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)	16625						
UST Facility Name	Amoco						
LIST Equility Physical Address	Street Address: 8498 S. US Hwy 6						
UST Facility Physical Address	City: Kingsford Heights Éte County: Zip Code			Zip Code:	: 46532-		
	2. Cathodic Protection Test	er Evaluation (man	k only one)				
Date of Evaluation	11 / 16 / 2022						
Reason for Evaluation (mark only one)	□ New Install (within 180 days) □ Re-evaluation following repair / modification (within 180 days)						
	☐ 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.							
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.							
f the remote and the local potential readings do not both indicate the same test result on all protected structure (both pass or both ail), the cathodic protection system shall be re-evaluate and/or retested by a corrosion expert. Complete Section 3.							
I certify that all the information provided or	n this document is true, accurate, a	and complete.					
Cathodia Protection Tester	Printed ∰00@ã Æ^						
Cathodic Protection Tester Certification	Signature Chris Zell	?		Date	FF/FÎ/ÁG€GG		
Certification Type (mark all that apply)	□ NACE STI	Other (specify):					
Certification	Number: CP 16655	Expiration Date: 8 / 18 / 2025					
Contact Information	Phone: (800)975-1436	Email: chris@midwesttanktesting.com					
Company Name	Midwest Tank Testing						
3. Corrosion Expert Evaluation (mark only one)							
The evaluation shall be conducted and/or evaluation shall be conducted and/or evaluation the remote structure-to-soil potentials disconducted or c) supplemental anodes are ad-	o not result in the same outcome (both pass or both fail); b) repairs to galvan				
Date of Evaluation	1 1						
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.					iss		
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.							
I certify that all the information provided or	n this document is true, accurate, a	and complete.					
	Printed						
Corrosion Expert Certification	Signature		Date / /		1 1		
	License #		License Expiration	n Date	1 1		

AI <u>16625</u>							
		4.	Applicable Evaluation Crit	eria (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 disconnec		at least 100mV of cathoo	dic polarization. Applicable to g	galvanic systems where anode	s can be	☐ 100 mV Polarization	
			5. Required Actions	(mark only one)			
			necessary at this time. Next everason for Evaluation) occurs.	aluation due 3 years from the d	ate of this	⊠ 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 modi	fication is necessary as soon as	practical, but within the next 90	days.	☐ Repair & Re-evaluation	
Next Cat	hodic Protect	ion Evaluation shall be c	ompleted by 11 / 16	/ 2025			
	1	ı	6. Description of Evalua	ted UST System			
Tank	Product	Capacity (gal)	Tanks	Piping ST		P UDC	
1	Ü^*		• t^^	ØÜÚ	311	- OBC	
2	Ú¦^{		• t^^	ØÜÚ			
3							
4							
5							
6							
		7. Description	of Cathodic Protection Sys	tem Repairs and/or Modifi	cations		
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 b) Piping e) Anodes and Wires f) Location of CP Test Stations							
l '	pensers ildings and Streets	g) Each reference	electrode placement (indicated by a	code: 1, 2, T-1, T-2) corresponding	with the appro	opriate line number in Section 9.	
	Supplemental anodes for metallic pipe (attach corrosion expert's design or documentation that industry standard was followed).						
☐ Supplemental anodes for a sti-P ^{3 ®} 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).							
Garran	nouny protoctou	tarino, piping not electrically	Toolatoa (oxpiamim nomamore	varior solony.			
Remark	s/Other						
Detailed	Drawing						

Galvanic (Sacrificial Anode) Cathodic Protection System Continuity Survey Use this section to document measurements of continuity on UST systems that are protected by galvanic cathodic protection systems. Structure "A" Fixed Structure "B" Fixed Point-to-Point Fixed Isolated / Continuous Structure "A"1 Structure "B"2 Remote Voltage³ Remote Voltage⁴ Remote Voltage⁵ / Inconclusive⁶ Premium Tank Fill Riser -921 mV Premium Tank Bottom -915 mV Inconclusive Premium Tank Bottom Premium Tank Fill Riser 17 mV Isolated R^gular Tank Bottom STP Ris^r -960mV -30mV Isolated Vapor R^covery Rãs^r -78mV Isolated ATG RIser -19mV Isolated Premium Tank Bottom STP Ris^r -622mV Isolated Vapor R^covery Riser -985mV -358mV Isolated ATG Riser -20mV Isolated Comments

¹ Describe the cathodically protected structure being demonstrated as isolated from unprotected structures (e.g. premium tank bottom).

² Describe 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.

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Location Code ⁷	Structure ⁸	Contact Point ⁹	Local Reference Cell Placement ¹⁰	Local Voltage ¹¹	Remote Voltage ¹²	Pass / Fail / Inconclusive ¹³
Example 1	Plus Tank	Tank Bottom	Plus Tank STP Manway	-928 mV	-810 mV	Inconclusive
Example 2	Plus Piping	Dispenser 5/6	Under Dispenser 5/6	-890 mV	-885 mV	Pass
	Regular	Tank Bottom	STP Manway	-901mV		Pass
			VR Manway	-942mV		Pass
			ATG Manway	-858mV		Pass
			R1	-960mV		Pass
			R2	-965mV		Pass
	Premium	Tank Bottom	STP Manway	-1078mV		Pass
			VR Manway	-1027mV		Pass
			ATG Manway	-1062mV		Pass
			R1	-985mV		Pass
			R2	-982mV		Pass
Comments						

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.