

Storage Tank Advisory Committee In-person/Virtual Meeting

December 7, 2021 10:00 a.m.

Tom Wolf, Governor

Patrick McDonnell, Secretary

Membership & USTIF Updates

- Approval of Minutes from March 9, 2021 Meeting • Chairperson
- STAC Membership List Kris Shiffer, Chief, Storage Tanks Division
- Underground Storage Tank Indemnification Fund O Richard Burgan, Dept. of Insurance, USTIB



Renewable Diesel Fuel

- Matt Leuck, Technical Manager, Renewable Road Transportation at Neste
 - Matt Leuck will provide an overview of renewable diesel fuel, explaining what it is, how it's made, why it's different than biodiesel, and some performance benefits related to storage, combustion, and emissions.



DEP Updates

 Robotic inspection as part of Out-of-service inspection on large aboveground storage tanks
 Alex Eckman, AST Unit Chief, AST Unit



Robotic Floor Inspections

Does a robotic floor inspection meet the Out-of-Service Inspection requirements in 25 Pa. Code 245.553?





245.553(a):

Inspections must follow the guidelines of Nationally recognized association such as API 653[...]"



API 653 6.4.1.2:

If the internal inspection is required solely for the purpose of determining the condition and integrity of the tank bottom, the internal inspection may be accomplished with the tank inservice utilizing various ultrasonic robotic thickness measurement and other onstream inspection methods capable of assessing the thickness of the tank bottom, in combination with methods capable of assessing tank bottom integrity as described in 4.4.1.



245.553(b) requires an Out-of-Service Inspection to evaluate:

- Containment areas
- Foundation and supports
- Tank shell
- Tank roof
- Tank bottom
- Appurtenances

- Ancillary Equipment incl. piping
- Leak detection method
- Cathodic protection system
- Internal linings and coatings
- AST system integrity and suitability for service



245.553(c):

The aboveground storage tank bottom evaluation of metallic floors must be based on ultrasonic testing and visual examination and include at least one other method of nondestructive examination such as magnetic flux tests or vacuum tests of bottom lap welds[...]



Limitations

- Critical Zone
- Visual Inspection
- Welds
- "Third method" of NDE
- Hazardous Location Approval



Visual Inspections



Summary

- Robotic floor inspections can not take the place of a required Out-of-Service Integrity Inspection.
- Powerful technology with a lot of potential, but it's not where it needs to be, yet.



DEP Updates

Mobile Inspection and ePermitting Update

- \odot Kris Shiffer, Chief, Storage Tanks Division
- Eric Lingle, Environmental Group Manager, Registration and Certification Section



Old Business & New Business

Old Business – Chairperson

New Business – Chairperson

- Public Comment
- Approval of Meeting Dates for 2022

 Tuesday, March 8
 Tuesday, June 7
 Wednesday, September 7
 Tuesday, December 6

Adjourn - Chairperson





Kris Shiffer

Chief, DEP Division of Storage Tanks <u>kshiffer@pa.gov</u>