

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

Minutes of the 8th Meeting September 26th 2002, Granada, Spain

Welcome, Apologies

The meeting was opened by M. Roche, who presented the Working Party (objectives, date of creation, annual frequency of meetings) for the persons who were attending the meeting for the first time, and then reminded the topics to be discussed. After the usual apologies for the people who could not attend the meeting and the attendance list for those who could (see appendix 1), the intended agenda (as depicted in the invitation, see appendix 2) started the session. E.Collet accepted to be the secretary for this meeting.

5 attendants participated to the meeting (many members were occupied in ICC Conference parallel sessions).

Nota: Due to the very low attendance of this meeting, a **questionnaire is added** to the present minutes of meeting in order to verify the interest of all the persons listed in the "member list" (= those who attended at least once the meetings of EFC WP16), and to check the opinion of the members on certain points related to EFC WP16 activities. Could you please take a few minutes to **fill-in it and e-mail or fax it to M.Roche** as soon as possible.

Approval of the minutes of the 7th meeting held in Lago di Garda on October 3rd

The minutes were approved without modification.

Information on the work carried out in the frame of the CEN/TC219/WG5 on "Qualification and Certification of cathodic protection personnel"

M. Roche reminded the background and the present situation as well as the main decisions and actions taken concerning the process of qualification and certification of personnel, services and companies in the field of Cathodic Protection, presented during the workshop EFC Event 253 devoted to certification in the corrosion field, held in Aix en Provence on June 4-5 2002 (see Appendix 3).

Preparation of the work on EFC Publication on the "State of the Art" report for assessment of CP of buried pipelines. Designation of a responsible for this task.

M. Roche reminded the objective of this work, which is to give recommendations for the use of the methods as a function of the aims of the measurements. It is considered that even if it is only a "cook book" sharing experiences on the effects of coatings, soils, stray currents,... the work would be anyway valuable because no complete updated document exists on this topic as a complement of existing or in preparation standards.

During the 6th meeting, a first extended outline had been prepared, as a basis for the work of the working group.

The chapter "Detection and evaluation of coating defects" was commented : it has been decided to study the reliability of the method that theoretically permits to differentiate the anodic from the cathodic defects. The different chapters have been reviewed and accepted.

M. Roche reminded the importance of a collaboration with CEOCOR Sector A to participate to a joint working group, considering the implications of both EFC and CEOCOR in CP (EFC involved in all aspects of CP and CEOCOR involved in CP of water and gas pipelines). Therefore, as decided in the previous meeting following the refusal of CEOCOR sector A to join the working group, M. Roche sent a fax to L. Di Biase, asking him to reconsider his answer (see appendix 4). In particular M. Roche commented the reasons given by CEOCOR (subject proposed by EFC already deeply treated, existing documents published by CEOCOR on this subject). EFC WP 16 considers that the existing standards might not cover the subject in its entirety, do not permit to interpret all the measurements and do not give precise recommendations. It is also pointed out that the CEOCOR booklets are not available outside CEOCOR and as such are not really publications. In addition, some of them might need to be updated, since the first CEOCOR booklet was published in 1994 and since, for example, the CEOCOR booklets do not mention the risk of Stress Corrosion Cracking linked to overprotection. He insisted on the fact that EFC would be happy to collaborate with CEOCOR and that this collaboration would be fruitful. Up to date, no positive answer from CEOCOR was received.

However, M. Roche insisted on the importance of maintaining the working group in order to share experiences.

During the last meeting, it had also been decided to nominate a responsible for the redaction of a draft for the "State of the Art" report. M. Roche insisted on the benefit of having a responsible which would be both a CEOCOR and EFC member. The decision to have a meeting before the one scheduled in 2003 in the frame of the Eurocorr will depend on the designation of this responsible.

Presently, a group of members have already given their approval for participating to the working group : MM Adam, Collet, Lazzari, Pourbaix, Roche, Soldevilla, Wyatt. Other volunteers should let them know to M. Roche. **Again, any progress is depending on the possibility to nominate this responsible and candidates are warmly welcomed!**

In order to progress in the assessment of CP of buried structures, it was proposed to perform measurements in the field, involving different companies in order to share different methods, techniques, experiences and analysis. Considering the potential risk induced by the kilometers of ageing buried pipelines, a **common European study aimed at better assessing the CP could be partially financed by the EEC.**

Nota: Further to the meeting, information on **the "ERA-NET" scheme** has been given in the STAC meeting on Friday 27th morning and M.Roche informed the STAC that a proposal could be presented before the target date (March 2003) on the theme "Assessment of CP efficiency of buried structures". This would constitute an "Expression of interest" for the creation of a "Network of Excellence" for fundings to be attributed in the 6th Framework Programme. A Working Document from DG Research of European Commission is given in appendix 5.

A question on the interest of the members of our EFC WP16 for this action is raised in the questionnaire. If a large approval is given with engagements for contribution, **we could have our next meeting in February 2003 in order to finalise our candidature.**

Other technical topics and free discussions

M. Roche reminded the topics discussed during the last meeting and proposed two additional subjects to be dealt with during the next meeting :

- Pipeline casings

During the last meeting, J Soldevilla had pointed out that different methods were used for the protection of pipeline casings used at road or railways crossings and agreed to prepare a first document. M. Roche suggested to realise a survey on the existing standards, the different types of protection and the company policies. Volunteers are welcomed (see Questionnaire).

- Well casings

Same suggestion made by M.Roche, companies' policies varying between systematic CP of wells or not.

- CP and earthing systems

M. Roche reminded that a work was in progress in CEFRACOR concerning the compatibility of CP and earthing systems and the possible improvements. In particular the earthing systems could be reduced in a first place (for example in France, in a GESIP -Oil & Gas Industry Safety Association- recommendation earthing systems for lightning protection are not mandatory for the tanks, provided that their diameter is sufficient, but nevertheless they are often installed in practice) and capacities, polarization cells or other similar devices could be installed between the cathodically protected structures and the earthing systems. When the work is enough advanced it will be presented and discussed in the frame of EFC WP16.

- CP modeling

M. Roche reminded the interest of undertaking a synthesis work on CP modeling, focusing on :

- * the software (calculations used, etc...)
- * the input data used in the model,
- * the utilization.

He also reminded that the general theme of Eurocorr 2004 would be "Long term predictions and modeling".

Papers (including a keynote lecture) should be proposed especially on this theme.

- Detailed analysis of CP efficiency on buried structures

M. Roche explained that a brainstorming group had been recently launched by CEFRACOR for :

- * evaluating all kind of parameters that could explain some "curious measurements" made recently,
- * establishing if necessary an investigation programme to be performed on site,

The participants agreed that an involvement of EFC WP16 should be considered.

- Policy regarding repairs of coating defects on pipelines after burial

M. Roche explained that the actual trend in France was to repair all the coating defects detected after laying of new pipelines. L. Lazzari confirmed that the same policy had been adopted in Italy. M. Roche commented that it was a negation of the role of CP and reminded that the initial goal of the coating defect detections was to evaluate the work of the companies responsible for the installation of the pipelines.

He also commented that CEFRACOR was working on a document note concerning this topic.

It was noted that EFC WP 16 could be involved in this subject (reminder of the CP objective in association with coating, definition of what is acceptable in terms of defects and what has to be repaired,...).

Participation to the next events

Next EFC WP16 meetings

It was decided that if an EFC WP 16 meeting was to be held in Spring, it would be after the nomination of a responsible person for writing a first draft of the "State of the art report" or if the answers to the present questionnaire are such that an Expression of Interest for a candidature to European fundings in the frame of ERA-NET is decided. In this last case, the meeting would have to be held in February. Otherwise, the next meeting will be held in the frame of the EUROCORR 2003.

M. Roche shall inform the attendants of the eventual nomination of the candidate as a function of the answers to the questionnaire.

Other meetings

* **Eurocorr 2003**

The next Eurocorr meeting will be held in Budapest from the 28th of September to the 2nd of October.

The general theme of the meeting is “**Bridge between Academy and Industry**”.

M. Roche invited the participants to **submit their papers, especially on this theme (including proposals for the key note lecture)**. The deadline for submitting the papers is the 20th of January 2003.

A common session involving EFC WP9 (Marine), EFC WP 13 (Oil & Gas) and EFC WP 16 (cathodic protection) should be organized on the theme of **CP of CRA (Corrosion Resisting Alloys) in sea water**. Another common session will be organised by EFC WP11 (Concrete) and EFC WP16 on CP in concrete.

* **Eurocorr 2004**

The following Eurocorr meeting will be held in Nice from the 12th to the 17th of September 2004.

The general theme of the meeting is “**Long term predictions and modeling of corrosion**”. M. Roche invited the participants to **submit their papers** (see here above for the papers related to the general theme).

E. COLLET
Secretary

M. ROCHE
EFC WP 16 Chairman

5 appendices.

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

Questionnaire

| QUESTION | YES | NO |
|--|--------------------------|--------------------------|
| Do you still want to receive the minutes of the EFC WP 16 meetings? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree that a EFC Publication on a “State of the art report on assessment of CP efficiency of buried pipelines” is necessary? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree to participate to the preparation of the state of the art report? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree to be responsible for the writing of the state of the art report? | <input type="checkbox"/> | <input type="checkbox"/> |
| What is your opinion concerning an eventual request for European fundings in the frame of ERA-NET (Expression of interest in Networks of Excellence) on the theme “Assessment of CP efficiency of buried structures”? | <input type="checkbox"/> | <input type="checkbox"/> |
| Would you agree to take an active contribution in the deposition of such a candidature (before March 2003)? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree to realize a survey on the existing standards, the different types of protection and the company policies concerning the protection at pipeline casings used for road or railways crossings? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree to realize a survey on the existing standards, the different types of protection and the company policies concerning the external cathodic protection of well casings? | <input type="checkbox"/> | <input type="checkbox"/> |
| Are you candidate for the keynote lecture on the general theme of Eurocorr 2003*? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree to write an article that would be in accordance with the general theme of Eurocorr 2003*? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree to write an article that would be in accordance with the specific theme CP of CRAs in seawater for Eurocorr 2003*? | <input type="checkbox"/> | <input type="checkbox"/> |
| Are you candidate for the keynote lecture on the general theme of Eurocorr 2004*? | <input type="checkbox"/> | <input type="checkbox"/> |
| Do you agree to write an article that would be in accordance with the general theme of Eurocorr 2004*? | <input type="checkbox"/> | <input type="checkbox"/> |

*If yes, please indicate here under possible author(s), title and short abstract:

* Author(s):

* Title:

* Abstract:

The questionnaire shall be returned to:

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