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corrosion when it has a voltage more negative than -0.85 volts when measured with a reference cell (e.g., a reading of -0.88 indicates that a tank is protected. A reading of -0.83 indicates that a tank is NOT protected and the CP system must be repaired.)

**Cathodic Protection
for Tanks & Piping
CathodiC ProteCtion**

...

Page 5/26

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(d) Bare pipelines, breakout tank areas, and buried pumping station piping must have cathodic protection in places where regulations in effect before January 28, 2002 required cathodic protection as a result of electrical inspections. See previous editions of this part in 49 CFR, parts 186 to 199.

49 CFR § 195.563 -

Page 6/26

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Which pipelines must have cathodic

..

A few basic rules in designing a cathodic protection system include: 1. Bonding together of all structures (tanks, pipes, both across joints and between different pipes, etc.) is of absolute necessity for proper protection. This will provide a metallic return current path for any cathodic

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current. 2.

Tanks Piping

Types of Cathodic

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Pipeline Protection

Cathodic protection, when applied properly, is an effective means to prevent corrosion of underground plant piping. For many underground applications, such as pipelines, cathodic protection system design is relatively straightforward. Plant

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and facility

environments,

however, are not

simple applications.

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Pipe Cathodic

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Protection for ...

Cathodic protection is a means of preventing metal structures—such as pipelines and storage tanks—from reacting with the environment and corroding. When exposed to the

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environment, carbon steel and other metals break down electrochemically and ultimately fail.

Cathodic Protection Systems | Galvanic & Impressed Current

...

Written by Anup Kumar Dey in Mechanical, Piping Design and Layout, Piping Materials. Cathodic Protection is an industrial technique for

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controlling metallic
corrosion. Corrosion is

an electro-chemical
process that operates
as an electrical circuit.

Corrosion occurs in the
Anode by oxidation and
metal is lost, whereas
in the cathode
protection occurs by
the reduction reaction.

**CATHODIC
PROTECTION BASIC
PRINCIPLES AND ... -
What is Piping**

Takeaway: Commonly

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used to protect

numerous structures
such as pipelines,
ships, tanks and
offshore oil platforms,

cathodic protection
works by allowing a
more reactive,

sacrificial metal to
corrode instead of the
protected metal.

Corrosion is a naturally
destructive

phenomenon that
occurs when some
metals are exposed to
the environment.

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The Basics of Cathodic Protection

Cathodic protection test results do not indicate whether or not a tank is leaking.

Cathodic protection testing measures only whether the CP system meets the required minimum readings. Monthly monitoring, leak detection and tightness tests must be performed to verify that a tank is tight.

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Cathodic Protection Testing FAQ - Steel Tank Institute ...

The tank has been installed for less than 10 years and is assessed for corrosion holes by conducting two tightness tests--the first occurs prior to adding cathodic protection and the second occurs 3 to 6 months following the first operation of cathodic protection.

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Upgrading bare metal piping is accomplished by adding cathodic protection.

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Release Prevention for Underground Storage Tanks (USTs)

- Compatible with cathodic protection currents
- Coatings must also be:
 - Inspected for damage prior to lowering in the ditch
 - Must be protected from

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damage from adverse
ditch conditions.

- Precautions must be taken to protect coated pipe that is to be installed by boring.

CATHODIC PROTECTION SYSTEM DESIGN.ppt

Cathodic protection or CP is the most common way to protect your underground propane tank or metallic gas piping below grade from corrosion or rust

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in Arizona. Corrosion is a natural process that can cause costly damage for your business or residence.

Cathodic Protection - Propane Tanks Phoenix | Gas Pipe

...

Vessels, pipelines and tanks which are used to store or transport liquids can also be protected from corrosion on their internal surfaces by the

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use of cathodic protection. ICCP and galvanic systems can be used. A common application of internal cathodic protection is water storage tanks and power plant shell and tube heat exchangers.

Cathodic protection

CATHODIC

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DRAWINGS DWD C0

Quick Reference Guide

- Cathodic Protection

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Turns Piping

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DWD C1 Wenner Four

Pin Resistivity Test

DWD C2 Barnes Layer

Resistivity Calculations

DWD C3 Soil Box

Resistivity Test DWD

C4 Bond Cables -

Metallic Pipe Joints

Sacrificial Anode

Systems

7. Cathodic Protection System Drawings

cathodic protection
(CP): (1) Decrease of
corrosion rate by

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shifting the corrosion potential of the electrode toward a less oxidizing potential by applying an external electromotive force; (2) Partial or complete protection of a metal from corrosion by making it a cathode, using either a galvanic anode or a DC impressed current.

Cathodic Protection Systems for Pipelines

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Cathodic protection is commonly used on many types of structures, such as pipelines, underground storage tanks, locks, and ship hulls.

1-5. Types of cathodic protection systems.

There are two main...

TM 5-811-7 Electrical Design, Cathodic Protection

It's your job to ensure all elements of your cathodic protection

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systems remain operational for the life cycle of the underground structure you're working to prevent from corroding.

Underground piping systems and propane tanks can suffer severe corrosion without proper maintenance.

4 Cathodic Protection Testing Methods: Preventing Rust ...

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Cathodic protection systems must be designed and installed according to applicable industry codes of practice for external CP of buried metal structures. Tanks with sacrificial anode CP systems must be manufactured to the sti-P3 standard.

**Cathodic protection
of underground
storage tank
systems**

Page 23/26

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□ american petroleum
institute recommended
practice 1632,

“Cathodic protection of
Underground

petroleum storage
tanks and piping

systems” □ american
petroleum institute
recommended practice
570, “piping inspection

Code: in-service
inspection, rating,
repair, and alteration
of

CHAPTER 5 Piping

Page 24/26

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During pipe-to-electrolyte potential measurements, which determine the level of cathodic protection at the test site, one should consider the following: Effectiveness of coatings, particularly those known or suspected to be deteriorated or damaged Bare sections of pipe Bonds to mitigate interference

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