

# ***EFC WP16***

***15th meeting, Nice, Sept. 8, 2009***

## **CERTIFICATION IN THE FIELD OF CATHODIC PROTECTION UPDATING**

**Marcel ROCHE**  
**Chairman of EFC WP16**

# THE BEGINNING...

- **Certification was the first topic addressed by EFC WP16 on Cathodic Protection when launched in 1998**
- **EFC WP16 Report on "Qualification and Certification in the field of Cathodic Protection: Present situation and possible European scheme" issued in May 2001**
- **Launching of CEN TC219 WG5 at the end of 2000 to prepare a standard on "Qualification and Certification of Operators in the field of Cathodic Protection" (now disbanded)**

# THE EUROPEAN STANDARDISATION

- Document prepared from Nov. 2001, **voted Dec. 2006** and published in English, French and German: **EN 15257**
- Title of document: **"Competence levels and certification of cathodic protection personnel"**
- **"Framework"** allowing independent national **Certification Bodies** to operate
- Formal equivalence at European level with **"MultiLateral Agreement" (MLA)** process through audits carried out by notified national **Accreditation Bodies** will be possible in future

# THE EUROPEAN STANDARDISATION

- Possibility of **Delegated Bodies**.
- Agreement of **Examination Centres** and **Training Centres** by certification bodies.
- **3 possible levels of competence** (with precisely detailed definition of the tasks)
- **4 possible Application Sectors** (Land applications, Marine, Concrete and Internal of apparatuses)
- **Training mandatory** but defined by **Certification Bodies**
- **Validity period of Certification: 5 years**

# The EN 15257

- **Formal examination for levels 1 and 2: theoretical ("Common Trunk" and "Specific" to application sector) and practical.**
- **Competence assessment for level 3 based either on Committee assessment or formal examination.**
- **Specific requirements apply to the transition period for new Certification Bodies. Transition period limited to 5 years after the establishment of the scheme.**
- **Minimum experience necessary for full certification**
- **"Provisional certification" if experience is missing**

# The EN 15257: minimum experience for full certification

Target level	Candidates educational qualification in relevant scientific or engineering disciplines	Min. total number of years of experience in cathodic protection
1	All cases	1
2	Specialised education in corrosion field	2
	Technical education	3
	All other cases	4
3	Specialised education in corrosion field	5 if assessment or 3 if examination
	Technical Education	8 if assessment or 5 if examination
	All other cases	12 if assessment or 8 if examination

# FOLLOW-UP OF CERTIFICATION

- **EFC WP16 decided to follow-up progress in the various countries**
- **A delegate per country has been nominated for getting information**
- **Status of modifications or new actions in CP certification in European countries**
- **A table is updated giving number of certificates per competence level and application sector in all countries**

# NEWS FROM UK

(Brian Wyatt)

- For the **I Corr**, Pre EN 15257 Certification (which includes coating inspection) we have issued some 2400 Certificates (some Candidates have more than 1).
- In CP we have issued **134 Level 1 CP of Buried Pipeline Certificates**, **15 Level 1 CP of Steel in Concrete certificates** and **23 level 2 CP of Buried Pipeline Certificates**.
- These certificates relate to satisfactory completion of the training course and examination; these all covered theoretical core, the sector application (pre 2008 we **ONLY** ran the system in the buried pipeline sector) and practical tuition and examination. These certificates do **NOT relate to any assessment of experience**.

# NEWS FROM UK

(Brian Wyatt)

- **Of these All the CP of Steel in Concrete are to a course and examination that comply with EN 15257 and there has just been a batch of some 15 applicants through a course and examinations not yet assessed for the new EN 15257 compliant CP of Buried Pipelines course.**
- **We are JUST implementing the assessment of experience criteria from EN 15257 and will be applying these criteria to existing (examination) certificate holders (buried Pipeline and Concrete) as a transitional arrangement. To date have actually issued **No Certificates of Competence (covering both examination and experience) to EN 15257 in Level 1 & 2 CP.** This is all in transition now and should be in place during 2009.**

# NEWS FROM UK

(Brian Wyatt)

- **We have 3 Level 3 CP specialists Certificated to the EN 15257 procedures with approximately 12 more being assessed. We estimate that we have some 50-100 Professional Members of I Corr (with all that that means in respect of assessment of their education and experience) who practice in one or more of the Sectors of CP. Many will be candidates for Level 3; some are unlikely to meet the full criteria for competence.**
- **As you know we have a committee chaired by Dr Robin Jacob working on the level 1 and 2 Offshore CP training and certification and we are hoping that a way can be developed that I Corr can develop the scheme to utilise your facilities in Brest.**

# NEWS FROM ITALY

(Luciano Lazzari)

## Updated number for Italy are:

- **III level**
  - **Soil 44**
  - **Sea 8**
  - **Concrete 2**
  - **Internal 3**
- **II level**
  - **Soil 89**
- **I Level**
  - **Soil 69**

# **NEWS FROM NETHERLANDS**

**( Henk van Bruchem, Peter de Kler)**

## **Updated number of certificates:**

- **CP-level 1: 98**
- **CP-level 2: 57**
- **CP-level 3: 4**
  
- **H. Van Bruchem (now Netbeheer Nederland)**  
**chairman of board of experts for certification of CP**  
**personnel**
- **EN 15257 not fully implemented (no requirements for**  
**experience)**

# NEWS FROM FRANCE

- **CEFRACOR/CFPC** 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).
- **3 levels of competence**
- **4 application sectors:** Buried structures, marine structures, concrete structures, and inside of vessels.
- **All the 4 application sectors have certificated personnel at level 3** (assessment by documentation, written study and its oral presentation to a Jury).

# NEWS FROM FRANCE

- For **levels 1 and 2**, examinations with theoretical sessions (Common Trunk and specific to Application Sector) and practical session.
- Training and Certification well established for Land applications.
- Procedures of CFPC in **full compliance with EN 15257 from Jan. 2009**
- Work on **Training and Certification Centres for Concrete Application sector**

# NEWS FROM FRANCE

- **Buried structures application sector working with an Examination Centre at Compiègne premises of GRTgaz (GDFSuez).**



# NEWS FROM FRANCE

- **Seawater application sector** started for level 1 in April 2008. Level 2 followed in Feb. 2009.
- **Examination Centre** implemented in **Brest** at **IFREMER** with the financial support of local authorities.
- Facilities used for a **Training Centre** operated by **Institut de la Corrosion**.
- For practical training and examination, facilities comprise:
  - a **laboratory**,
  - **flowing seawater tanks** allowing measurements on small samples
  - a **size one instrumented steel structure** immersed in a large tank
  - a part of **harbour equipped with ICCP** for actual field measurements

# NEWS FROM FRANCE



# Certification for Seawater: Training



# Certification for Seawater: Examination



# CUMULATED NUMBER OF CERTIFICATES IN EUROPE

Competence level	Application sector	France Sept. 2009	Germany 2003	Italy Sept. 2009	Netherlands Sept. 2009	UK Sept. 2009	Total
1	Land	204		69	98	134	505
	Seawater	14					14
	Concrete					15	15
	Internals						0
	total	218	0	69	98	149	534
2	Land	80		89	57	23	249
	Seawater	8					8
	Concrete						0
	Internals						0
	total	88	0	89	57	23	257
3	Land	8	43	44	4	3	102
	Seawater	4		8		1?	13
	Concrete	2		2		1?	5
	Internals	1		3		1?	5
	total	15	43	57	4	6?	125
<b>Total</b>		321	43	215	159	178	916

In blue: certificates delivered in full compliance with EN 15257

In italics: estimation

# Concluding remarks

- **Certification of CP personnel now recognised as a must to guaranty quality of design, implementation, monitoring and expertise in addition to standards.**
- **A lot of progress has been accomplished, especially in Europe, during these last years.**
- **CP Certification very active in France where Training and Examination Centres for marine structures application sector at Brest will also operate in English.**
- **The development of certification process depends on the requirements of end users, which challenges CP service companies.**

# Concluding remarks

- **It would be profitable for all to establish co-operations between several countries for optimising training courses, testing facilities and examination processes**

**Thank you for your attention!**

