

EUROPEAN FEDERATION OF CORROSION
Working Party « CATHODIC PROTECTION »
(EFC WP 16)

Minutes of the 14th Meeting
September 9th, Edinburgh, UK

I. Welcome, Apologies

The meeting was opened by M. Roche (Total), who shortly presented the Working Party. He transmitted the received apologies for the people who could not attend the meeting, circulated the attendance list (see [Appendix 1](#)), presented the agenda (as depicted in the invitation, see [Appendix 2](#)), and started the meeting. 21 people attended the meeting.

L. Lanarde (GDF SUEZ) accepted to be the secretary for this meeting.

Attendees:

Marcel Roche (Chairman), Thierry Chevrot and Jean Vittonato (Total), Lise Lanarde (GdF SUEZ), Sylvain Fontaine and Serge Jacobs (GRTgaz), Luciano Lazzari (Politecnico di Milano), Linda Goldberg (NACE International), Ken Lax (Corroconsult), J. Parlongue (Elsyca), Lucio Di Biase (Isproma), Michael Moffat (CORRPRO), Simone Tremolada (Industrie De Nora), Lars Vendeltso Nielsen (Metricorr), Maria Elena Afonso (PDVSA Intevep), Teifur Akram (PDVSA Intevep), Zoltan Luckas (Inderxon), Kresimir Kekrez (Pa-El), Chris Googan (Anticorrosion Engineering), Dominique Thierry (Institut de la Corrosion), Zita Lourenco (Zetacorr).

Apologies:

Anne-Marie Grolleau (DCNS), Adrian Gomila (Guldager Electrolysis), Markus Buechler (SGK), Thomas Theissen (Wikkon), John Thirkettle, Michèle Lefèbvre (DGA), Antoine Pourbaix (CEBELCOR), Brian Wyatt (Corrosion Control), Bernard Graux (Fluxys), Xavier Campaignole (GDFSuez).

II. Approval of the minutes of the 13th meeting held in Freiburg-im-Breisgau, Germany, on September 11th 2007

The minutes were approved without modification.

III. EFC WP16 business: Presentation of the main objectives for the next three years and the associated action plan

The 2 major objectives are:

1. Exchange of information and recommendations for CP measurements and coating surveys techniques for buried pipelines.

2. Follow-up of progress in Certification of CP personnel / companies in Europe, especially consecutive to the publication of EN 15257 (CP – Competence levels and certification of CP personnel).

The detailed measures by which the above objectives will be achieved are (see [Appendix 3](#) for the details):

1. The group decides to meet once a year during the Eurocorr conferences.
2. Joint sessions may be organized with WP 9 (marine), WP 11 (concrete) and WP13 (Oil & Gas).
3. Maintenance of a WP page on the www.EFCWEB.org website: the statistics of certifications according to competence levels and countries will be added to the site.
4. EFC WP16 should contribute to EFC Newsletter by writing a paper (candidates are welcomed).
8. The WP 16 will help co-operation between ISO TC 67 SC 2 WG 11 and CEN TC 219 WG1 to harmonize ISO 15589-1 and EN 12954.
9. Preparation of publications for the EFC Series of Books (“Green books”) constituted of the best papers presented at the previous Eurocorr’s: the major problem is that papers at Eurocorr’s are not lectured and approved by EFC before their presentation at the congress, as it is case for the NACE congress or others. A selection will be therefore necessary together with some modifications of the papers if necessary.
10. There is no project to organize a joint session at Eurocorr’2008 in collaboration with NACE STG 35 or CEOCOR Sector A.
11. A junior deputy chairman for the EFC WP16 has still to be designated to assist and eventually replace Mr Roche (candidates are welcome)..

IV. Exchange of information on the implementation of EN 15257 "Competence levels and Certification of Cathodic Protection Personnel" in the various European countries

As usual, M.Roche did an updating on this topic (see [Appendix 4](#)). There is a problem in data collection of the number of certified persons country by country. If a person is certified for 2 different levels, it appears twice in the statistic table of certificates. In addition, some persons may have been certificated but are not more working in the CP activities or have no more their certificates valid for a given reason. From now, the situation will be presented in two tables:

- One with the cumulative number of delivered certificates,
- One with the number of active persons who are actually certified,

This has to be done according to the country which delivered the certificate. **It is necessary to have active corresponding members to get updated and complete data.**

Some problems remain:

- Germany certifies the CP companies and not the personnel. It is difficult to get updated information.
- The language: France will be capable to certify English-speaking persons in 2009 for Seawater Sector levels 1 and 2 and for level 3 for all application sectors.

V. Preparation of the work for an EFC Publication on the “State of the Art Report for the assessment of CP of buried pipelines”

M.Roche did an updating on this topic (see Appendix 5 of the minutes of the 13th meeting). It is reminded that this objective is very difficult to reach due to the low involvement of EFC WP16 members.

T. Chevrot (new Chairman of EFC WP13 Oil & Gas) introduced the interest to write a more general document on the industry’s best practice for corrosion management of pipelines from design stage to end of life (see [Appendix 5](#)). It will make reference to existing standards, life-cycle methodologies, maintenance optimization, decision analysis, risk assessment, etc.

It is expected that both WP13 (general management & internal corrosion) & WP16 (external corrosion) would work complementarily. T. Chevrot proposed to update the document every 4 or 5 years.

A similar document is currently prepared in the USA by members of the NACE Task Group 370, but three Majors are against.

In view of long-term, NACE and EFC works could be used to prepare an ISO standard.

Free discussion:

- OK to write the EFC WP16 document as a part of the general “Pipelines Corrosion Management” Publication. The contents will have to be detailed. T. Chevrot invited volunteers to define the first version.
- K. Lax mentioned that CEOCOR Sector A has already tried to write such a document, 2 or 3 years ago but they stopped due to lack of compromise. GERG (Groupement Européen pour la Recherche dans le Gaz) has also started such a work but it is only open to the companies members of this organism. The idea of CEOCOR members was to put the document, almost finished, on their web site so that it is read and improved by the readers.
- The best solution would be to prepare a common document between CEOCOR Sector A and EFC WP16 to continue the collaboration started with the Joint Working Session held at eurocorr’2008. K. Lax could be a liaison officer. L. Di Biase, President of CEOCOR Sector A who was participating to the meeting was personally in favour of this co-operation. Unfortunately, he has informed M.Roche after the meeting that the Board of CEOCOR has not approved this collaboration because they consider the topic has been enough addressed by CEOCOR and documents are available. This is a pity, but anyway EFC WP16 will make all its possible to have as much as European CP experts working for this important job, and all the experts working with CEOCOR are kindly invited to participate as individuals. Published CEOCOR documents will be used.

VI. Presentation of CEOCOR (Sector A) by L. Di Biase Isproma

L. Di Biase (Isproma) introduced the Sector A activities which he chairs (see [Appendix 6](#)) :

1. WG A1: Permanent Reference Electrodes

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

2. WG A2: Remote Control Systems for Cathodic Protection

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

3. 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

4. WG A4: Use and Limitation of Coupons for Cathodic Protection - Monitoring Purposes

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

5. WG A5: Corrosion and Cathodic Protection Aspects of Pipeline - Integrity

Chairmans: L. Di Biase (Italy), P. Cohn (Denmark)

VII. Presentation on modelling for simulation of stray current interference problems by J. Parlongue (Elsyca)

Elsyca is specialized in modeling, simulating and optimizing of electrochemical processes. The presentation deals with “3D BEM and FEM simulations applied to stray current interference problems. A unique coupling mechanism that takes the best of both methods”. A corresponding paper was written for Eurocorr 2008 (n°1531 on the CD) but not presented in CP sessions.

VIII. Next EFC WP16 meeting

The next meeting of EFC WP16 will be organised at **Eurocorr’2009 in Nice (Sept.6 – 10, 2009)**.

No Joint Workshop will be organised this year with CEOCOR and/or NACE (no success from this side for 2008) but EFC WP16 members are kindly requiinvited to contact some experts from USA, Brasil, Australia and other countries in order to enrich the participation to CP session..

Don’t forget to submit your abstracts on the Web site of EFC by the end of January 2009 without omitting to mention that they are proposed for the CP session (tick then right case).

L. LANARDE

Secretary

6 appendices

M. ROCHE

EFC WP 16 Chairman