

## **EFG 2009 - SESSION 3**

### **Cathodic Protection to Steel Pipelines**

#### **DC and AC interferences**

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Corrosion of metals is a natural electrochemical process. Understanding corrosion of steel pipelines understands the most frequently applied corrosion mitigation techniques: electrically isolating coatings or cathodic protection. In practice both will be used.

Interferences from the environment can affect the effectiveness of cathodic protection, be it DC stray currents from DC traction systems, and be it induced AC from high voltage power lines. Well-designed mitigation measures are necessary.

Special techniques require competent people delivering high quality jobs. CEN defined and harmonized the competence levels and the certification process of cathodic protection personnel, publishing EN 15257:2006.