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DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Environmental Cleanup & Brownfields

Guidelines for the Evaluation of Underground Storage Tank Cathodic Protection Systems

Storage Tank Advisory Committee

Harrisburg, PA

June 2, 2015

Draft Technical Guidance

Purpose:

- to establish guidelines regarding the evaluation of cathodic protection systems operating on underground storage tank systems in the Commonwealth of Pennsylvania.

Applies to:

- industry professionals who conduct evaluations of cathodic protection systems; owners and operators of underground storage tank systems; and certified companies, installers, and inspectors who install, repair, or inspect underground storage tank cathodic protection systems.

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Divided into eight sections:

1. Introduction
2. Regulations
3. Definitions
4. Types of Cathodic Protection Systems
5. Qualifications
6. Installation and Repair
7. Testing
8. Evaluation Documentation

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1. Introduction

- Summary

2. Regulations

- Brief overview of what is required

3. Definitions

- Terms used throughout the document

4. Types of Cathodic Protection systems

- Galvanic and Impressed Current

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5. Qualifications

- Reviews minimum training required by regulation to test cathodic protection systems

6. Installation and Repair

- Reviews who must be involved when installing or repairing cathodic protection systems
- Galvanic and Impressed Current

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7. Testing

- Equipment
- Test criteria
- Other considerations
- Reference cell placement

8. Evaluation Documentation

- DEP Cathodic Protection Evaluation Form
- Items that should be included in results
- Results

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Appendices

1. Appendix A

- Industry Codes/Standards, References, and Regulations

DEP Cathodic Protection Evaluation Form

Purpose:

- To serve as a guide with a goal of consistent and accurate reporting of test results.

Divided into twelve sections:

1. Facility Information
2. Reason Survey was Conducted
3. Cathodic Protection Tester's Evaluation
4. Corrosion Expert's Evaluation

DEP Cathodic Protection Evaluation Form

5. Criteria Applicable to Evaluation
6. Action Required
7. Description of UST System
8. Impressed Current Rectifier Data
9. Impressed Current Positive/Negative Circuit Measurements
10. Cathodic Protection System Survey
11. Comments
12. UST Facility Site Drawing

A long wooden pier extends from the foreground into a calm body of water. The sky is filled with dramatic, dark clouds, suggesting a sunset or sunrise. The water reflects the light from the sky, creating a shimmering effect. The pier is made of dark wood and has a central pole with a light fixture at the end.

Thank you for your
attention.

Any Questions?



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