CORROSION TECHNOLOGY SYSTEM LLC

9053 Millcliff Drive Cincinnati, Ohio 45231 Sam.vessel@outlook.com (513) 504-2428 STATE
FACILITY ID NUMBER
18406

UST Impressed Current Cathodic Protection System Report

1. UST Facility Information									
Al Number	22								
UST Facility Name	Simar's Conven	ience #2 Store							
	Street Address:	2068 E Market Stre	et						
UST Facility Physical Address	City: Nappanee	C	ounty: Elkhart		Zip C	ode: 46550			
	2. Cathodic Pro	otection Tester Eva	luation (mark o	nly one)					
Date of Evaluation	12 /	8 / 20	124						
Reason For Evaluation	✓ New Install	(within 180 days)	Re-evalua	ation following	repair / modific	ation (within 1	l80 days)		
(mark only one)	Routine (ev	ery 36 months)	Re-evalua	ation following	a failure (within	130 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 cathodic protection has not been provided to			evaluation and it	is judged that	adequate	☐ 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.								
I certify that all the information provided on this document is true, accurate, and complete.									
Cathodic Protection Tester Certification Signature Samuel L. Vessel Date						12 / 1	0 / 2024		
						12 / 1	0 / 2024		
Certification Type (mark all that apply)	✓ NACE	✓ NACE STI Other (specify)							
Certification	Number: CP04	4 #4097		Expiration [Date:	10 / 1	2 / 2027		
Contact Information	Phone : (513)	504-2428		Email:	Sam.ves	essel@outlook.com			
Company Name	Corrosion Techr	Corrosion Technology System LLC							
	3. Corrosio	on Expert Evaluation	n (mark only o	ne)					
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	12 / 8	/ 2024							
All protected structures at this UST facility pa protection has been provided to the UST syst			on and it is judge	ed that adequa	ate cathodic	✓ 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.									
I certify that all the information provided on this document is true, accurate, and complete.									
	Printed	Samuel L. Vessel			Date	12 / 1	0 / 2024		
Corrosion Expert Certification	Signature	Samuel L.	lessel		Date	12 / 1	0 / ZUZ 4		
	License #	Corr Specialist, 0	P04 # 4097	License Ex	cpiration Date	10 / 1	2 / 2027		

			4. Applica	ation Evaluat	tion Crite	ria (marl	k all that	apply)				
	soil potential more nterrupted (instant-	•	50mV with resp	ect to a Cu/CuS	O4 referenc	e electrode	with the p	rotectiv	e current		✓ 850 C	off	
Structure tes	ted exhibits at least	100mV of catho	dic polarizatio	n.							100 mV Polarization		
				5. Required	Action (n	nark only	one)						
	tection is adequate. reason listed in Sec				ct evaluation	due 3 yea	rs from the	date of	this eva	luation	✓ None		
Cathodic pro	tection may not be	adequate. Re-ev	aluate during tl	he next 90 days t	o determine	if passing	results car	n be acl	nieved.		Re-evaluation		
Cathodic pro	tection is not adequ	ate. A repair or	modification is	necessary as so	on as pract	ical, but wi	thin the ne	xt 90 da	ys.		Repai	ir & Re-evaluation	
Next Cath	odic Protection	Evaluation	shall be co	mpleted by		12	1	8	1	2024			
			(6. Description	of Evalua	ted UST S	System						
Tank	Tank Product Capacity (gal) Tanks Piping							Flex STP	Connectors				
1	Premium UL		10,000	STiP3	Coated & E	Bonded			FRP		Steel w/C		
2	Regular UL		10,000	STiP3	Coated & E	Bonded			FRP		Steel w/C	P Steel w/CP	
3	Diesel Fuel		10,000	STiP3	Coated & E	Bonded			FRP		Steel w/C	P Steel w/CP	
4	Kerosene Fu	el	4,000	STiP3	Coated & E	Bonded			FRP		Steel w/C	P Steel w/CP	
5													
6													
			-	7. Impressed	l Current	Rectifie	r Data						
Manı	ufacturer	Mod		-	al Number		l	ited DO	Outpu	t	Initial D	esign or Lastly	
	Universal Rectifier ES-II							Volts Amps		Recomr Volts	nended Output Amps		
0	ar resemble	Tap Se			Output		20			14.58	2.34		
Event	Date	Coarse	Fine	Volts	Am	ıps	Hour N	leter	eter		С	omments	
"As Found"	12/8/2024	NA	NA	NA	N	A	NΑ	١			Installed New CP Rectifier		
"As Left"	12/8/2024	1	2	1.732	0.0	92	NA	١			Commissioned Rectifier		
	8	. Impressed	Current Po	sitive & Nega	ative Circ	uit Meas	urement	ts (Ou	tput Ar	nperaç	je)		
Complete	if system is desig	ned to report o	n measureme	nts (e.g., individ	dual lead w	ires for ea	ach anode	are ins	talled ar	nd meas	surement shu	nts are present).	
Circuit	1	2	3	4	5	6	7	[[в	9	10	Totals	
Anode (+)	0.040	0.060	0.090	0.050	0.070	0.060	0.060	0.0)50			0.480	
Tank (-)	1.722	1.722	1.722	1.723	1.723	1.725	1.724	1.7	723			1.723	
			•	thodic Prote									
	etailed information otection systems.											the UST facility and ructure-to-soil	
potential tha	at is recorded on th	ne survey forms	s. At a minimu	ım indicate the	-					·			
a) Tanks b) Piping		e) f)	Anodes and W Location of CP										
c) Dispens		g)			nent (indicate	ed by a code	e: 1, 2, T-1,	T-1) cor	respondin	g with th	e appropriate lir	ne number in Section	
d) Building	and Streets												
	ional anodes for a		•	•	•	design).							
	iirs or replacement												
	le header cables re						ka/Othar" k	ha/au/)					
impre	essed current prote	-отей тапкs/plp	ing not electri	cany continuous	o (expiairi i	ıı Kemarı	No/Ollier I	JeiUW).					
			•		•		-		_			ated at 20V -	
Rema	rks/Other		•	pressed curr	ent (MM	O) mixe	d metal	oxide	s anod	es and	d a eight (8) circuit anode	
		shunt box	•										

WO									
Descrip	otion of	f Cathodic Protect	tion System Repairs aı	nd/or Modifications (co	ontinued from Section	on 9)			
Detailed Drawings			See attached Site Sketch Drawing!						
Complete to docum	nent me		urrent Cathodic Protectuity on UST systems that a			ection systems.			
Structure "A" ¹	,	Structure "A" Fixed Remote Instant Off Voltage 3 Structure "B" Fixed Remote Instant Off Voltage 4		Point-to-Point Voltage Difference ⁵	Isolated / Continuous Inconclusive ⁶				
Plus Tank Bottom	Plu	ıs Steel Line @ STP	-915 mV	-908 mV		Inconclusive			
Plus Tank Bottom	Plu	ıs Steel Line @ STP	50' North of Tank Pad		1 mV	Continuous			
Premium UL Tank Bottom	Rect	ifier Negative	-1211	-1211	3.90	Continuous			
Regular UL Tank Bottom	Rect	ifier Negative	-1210	1211	4.50	Continuous			
Diesel Tank Bottom	Rect	ifier Negative	1209	1211	4.20	Continuous			
Kerosene Tank Bottom	Rect	ifier Negative	1210	1211	4.00	Continuous			
	+								
	+								
	+								
	+								
			-						
	+								
	1								
	1								
				.		T			

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

Comments

² Describe the "other" protected structure being demonstrated as continuous (e.g. plus steel line @ STP).

Record the fixed remote instant off structure-to-soil potential of the protected structure "A" in millivolts (e.g. -915 mV).

⁴ Record the fixed remote instant off structure-to-soil potential of the protected structure "B" in millivolts (e.g. -908 mV).

⁵ Record the voltage difference observed between structure "A" and "B" when conducting point-to-point testing (e.g. 1 mV).

⁶ Document whether the test (fixed cell and/or point-to-point) indicated the protected structure was isolated, continuous or inconclusive

11. Impressed Current Cathodic Protection System Survey

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

Location Code ⁷	Structure ⁸	Contact Point ⁹	Locate Reference Cell Placement ¹⁰	On Voltage ¹¹	Instant Off Voltage ¹²	Ending Voltage ¹³	Voltage Change ¹⁴	Pass / Fail ¹⁵	
Code					voitage	100 mV F	Polarization	1	
Example 1	Plus Tank	Tank Bottom	Soil @ UNL tank STP Manway	-1070 mV	-875 mV			Pass	
Example 2	Diesel Tank	Dispenser 7/8	Soil @ DSL tank Manway	-810 mV	-680 mV	-575 mV	105 mV	Pass	
TP01	Premium Tank	Rectifier Negative	Tank West End	-1885	-1202			PASS	
TP02	Premium Tank	Rectifier Negative	Tank Center	-1582	-1181			PASS	
TP03	Premium Tank	Rectifier Negative	Tank East End	-1752	-1201			PASS	
TP04	Regular Tank	Rectifier Negative	Tank East End	-1807	-1209			PASS	
TP05	Regular Tank	Rectifier Negative	Tank Center	-1769	-1201			PASS	
TP06	Regular Tank	Rectifier Negative	Tank West End	-1891	-1204			PASS	
TP07	Diesel Tank	Rectifier Negative	Tank West End	-1825	-1202			PASS	
TP08	Diesel Tank	Rectifier Negative	Tank Center	-1745	-1191			PASS	
TP09	Diesel Tank	Rectifier Negative	Tank East End	-1825	-1196			PASS	
TP10	Kerosene Tank	Rectifier Negative	Tank East End	-1767	-1198			PASS	
TP11	Kerosene Tank	Rectifier Negative	Tank Center	-1593	-1161			PASS	
TP12	Kerosene Tank	Rectifier Negative	Tank West End	-1770	-1169			PASS	
TP13	Remote Read	Rectifier Negative	50' North of Tanks	-1760	-1211			PASS	
TP14	Remote Read	Rectifier Negative	50' South of Tanks	-1821	-1210			PASS	
TP15	Premium STP	STP Flex Pipe	Installed 2 anodes	-1263	-716 before			PASS	
TP16	Regular STP	STP Flex Pipe	Installed 2 anodes	-1279	-445 before			PASS	
TP17	Diesel STP	STP Flex Pipe	Installed 2 anodes	-1268	-716 before			PASS	
TP18	Kerosene Flex	Flex Pipe	Installed 2 anodes	-1293	-786 before			PASS	
TP19	Dispenser 1-2	Flex Pipe	Installed 3 anodes	-1498	-686 before			PASS	
TP20	Dispenser 3-4	Flex Pipe	Installed 2 anodes	-1595	-641 before			PASS	
TP21	Dispenser 5-6	Flex Pipe	Installed 2 anodes	-1262	-674 before			PASS	
TP22	Dispenser 7	Flex Pipe	Installed 1 anode	-1495	-618 before			PASS	

Comments

If you have questions about how to complete his form, please call (513) 504-2428 or email Sam.vessel@outlook.com.

⁷ Describe the cathodically protected structure being demonstrated as isolated from unprotected structures (e.g. plus tank bottom).

⁸ Describe the "other" protected structure being demonstrated as continuous (e.g. plus steel line @ STP).

⁹ Record the fixed remote instant off structure-to-soil potential of the protected structure "A" in millivolts (e.g. -915 mV).

¹⁰ Record the fixed remote instant off structure-to-soil potential of the protected structure "B" in millivolts (e.g. -908 mV).

¹¹ Record the voltage difference observed between structure "A" and "B" when conducting point-to-point testing (e.g. 1 mV).

¹² Document whether the test (fixed cell and/or point-to-point) indicated the protected structure was isolated, continuous or inconclusive

^{13 100} mV Polarization test only – Record the voltage observed at the end of the test period (e.g. 575 mV).

^{14 100} mV Polarization test only – Subtract the final voltage from the instant off voltage (e.g. 680 - mV - 575 mV = 105 mV).

¹⁵ Indicate if the tested structure passed or failed one of the two acceptable criteria (850 instant off or 100 mV polarization) based on interpretation of the data.

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UST Rectifier Operating Record for Impressed Current Cathodic Protection System (60-day Log)

1. UST Facility Information												
Al Number			22									
UST Facility	Name		Simar's Convenience #2 Store									
LIST Equility	Physical Addre	00	Street Addres	S:		2068	8 E Market Street					
UST Facility	Physical Addres	55	City: Nappanee		County:	Elkhart	Zip Code: 4	6550				
			2.	Impressed	Current Re	ectifier Data						
Manufacturer I		/lodel	Serial Number		Rated D	C Output	Initial Design or Lastly Recommended Output					
						Volts	Amps	Volts	Amps			
BK Corrosio	BK Corrosion - Universal		ES-II	242349		20	10	1.732	0.920			
Date	Turned On	Тар	Settings	DC O	utput	Hour Meter	Initials	Comments				
Inspected (every 60 days)	Turrieu Ori	Coarse	Fine	Volts	Amps	Hour weter	illidais	Com	illents			
12/8/2024	Energized	1	2	1.732	0.920	NA	SLV	Installed Ne	w CP System			

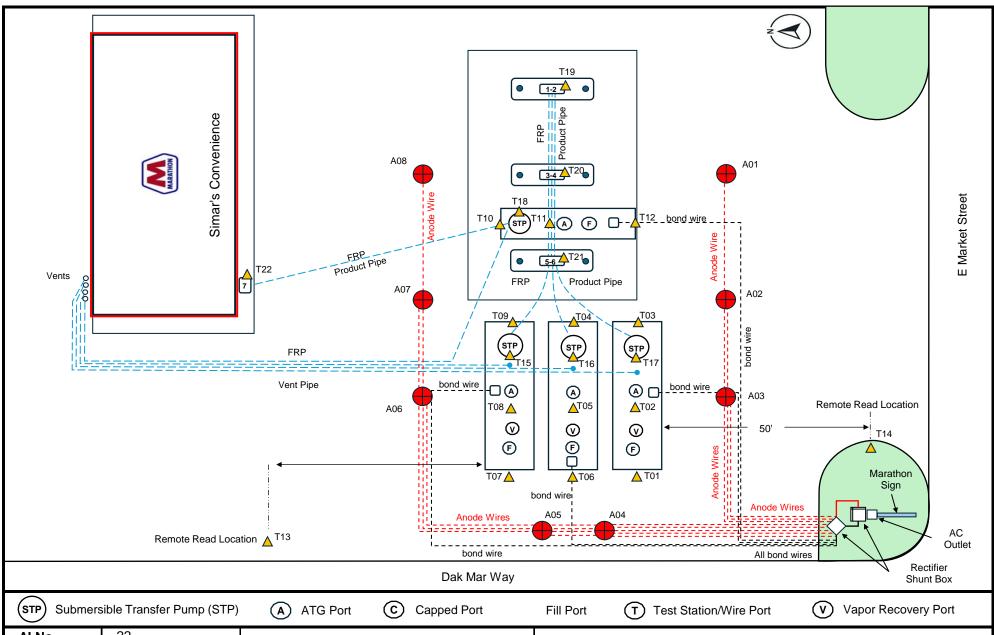
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1. UST Facility Information												
Al Number			22									
UST Facility	Name		Simar's Convenience #2 Store									
UCT Facility	Dhusiaal Addus		Street Addres	s:		2068	E Market Street					
UST Facility	Physical Addre	SS	City:	Nappanee		County:	Elkhart	Zip Code: 46	6550			
			2.	2. Impressed Current Rectifier Data								
Manufacturer N		Model	Serial Number		Rated Do	C Output	Initial Design or Lastly Recommended Output					
					Volts Amps		Volts	Amps				
BK Corrosio	K Corrosion - Universal		ES-II	242349		20	10	1.732	0.920			
Date Inspected	Turned On	Тар	Settings	DC O	utput	Hour Meter	Initials	Com	ments			
(every 60 days)		Coarse	Fine	Volts	Amps				Commonto			



 Al No.
 22

 FID
 18406

 County
 Elkhart

 Date.
 12/8/2024

 Contact
 Mr. Gurmail Singh

 Contact No.
 (574) 238-8938

Simar's Convenience # 2

2068 E Market Street Nappanee, Indiana 46550 Elkhart County Marathon Gas

CORROSION TECHNOLOGY SYSTEM LLC

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