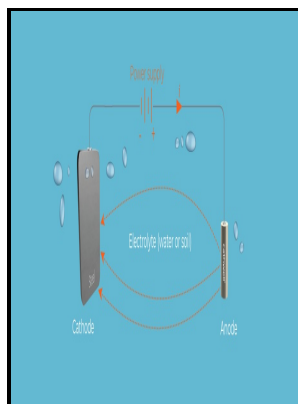


# Cathodic protection of pipelines and storage tanks

H.M.S.O - Cathodic protection



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## Cathodic Protection of Pipelines/Tanks

They also observed that quench and tempered martensite with fine precipitate offered better resistance to HE than banded microstructure with the coarse-grained banded structure showing the highest susceptibility. Only rarely is it preferable to omit protective coatings, such as on offshore oil production platforms in the North Sea. The condition is straightforward to model.

## Cathodic Protection

It is not always the ground-bed with the least resistivity that is most suitable, but rather the ground-bed that fits into the economics of the design. If these upgrade options are added at the same time, the advantages of this combined method are: USTs receive greater corrosion protection and the condition of the interior lining does not require periodic inspection. Table 1 shows how coatings fail with time.

## What Is Cathodic Protection and How Does It Work?

The electrode potential of various metals is displayed on a list known as the. Steel water heaters, and piles are also cathodically protected using a similar method. The driving force for the CP current flow is the difference in electrochemical potential between the anode and the cathode.

## Aboveground and Underground Storage Tanks

The anode corrodes very little, unlike the sacrificial galvanic anodes, such as magnesium, which supply electrons upon corroding. From the surrounding soil, and from electrical interactions with nearby infrastructure, such as power transmission lines, electric trains and impressed currents that are used to protect other buried pipelines.

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