



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

## **Working Party « CATHODIC PROTECTION » (EFC WP 16)**

### **Minutes of the 15<sup>th</sup> Meeting September 8<sup>th</sup> 2009, Nice, France**

#### **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](#)). 16 people attended the meeting, representing 8 countries.

Sylvain Fontaine (GRTgaz, France) accepted to be the secretary for this meeting.

#### **Attendees:**

Marcel Roche (Chairman EFC WP16, Total Technology Specialists, France), Sylvain Fontaine (GRTgaz, France), Linda Goldberg (NACE International, USA), Anne-Marie Grolleau (DCNS, France), Jean-Pierre Pautasso (DGA, France), Jérôme Blanc (DGA, France), Dominique Festy (Institut de la Corrosion, France), Simone Tremolada (Industrie De Nora, Italy), Denise Le Flour (IFREMER, France), Stéphane Gasteau (CJP Expertise, France), Stuart Lyon (ICorr, UK), Stale Nodland (StatoilHydro, Norway), Michael Surkein (Exxonmobil, USA), Patrick Hivert (PLS, UAE), Kresimir Kekez (PA-EL cathodic protection, Croatia), El Miloud Jallouli (MMC Engineering, Morocco).

#### **Apologies:**

Adrian Gomila (Guldager Electrolisys, Spain), Markus Büchler (SGK, Switzerland), Antoine Pourbaix (Cebelcor, Belgium), Brian Wyatt (Corrosion Control, UK), Luciano Lazzari (Politecnico di Milano, Italy), Lucio Di Biase (Isproma, Italy), Michael Moffat (Corrpro, UK), Ken Lax (Asset Integrity Services, UK), Serge Jacobs (GRTGaz, France), Jean Vittonato (Total, France), Lise Lanarde (GDFSuez), Amir Fardinrad (Iran), Lukacz Zoltan (Indexon, Hungary), Jacques Parlongue (Elsyca, Belgium), Henk van Bruchem (Netbeheer Nederland, the Netherlands), Peter de Kler (Kiwa, the Netherlands).

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. This is particularly the case of Prof. Dr. Victor Timonin (All-Russian Scientific Research Institute of Corrosion, Moscow, Russia) who is responsible for Cathodic protection session in the Russian Scientific Committee organizing Eurocorr'2010.

#### **2. Approval of the minutes of the 14<sup>th</sup> meeting held in Edinburg, UK, on September 9<sup>th</sup> 2008**

The minutes were approved without any modification.

### 3. EFC WP16 business: objectives, action plan, Website, Deputy Chairman

It has been reminded that the 2 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).

The detailed action plan of EFC WP16 presented at the previous meeting has been reminded. Progresses made since this meeting and decisions taken during the 15<sup>th</sup> meeting are:

- A Joint session has been organized at Eurocorr'2009 with WP 9 (marine). It is intended to do the same at Eurocorr'2010 if enough abstracts dealing with CP in seawater are proposed. It could also be the same with EFC WP 11 (concrete). At Eurocorr'2009 no Joint session has been organized with WP 11 but presentations dealing with CP or other electrochemical techniques in concrete have been generally presented separately from CP sessions. The sessions dealing with CP at Eurocorr'2009 have been reminded (cf. page 2 of Annex 1).
- EFC WP 16 page on the EFC web site has been written. It is wished that EFC WP16 members will become accustomed to visit [http://www.efcweb.org/Working\\_Parties-p-104085/WP\\_16.html](http://www.efcweb.org/Working_Parties-p-104085/WP_16.html). It is reminded that no keyword is necessary to access the website (free access). **Annex 2** shows the present page, which includes:
  - History of WP16
  - Objectives
  - Strategy Plan,
  - Past and present activities,
  - Excerpt of meeting minutes,
  - Date and place of forthcoming meeting,
  - Publications.
- Everybody agreed to include the **minutes of meetings only when approved** (i.e. after the following meeting), together with some relevant appendices.
- The WP16 page should also include a **short presentation of cathodic protection**. **Stuart Lyon** has already written something on this subject for another purpose and will propose a text to Marcel Roche for the WP16 website as soon as possible.
- EFC WP16 should contribute to EFC Newsletter by writing a paper (candidates are welcomed): nothing has been made since last year.
- Major progress in common standardisation work for CP of pipelines as proposed by EFC WP16: For on-land pipelines, the revisions of ISO 15589-1 and EN 12954 are now prepared by a single joint working group (ISO/TC 67/SC 2/WG 11-1 & CEN/TC 219/WG 1). Same thing for offshore pipelines, the revisions of ISO 15589-2 and EN 12474 are now made in a single joint working group (ISO/TC 67/SC 2/WG 11-2 & CEN/TC 219/WG 3). In both case there will be parallel votes through Vienna's agreement, with ISO lead.
- Preparation of publications for the EFC Series of Books ("Green books"): detailed in chapter 5 below.

- Up to now, it always failed to have joint sessions at Eurocorr organized by NACE STG 35 and EFC WP16. May be possible in the future? New Joint sessions with CEOCOR Sector A have also to be confirmed.
- Marcel Roche **is still looking for a junior deputy chairman** for the EFC WP16 to assist him and eventually replace him in the future (candidates are welcomed; please feel free to contact him).

#### **4. Exchange of information on Certification of Cathodic Protection Personnel**

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, especially for knowing 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, Lucciano Lazzari for Italy, Henk van Bruchem and Peter de Kler for Netherlands, Peter Frenz for Germany, and Marcel Roche for France.

**Annex 3** reproduces the presentation made by M. Roche on the present situation, from the most recent information received, summarizing the 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. Many thanks to all the correspondents who have produced these interesting data. It is very difficult to establish a similar table for the actually active certificated CP personnel in each European country. Some individuals have certificates for several competence levels and/or application sectors, and some of them are no more active in CP.

The following briefly highlights the most important information:

##### British experience:

UK is still working with the previous certification system introduced many years ago. Institute of Corrosion has started to work according to EN 15257, implementing the standard for new candidates and checking that previous levels 3 are conform to the standard. This is now checked for existing levels 2 and 1, mainly in terms of experience. In 2010, UK should be able to confirm how many people have a CP level according to EN 15257. They have had the attribution of the first certificates at level 1 for Concrete application sector.

##### Italian experience:

Appendix 3 gives the number of candidates certified for each sector.

##### Dutch experience:

Certificates are delivered by Kema Quality B.V. and training and examination are organized by Kiwa Training.

Netherlands do not fully implement EN 15257: there is no requirement for experience, and they do not plan to require it in the future.

##### French experience:

CEFRACOR/CFPC has been mandated by AFNOR Certification in 1998 for the attribution of the "AFNOR Compétence" mark for CP personnel as per NF A05-690 (Competence) and NF A05-691 (Certification). CFPC considers now that EN 15257 is fully implemented since January 2009.

France has one examination centre for land applications (GDFSuez in Compiègne) and one for seawater applications (Ifremer in Brest). There are three training centres for land applications in France (which should be agreed in 2009 by CFPC) and one in Morocco. There is also one training centre for seawater applications (Institut de la Corrosion in Brest). Training sessions in English will be soon available for seawater applications. Launching of a new "level 1S" for divers is currently done.

#### German experience:

No recent information from Germany has been obtained. It is highly hoped to be informed on any eventual progress in certification of personnel which could be organised as a complement of the existing system of certification of CP companies. Thank you to **Peter Frenz** to give updating to M. Roche.

#### Decisions:

The website will include the table giving the updating of cumulated certificates in Europe. In addition, all attendants agreed to include annex 3 from now on the website.

Mrs **Linda Goldberg** kindly agreed to send to Marcel Roche an equivalent table for NACE certification. Note that NACE proposes four competence levels whereas EN 15257 proposes three. It has been suggested that in the future EN 15257 could be revised for four competence levels (experience in France shows the need of a "simplified" level 1 which will be organised by the seawater sector for divers). This could allow an international unique scheme based on an ISO standard which could be written by ISO TC156 WG10 in the future.

### **5. Project of an EFC Publication on the "State of the Art Report for the assessment of CP of buried pipelines" and collaboration with EFC WP13 "Oil & Gas" for preparing a document on "Corrosion Management of Pipelines".**

M.Roche did an updating on this topic, reminding that the objective of writing an EFC Publication on this topic is very difficult to reach due to its technical difficulty and to the too weak involvement of EFC WP16 members. In addition, co-operation with CEOCOR Sector A which seemed to be possible during the last meeting to which Lucio Di Biase participated has finally shown to be impossible for the time being.

T. Chevrot (Chairman of EFC WP13 Oil & Gas) has introduced last year 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. It will make reference to existing standards, life-cycle methodologies, maintenance optimization, decision analysis, risk assessment, etc. This document should contain a detailed explanation of assessment of CP of buried pipelines.

It was expected that both WP13 (for general management & internal corrosion) and WP16 (for external corrosion) would work in parallel. Finally, the aim for EFC WP 13 is now to write as quickly as possible a first draft of this document with the help of a consultant (Bijan Kermani). A first meeting has been organized in June 2009 in Paris where a work programme has been established. It has been decided that WP13 will prepare the whole document, including for CP which is included in the chapter 5 "Inspection" written under the responsibility of Alan Crossland (BP). When the first draft will be written it will be possible for EFC WP 16 to make comments for the CP part.

EFC WP 16 members interested to make comments on this draft are: Stuart Lyon, Michael Surkein, Marcel Roche, Patrick Hivert, Stéphane Gasteau, Sylvain Fontaine. Other candidates should ask for the draft to be commented to M. Roche.

## **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 case for the NACE conferences or others. A selection will be therefore necessary together with some modifications of the papers if necessary.

It has been decided to prepare the work as follows:

- Selection of the best and still presently valuable papers presented since Eurocorr’ 2000,
- CP in concrete will be excluded,
- M. Roche is the main responsible for the project,
- Anne-Marie Grolleau will start the work by constituting a CD giving copies of the relevant papers,
- Anne-Marie Grolleau and Jean-Pierre Pautasso will study the papers related to seawater applications,
- Other volunteers from EFC WP 16 are welcomed to help for reading and checking the other papers and contacting their authors to update their articles,
- It has been proposed to D. Festy and J. Parlongue to write a full version of their interesting presentations at Eurocorr’2009 to include them in the future Publication.

## **7. Other technical topics and free discussions.**

Jean-Pierre PAUTASSO’s request about ISO 15711 (Determination of resistance to cathodic disbonding of coatings exposed to sea water): ISO 15711 contains some mistakes that should be corrected as soon as possible. France will request ISO TC35 WG9, responsible for this standard published in May 2003, to revise this standard and would like to be supported by the maximum of other countries members of ISO TC35.

## **8. Participation to the next events**

The next meeting of EFC WP16 will be organised during **Eurocorr’2010 in Moscow (Sept. 13 – 17, 2010)**.

**Don’t forget to submit your abstracts on the Web site of EFC by the 15<sup>th</sup> of January 2010 without omitting to mention that they are proposed for the CP session (tick the right case).**

S. FONTAINE  
Secretary

M. ROCHE  
EFC WP 16 Chairman

3 annexes