SECTOR A – Working Group Activities

Updated Aug. 08

Assessment of CP effectiveness on buried pipelines

- Standards
- CP measurements
- Reference electrodes
- Probes and coupons
- Electrical surveys
- Telemetering systems

SECTOR A – Working Group Activities

Updated Aug. 08

WG A1 Permanent Reference Electrodes

Chairmans: S. Fontaine (France), P.J. Stehouwer (The Netherlands)

The activities of this WG will be particularly addressed to:

- ***constitution and peculiarities of reference electrodes, including those incorporated in probes, and their use;***
- ***problems encountered and solutions;***
- ***importance of permanent reference electrodes for remote CP monitoring and remote control;***
- ***issue of recommendations for verifying the effectiveness and the efficiency of permanent reference electrodes, especially in the presence of stray currents.***

WG A2 Remote Control Systems for Cathodic Protection

Chairmans: Peter Frenz (Germany, DVGW) K. Riegel (Germany), M. Melis (Slovak Republic), L. Di Biase (Italy)

Starting from existing documents (e.g. CEN, UNI Standard, DVGW Guidelines), a framework document in the field of remote control of C.P Systems will be prepared

SECTOR A – Working Group Activities

Updated Aug. 08

WG A3 Experiences on a.c. Corrosion-Annual Review
Report of a.c. Interference and a.c. Corrosion: Techniques, Standards and Rules - State of the art
Chairmans: ***L. Di Biase, M. Buckler, H.G. Schoeneich***

New experiences and up-dated information on a.c. Corrosion will be reported periodically, especially relating to field experiences (electricity Power Lines, High-Speed Traction Systems). An addendum to the AC Corrosion booklet will possibly be provided when the relevant information justifies it.

SECTOR A – Working Group Activities

Updated Aug. 08

WG A4 Use and Limitation of Coupons for Cathodic Protection Monitoring Purposes

Chairmans: P. Cohn (Denmark)), L.V. Nielsen (Denmark)

In order to evaluate the corrosion likelihood of buried pipelines due to a.c or d.c. stray currents activity, it is commonly recommended (for instance in the newly drafted Technical Specification EN TS 15280 on a.c. corrosion) to apply coupons connected to the pipeline. The coupons serve as artificial coating defects and are used to study parameters like a.c. current density, a.c./d.c. current ratio, instant off-potentials, leakage resistance, corrosion rates etc.. When using such an approach, it is a straightforward question if such coupons to an acceptable degree reflect a true coating fault with respect e.g. to the above said parameters.

This Working Group will deal with these aspects in relationship with existing recommendations, practices and specifications on the use of coupons, as well as in relation to the experiences so far gathered.

SECTOR A – Working Group Activities

Updated Aug. 08

WG A5 Corrosion and Cathodic Protection Aspects of Pipeline Integrity

Chairmans: *L. Di Biase Isproma* *(Italy)*
P. Cohn *Energinet. DK* *(Denmark)*

Scope of the Working Group is to focus corrosion and cathodic protection aspects of pipeline integrity, especially for pipeline which cannot be inspected by intelligent pig. Discussion of parameters and techniques useful to the scope of verifying pipeline integrity from cathodic protection measurements and/or specialised surveys. PIMS (Pipeline Integrity Management Systems and ECDA (External Corrosion Direct Assessment) approaches will be discussed and verified.