LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM EVALUATION

- This form may be utilized to evaluate underground storage tank (UST) impressed current CP systems in Louisiana.
- A site drawing depicting the UST system must be attached to the evaluation form.

I. UST OWNER		II. UST FACILITY	
NAME:		**NAME:**	**AI #**
ADDRESS:		**ADDRESS:**	
CITY:	**STATE:**	**CITY:**	**PARISH:**

III. REASON SURVEY WAS CONDUCTED

☐ Routine - 3 year ☐ After Repair/Modification ☐ Within 6 months of Installation

IV. CATHODIC PROTECTION TESTER'S EVALUATION

☐ **PASS**	All protected structures at this facility pass the CP survey and continuity survey indicates all protected structures are continuous
☐ **FAIL**	One or more protected structures at this facility fail the CP survey
☐ **INCONCLUSIVE**	Continuity survey indicates isolated or inconclusive results, or stray current is suspected to be affecting the structure

CP TESTER'S SIGNATURE:	**DATE OF CP SURVEY:**

CP TESTER	CP TESTER'S QUALIFICATIONS
TESTER'S NAME:	**NACE INTERNATIONAL CERTIFICATION NUMBER:**
COMPANY NAME:	**OTHER:**
ADDRESS:	**OTHER:**

V. CORROSION EXPERT'S EVALUATION

☐ **PASS**	All protected structures at this facility have been judged to have adequate CP
☐ **FAIL**	One or more protected structures at this facility fail the CP survey and it is judged that adequate CP has not been provided to the UST system

CORROSION EXPERT'S NAME:	**COMPANY NAME:**
NACE INTERNATIONAL CERTIFICATION:	**NACE INTERNATIONAL CERTIFICATION NUMBER:**
CORROSION EXPERT'S SIGNATURE:	**DATE:**

VI. CRITERIA APPLICABLE TO EVALUATION

☐ **850 Instant Off**	Structure-to-soil potential more negative than –850 mV with respect to a $Cu/CuSO_4$ reference electrode with protective current temporarily interrupted (rectifier turned off)
☐ **100 mV Polarization**	Structure tested exhibits at least 100 mV of cathodic polarization

VII. ACTION REQUIRED AS A RESULT OF THIS EVALUATION

☐ **Routine Monitoring**	Cathodic protection is adequate – Monitor the rectifier every 60 days to ensure continued satisfactory operation
☐ **Retest**	Cathodic protection may not be adequate – Retest during next 30 days to achieve passing results
☐ **Repair & Retest**	Cathodic protection is not adequate - Repair within 60 days of first fail and retest after repair

If the rectifier amperage falls below amps during routine monitoring – Contact a qualified person to investigate

The next "routine" test of the cathodic protection system must be conducted by no later than:

VIII. DESCRIPTION OF UST SYSTEM

STATUS	PRODUCT	CAPACITY	TANK MATERIAL	INSTALL	PIPE MATERIAL	INSTALL	STP SUMP	MPD SUMP

PIPING FLEX CONNECTORS

LOCATION	TYPE of CORROSION PROTECTION		LOCATION	TYPE of CORROSION PROTECTION

IX. IMPRESSED CURRENT RECTIFIER DATA

RECTIFIER MANUFACTURER:	MODEL:	SERIAL #:

RATED DC OUTPUT: Volts Amps	RECTIFIER SHUNT: mV = Amps	SHUNT FACTOR = Amps/mV

AS FOUND

TAP SETTINGS OR RHEOSTAT %			DC OUTPUT				HOUR METER
COARSE	FINE	RHEOSTAT	INDICATED VOLTS	INDICATED AMPS	MEASURED VOLTS	MEASURED AMPERAGE	
						(Shunt Voltage = mV)	

POSITIVE AND NEGATIVE CIRCUIT MEASUREMENTS (Amps)													Anode Shunt Size = 0.01 Ω
CIRCUIT	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ANODE (+)													Amps
STRUCTURE (-)													Amps

☐ Mark this box if rectifier was not changed from the "As Found" settings

AS LEFT

TAP SETTINGS OR RHEOSTAT %			DC OUTPUT				HOUR METER
COARSE	FINE	RHEOSTAT	INDICATED VOLTS	INDICATED AMPS	MEASURED VOLTS	MEASURED AMPERAGE	
						(Shunt Voltage = mV)	

POSITIVE AND NEGATIVE CIRCUIT MEASUREMENTS (Amps)													Anode Shunt Size = 0.01 Ω
CIRCUIT	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ANODE (+)													Amps
STRUCTURE (-)													Amps

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

☐ Anode(s) replaced ☐ Anode wire(s) replaced ☐ Negative wire repaired/replaced

☐ Other (explain):

COMMENTS:

DESCRIPTION OF REPAIRS NEEDED:

RECOMMENDATIONS FOR CONTINUED OPERATION: Monitor and record the rectifier volts and amps with the appropriate form every 60 days

Take immediate action to have the system reevaluated by a qualifed person if monitoring indicates the rectifier amperage falls below amps

XI. CONTINUITY SURVEY

STRUCTURES TESTED		POINT-TO-POINT TEST	FIXED CELL-MOVING GROUND TEST			TEST RESULT
STRUCTURE "A"	STRUCTURE "B"	POINT-TO-POINT VOLTAGE DIFFERENCE (mV)	STRUCTURE "A" FIXED REMOTE VOLTAGE (mV)	STRUCTURE "B" FIXED REMOTE VOLTAGE (mV)	STRUCTURE "A" / "B" VOLTAGE DIFFERENCE(mV)	ISOLATED/ CONTINUOUS/ INCONCLUSIVE

REMARKS:

XII. STRUCTURE-TO-SOIL POTENTIAL SURVEY

NOTE: All measurements recorded in millivolts (mV) unless otherwise noted

STRUCTURE	STRUCTURE CONTACT POINT	LOCATION OF LOCAL REFERENCE CELL	ON VOLTAGE	INSTANT OFF VOLTAGE	STATIC VOLTAGE	VOLTAGE SHIFT	ELAPSED TIME	PASS/ FAIL

REMARKS: