

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

## **Minutes of the 9<sup>th</sup> Meeting September 30<sup>th</sup> 2003, Budapest, Hungary**

### **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. X. Campaignolle (Gaz de France) accepted to be the secretary for this meeting. 10 attendants participated to the meeting.

### **Approval of the minutes of the 8th meeting held in Grenada, Spain, on septembre 26<sup>th</sup> 2002.**

The minutes were approved without modification.

### **Activities and targets of EFC WP16 : Questionnaire Return analysis**

53 questionnaires were sent. 6 answers were received. The results received are summarized in appendix 3. The analysis reveals a lack of will to get involved in any specific task, although there is a general interest in their possible outcomes. In other words: I would like the job to be completed, but I have no time to do it.

Concerning specifically the state-of-the-art report for assessment of CP of buried pipelines, another limitation is the CEOCOR which has actions on similar subjects as companies have difficulties to get involved both in CEOCOR and EFC. Moreover, some consider that most of it is already described in the standards.

Concerning the suggestion of applying for EU funds in the frame of the ERA-NET (expression of interest in Networks of Excellence) on the theme “assessment of CP efficiency of buried structures”, only one person has a positive answer to this regard. This action will therefore be stopped.

No proposal for keynote/plenary lectures during the next Eurocorr's.

## **Preparation of the work on EFC Publication on the "State of the Art" report for assessment of CP of buried pipelines.**

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 6<sup>th</sup> meeting, a first extended outline had been prepared, as a basis for the work of the working group (see appendix 4).

CEOCOR issued in 1994 a document, but no updating is presently considered. They think that such a task is useless as there is already enough published on the subject among their documents and the standards. However, most of the time recommendations are not enough for implementation, so that EFC still thinks that a more comprehensive and documented report is necessary. The goal should rather be to give guidelines to make the right decision than describe the methods which have been described elsewhere. This state of the art report should actually focus on the pros and cons (benefits and limitations) of each of techniques.

However, there is a major limitation: at this time, although volunteers are welcome to lead the work and write chapters of the document, no one has yet identified himself... In other words; everybody seems convinced of the usefulness of the report by nobody is willing to write any part of it. Moreover, there is an obvious lack of large oil & gas transmission companies in the working group which may limit the extend of the report.

Consequently, the working group tried to narrow the scope of the paper and focus on smaller items. This is not an easy task as all items are more or less interconnected. Some subjects may not need to be addressed as there may be already enough information available. For instance, there is already a CEOCOR document addressing specifically AC corrosion ("*Ceocor AC corrosion guidelines*"). There is a GERG document addressing specifically coating defects detection ("*Fault location on pipeline coatings*"). Most of it was presented at the World Gas Conference in 1991. The first item does not need to be addressed in the EFC WP16 state-of-the-art document. The second one could simply be refreshed.

As a result, it will not be possible to write in the short term an exhaustive state-of-the-art report as initially expected. Hence, it is necessary to pinpoint among the table of content already proposed the critical issues to be addressed. M. Roche offered to organize a brainstorming during a next meeting of the CEFACOR CP and Associated Coatings Technical Committee in France. A short list of points of focus will be issued. This list will be completed with a list of existing relevant standards and other documents. This will be a baseline for a survey/list of questions to be later send to CEOCOR, CEFACOR and EFC16 members to better dig out the most relevant points to be addressed. Once the critical points will have been identified (criteria for CP, true potential, CIPS in presence of stray currents, anodic/cathodic character of DCVG defects,...), they will be discussed during the next meeting and put into writing. In a second step, possible round Robin tests might be considered.

**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 2003 CEOCOR Conference. The presentation focused first on the current European situation regarding personnel certification; second, on the European standardization to be implemented. Information on the number of certificates given by the various Certification Organisms in the world by end of April 2003 was presented. Appendix 5 gives the presentation presented.

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

### **Metricor's Presentation (Lars Nielsen)**

Metricor is a spin-off of the Danish technical university. Among others, this company has developed, in collaboration with DONG (Danish gas company), a sensor specific for AC induced corrosion on lines under cathodic protection. It is based on the ER probe principle. A more detailed paper was distributed among the participants and is given in appendix 6.

### **Eurocorr'2003**

The session to be held in Budapest was presented. Paper of X.Campaignole is missing in the CD ROM. It is given in appendix 7.

### **Eurocorr'2004**

The following Eurocorr meeting will be held in **Nice from the 12<sup>th</sup> to the 17<sup>th</sup> of September 2004**. The programme with all information concerning the call for papers is available on Web site. The general theme of the meeting is "**Long term predictions and modeling of corrosion**". M. Roche invited the participants to **submit their papers**.

- ✓ The general theme is "Prediction and modelling...".
- ✓ There may be a joined session with WP9 (marine corrosion), possibly on the long term behaviour of sacrificial anodes and cathodic protection of stainless steel
- ✓ Papers from the USA concerning CP criteria (e.g. 100 mV shift) are welcomed.
- ✓ The work in progress in the EFC WP 16 should be presented
- ✓ Subject can cover both cathodic protection and associated coatings
- ✓ Anybody willing to give a keynote/plenary lecture on cathodic protection and coating defects is kindly invited to propose a theme.

## **Next EFC WP16 meeting**

**The 10<sup>th</sup> EFC WP16 meeting will be held in the frame of Eurocorr'2004 in Nice.**

X. CAMPAIGNOLLE  
Secretary

M. ROCHE  
EFC WP 16 Chairman

7 appendices.