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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

UST CATHODIC PROTECTION SYSTEM EVALUATION FORM

This form	may be utilized to evaluate underground storage tank (UST) cathodic protection systems.
2	Access to the soil directly over the cathodically protected structure that is being evaluated should be

≻	Access to the soil directly over the cathodically protected structure that is being evaluated should be provided.
	A site drawing denicting the LIST cathodic protection system and all reference electrode placements must be completed if this form is used

A site drawing depicting the OST cathodic protection system and an reference electrode placements must be completed in this form is used.
The criteria that are used to determine that cathodic protection is adequate as required by the Storage Tank Act shall be in accordance with a code of
practice developed by a Nationally recognized association.

I. FACILITY INFORMATION – Type or print (in ink) all items.							
Facility ID #: Facility Name:							
Facility Street Address:							
Facility Telephone:	County	:		Muni	icipality	:	
II. REASON SURVEY W	AS CONDUCTED - Mark on	ly one.					
Routine / Required			Re-survey after fa	ail			
Post-Installation – with	in 6 months of installation		Re-survey after re	epair/	modific	ation	
Cathodic Protection Surve	ey Date:	-			SYSTI	EM TYPE – Mark one or both	
-	odic protection survey m				Galv		
	tallation/repair and at least every	•	*			essed Current	
	TION TESTER'S EVALUA				1.1		
been pro	cted structures at this facility pass ovided to the UST system(s) (indic	ate all ap	plicable criteria in Section V	′).			
	more protected structures at this in has not been provided to the US			survey	and it is	s judged that adequate cathodic	
Inconclusive The cath	odic protection tester is unable to	conclusiv	vely evaluate the cathodic p	rotectio	on system	۱.	
Tester's Name:			Company Name:				
Address:		City/St	ate:			Phone:	
Certification Source/Type:				Ce	rtificatio	n #:	
Nationally Recognized As	sociation Followed for Test	:					
Tester's Signature:				Da	te Signe	ed:	
IV. CORROSION EXPER	RT'S EVALUATION – Mark	only or	ie.	•			
Section IV only needs to be completed if the cathodic protection system evaluation was conducted by a cathodic protection tester and was declared "inconclusive" in Section III above.							
	cted structures at this facility pass ovided to the UST system(s) (indic				ged that	adequate cathodic protection has	
Fail One or protection	more protected structures at this in has not been provided to the US	facility facility facility	ail the cathodic protection n(s) (complete Section VI).	survey	/ and it is	s judged that adequate cathodic	
Corrosion Expert's Name:			Company Name:				
Address:		City/St	ate:			Phone:	
NACE Int./P.E. certificatio	n:			Ce	rtificatio	n #:	
Corrosion Expert's Signat					te Signe		
V. CRITERIA APPLICABLE TO EVALUATION – Mark all that apply.							
■ 850 mV On Structure-to-soil potential more negative than -850 mV with respect to a Cu/CuSO ₄ reference electrode with the protective current on (galvanic systems only).							
850 mV Off Structure-to-soil potential more negative than -850 mV with respect to a Cu/CuSO ₄ reference electrode with the protective current temporarily interrupted (galvanic and/or impressed current systems).							
100 mV Polarization Structure(s) exhibit at least 100 mV of cathodic polarization (galvanic and/or impressed current systems).							
VI. ACTION REQUIRED AS A RESULT OF THIS EVALUATION – Mark only one.							
	Cathodic protection is adequate. No further action is necessary at this time. Test again by no later than the dat						
Retest	Cathodic protection may not be	adequate	. Retest to determine if pas	sing re	esults car	h be achieved.	
Repair & Retest	Cathodic protection is not adequ	uate. Rep	air or modification is necess	sary.			

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Facility ID #: Facility Name:								Survey Date:							
VII. DES	SCRIPTI	ON OI	F UST S	YSTE	Λ										
 Indicate Indicate 	e the Tank e if the tanl e if the pipi e how met	Sequer k is Dou ing is Do tal pipe	nce # from uble Wall ([ouble Wall	the facil DW) or S (DW) or such a	ity's Sto Single V Single	orage Ta Vall (SW) Wall (SV	ink Regi), and its W), and	stratior type (its type	n/Permit (e.g. stee e (e.g. fil	Certificat el, sti-P ₃ ® perglass,	te (e.g. 001 , fiberglass flexible pla	, 002, etc.) , composite stic, coated	, etc.) steel, galv	vanized, cop	oper, etc.) es, booted, in
Tank # ¹	Proc	duct	Capa (gallo		Та	ank Ty	pe²	Piping Type ³			Metal Segments at Tank ⁴			Metal Segments at Dispenser ⁴	
Ex. 001	Diesel		10,00	0	SW st	$ti-P_3^{\otimes}$		DV	V Fibe	rglass	CP	w/ anode	es	In Conta	inment
VIII. IMP	RESSE	D CUI	RRENT	RECTI	FIER	DATA	– Comp	olete al	I applica	able.					
Rectifier	Manufad	cturer:							Rated	DC OI	utput:	volts		amp	s
Rectifier	Model:								Rectif	ier Seri	al Numb	ər:			
Rectifier	Output a	as Initi	ally Desi	gned c	or Last	tly Rec	omme	nded	(if ava	ilable):	v	olts	a	mps	
				Та	ap Set	ttings		DC	C Outp	out	Hou	r			
Ev	ent	Date C		Coa	oarse Fine		e ۱	Volts A		mps	Mete		Comments		s
"As Fou	nd"														
"As Left	"														
60-DAY least once	LOG OF every 60 d	F REC	TIFIER	OPER	ATIO	N – Do	cument	the las	st three	amp read	dings (plus	volts and h	nours whe	re available), recorded at
				0	C Ou	Itput									
			Date	Vo	lts	Amp	os H	our N	Neter			Cor	nments		
Mos	t Recen	t													
60-D	ays Pric	or													
120-D	Days Pri	or													
IX. IMPF	RESSED	CUR	RENT P	OSITI	/E & I	NEGAT		IRCU	IT ME	ASURE	EMENTS				
Complete in present).	f the syste	em is de	esigned to	allow su	uch me	asureme	ents (i.e.	indivio	dual lead	d wires fo	or each and	ode are inst	alled and	measureme	ent shunts are
Circ	it		1	2		3	4		5	6	7	8	9	10	Total Amps
Anode			•	-		•			•		-			10	Amps
Tank															

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Facility ID)#:	Facility Name:			Sur	vey Date:		
Facility ID #: Facility Name: Survey Date: X. CATHODIC PROTECTION SYSTEM SURVEY								
					Instant ⁵		olarization	
Location ¹ Code	Contact Point ²	Reference Cell Placement ³	On ⁴ Voltage (mV)	Off Voltage	Ending ⁶ Voltage (mV)	Voltage ⁷ Change (mV)	Pass/ ⁸ Fail	

1. Designate numerically or by code on the site drawing each local reference electrode placement (e.g. R1-IC, R2-G, R3-IC, etc.)

2. Describe the structure that is being tested, and where the structure being tested is contacted by the test lead (e.g. plus tank bottom; diesel piping @ dispenser 7/8; etc.)

3. Describe the exact location where the reference electrode is placed for each measurement (e.g. soil @ regular tank STP manway; soil @ dispenser 2, etc.)

4. Record the structure-to-soil potential (voltage) observed with the current applied (e.g. -1070 mV.)

5. If applicable, record the structure to soil potential (voltage) observed when the current is interrupted (e.g. 680 mV.)

6. {Applies to 100 mV polarization test only} Record the voltage observed at the end of the test period (e.g. 575 mV.)

7. {Applies to 100 mV polarization test only} Subtract the final voltage from the instant off voltage (e.g. 680 mV - 575 mV = 105 mV.)

8. Indicate if the tested structure passed or failed one of the acceptable criteria.

Use copies of this page as needed for additional reference cell readings.

Facility ID #:	Facility Name:	Survey Date:
XI. COMMENTS		

The comments section should be used to note additional information discovered or actions taken during the cathodic protection survey that affect compliance at the facility. For example, include comments concerning any observations made by the tester that would affect the survey results. Record phone conversations or email correspondence with DEP personnel that took place concerning this survey.

If additional comment sheets are needed, label each sheet with the report header information and attach the sheet(s) to the back of this form.

Facility ID #:	Facility Name:	Survey Date:
XII. UST FACILITY SITE DR	AWING	
separate sheet). At a minimum, indic	ate the following: all tanks, piping, and dispense	e space below (or attach a detailed site drawing prepared on a rs; all buildings and streets; all anodes, wires, and rectifiers; and re the reference electrode was placed for each structure-to-soil

potential measurement. Label each reference electrode placement by the code (e.g. R1-IC, R2-G, R3-IC, etc.) that corresponds to the respective structure-to-soil potentials documented in Section X. Any other pertinent data should also be included.

An evaluation of the cathodic protection system should not be considered complete without an acceptable site drawing.