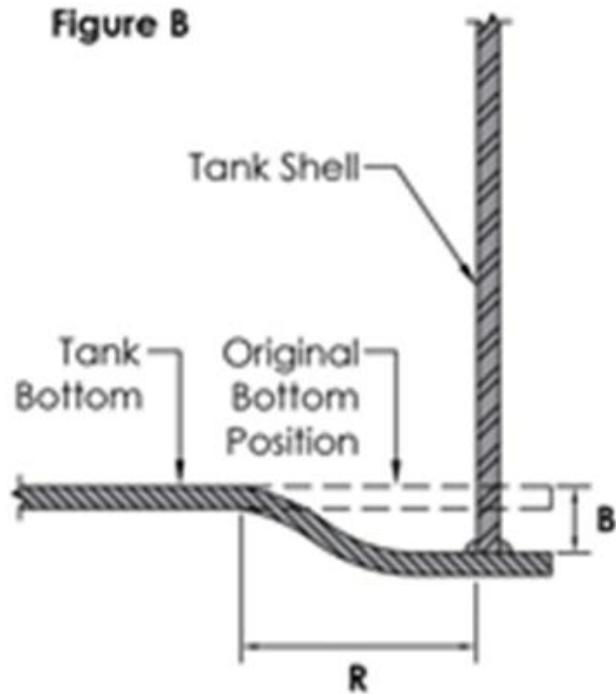




Inspection Standards

Edge Settlement Analysis

- Required at each **Out-of-Service** Integrity Inspection



245.552(b)(9) & 245.553(b)(11)

- 25 PA Chapter Code 245.553(b)(11) AST system integrity and suitability for service
 - API 653 6.4.1.1 (c) “identify and evaluate any tank bottom settlement”



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Inspection Standards

STI SP001 has recordkeeping/reporting requirements that are not covered in the DEP inspection report form. Primarily found in Chapters 7 and 10.

API 653 provides minimum requirements for written inspection reports in Section 6.9.

These are part of the certified inspector and company recordkeeping requirements.



Inspection Standards

Sound
Familiar?

Standards of Performance

245.132(a)(8) requires certified companies, certified installers, and certified inspectors to:

Adhere to accepted industry standards and applicable industry codes of practice when performing tank handling and inspection activities.

(You'll see this again later)



Stationary vs Non-Stationary

Stationary tank - an aboveground storage tank that is permanently affixed to the real property on which the tank is located

Permanently affixed - not able to be moved from its resting place by design or which is connected to real property by piping or other structure.



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Stationary vs Non-Stationary

Examples: Stationary





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Stationary vs Non-Stationary

Examples: Non-Stationary = Designed to be moved

*Please note: Don't forget to check with PA Labor & Industry or County Fire Marshalls



Facility Monitoring, Operations, and Maintenance



Facility Monitoring, Operations, and Maintenance Requirements



In-Service and Out-of-Service Inspections of all ASTs, regardless of capacity, include a review of the facility's records.

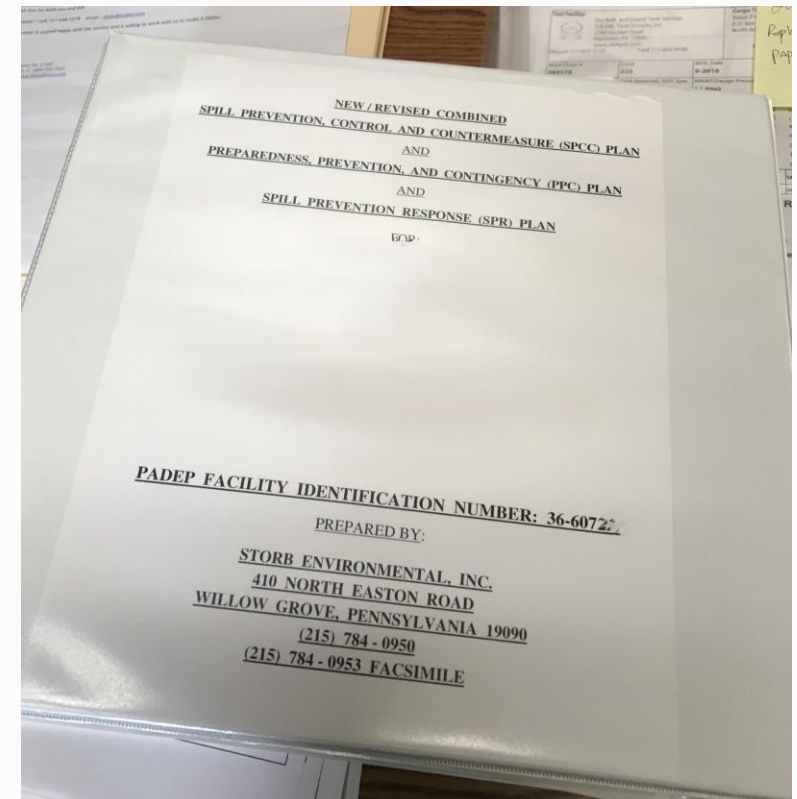
- 245.516
- 245.615

Facility Monitoring, Operations, and Maintenance Requirements

Required Facility Records

- Operation and Maintenance Plans
- Spill Prevention Response Plans
- Monthly Operation and Maintenance Inspections/Leak Detection
- 72-hour inspections
- Contractor Logs
- Installation and Modification Records
- Periodic Leak Tests
- Cathodic Protection System Specifications and Tests
- Piping Inspection Results

*Record Review is a mandatory part of an Integrity Inspection





Facility Monitoring, Operations, and Maintenance Requirements

XI. Record Review

1. Written operations and maintenance plan available on site: Yes No Not required
2. Spill prevention response plan is current and available on site: Yes No Not required
If yes, date of Spill prevention response plan: _____ (mm/dd/yy)
3. Monthly inspection records available for the past twelve months: Yes No
4. 72-hour inspection records available for the past twelve months: Yes No Not required
5. Does the facility have complete contractor log records? Yes No Not required
6. Is a leak test required at the time of this inspection? Yes No
If yes, did the test indicate a possible leak? Yes No Which method was used? _____

245.514(b) The owner and operator of an aboveground storage tank facility with an aggregate aboveground storage capacity greater than 21,000 gallons shall maintain a written or electronic log. At a minimum, each log entry must identify the name of the individual performing tank handling and inspection activities, the individual's signature or equivalent verification of presence onsite, the company name, the date of work, start and end times, and a brief description of work performed, including tank identification.

Also found in **245.603(c)** for small ASTs.



Facility Monitoring, Operations, and Maintenance Requirements

Contractor Logs

- Required at **facilities** with an aggregate capacity > 21,000 gallons
- Must include:
 - Certified individual's name
 - Certified individual's signature (or equivalent)
 - Certified individual's company name
 - Date of work
 - Start and end times
 - Description of work (incl. Tank ID)
- Facility must retain for entire life of Tank System(s), and 1 yr. after closure.



Facility Monitoring, Operations, and Maintenance Requirements

XI. <u>Record Review</u>			
1. Written operations and maintenance plan available on site:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not required
2. Spill prevention response plan is current and available on site:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not required
If yes, date of Spill prevention response plan: _____(mm/dd/yy)			
3. Monthly inspection records available for the past twelve months:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
4. 72-hour inspection records available for the past twelve months:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not required
5. Does the facility have complete contractor log records?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not required
6. Is a leak test required at the time of this inspection?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If yes, did the test indicate a possible leak? <input type="checkbox"/> Yes <input type="checkbox"/> No Which method was used? _____			

All ASTs:

Monthly Inspections

Large ASTs Only:

Written operations and maintenance
plan

72-Hour inspection records

Facility Aggregate volume > 21,000

Spill Prevention Response Plan

Contractor Logs



Facility Monitoring, Operations, and Maintenance Requirements

- **Monthly Operations and Maintenance Checks**

- Facility required to keep 12 months of records.
- Review for completeness and applicability to that tank system/facility.
- Should include the following (as applicable):
 1. A visual examination of the tank system for deterioration.
 2. A check of the containment area for accumulation of water and removal of water as necessary.
 3. Confirmation that containment drain valves are secured in the closed position when not in use.
 4. Monitoring of the leak detection system.
 5. A check of vents for restrictions.
 6. A check of ancillary equipment for operational malfunctions.
 7. An investigation of conditions that may be a fire or safety hazard, or that pose an environmental hazard.



Facility Monitoring, Operations, and Maintenance Requirements

- Monthly Operations and Maintenance Checks (continued):
 8. Observation for evidence of a release of regulated substance from the tank system.
 9. Aboveground storage tank grounding/bonding /lightning protection.
 10. Fuel monitoring (check for presence of water/microbes).
 11. Cathodic Protection Rectifiers.
 12. Thermal and pressure relief systems.
 13. Insulated ASTs – check for areas of moisture, external corrosion.
- Evaluate the applicability and appropriateness of the checklist (Should it contain anything else?)
- Did the facility follow up on unsatisfactory conditions?



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Facility Monitoring, Operations, and Maintenance Requirements

2630-FM-BECB0170 2/2012

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BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

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

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

Facility I.D.# _____ Inspection Completed By: _____ Date: _____

Comments: _____

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

Facility Monitoring, Operations, and Maintenance Requirements

Requirements for Cathodic Protection

- Galvanic
 - Must be surveyed at least every 3 years.
 - Records of the last 2 surveys must be kept.
- Impressed Current
 - Must be surveyed at least annually.
 - Must be checked for functionality at least every 60 days.
 - Facility must keep records of the last 3 checks.
- All cathodic protection systems must be surveyed within 6 months of installation or repair.



Facility Monitoring, Operations, and Maintenance Requirements

XIII. Cathodic Protection (CP)

None (check at least one)

- Tank is non-metallic.
- Tank bottom is not in contact with soil or electrolyte.
- Corrosion expert determined that tank bottom does not require cathodic protection.
- None of the above.

Non-Compliant

Impressed Current (check as appropriate)

- Tank bottom evaluated by a corrosion expert.
- CP system design specifications available.
- Rectifier is on and functioning within CP system design specifications.
- Documentation of last three rectifier checks recorded at least once every 60 days.

Most Recent CP System Survey:

Annually

Tester Name: _____

Date: _____ Result: _____
(Pass/Fail/Inconclusive)

Code of practice followed: _____

Previous CP System Survey:

Tester Name: _____

Date: _____ Result: _____
(Pass/Fail/Inconclusive)

Code of practice followed: _____

Galvanic (check as appropriate)

3-Year

- Tank bottom evaluated by a corrosion expert.

Most Recent CP System Survey:

Tester Name: _____

Date: _____ Result: _____
(Pass/Fail/Inconclusive)

Code of practice followed: _____

Previous CP System Survey:

Tester Name: _____

Date: _____ Result: _____
(Pass/Fail/Inconclusive)

Code of practice followed: _____



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Containment





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Emergency Containment



A containment structure to capture and contain any potential releases from an AST system.

Emergency Containment

Containment Capacity

Large ASTs:

110% capacity of the largest AST in the containment.

Small ASTs:

Sufficient capacity to contain possible releases, such as overfills, leaks, and spills. Generally, that's also 110% of the AST capacity!



Emergency Containment

Permeability

Large ASTs:

Installed after 10/11/1997

- 1×10^{-6} cm/s for the substance stored

Installed before 10/11/1997

- P.E. Verification

OR

- 1×10^{-6} cm/s for the substance stored

Small ASTs:

Sufficiently impermeable to contain any potential release for a minimum of 72 hours AND until it can be fully recovered



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Emergency Containment

P.E. Verification for Permeability of Large ASTs

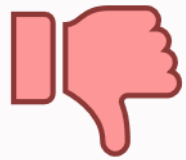
- Only valid for ASTs installed before **10/11/1997**

Written statement sealed by a P.E. **that the containment structure, coupled with the tank monitoring program and response plan is capable of detecting and recovering a release, and is designed to prevent contamination of the waters of the Commonwealth.**

Verification of Emergency Containment TGD

Emergency Containment

P.E. Verification for Permeability of Large ASTs



P.E. Certification of a Facility's SPCC Plan.



P.E. statement that the containment structure, paired with the facility's monitoring and response plan is capable of containing the entirety of a potential release until it can be fully recovered and is designed to protect the waters of the Commonwealth. The "entirety of a potential release" is a catastrophic failure of a full AST!



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Emergency Containment

Compatibility

The ability of two or more substances to maintain their respective physical and chemical properties upon contact with one another for the design life of the tank system under conditions likely to be encountered in the tank system.



Emergency Containment

Compatibility

- All AST systems
- AST systems, including emergency containment structures, must be compatible with the substance(s) stored.

245.2(c)(3): *(c) A person may not install a storage tanks system regulated under the act unless the system does the following:*

(3) Is constructed or lined with material that is compatible with the stored substance.

Emergency Containment

**Compatibility –
Substance not
compatible with
containment**



Secondary Containment

An additional layer of impervious material creating a space in which a release of a regulated substance from a storage tank may be detected before it enters the environment.

Secondary containment also known as *Release Prevention Barrier (RPB)*



Secondary Containment

Requirements:

- Impermeable (245.542(c) [Large ASTs] defines as 1×10^{-7} cm/s)
- Space for Leak Detection
- Monitored Monthly

*Compatible with the
substance stored*



Emergency Containment

Compatibility

- All AST systems
- AST systems, including emergency containment structures, must be compatible with the substance(s) stored.

245.2(c)(3): (c) A person may not install a storage tanks system regulated under the act unless the system does the following:

(3) Is constructed or lined with material that is compatible with the stored substance.



Secondary Containment

XV. Secondary Containment

1. Impermeable layer Yes No Describe: _____
2. Space for release detection Yes No Describe: _____
3. Monitored at least monthly for evidence of a release? Yes No Not Secondarily Contained



Double Walled Tanks

Double walled tanks may meet both Emergency and Secondary containment requirements when installed with the following:

- 1. Permanently installed spill prevention equipment** at the tank fill point or containment at the remote fill point.
- 2. An overfill alarm or prevention device or monitoring gauge and written shutdown procedure.**
- 3. Block valves** on all product lines (supply and return).
- 4. Solenoid valve or antisiphon device**, if applicable.

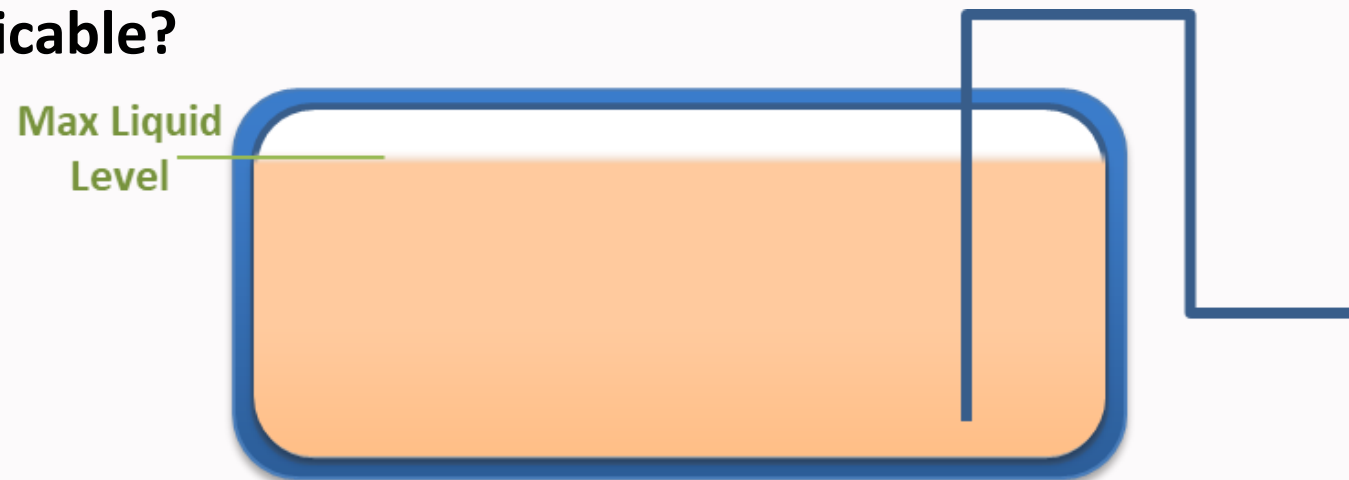


Double Walled Tanks

Double-walled AST Containment

Solenoid Valve or Anti-siphon Device (if applicable)

What's applicable?



Double Walled Tanks

Are these “double walled” ASTs, truly double walled ASTs?





Pennsylvania
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Double Walled Tanks

Technical Bulletin Document for DW tanks with shell penetration below maximum liquid level.

Pennsylvania Department of Environmental Protection
Division of Storage Tanks
August 2, 2019

IMPORTANT NOTICE

Double-Walled ASTs with Uncontained Tank Shell Penetrations Below the Maximum Product Level

Small aboveground storage tanks (ASTs) must be installed with both secondary containment to allow a release from an AST to be detected before it enters the environment and emergency containment to contain any possible release from the tank system. Small double-walled ASTs may meet both secondary and emergency containment using the secondary tank, if operated with the spill and overfill protection controls described in 25 Pa. Code, §245.612(d).

During routine inspections, inspectors may encounter small double-walled ASTs with tank shell penetrations, such as manways and blinded nozzles, below the maximum product level. Section 245.612(d) states that, "Tanks shall be installed with [...] emergency containment to contain possible releases, such as overfills, leaks and spills." The tank shell penetrations described above are not contained within the secondary tank. A release from these single-walled portions of the AST system would not be contained and would impact environmental media.

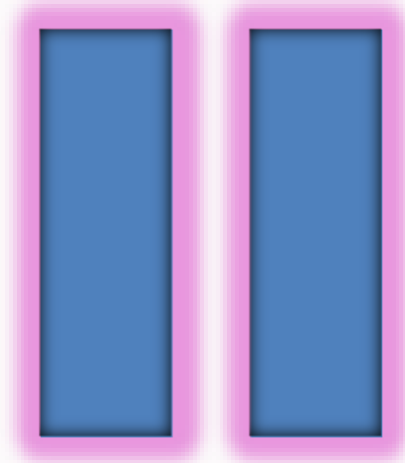
A double-walled small AST with an uncontained tank shell penetration below the maximum product level will not meet the emergency containment requirements using the secondary tank, and it will need additional emergency containment structures or equipment to satisfy the requirements of §245.612(d).

In order to prevent contamination of environmental media by releases from aboveground storage tanks, correct interpretation of the regulations and evaluation of containment structures is important. If you have questions or desire clarification of the above, please contact the Division of Storage Tanks at (717) 772-5599 and ask to speak with a member of the Aboveground Storage Tank Unit.



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Pause for Questions





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10-Minute Break





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Linings





Linings

- Must be chemically compatible with stored substance.
- Must be applied and cured in accordance with the manufacturer's specifications.
- Must extend up the side of the tank a minimum of 18 inches when used to protect the bottom of a tank.
- Must be examined for blisters and air pockets and tested for pinholes. Defects must be repaired prior to placing tank back in service.



Linings

- Installation and modifications need to be performed by a DEP-certified **TL**.
- Inspections of linings need to be performed by a DEP-certified **IAF**.
- Installation, Modification, and Removal of Internal Linings are Major Modifications, requiring a **Modification Inspection**.



Linings

Lining Inspections

- Required for Large, internally-lined Tanks (> 21,000 gallons)
- Maximum 10-year interval
 - * Unless approved for an extended interval by DEP
- Required part of an Out-of-Service Inspection
 - Submit the Lining Inspection Summary with the Integrity/Installation Inspection Summary



Linings

2630-FM-BECB0014 12/2018
Form



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

FOR DEP USE ONLY

Reviewer _____
Date _____
Entered by _____
Date _____

ABOVEGROUND STORAGE TANK LINING INSPECTION SUMMARY

I. Facility Information

Facility I.D. Number _____
Facility Name _____
Facility Address _____

Municipality _____

II. Inspector Information

Name _____
Certification number _____
Phone _____
E-mail _____
Employer _____
Employer certification number _____

III. Tank Identification

DEP Tank ID number ____A
Owner's Tank ID Number ____
Nominal Capacity (**gallons**) _____
Size: diameter _____(ft) length/height _____(ft)
Substance stored _____
Original construction code _____
Installation Date _____

IV. Inspection Date(s)

Completion of this inspection _____
Lining system installed _____
Last lining inspection _____
Next lining inspection due _____
 Next inspection date to be determined after repairs
and before tank is returned to service.

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



Linings

Lining Inspection Summary Form

- The lining inspection summary form is for Periodic Lining Inspections.
- A lining installation or repair is a Major Modification, and as such requires use of the Modification Inspection Report form.



Linings

V. Lining System Design/Installation Information

Lining System Manufacturer Name:

Lining System Material:

Original design/installation specifications were available? Yes No

Lining System Product Name:

Lining Standard Used:

Lining installed by "TL" certified installer Yes No

"TL" Name: _____

Certification number: _____

Documentation of this information is part of the facility's recordkeeping requirements.



Linings

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

Certified Inspector's Signature

Date

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

Name (Please Print)

Title

Phone Number

Signature

Date

VIII. **Lining System Evaluation**

Evaluation Method(s):

Visual

Adhesion Measurement

Audible Testing

Low-Voltage Holiday Testing

High-Voltage Holiday Testing

Other _____

IX. **Lining System Evaluation Results** Describe the results of the evaluation method(s), including, where applicable, observed lining deficiencies, numeric results, and number and location of holidays, etc.



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Linings

What forms do I need to submit?

New Lining Installation/Repair – Modification Report (Installer), Modification Inspection (Inspector)

10-year Lining Integrity Inspection – Lining Inspection

OS integrity Inspection for tank with Liner – Lining Inspection, OS Integrity Inspection Report



Linings

Extended Interval Lining Inspection

- An extension of the 10-year lining inspection interval must be formally requested and approved by DEP*
- We require a **signed** letter from the **manufacturer**, stating that their specific liner, installed in that specific tank, is adequate for a **20-year lining inspection interval**. Quality assurance and quality control measures during installation are more stringent for these linings.

NOT...

- A letter from the manufacturer stating only that the liner **will last for 20 years**.



Linings

For a 20-year lining inspection interval, the following are required:

- Qualifications and Certifications held by the lining manufacturer's QA/QC inspector(s).
- Lining manufacturer's installation instructions and product specifications.
 - Specifications should include, blast requirements, anchor pattern requirements, recoat windows, acceptable DFT (dry film thickness) of installed product, temperature and humidity requirements, suitability for particular services/product compatibility (immersion in x,y,z product) etc.
- Detailed inspection notes from the TL performing the installation



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AST Closures





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AST Closures

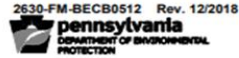
Different Types of Closure:

- Temporary Closure (TOS Status)
- Permanent Closure/Removal
- Permanent Closure-in-Place
- Change-in-Service (Regulated to Exempt)





AST Closure Checklist – Large ASTs



2630-FM-BECB0512 Rev. 12/2018

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BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

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PLANNING FOR PERMANENT CLOSURE CHECKLIST ABOVEGROUND STORAGE TANK SYSTEMS

- "Aboveground Storage Tank System Closure Notification Form" submitted to appropriate DEP regional office with copy sent to Pennsylvania Department of Labor and Industry (or appropriate office in Philadelphia or Allegheny County) at least 30 days prior to initiating permanent closure.
- "Storage Tanks Registration/Permitting Application Form" submitted to appropriate DEP regional office, if the AST systems are required to be registered and they are not.
- Pennsylvania "One-Call" contacted (1-800-242-1776) to have utilities mark their lines.
- Local municipality contacted to obtain any necessary permits or approvals for tank system closure.
- DEP certified remover hired to perform tank handling activities.
- Arrangements made for site assessment and laboratory analysis of samples collected.
- Safety Data Sheets (SDS) obtained for all hazardous substances stored in the AST systems to be closed.
- Arrangements made for treatment/disposal of any contaminated soils encountered.
NOTE: Unless this item is specified in the contract, it can remain a continuing burden of the owner/operator.
- "Storage Tanks Registration/Permitting Application Form" obtained to amend facility status, validated by the DEP certified remover and submitted to the Division of Storage Tanks after AST system closure is completed.
NOTE: Registration fee billing will continue until an amended "Storage Tanks Registration/Permitting Application Form" is submitted to the Division of Storage Tanks.

AST Planning for Permanent Closure Checklist

Closure Activities

ALL ASTs:

Closure activities, including tank cleaning (when part of a tank closure) must have direct onsite supervision and control by a DEP-certified AST remover.

AMR, AFR, AFMX
(as appropriate)

Follow:

- Applicable industry codes/standards
- Standards of performance for certified companies & individuals in Chapter 245.





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Closure - Large ASTs

Closure Notification Form

* Must be submitted **30** days before planned closure activities

[Aboveground Storage Tank System Closure Notification Form](#)

Online submission is available through the Public Upload Portal system.



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Closure - Large ASTs

Technical Guidance Document:

Closure Requirements for Aboveground Storage Tank Systems

- Methods of Closure
- Site Assessment
- Elements of Closure
- Sampling/Analytical Requirements
- Tank Handling Activities
- Closure Records



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Closure - Large ASTs

Waived/Limited Sampling Requirements

The AST Closure Guidance allows regional offices to waive or limit sampling requirements for AST system closures if certain conditions are met.

Must be requested and approved by DEP.



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Closure - Large ASTs

DEP “Book”

Site Assessment Requirements at Regulated Storage Tank System Closures

- Test Methods
- Test Parameters
- Action Levels (*select contaminants*)

Closure - Large ASTs

Closure Report

- **Clean closure:** Complete Closure Report Form can be maintained at the Facility OR Submitted to DEP (*Recommendation:* Submit a copy to DEP)
- **Contamination Observed/Discovered:** Complete Closure Report Form must be submitted to DEP.
 - Release should be reported to DEP and Corrective Action initiated (Chapter 245, Subchapter D)

[Aboveground Storage Tank System Closure Report Form](#)

Closure - Small ASTs

Tank:

- Cleaned
- Purged
- AND
- Vented (if remaining onsite)
OR
- Emptied and removed from site according to applicable Codes, Standards and Waste Regulations.





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Closure - Small ASTs



Piping:

- Removed or capped

Fill Ports:

- Secured, capped, or dismantled



Closure - Small ASTs

Site Assessment:

Owner to conduct a visual examination of the following for indications or evidence of a release of regulated substance:

- Surface
- Soil
- Area surrounding and underlying the storage tank system



Closure - Small ASTs

Site Assessment:

- Suspected releases: Investigated according to § 245.304
- Confirmed releases: Reported to DEP Regional Office according to § 245.305

NOTE: These are requirements for Owners/Operators. Certified Individual reporting requirements are different (see next slide).



Closure - Records

All ASTs:



- Storage Tank Registration/Permitting Application
 - Submit within 30 days of completing tank system closure.
- Facility Records:
 - Results of the Site Assessment completed at closure.
[and completed Closure Report for large ASTs]
 - Documentation of Release Investigations.



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Emergency Generators





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Emergency Generators

- Must have emergency containment & Secondary containment
- Overfill prevention
- Normal & Emergency Venting
- L&I safety and security if outside
 - Fencing, barriers, bollards, etc.
- Installed by DEP-certified individual





Emergency Generators

Gen-set systems may be shipped fully assembled, but that assembly may not comply with DEP regulations or applicable standards.

Often do not have:

- Spill Prevention
- Overfill Prevention
- Block Valves on Product Lines (constructed of proper materials)
- Acceptably Fire-resistant Product Piping



Emergency Generators

245.612

- (d) Double walled tank may meet both emergency and secondary containment requirements when the tank system is operated with spill and overflow protection controls including the following:
- (1) Permanently installed spill prevention at tank fill point or remote fill point
 - (2) And overflow alarm or prevention device or monitoring gauge and written shutdown
 - (3) Block valves on product lines**
 - (4) Solenoid valve or antisiphon device, if applicable**



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Emergency Generators

DEP-certified individuals and companies:

MAY NOT

Certify to an owner or operator or DEP that a tank system project is complete unless it complies with the regulations.

“Project certification applies to certified activities and nontank handling activities that may have been performed as part of the project.”



Emergency Generators

245.612

(a) Aboveground storage tanks shall be designed, constructed and **installed** or modified in accordance with current codes of practice developed by Nationally recognized associations and the manufacturer's specifications.

(c) Ancillary equipment, including piping, shall be designed, **installed** and modified in accordance with current codes of practice developed by Nationally recognized associations and the manufacturer's specifications.

Emergency Generators

NFPA 37

6.8 Fuel Piping, Valves, and Fittings

6.8.1* Piping shall be in accordance with Chapter 27 of NFPA 30, *Flammable and Combustible Liquids Code*, except that piping shall be steel or other metal and the provisions of 6.8.2 shall apply.

PEI RP1400

5.2.1 Aboveground Piping

5.2.1 Aboveground piping can be rigid, flexible or a combination of both. Do not use low melting-point materials, such as aluminum, or combustible materials, such as fiberglass or plastic, for aboveground primary piping unless approved by the AHJ. Product piping and flexible connectors should be approved specifically for aboveground use.



Emergency Generators

NFPA 30

22.13 Tank Openings Other than Vents

22.13.1 Each connection to an aboveground tank through which liquid can normally flow shall be provided with an internal or external valve located as close as practical to the shell of the tank.

27.6.6 Valves

Piping systems shall contain valves to operate the system properly and to isolate the equipment in event of an emergency.



Emergency Generators

PEI RP1400

5.3.3.1 Isolation Valves. Isolation valves on return or overflow lines should be used for testing and maintenance purposes.

5.8 Valves. All systems have a variety of valves. For each application, use the valve that is proper from both a material and operational perspective. Valves should be installed to facilitate the isolation of components so they can be serviced, maintained and tested with minimal down time. If available, use listed valves installed per manufacturer instructions and in accordance with applicable codes.



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Because valves are part of the piping system, they also may not be constructed of low melting-point materials.





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Emergency Generators

Why am I telling you this?

Before a DEP-certified installer can sign off on a registration form, the tank system installation must be complete, and the tank system must meet the requirements of Chapter 245.

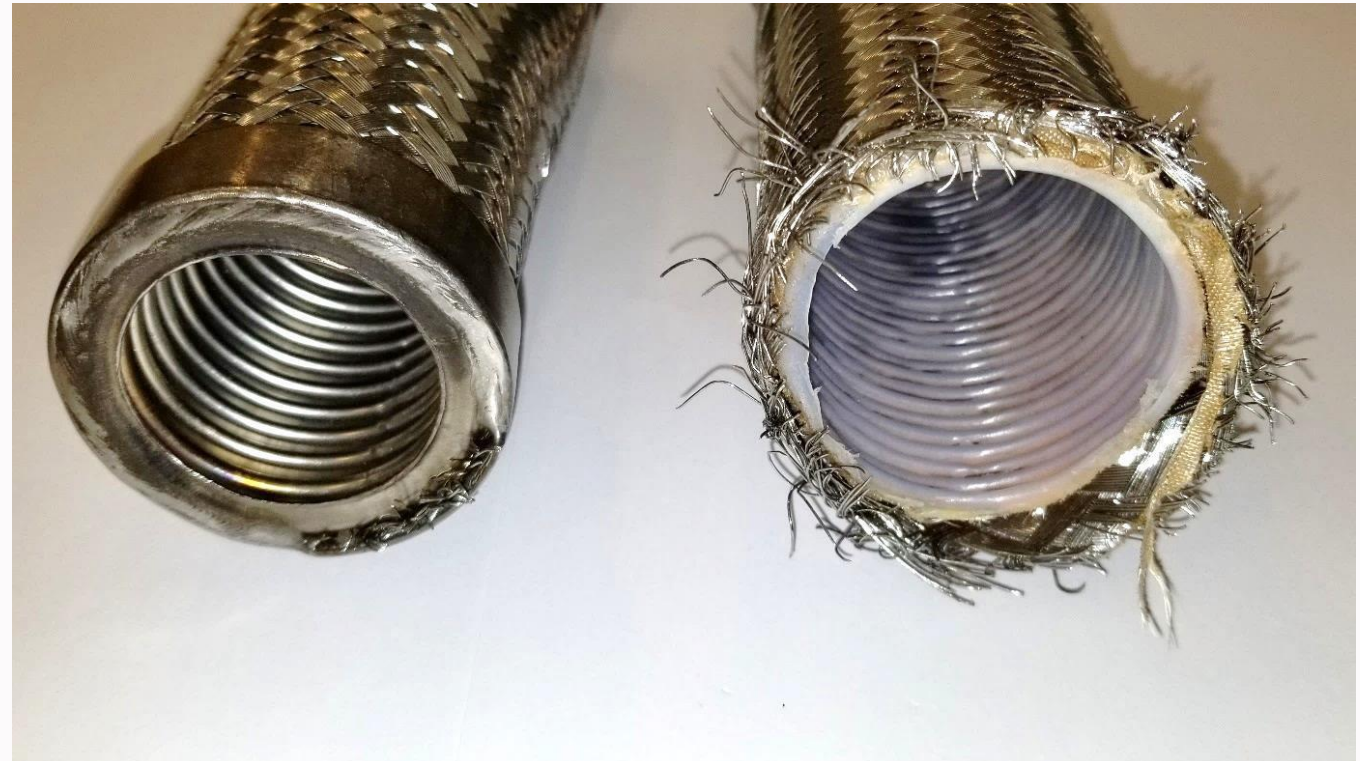
Includes meeting applicable industry standards and codes of practice for the entire tank system, regulated and “unregulated” portions.



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- Hoses used for ASTs are different than those used by UST.
- The left is an AST braided flexible line.
- The right is for underground use
(It's acceptable to be made of low melting point materials because it's supposed to be buried)





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Spill box that needed to be added to the genset after installation.





Emergency Generators

Technical Bulletin – Published June 27, 2023

Restates what has been DEP's interpretation.

- Clarifies that piping within the scope of an alternate standard is compliant, so long as it meets THAT standard.
 - i.e. SAE for Diesel Engines, UL 2200.
- If piping is not included in the scope of the alternate standard, it must meet NFPA 30 or PEI/RP1400.
- Certified Companies and Individuals may not sign off on genset systems with piping that does not meet applicable standards.



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Questions?





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The Department of Environmental Protection's mission is to protect Pennsylvania's air, land and water resources and to provide for the health and safety of its residents and visitors, consistent with the rights and duties established under the Environmental Rights Amendment (Article 1, Section 27 of the Pennsylvania Constitution).