

Testing and Inspection Certificate

Tanknology Inc. 11000 North MoPac Expressway, Suite 500, Austin, TX 78759 800-800-4633 www.tanknology.com

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8/28/2024 Test Date Test Purpose

Tanknology WO# CP1-1356413

COMPLIANCE

Customer PO#

Customer

SIMARS CONVENIENCE 2 2068 E MARKET ST NAPPANEE, IN 46550

Location

SIMARS CONVENIENCE 2 (NAPPANEE)

2068 E MARKET ST NAPPANEE, IN 46550

Attn: Gurmail Singh

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Attn: Gurmail Singh

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Test / Inspection Description	Item Tested	Date Tested	Resul
hodic Protection Survey	See test report for details	8/28/2024	F
	·		

Tanknology Representative: Dustin Hollander

Telephone: (512) 380-7117

Technician: Teddy Barnett Technician Certification: (See forms)



CATHODIC PROTECTION COMPLIANCE SURVEY UST SYSTEM

FOR: SIMARS CONVENIENCE 2

2068 E MARKET ST NAPPANEE IN 46550

Contact: Gurmail Singh

SITE: SIMARS CONVENIENCE 2

2068 E MARKET ST NAPPANEE IN 46550

BY: Tanknology Inc.

Jared Beavers

(NACE CP2 #52250)

Survey Date: 8/28/2024 **Report Date:** 9/4/2024

Work Order: 1356413

9/4/2024

Work order: 1356413

COMPLIANCE SURVEY SACRIFICIAL CP SYSTEM

SIMARS CONVENIENCE 2 SIMARS CONVENIENCE 2 2068 E MARKET ST NAPPANEE IN 46550

I. SCOPE:

A cathodic protection survey was conducted on 08/28/2024, on the cathodic protection system for SIMARS CONVENIENCE 2 at SIMARS CONVENIENCE 2, 2068 E MARKET ST, NAPPANEE, IN. The purpose of this survey was to determine if the UST system meets corrosion protection requirements. The cathodic protection system for the underground tanks consists of magnesium or zinc anodes. The UST facility consists of one 10000-gallon stip3 (diesel), one 10000-gallon stip3 (unleaded), one 10000-gallon stip3 (premium), one 4000-gallon stip3 (kerosene) tanks and associated fiberglass piping with metallic flexible connectors at the submersible turbine pumps (STP) and dispensers.

II. RESULTS & ANALYSIS:

The structure-to-soil potential measurements are tabulated on the attached survey data sheets. The potential measurements for the underground tanks, ranged from -631 millivolts to -1329 millivolts. The potential measurements for the flexible connectors, ranged from -699 millivolts to -771 millivolts.

III. CONCLUSIONS:

The results of the survey indicate that the structure-to-soil potential measurements for the diesel tank and flexible connectors did not meet the -850 millivolts criterion for cathodic protection. Current requirement testing and remote cell testing on the diesel tank indicated that the tank is electrically isolated from the associated risers. The testing also indicated that the diesel tank and all flexible connectors can be repaired with additional magnesium anodes.

IV. RECOMMENDATIONS:

It is recommended that additional magnesium anodes be installed on the diesel tank and flexible connectors. On completion of the repairs a structure-to-soil potential survey be conducted thereafter by a qualified cathodic protection tester.

Test Procedures: Description of test procedures utilized for this project are contained in the Appendix.

STI-P3 Cathodic Protection System: The STI-P3 cathodic protection system is designed to protect the outside of the tanks only. The risers/piping are electrically isolated from the tank and are not included. The STI-P3 tank incorporates a good exterior coating and factory installed magnesium anodes. The magnesium anodes are provided to protect the surface areas on the tank where coating holidays exist and exposure to corrosion occurs. The surface areas are very small and do not require a large number of anodes for protection. When foreign structures are electrically shorted to the tanks (i.e. piping) the protective effect is depleted and the magnesium anodes for the tanks are consumed rapidly. This is why it is very important to maintain effective electrical isolation of the STI-P3 tank.

V. REGULATORY REQUIREMENTS:

INDIANA CODE: 329 IAC 9-3-1 (c) (1) references EPA ?280.31

FEDERAL REGULATIONS

40 CFR ? 280.31 Operation and maintenance of corrosion protection. All owners and operators of metal UST systems with corrosion protection must comply with the following requirements to ensure that releases due to corrosion are prevented until the UST system is permanently closed or undergoes a change-in-service pursuant to ? 280.71: (a) All corrosion protection systems must be operated and maintained to continuously provide corrosion protection to the metal components of that portion of the tank and piping that routinely contain regulated substances and are in contact with the ground. (b) All UST systems equipped with cathodic protection systems must be inspected for proper operation by a qualified cathodic

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protection tester in accordance with the following requirements: (1) Frequency. All cathodic protection systems must be tested within 6 months of installation and at least every 3 years thereafter or according to another reasonable time frame established by the implementing agency; and (2) Inspection criteria. The criteria that are used to determine that cathodic protection is adequate as required by this section must be in accordance with a code of practice developed by a nationally recognized association. Note to paragraph (B). The following codes of practice may be used to comply with paragraph (b) of this section: (A) NACE International Test Method TM 0101, ?Measurement Techniques Related to Criteria for Cathodic Protection of Underground Storage Tank Systems"; (B) NACE International Test Method TM0497, ?Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems"; (C) Steel Tank Institute Recommended Practice R051, ?Cathodic Protection Testing Procedures for STI-P3? USTs"; (D) NACE International Standard Practice SP 0285, ?External Control of Underground Storage Tank Systems by Cathodic Protection"; or (E) NACE International Standard Practice SP 0169, ?Control of External Corrosion on Underground or Submerged Metallic Piping Systems". (c) UST systems with impressed current cathodic protection systems must also be inspected every 60 days to ensure the equipment is running properly. (d) For UST systems using cathodic protection, records of the operation of the cathodic protection must be maintained (in accordance with ? 280.34) to demonstrate compliance with the performance standards in this section. These records must provide the following: (1) The results of the last three inspections required in paragraph (c) of this section; and (2) The results of testing from the last two inspections required in paragraph (b) of this section.

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APPENDIX: TEST PROCEDURES

Local structure-to-soil potentials are obtained over the tanks and/or steel lines to a copper-copper sulfate reference electrode (CSE). The CSE is placed over the steel tank/s and/or steel line/s in the electrolyte to measure cathodic protection levels. The structure-to-soil potential measurements are obtained by making electrical contact to steel structures and CSE placed in various locations in the electrolyte through a Fluke or Beckman digital voltmeter. The digital voltmeter utilized has a minimum 10 Meg Ohms impedance. The local structure-to-soil potentials are obtained with the magnesium anodes connected. The potentials obtained are evaluated to determine cathodic protection levels. Please see the criterion for cathodic protection. The measurements are recorded on the cathodic protection survey data sheets. Local "on" potentials are recorded on the location where the reference cell was placed. For example, a local "on" potential recorded on the ATG row for tank is the local structure-to-soil potential on that tank with the CSE placed in the electrolyte at the ATG man way. Remote (fixed) structure-to-soil potentials are obtained on all tank/s, associated risers, and piping to a CSE that remains in a fixed location in the electrolyte while obtaining all potentials. The measurements are recorded on the cathodic protection survey data sheets. For example a reading recorded on the ATG row under remote potential is a fixed cell potentials from the ATG riser with the CSE located in a remote (fixed) location. Structures of less than 3.0 millivolts (mV) difference are considered electrically continuous with each other. Structures with a difference between 3.0 mV to 10.0 mV indicate an inconclusive electrical continuity test. Structures with a difference of greater than 10.0 mV are considered electrically discontinuous.

In order to determine the effectiveness of the cathodic protection system, local structure-to-soil potential measurements are obtained at representative locations throughout the subject area. These measurements were collected with the magnesium anodes attached. These measurements are then evaluated to determine if an adequate level of cathodic protection has been achieved.

The two (2) most common criteria for cathodic protection as established by the NACE standard practice SP0285-2011 "External Corrosion Control of Underground Storage Tank Systems by Cathodic Protection" are as follows:

- 1. A negative voltage of at least 0.85 volts as measured between the structure surface and a saturated copper/copper sulfate reference electrode placed in contact with the electrolyte.
- 2. A minimum negative (cathodic) polarization voltage shift of 100 millivolts measured between the structure surface and a stable reference electrode contacting the electrolyte. This polarization voltage shift is to be determined by interrupting the protective current and measuring the polarization decay. When the current is initially interrupted, an immediate voltage shift will occur. The voltage reading after the immediate shift shall be used as the base reading from which to measure polarization decay.



Customer Name: SIMARS CONVENIENCE 2 Site ID: NAPPANEE Work Order: 1356413 Date: 8/28/2024
Site Address: 2068 E MARKET ST , NAPPANEE, IN 46550 State Facility ID:

		Local Potentials (mV)			Continuity Testing		Information						
Tank	Test Type	Native	Inst. Off	ON	Remote (mV)*	Continuity (mV)**	Tank#	Regulator ID	Size	Material	Product	Piping	
Diesel 1	Tank Bottom				-626	R1 30 FEET	I dlik #	Regulator ID	Size	iviateriai	Product	Material	
Diesel 1	Tank Bottom				-628	R2 40 FEET	1	1	10000	STIP3	Diesel	Fiberglass	
Diesel 1	Fill			-631	-497		2	2	10000	STIP3	UNLEADED	Fiberglass	
Diesel 1	ATG			-714	-395		3	3	10000	STIP3	PREMIUM	Fiberglass	
Diesel 1	ATG Conduit				-639		4	4	4000	STIP3	KEROSENE	Fiberglass	
Diesel 1	Extra Riser				-505		CP System: Sacrificial Flex Connector /						
Diesel 1	STP			-702	-514								
Diesel 1	pp2 Wire				-626								
UNLEADED 2	Tank Bottom				-1207	R1 30 FEET	Swing Joi	int Corrosion Type:					
UNLEADED 2	Tank Bottom				-1209	R2 40 FEET	1	-	MPD: Flex	kible connector	contained		
UNLEADED 2	Fill			-1078	-660		1			9.1			
UNLEADED 2	ATG			-1285	-594		1		STP: Fle	kible connector	contained		
UNLEADED 2	ATG Conduit				-633								
UNLEADED 2	Vapor Rec				-991								
UNLEADED 2	STP			-1161	-511		Comments / Condition of paving etc:						
PREMIUM 3	Tank Bottom				-1268	R1 30 FEET	SEE FLEX F	AND DESIGN FORMS					
PREMIUM 3	Tank Bottom				-1270	R2 40 FEET	1						
PREMIUM 3	Fill			-1035	-1240		1						
PREMIUM 3	ATG			-1329	-527		1						
PREMIUM 3	ATG Conduit				-678								
PREMIUM 3	Vapor Rec				-904								
PREMIUM 3	STP			-1157	-509								
KEROSENE 4	Tank Bottom				-944	R1 60 FEET	1	Jalely	Baune	200			
KEROSENE 4	Tank Bottom				-947	R2 70 FEET	technician	Signature:					
KEROSENE 4	Fill			-921	-504		technician	Name: Teddy Barnet	+				
KEROSENE 4	ATG			-889	-572		tecimician	ivanie. Teddy barriet					
KEROSENE 4	ATG Conduit				-734		NACE	Cert #: 7841	Exp:	05/31/20	27		
KEROSENE 4	Extra Riser				-535				•				
KEROSENE 4	Other SWING JOINT			-1045	-644		Remote	test cell locati	on: 30				
Piping							1	Directi	on: S				
1/2	Flex Connector			-771		CONTAINED	1						
3/4	Flex Connector					CONTAINED	1	Temperatu	ıre: 90				
5/6	Flex Connector			-750		CONTAINED	1	Weath	er: clea	r			
7/	Flex Connector			-710		CONTAINED	1	vveatii	ici. Cica	1			
STP Diesel 1	Flex Connector			-699		CONTAINED	1	Back	fill: Pea	Gravel			
STP UNLEADED 2	Flex Connector			-721		CONTAINED	1	Backfill conditi	on. M.:	c+			
STP PREMIUM 3	Flex Connector			-746		CONTAINED	1	Dackfill Conditi	on: IVIOI	Si			
STP KEROSENE 4	Other SIPHON FLEX			-712		CONTAINED	1						
Rectifier Neg:							1						



Customer Name: SIMARS CONVENIENCE 2 Site ID: NAPPANEE Work Order: 1356413 Date: 8/28/2024
Site Address: 2068 E MARKET ST , NAPPANEE, IN 46550 State Facility ID:

Local Potentials (mV) Continuity Testing							Information						
Tank	Test Type	Native	Inst. Off	ON	Remote (mV)*	Continuity (mV)**	Tank#	Regulator ID	Size	Material	Product	Piping	
Gas Meter							1	1	10000	STIP3	Diesel	Material Fiberglass	
Electric							2	2	10000	STIP3	UNLEADED	Fiberglass	
Water Meter							3	3	10000	STIP3	PREMIUM	Fiberglass	
							4	4	4000	STIP3	KEROSENE	Fiberglass	
								L			L		
							CP Syster	n:	Sacr	rificial			
							Flex Conr						
							Swing Joi	nt Corrosion Type:					
								N	лРD: Fle	xible connect	tor contained		
									STP: Fle	xible connect	tor contained		
								/ Condition of paving	etc:				
							SEE FLEX A	AND DESIGN FORMS					
								,					
								Jackely	& Bar	reto			
							technicia	n Signature:					
							technicia	n Name: Teddy Bai	rnett				
							NACE	Cert #: 7841	Exp: ()5/31/202	.7		
								te test cell locat	_				
								Direct	ion: S				
							-	Temperat	ure: 90				
							-	Weat	her: cle	ar			
								Rac	kfill: Pea	a Gravel			
							_						
							-	Backfill condit	tion: Mo	oist			
							-						
							1						
							1						



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Tanknology Cathodic Protection Survey Data Sheet

Tanknology

Customer Name: SIMARS CONVENIENCE 2 Site ID: NAPPANEE Work Order: 1356413 Date: 8/28/2024
Site Address: 2068 E MARKET ST , NAPPANEE, IN 46550

Rectifier Information OOOO VENTS **Rectifier Data** AS FOUND DC Volts: DC Amps: STORE Tap Setting Course: Tap Setting Fine: Hour Meter: AS LEFT **√**□ #7 Legend DC Volts: 0 Soil Access Test Station DC Amps: Tap Setting Course: **®** Tap Setting Fine: Flush T/S w/.01 shunt. Automatic Tank Gauge Hour Meter: **(**2) Submersible Turbine Pump **Junction Box Data** Piping Manway Anodes (amps) DIESEL ATG Anode #1 Anode #2 Anode #3 UNLEADED Anode #4 Anode #5 Anode #6 PREMIUM ATG Ð (vr Anode #7 Anode #8 Anode #9 Anode #10 REMOTE CELL 30 AND 40 Anode #11 Anode #12 Structures (amps) Structure #1: Structure #2: Structure #3: Structure #4: Structure #5: Structure #6:



Site Diagram

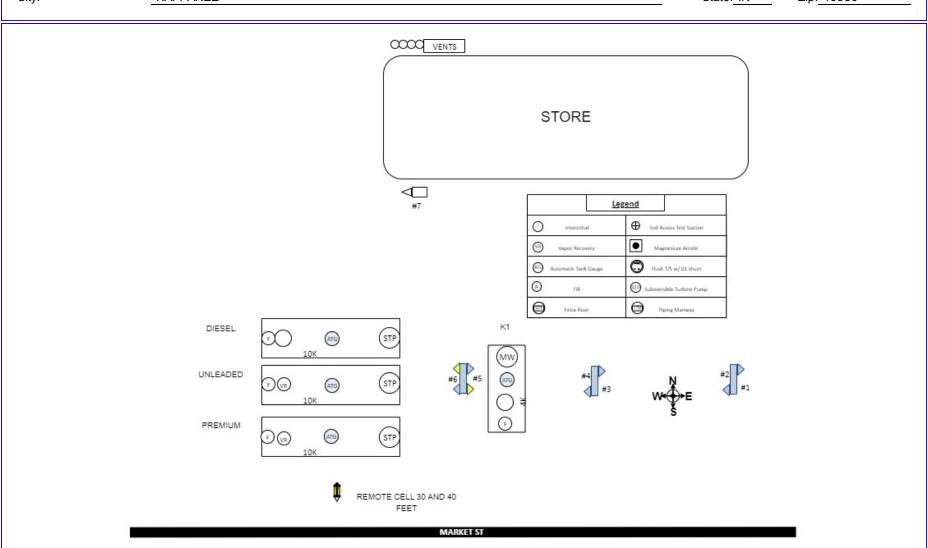
(This site diagram is for reference only and is not drawn to scale)

Work Order: 1356413

Site ID / Name: NAPPANEE / SIMARS CONVENIENCE 2

Address: 2068 E MARKET ST

City: NAPPANEE State: IN Zip: 46550



Tanknology Inc. 11000 N. MoPac Expressway, Suite 500 Austin, TX 78759 (800) 964-0010 JOB CLEARANCE FORM & SITE SAFETY CHECKLIST – OVF

Policy 100-29-A Rev: H Revised: 6/25/2022

Name/#:	loves T	Street Addres	SS: 2068	E. Me	I hes	v.os#5.	2011
ival Time: Dep	arture Time:	Travel Time:	- per-	Others on site:	0	Pate	30%
1 (C)	2000					8-2	8-2
cope of Work and Tasks Performed (JSA	A's nust be available for all	tasks):	THE REAL PROPERTY.				
Cethodic	frodeeden	.50	vey		50 3		
pairs to Equipment or Parts Provided:	A STATE OF						
	late de la companya de		Section 1		1000		
ollow-up actions required; equipment iso	rated; comments;						
PPE - PERSONAL PR	ROTECTIVE EQUIP	MENT REQ	UIRED (Chec	k √ items used	or mark ~ i	f not applicab	le)
Safety Vest/Shirt (all jobs)	Gloves (all jobs))	☐ Splash G	Goggles (if needed)	☐ Hea	aring Protection (if needed)
Safety Toe Boots (all jobs)	Safety Glasses			t (if needed)	☐ Oth		
✓ PRE-TEST PE	ROCEDURES (C	Check √ e	each item c	ompleted or	mark ~	if not applic	cable)
☐ Discuss safety proce							
Get ATG printout & c	heck fuel/water level	s. Prior to fu	uel delivery the	system must be	placed bac	k into working	order.
Barricade work area	(cones, flags, bars/ta	ape) and pla	ce Fire Extingi	uishers & "No Sm	okina" Sian	s at perimeter.	
. U Contined Space Entr	y - If required compl	ete separate	CSE Checkli	st. If NO CSE ch	eck the follo	owing reason.	
□No CS's □CS's not o	ppened No entry on	ly visual □N	o entry - used to	ools Work from	prone positio	n w/o risk of fallir	ng in
Implement Lockout/T	agout per API 1646	(when acces	ssing product p	piping during task	s)		
Secure nozzles with	h "Out of Service" bags	and nylon tie	s. Secure t	he circuit breaker(s) with lockout	devices and tags	3.
	r check valves on produ			ect electrical "bayon			
	oment disabled during to	est(s).	☐ Verify L	OTO is complete b	y trying to o	perate pumps.	
eneral Safety Checks:			Lead Tec	hnician Name		Technician Signatur	re
Il site personnel have been info a fuel delivery due today?	rmed.		1.10	onet	Lel	1815m	
OTO procedures have been dis	cussed.		Site Repres	sentative Name	Site R	epresentative Signati	ure
Vork areas barricaded to protect			MIKE	Hatch	m1 1/2 -	11 11-	in
✓ POSI-TEST	PROCEDURES	(Check ✓	each item	completed or	mark ~	if not applie	ablo
Remove all "Lockout 2. Run all pumps and the state of the state			Js/ties.				ubie)
Leak Detecto	or & Vent Tubes			alve Test Ports un actional Elements	nder dispens	sers	
Get ATG printout. (Confirm water levels	same as stai	t or explain dif	ference:	& Relief Scr	ews for 1	
The strict to the willing coll	nponents operational sensors, & caps				Produ	rec	-
☐ Ball floats, dr	v breaks & cans		☐ Shear	valves are open sers & POS opera	-0- 1	5,	
☐ Containment	sumps are dry		Dispen	iser nanels are rer	ala a - d		
□ Spill containe	ers and sump lids ers & drain valves		□ vents a	& Extractors (not a	cannad -L	ged or isolated	,
☐ Drop tubes, f	flapper valves, fill ada	pters & caps	□ Cathod □ Siphon	lic protection open lines and manifol	ational	o a or isolated	,
5. Remove barricades SIGN OUT & Operator \	3.			mios and manifol	d valves ope	∍n	
General Safety Checks:		VF)	Lead Tech	nician Name	Lad T	echnician Signature	
Work area has been left clean & Site staff aware of work status in	cluding on a second	colotion	1.15	arest	Leh	Signature	
Changes to equipment are document and All incidents, near incidents, and			Site Represe	entative Name	Site Rep	resentative Signature	
Site Representative Comments:	situations report	ted.	MIKE	Hatch	M.K	Signature	1/2
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				The latest the same of the sam	AT THE		
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