Agenda – 2 Day STI/SPFA Cathodic Protection Tester Certification Course

Day 1

- 1 INTRODUCTION 8:00 AM Introduce speakers, review class book, review agenda Exam pass/fail - 75%
- FUNDAMENTALS OF CORROSION
 Definition of corrosion terms
 Corrosion examples
 Galvanic and electrolytic corrosion
 Galvanic series of metals
 Equipment: Copper/copper sulphate reference cell, voltmeters, resistivity meter, test leads...
 Equipment calibration
- 3 LAB A Metal to Soil potentials
- 4 CATHODIC PROTECTION TESTING Reference cell placement Making electrical connection to tanks and other equipments Structure to soil potential readings
- 5 SACRIFICIAL CATHODIC PROTECTION SYSTEMS Fundamental corrosion cell Sti-P3 system
- 6 LAB B Sacrificial Anode CP
- 7 LOCAL AND REMOTE READINGS
 What do they mean?
 Why are they important?
 Minimum number of readings per structure
 Stainless Steel
- 8 CONTINUITY/ISOLATION TESTING Fixed Cell Moving Ground
- 9 LAB C Fixed Cell Moving Ground Continuity Test
- 10 CRITERIA -850 mV on Criteria

	LUNCH	12:00 Noon
Afternoon		
11	MEET AT GALVANIC SYSTEM SITE Safety Discussion STI-P3 Site Test Fixed Cell Moving Ground Continuity/Isolation Test Soil Resistivity Test	1:00 PM
12	RECONVENE AT CLASSROOM	2:30 PM
13	REVIEW OF WHAT WE LEARNED AT SITE	
14	IMPRESSED CURRENT CP Rectifier Schematic Comparison Design vs. Galvanic Anode Anode Materials	
15	TESTING IMPRESSED CURRENT SYSTEMS Measuring Rectifier Outputs Shunts	
16	Lab D – Rectifier Outputs	
17	IMPRESSED CURRENT CATHODIC PROTECTION TESTING Instant off readings Reference cell placement Number of readings	
18	LAB E – Impressed Current CP Testing	

Day 2

1	IMPRESSED CURRENT CP CRITERIA -850 mV polarization 100 mV Polarization Criteria, Criteria Graph	8:00 AM
2	CONTINUITY TESTING Point to Point Continuity Method	
3	LAB F – Continuity Testing Point to Point Contact	
4	ADDITIONAL FIELD TESTS Soil Resistivity Current Requirement Test	
5	STI R972-01 SUPPLEMENTAL ANODES	
6	PAPERWORK & STATE CP FORMS	
7	MEET AT IMPRESSED CURRENT SITE Safety Discussion Measure Rectifier Functionality Test Impressed Current System Point to Point Continuity/Isolation Test	9:30 AM
8	RECONVENE AT CLASSROOM	11:00 AM
9	REVIEW OF WHAT WE LEARNED AT SITE	
10	TOTAL REVIEW OF BOTH DAYS	
Afternoon		
11	CATHODIC PROTECTION TESTER EXAM 3 part exam, must pass each section to get certified, minimum 75% on written exam	12:00 Noon

NOTE: All exams must be completed and turned in by no later than 3:00 PM