

Kentucky Department for Environmental Protection
Division of Waste Management
Underground Storage Tank Branch
300 Sower Boulevard, Second Floor – Frankfort KY 40601
(502) 564-5981

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UST Galvanic Cathodic Protection Evaluation

1. UST Facility Information

Agency Interest Number (AI)	2871		
UST Facility Name			
UST Facility Physical Address	Street Address: 104 E Lincolnway		
	City: La Porte	County: La Porte	Zip Code: 46350

2. Cathodic Protection Tester Evaluation (mark only one)

Date of Evaluation	8 / 15 / 2022		
Reason for Evaluation (mark only one)	☐ New Install (within 180 days) ☐ Re-evaluation following repair / modification (within 180 days) ☒ Routine (every 36 months) ☐ Re-evaluation following a failure (within 30 days)		
All protected structures at this UST facility pass the cathodic protection system evaluation and it is judged that adequate cathodic protection has been provided to the UST system. Complete Section 4.	☒ Pass		
One or more protected structure at this UST facility fail the cathodic protection system evaluation and it is judged that adequate cathodic protection has not been provided to the UST system. Complete Section 5.	☐ Fail		
If the remote and the local potential readings do not both indicate the same test result on all protected structure (both pass or both fail), the cathodic protection system shall be re-evaluate and/or retested by a corrosion expert. Complete Section 3.	☐ Inconclusive		

I certify that all the information provided on this document is true, accurate, and complete.

Cathodic Protection Tester Certification	Printed	Seth :Lynn	Date	8 / 15 / 2022
	Signature	<i>Seth Lynn</i>		
Certification Type (mark all that apply)	☐ NACE ☒ STV ☐ Other (specify):			
Certification	Number: CP-16644		Expiration Date: 8 / 5 / 2025	
Contact Information	Phone: (219) 333-1648		Email: seth@midwesttanktesting.com	
Company Name	Midwest Tank Testing			

3. Corrosion Expert Evaluation (mark only one)

The evaluation shall be conducted and/or evaluated by a corrosion expert when: a) an inconclusive is indicated for any protected structure since both the local and the remote structure-to-soil potentials do not result in the same outcome (both pass or both fail); b) repairs to galvanized or uncoated steel piping are conducted or c) supplemental anodes are added to the tanks and/or piping without following an acceptable industry code.

Date of Evaluation	/ /		
All protected structures at this UST facility pass the cathodic protection system evaluation and it is judged that adequate cathodic protection has been provided to the UST system. Complete Section 4.	☐ Pass		
One or more protected structure at this UST facility fail the cathodic protection system evaluation and it is judged that adequate cathodic protection has not been provided to the UST system. Complete Section 5.	☐ Fail		
I certify that all the information provided on this document is true, accurate, and complete.			

Corrosion Expert Certification	Printed		Date	/ /
	Signature			
	License #		License Expiration Date	/ /

AI 2871

4. Applicable Evaluation Criteria (mark all that apply)

Structure-to-soil potential more negative than -850mV with respect to a Cu/CuSO ₄ reference electrode with the protective current applied. Applicable to any galvanically protected structure.	☒ 850 On
Structure-to-soil potential more negative than -850mV with respect to a Cu/CuSO ₄ reference electrode with the protective current temporarily interrupted. Applicable to galvanic systems where anodes can be disconnected.	☐ 850 Off
Structure tested exhibits at least 100mV of cathodic polarization. Applicable to galvanic systems where anodes can be disconnected.	☐ 100 mV Polarization

5. Required Actions (mark only one)

Cathodic protection is adequate. No further action is necessary at this time. Next evaluation due 3 years from the date of this evaluation or if another reason listed in Section 2 (Reason for Evaluation) occurs.	☒ None
Cathodic protection may not be adequate. Re-evaluate during the next 90 days to determine if passing results can be achieved.	☐ Re-evaluation
Cathodic protection is not adequate. A repair or modification is necessary as soon as practical, but within the next 90 days.	☐ Repair & Re-evaluation

Next Cathodic Protection Evaluation shall be completed by / /

6. Description of Evaluated UST System

Tank	Product	Capacity (gal)	Tanks	Piping	Flex Connectors	
					STP	UDC
1	Regular	10k	STIP3	FRP	SS FLEX	SS FLEX
2	Premium	10k	STIP3	FRP	BOOTED	BOOTED
3						
4						
5						
6						

7. Description of Cathodic Protection System Repairs and/or Modifications

Provide detailed information about all modifications or repairs made to the cathodic protection system. Provide a detailed drawing below of the UST facility and cathodic protection systems. Sufficient detail shall be given in order to clearly indicate where the reference electrode was placed for each structure-to-soil potential that is recorded on the survey forms. At a minimum indicate the following:

- | | |
|--------------------------|--|
| a) Tanks | e) Anodes and Wires |
| b) Piping | f) Location of CP Test Stations |
| c) Dispensers | g) Each reference electrode placement (indicated by a code: 1, 2, T-1, T-2) corresponding with the appropriate line number in Section 9. |
| d) Buildings and Streets | |

- ☐ Supplemental anodes for metallic pipe (attach corrosion expert's design or documentation that industry standard was followed).
- ☐ Supplemental anodes for a sti-P³® tank (attach corrosion expert's design or documentation that industry standard was followed).
- ☐ Galvanically protected tanks/piping not electrically isolated (explain in "Remarks/Other" below).

Remarks/Other**Detailed Drawing**

Use this section to document measurements of continuity on UST systems that are protected by galvanic cathodic protection systems.

- ¹ Describe the cathodically protected structure being demonstrated as isolated from unprotected structures (e.g. premium tank bottom).
- ² Record the unprotected structure being demonstrated as isolated from the protected structure (e.g. premium tank fill riser).
- ³ Record the measured structure-to-soil potential of the cathodically protected structure "A" in millivolts (e.g. -921 mV).
- ⁴ Record the measured structure-to-soil potential of the unprotected structure "B" in millivolts (e.g. -915 mV).
- ⁵ Record the voltage observed between the protected and the unprotected structures when conducting point-to-point testing (e.g. 17 mV).
- ⁶ Document whether the test (fixed cell and/or point-to-point) indicated the protected structure was isolated, continuous or inconclusive.

Use this section to document a survey of a galvanic cathodic protection system by obtaining structure-to-soil potential measurements.

[illegible]

Comments

If you have questions on how to fill out this form please contact the cabinet at (502) 564-5981 or visit our web site at <http://waste.ky.gov/ust>. For copies of UST facility records please visit <http://eec.ky.gov/pages/openrecords.aspx> or email EEC.KORA@ky.gov.

⁷ Designate numerically or by code on the site drawing each local reference electrode placement (e.g. 1, 2, 3..., T-1, T-2..., P-1, P-2...etc.).

⁸ Describe the structure that is being tested (e.g. plus tank, premium piping, flex connector, etc.).

⁹ Describe where contact with the structure that is being tested is made (e.g. plus tank @ test lead, diesel piping @ dispenser 5/6, etc.)

¹⁰ Describe the exact location where the reference electrode is placed for each “local” measurement (e.g. soil @ plus tank STP, soil @ dispenser 5/6, etc.).

¹¹ Record the structure-to-soil potential measured with the reference electrode place "local" in millivolts (e.g. -865 mV).

¹² Recorded the structure-to-soil potential measured with the reference electrode placed “remote” (copy voltage that was obtained during continuity survey).

¹³ Indicate whether the tested structure passed or failed the -850 mV “on” criterion based on the interpretation of the test data.

Cathodic Protection Test - Site Diagram with Drill Holes & Helium Hits
CP Diagram

Test Location Information

Name and FID #	FID # 2871
Address	104 E Lincolnway
City/State/Zip	Laporte IN 46350

Test Date

Testing Company Information

Name	Midwest Tank Testing
Address	316 W. Indiana Ave.
City/State/Zip	Chesterton, IN 46304
Phone	800-975-1436
Tech Name	Seth Lynn
Cert #	CP-16655

