



EUROPÄISCHE FÖDERATION KORROSION
EUROPEAN FEDERATION OF CORROSION
FEDERATION EUROPEENNE DE LA CORROSION

Working Party « CATHODIC PROTECTION » (EFC WP 16)

Minutes of the 16th Meeting September 14th 2010 Congress Centre of World Trade Centre Moscow, Russia

1. Welcome, Apologies.

The meeting was opened by the Chairman, Marcel Roche (Total Technology Specialists, France), who shortly presented the Working Party. After the usual apologies for the people who could not attend the meeting and the attendance list for those who could, the intended agenda as depicted in the invitation started the session (see [annex 1](#)). 10 people attended the meeting, representing 7 countries.

Anne-Marie Grolleau (DCNS, France) accepted to be the secretary for this meeting.

Attendees:

Marcel Roche (Chairman EFC WP16, Total Technology Specialists, France), Linda Goldberg (NACE International, USA), Anne-Marie Grolleau (DCNS, France), Simone Tremolada (Industrie De Nora, Italy), Andrea Cremonesi (Industrie De Nora, Italy), Ian Godson (Ian Godson Associates, Australia), Zita Lourenço (Zetacoor, Portugal), Salim Debbache (Technip, France), Jorge Fernando Coelho (Petrobras, Brazil), Alex Zaitsev (Izmiran, Russia).

Apologies:

Sylvain Fontaine (GRTgaz, France), Markus Büchler (SGK, Switzerland), Chris Googan (Anticorrosion Engineering Ltd, UK), Brian Wyatt (Corrosion Control, UK), Lucio Di Biase (Isproma, Italy), Jean Vittonato (Total, France), Lise Lanarde (GDFSuez), Peter de Kler (Kiwa, the Netherlands), Nick Kioupis (DESFA, Greece), Ingvild Absjornsen (Statoil, Norway), Joan Soldevila (Procainsa, Spain), Stuart Bond (TWI, UK), Michael Surkein (ExxonMobil, USA), Stuart Lion (UMIST, UK), David Kroon (Corrpro, USA), Jean-Marc Dewilde (Elsyca, Belgium), Leif Berthagen (Accede AB, Sweden).

The present minutes of meeting are sent to the attendants and to those who were not able to attend this time. They are also sent to those who attended the recent previous meetings and to other potentially interested colleagues.

2. Approval of the minutes of the 15th meeting held in Nice, France, on September 8th 2009.

The minutes were approved without any modification. The minutes will be available on the EFC website, as well as their annex 3.

3. EFC WP16 business: objectives, action plan, website, chairmanship.

It has been reminded that the major objectives of EFC WP16 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).
3. Issue of an EFC publication on the “best-of “of the papers published at the Eurocorr’s on CP.

The updated detailed action plan of EFC WP16 as registered by EFC STAC has been presented.

Marcel Roche **is still looking for a deputy chairman** for the EFC WP16 to assist him and **replace him in the near future** (candidates are welcomed; please feel free to contact him).

One of the main objectives of the WP 16 is to organize sessions during Eurocorr’s. A Keynote lecture and 14 papers will finally be presented for this year’s session, leading to a session starting on Wednesday morning and ending on Thursday afternoon. It comprises a joint session of 4 papers devoted to cathodic protection in concrete organized with WP11 (Corrosion in concrete). Unfortunately, it has not been possible to organize this year any joint session with the WP9 (Marine Corrosion) due to the lack of sufficiently relevant papers.

4. Exchange of information on Certification in Cathodic Protection.

It was reminded that CEN TC 219 WG 5 is now disbanded because EN 15257 has been published in Dec. 2006. EFC WP 16 has decided to follow up the progresses in certification in the various European countries and in other countries of the world, especially to know the situation regarding the implementation of EN 15257.

In order to get maximum information, a delegate has been nominated in each of the European countries known to be organizing certification in CP: Brian Wyatt for UK, Luciano Lazzari for Italy, Henk van Bruchem and Peter de Kler for Netherlands, Peter Frenz for Germany, and Marcel Roche for France. In addition, this year Joan Soldavila for Spain and Markus Büchler for Switzerland gave valuable information for their countries.

M. Roche presented an update based on the most recent information received, summarizing the known cumulated number of certificates which have been attributed for each level and application sector by the various European countries in full accordance or not with EN 15257 ([Annex 2](#)).

Certification of personnel based on EN 15257 has started in Switzerland in 2008 for Buried structures and Concrete and Spain should operate next year a certification scheme for Buried structures.

No recent information has been received from UK, Germany and Netherlands and the data previously available have been used.

Data received from Italy show a decrease of the number of certificates for some combinations of application sectors and competence levels. This should be clarified, as well as the way in which training and examination are performed for Seawater applications. S. Tremolada informed the audience that a course will be organised by APCE and Politecnico di Milano (Polimi) at Politecnico di Milano, Dept. CMIC “Giulio Natta, in Milan, Italy, on April 11 – 16, 2011 for “Cathodic Protection in Concrete” (certification level EN 15257 Level 2). An examination may be passed after this training course, organised by CiCPnD after the training course. Information and registration may be obtained at polilapp@polimi.it or apce@apce.it.

M. Roche underlined the fact that there is no official equivalence between the various European certification bodies applying EN 15257 schemes as long as this equivalence is not demonstrated through a formal Accreditation process. In addition, it would be profitable to harmonise all the certification schemes as well as to establish close co-operations between several European countries in order to optimise the training courses, the testing and training facilities and examination processes.

The situation can be compared to NACE figures, thanks to Mrs Goldberg who supplied all the needed information to M. Roche. The reported approximate total number of certificates in Europe is 1092 as compared with 4160 for NACE. It has to be noticed that 63,3 % of NACE certificates are for level 1 (lowest of the 4 levels).

On a longer term, why not working for the establishment of an ISO standard (in the frame of ISO TC156), which could harmonise the NACE scheme, the European scheme and others? Mrs Goldberg will let NACE know that the EFC is open to discussion concerning this matter.

Some information was given by Jorge Fernando Coelho on the implementation of a training and certification scheme in Brazil. Two training centres are being built: one in Sao Paulo and one in Rio. Some Brazilian representatives visited the existing centres to take suggestions and feedback, in France, the USA and Argentina. The trainings are planned to start next June and the objective is to train technicians to levels 1 and 2 in the field of buried pipelines and offshore. The certification will be issued by the Brazilian Corrosion Association, ABRACO.

5. Project of an EFC Publication on the “State of the Art Report for the assessment of CP of buried pipelines”.

M. Roche made an update on this topic, reminding that the objective of writing a publication in the EFC Series of Books (“Green books”) on it is very difficult to reach due to its technical difficulty and to the too weak involvement of EFC WP16 members.

The EFC WP13 (Oil & Gas) is working on a more general document on the industry’s best practice for corrosion management of pipelines from the design stage to the end of life. The publication will be kept simple for cathodic protection with references to existing standards only. A similar document is prepared by NACE on the same topic. The two documents could hopefully merge within a unique document in the future.

The involvement of the WP 16 members in the preparation of such an EFC Publication is questioned by M. Roche. There is an obvious lack of human resources to go on with this publication. It was agreed to stop on this project for the time being as nobody was really willing to participate any further. M. Roche will again contact Lucio di Biase to try to work with CEOCOR on this topic in the future.

An objective is also to compare the approaches from different countries represented by EFC with the present debate in NACE STG 360 because there are some major disagreements on criteria and measurement methods. M. Roche proposed to organize a workshop on this topic during Eurocorr 2012 in order to contribute to technical discussions and exchanges and possibly reach an agreement.

6. Project of an EFC Publication on the “Best of” of the papers published at the Eurocorr’s on CP.

This project consists in preparing a publication 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 conferences, as it is the case for the NACE conferences or others. A selection will be therefore necessary together with some modifications of the papers with the approval of authors if needed.

A.M. Grolleau has prepared a CD gathering all the papers relevant to CP (except CP in concrete) since Eurocorr 2000. It has been circulated among the French WP 16 delegates willing to be involved in this project. The final papers selection has still to be made. Other volunteers from EFC WP 16 are welcome to help for reading and checking the other papers and contacting their authors to update them.

7. Other technical topics and free discussions.

Alex Zaitsev (Russia) raised a question on the effects of the telluric currents on the coated pipelines. This topic has not been addressed yet and the organization of a devoted workshop could be a good idea.

A panel discussion on the future needs of corrosion legislation in maritime activities has been scheduled during the 2010 Eurocorr Conference, on Thursday 16th. The objectives of this panel are mainly to discuss the new regulations issued by the International Maritime Organization (IMO) and to propose new initiatives for consideration within the IMO. NACE, as an NGO, has just started the process of participation within IMO and has asked the EFC to join this effort to improve the safety, the environment and the efficiency of the marine industry. How the EFC and NACE will collaborate on this topic will also be discussed during this panel. This discussion panel has been organized by the EFC WP9, Marine Corrosion. M. Roche asked whether there were rules on the use of aluminium anodes in cargo and ballast tanks within the IMO, especially regarding the possible generation of sparks when the anodes are installed in the upper parts of the tanks. A.M. Grolleau, who is involved in the panel discussion and NACE's IMO Advisory Council, will investigate this.

Jorge Fernando Coelho informed the WP 16 members that, in Brazil, Petrobras has just launched a project to study the lightening and its effects on buried pipelines. In recent years, a 40% increase in the lightening events has been observed in Brazil and has induced some problems in buried pipelines (an increase of the hardness due to the heat produced by the lightening). Lightening will be simulated in lab to study the phenomenon. Information is wanted on this topic and any exchange of information is welcome. M. Roche indicated that a forum on this topic could be organized on the EFC website.

8. Next meeting and events.

The next business meeting of EFC WP16 will be organised during **Eurocorr'2011 in Stockholm, Sweden (Sept. 4 – 8, 2011)**. **Abstracts for the CP session are welcomed on the dedicated website.**

M. Roche informed the attendance that a 3-day seminar on Cathodic Protection and Associated Coatings is organised in **Aix-en-Provence, France, by CEFRACOR (EFC Event n° 336) on June 21 – 23, 2011**. The language will be French but presentations may be done in English. All information is available in **Annex 3** or the dedicated website <http://www.cefracor.org/aix2011>. Abstracts may be proposed by October 2010.

A.M. GROLLEAU
Secretary

M. ROCHE
EFC WP 16 Chairman

3 annexes