

- This form should be utilized to evaluate underground storage tank (UST) cathodic protection systems in the Commonwealth of Virginia.
- Access to the soil directly over the cathodically protected structure that is being evaluated must be provided.
- A site drawing depicting the UST cathodic protection system and all reference electrode placements must be completed.

I. UST OWNER

II. UST FACILITY

NAME:		NAME:		ID #
ADDRESS:		ADDRESS:		
CITY:	PHONE:	CITY:	COUNTY:	
STATE:	ZIP:	STATE:	ZIP:	PHONE:

III. REASON SURVEY WAS CONDUCTED (mark only one)

- Routine - 3 year
 Routine – within 6 months of installation
 90-day re-survey after fail
 Re-survey after repair/modification

Date next cathodic protection survey must be conducted _____ (required within 6 months of installation/repair & every 3 years thereafter).

IV. CATHODIC PROTECTION TESTER'S EVALUATION (mark only one)

<input type="checkbox"/>	PASS	All protected structures at this facility pass the cathodic protection survey and it is judged that adequate cathodic protection has been provided to the UST system (indicate all criteria applicable by completion of Section VI).
<input type="checkbox"/>	FAIL	One or more protected structures at this facility fail the cathodic protection survey and it is judged that adequate cathodic protection has not been provided to the UST system(s) (complete Section VII).

TESTER'S NAME:		SOURCE OF CERTIFICATION:		
COMPANY NAME:		TYPE OF CERTIFICATION:		
ADDRESS:		CERTIFICATION NUMBER:		
CITY:	STATE:	ZIP:	PHONE:	

CP TESTER'S SIGNATURE: _____ DATE SIGNED: _____ DATE CP SURVEY PERFORMED: _____

V. CORROSION EXPERT'S EVALUATION (mark only one)

The survey must be conducted and/or evaluated by a corrosion expert when: a) supplemental anodes or other changes in the construction of the cathodic protection system are made; b) stray current may be affecting buried metallic structures or c) an inconclusive result was written in Section VI. (except for under STI-R972 – "Recommended Practice for the Addition of Supplemental Anodes to sti-P₃[®] UST's")

<input type="checkbox"/>	PASS	All protected structures at this facility pass the cathodic protection survey and it is judged that adequate cathodic protection has been provided to the UST system (indicate all criteria applicable by completion of Section VI).
<input type="checkbox"/>	FAIL	One or more protected structures at this facility fail the cathodic protection survey and it is judged that adequate cathodic protection has not been provided to the UST system (indicate what action is necessary by completion of Section VII).

CORROSION EXPERT'S NAME:		SOURCE OF CERTIFICATION:		
COMPANY NAME:		TYPE OF CERTIFICATION:		
ADDRESS:		CERTIFICATION NUMBER:		
CITY:	STATE:	ZIP:	PHONE:	

CORROSION EXPERT'S SIGNATURE: _____ DATE: _____

VI. CRITERIA APPLICABLE TO EVALUATION (mark all that apply)

<input type="checkbox"/>	- 850mV ON / (Instant) OFF (circle "ON" or "OFF" to specify)	Structure-to-soil potential more negative than -850 mV with respect to a Cu/CuSO ₄ reference electrode with protective current ON (galvanic) or temporarily interrupted (instant-OFF (impressed)). Inconclusive? <input type="checkbox"/>
<input type="checkbox"/>	100 mV POLARIZATION	Structure(s) exhibit at least 100 mV of cathodic polarization. Inconclusive? <input type="checkbox"/>

VII. ACTION REQUIRED AS A RESULT OF THIS EVALUATION (mark only one)

<input type="checkbox"/>	NONE	Cathodic protection is adequate. No further action is necessary at this time. Test again by no later than (see Section V).
<input type="checkbox"/>	RETEST	Cathodic protection may not be adequate. Retest during the next 90 days to determine if passing results can be achieved.
<input type="checkbox"/>	REPAIR & RETEST	Cathodic protection is not adequate. Repair/modification is necessary as soon as practical but within the next 90 days.

VIII. DESCRIPTION OF UST SYSTEM

TANK #	PRODUCT	CAPACITY	TANK MATERIAL	PIPING MATERIAL	FLEX CONNECTORS
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

IX. IMPRESSED CURRENT RECTIFIER DATA (complete all applicable)

In order to conduct an effective evaluation of the cathodic protection system, a complete evaluation of rectifier operation is necessary.

RECTIFIER MANUFACTURER:	RATED DC OUTPUT: _____ VOLTS _____ AMPS
RECTIFIER MODEL:	RECTIFIER SERIAL NUMBER:
RECTIFIER OUTPUT AS INITIALLY DESIGNED OR LASTLY RECOMMENDED (if available): _____ VOLTS _____ AMPS	

EVENT	DATE	TAP SETTINGS		DC OUTPUT		HOUR METER	COMMENTS
		COARSE	FINE	VOLTS	AMPS		
"AS FOUND"							
"AS LEFT"							

X. IMPRESSED CURRENT POSITIVE & NEGATIVE CIRCUIT MEASUREMENTS (output amperage)

Complete if the system is designed to allow such measurements (i.e. individual lead wires for each anode are installed and measurement shunts are present).

CIRCUIT	1	2	3	4	5	6	7	8	9	10	TOTAL AMPS
ANODE (+)											
TANK (-)											

XI. DESCRIPTION OF CATHODIC PROTECTION SYSTEM REPAIRS AND/OR MODIFICATION

Complete if any repairs or modifications to the cathodic protection system are made OR are necessary. Certain repairs/modifications as explained in the text of the VADEQ cathodic protection guidance document are required to be designed and/or evaluated by a corrosion expert (completion of Section V required).

- Additional anodes for an impressed current system (attach corrosion expert's design) .
- Supplemental anodes for a STI-P3® tank or metallic pipe (attach corrosion expert's design or documentation industry standard was followed).
- Repairs or replacement of rectifier (explain in "Remarks/Other" below).
- Anode header cables repaired and/or replaced(explain in "Remarks/Other" below).
- Impressed current protected tanks/piping not electrically continuous (explain in "Remarks/Other" below).
- Galvanically protected tanks/piping NOT electrically isolated (explain in "Remarks/Other" below).

Remarks/Other:

XII. UST FACILITY SITE DRAWING

Attach detailed drawing of the UST and cathodic protection systems. Sufficient detail must 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. Any pertinent data must also be included. At a minimum indicate the following: all tanks, piping and dispensers; all buildings and streets; all anodes and wires; location of CP test stations; and, each reference electrode placement must be indicated by a code followed by a "IC" or "G" to indicate the type of CP system (e.g., R1-IC, R2-G, etc.) corresponding with the appropriate line number in Section XIV of this form. (Note, CP test stations (PP4) may be questionable for use as described in Section 6.1.2)

AN EVALUATION OF THE CATHODIC PROTECTION SYSTEM IS NOT COMPLETE WITHOUT AN ACCEPTABLE SITE DRAWING.

PRODUCED BY THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY, UST PROGRAM

PO BOX 1105, RICHMOND, VA 23218 PHONE (804) 698-4010 FACSIMILE (804) 698-4266 www.deq.virginia.gov

