

STATE OF MISSISSIPPI IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM EVALUATION

- This form must be utilized to evaluate underground storage tank (UST) cathodic protection systems in the State of Mississippi.
- 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	
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NAME:		NAME:	ID #
ADDRESS:		ADDRESS:	
CITY:	STATE:	CITY:	COUNTY:

III. CP TESTER	IV. CP TESTER'S QUALIFICATIONS
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TESTER'S NAME:		NACE INTERNATIONAL CERTIFICATION NUMBER:	
COMPANY NAME:		MDEQ UST INSTALLER CERTIFICATION NUMBER:	
ADDRESS:		OTHER (EXPLAIN): _____	
CITY:	STATE:		

V. 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 by: _____ (required within 6 months of installation/repair & every 3 years thereafter).

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

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 VIII).

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 (complete Section IX).

INCONCLUSIVE The cathodic protection survey of an impressed current system must be evaluated by a "corrosion expert" because one or more of the conditions listed in Section 7.1.5 of the MDEQ cathodic protection guidance document are applicable (complete Section VII).

CP TESTER'S SIGNATURE:	DATE CP SURVEY PERFORMED:
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VII. CORROSION EXPERT'S EVALUATION (mark only one)

When testing impressed current systems the survey must be conducted and/or evaluated by a qualified "corrosion expert" and this section completed when one or more of the conditions listed in Section 7.1.5 of the MDEQ cathodic protection guidance document are applicable (see Section 7.1.5 of MDEQ guidance document).

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 VIII).

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 IX).

CORROSION EXPERT'S NAME:	COMPANY NAME:
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NACE INTERNATIONAL CERTIFICATION:	NACE INTERNATIONAL CERTIFICATION NUMBER:
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CORROSION EXPERT'S SIGNATURE:	DATE:
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VIII. CRITERIA APPLICABLE TO EVALUATION (mark all that apply)

Structure-to-soil potential more negative than -850 mV with respect to a Cu/CuSO₄ reference electrode with protective current momentarily Interrupted ("instant-off").

Structure tested exhibits at least 100 mV of cathodic polarization ("100 mV polarization").

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

NONE Cathodic protection has been judged adequate. No further action is necessary at this time. Test again by no later than (see Section V).

RETEST Cathodic protection has been judged inadequate. Retest during the next 90 days to determine if "passing" results can be achieved.

REPAIR & RETEST Cathodic protection has been judged inadequate. Repair/modification of the cathodic protection system is necessary.

X. DESCRIPTION OF UST SYSTEM

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

XI. 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"							

XII. 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 (-)											

XIII. 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 MDEQ cathodic protection guidance document are required to be designed and/or evaluated by a corrosion expert (completion of Section VII required).

- Additional anodes for an impressed current system (attach corrosion expert's design).
- 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).

Remarks/Other: _____

XIV. 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 cell 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 you should indicate the following: All tanks, piping and dispensers; All buildings and streets; All anodes and wires; Location of CP test stations; Each reference electrode placement must be indicated by a number (1,2,3...etc.) corresponding with the appropriate line number in Section XVI of this form.

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

