MINUTES OF THE WP4 FALL MEETINGS
HELD IN THE CONGRESS CENTER OF WORLD TRADE CENTER, MOSCOW, RUSSIA
WEDNESDAY, SEPTEMBER 15TH, 2010

AND IN THE PALAIS DES PAPES, AVIGNON, FRANCE (during "Fontevraud 7")
WEDNESDAY, SEPTEMBER 29TH, 2010

Written by:
Damien Féron and Catherine Guerre

Diffusion:
Present and apologized participants
Juliet Ippolito (EFC Scientific Secretary and Public Relation Officer)
Ines Honndorf (EFC Website)
Attendance to the Moscow meeting:

Mathias Breimesser  PSI, Switzerland
Bob Cottis    Manchester University, United Kingdom
Nicolas Dulcy  Vallourec, France
Damien Feron    CEA, France
James Grosvenor  Rolls-Royce, United Kingdom
Hans Hoffmeister  Helmut Schmidt University, Germany
Vivekanand Kain  BARC, India
Alison Weightman  Rolls-Royce, United Kingdom
Krzysztof Wolski  ENSM-SE, France

Attendance to the Avignon meeting:

Thierry Couvant    EDF, France
Willem Geerinck  LABORELEC, Belgium
Catherine Guerre    CEA, France
Emmanuel Herms  CEA, France
Stefan Ritter    PSI, Switzerland
Johan Stiamsater  Studsvik, Sweden

Apologies for absence received from:

Rik-Wouter Bosch  SCK-CEN, Belgium
Ulla Ehrnsten  VTT, Finland
Miroslna Ernestova  NRI Rez, Czech Republic
Dolores Gomez Briceño  CIEMAT, Spain
Bruno Kursten  SCK-CEN, Belgium
Marc Le Calvar  IRSN (France)
Christina Lilja  SKB, Sweden
Valérie L’Hostis  CEA, France
Stuart Lyon  Manchester University, United Kingdom
Anders Molander  Studsvik, Sweden
Cristiano Padovani  Nuclear Decommissioning Authority, United Kingdom
Hans-Peter Seifert  PSI, Switzerland
David R. Tice  SERCO, United Kingdom
Marc Vankeerberghen  SCK-CEN, Belgium
Summary:

1. Opening and approval of the agenda  
2. Approval of the minutes of the Nice meeting  
3. Presentation of the new 3-year plan  
4. EFC WP4 publications  
5. EFC WP4 future events  
6. EFC WP4 Website  
7. EUROCORRs  
8. Missing items, conclusion and closure

Enclosures:

* Document available only on the private space of the EFC WP4 website, for WP4 Members

✓ Annex I: Agenda of the Moscow meeting
✓ Annex II: Agenda of the Avignon meeting
✓ Annex III: Slides presented at the Moscow meeting*
✓ Annex IV: Slides presented at the Avignon meeting*
1. **OPENING AND APPROVAL OF THE AGENDA**

D. Féron in Moscow and Th. Couvant in Avignon opened the meeting and thanked the audience for coming. Agenda was presented and approved, as no comments were made.

2. **APPROVAL OF THE MINUTES OF THE NICE MEETING**

During the Moscow meeting, D. Féron made a review of the previous WP4 Fall meeting in Nice during EUROCORR’2009. These minutes are approved.

3. **PRESENTATION OF THE NEW 3-YEAR PLAN**

Objectives of the next 3-year plan (2011-13) are presented and are the following:

- providing links between European teams and EU funded programs in nuclear corrosion field, with an opening on to the world;
- initiating and stimulating opportunities of exchanges on scientific & technical subjects related to nuclear corrosion, particularly on today main nuclear research areas: waste systems, water reactors, generation IV and fusion reactors;
- promoting corrosion science and technical developments by events such as seminars, workshops, publications, etc.

The following actions are described to reach the objectives:

- Two WP meetings each year
  - Spring meeting (more focus on one or few items)
  - Annual general meeting during EUROCORRs
- Specific seminars/workshops
  - During EUROCORRs
  - In connection with EU programs
  - On specific subjects
- Re-activation of the task forces (groups)
- Webpage: active and attractive
- Publications: In EFC series (one book per year) and Journals
- Development of links between EFC WP4 and nuclear organisations (Euratom, OECD/NEA, UN/AIEA)
- Summer School "nuclear corrosion"

Some actions have been underlined as efforts have to be made to progress; they included: relations with Euratom and EU funded programs, re-activation of task groups and the Summer School.

Discussion is raised during the Avignon meeting on the Summer School. It is proposed to link it with the PERFORM program. As this idea has been several times evocated, it becomes urgent to meet the Organising Committee.

During the Moscow meeting, the 3-year plan has been formally approved.
4. EFC WP4 PUBLICATIONS

Two books have been published since the last WP4 Fall meeting:

- EFC #56: "Corrosion monitoring in nuclear systems: research and applications"
  Editors: Stefan Ritter & Anders Molander
  255 pages - Published June 2010

- "Long Term Performance of Cementitious Barriers and Reinforced Concrete in Nuclear Power Plants and Waste Management" - EFC event 317
  343 pages - October 2009

Several books are under preparation:

- EFC #59: "Sulphur Assisted Corrosion in nuclear disposal systems"
  Editors: Bruno Kursten & Rik-Wouter Bosch
  Planned at the beginning of 2011

- Green book "Corrosion issues in future high temperature nuclear systems"
  EUROCORR'2009 Workshop - WP4 & WP3

- Green book "50 years of stress corrosion cracking of nickel based alloys"
  From the presentations made at the "Jubilee day" on January 26th, 2010

- A special issue in the International Journal Corrosion Engineering Science and Technology
  (former British corrosion Journal): "Proceedings of the 4th International Workshop on Long Term Prediction"
  Special issue planned in 2011

- Materials & Corrosion/Journal de physique 4
  Under discussions for the proceedings of the "Ageing Management of Nuclear Structures and Installations" held in November 2010
  Special issue planned in 2011

- International Workshop on "Coupling mechanisms to improve lifetime prediction of LWRs"
  EDF-MAI publication

5. EFC WP4 FUTURE EVENTS

The year 2010 is particularly rich in WP4 events as 3 have been already held:

- Jubilee day: Stress Corrosion Cracking of nickel base alloys at CEA - Coriou effect/50 ans de corrosion sous contrainte au CEA - Effet Coriou
  January 26, 2010 at CEA/Saclay - 130 participants

- International workshop on "Coupling mechanisms to improve lifetime prediction of LWRs"
  EFC event 331
  8-9 April 2010, Les Renardières (France), EDF (Material Ageing Institute) - 50 participants

- 4th International Workshop on "Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems"
  EFC event 329
  28 June – 2 July 2010, Bruges, Belgium, SCK-CEN - 65 participants
And another event is planned next autumn:

- International workshop "Ageing Management of Nuclear Structures and Installations"
  EFC event 334 (with AECL and RILEM)
  November 8-13, 2010, Toronto, Canada

Two events are planned during 2011:

- 7th annual meeting of the ECG-COMON
  June 20-21, 2011, Finland

- 2nd Int. Workshop on "Corrosion Monitoring in Nuclear Systems (Research and Applications)"
  Special WS during EUROCORR 2011
  September 5-8, 2011, Stockholm, Sweden
  Organised by Stefan Ritter and Anders Molander in collaboration with the ECG-COMON
  (deadline for abstracts: 31 January 2011)

Dr. Eng. Asano Hidekazu, Radioactive Waste Management Funding and Research Center Pacific Marks, Tsukishima, Japan proposes by E-mail to organise the 5th International Workshop on "Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems (LongTermCor2013)". After a short discussion, the principle of this workshop in Japan is accepted during the Moscow meeting.

6. EFC WP4 WEBSITE

The WP 4 website is described and shown. It is updated frequently thanks to Stefan Ritter. The audience is encouraged to pass by from time to time and/or feel free to send events or any other useful information to stefan.ritter@psi.ch.


A restricted area (for members only) has been added to the WP 4 website. The password will be provided only to members.

Damien Féron and Thierry Couvant expressed their thanks to Stefan Ritter for taking care of the WP4 website.

7. EUROCORRs

Next EUROCORRs are listed. The subject of the special workshop has to be decided for EUROCORR’2012

- EUROCORR’2011, 5-8 September, Stockholm, Sweden
  Workshop "Corrosion monitoring in nuclear systems" (S. Ritter – ECG-COMON)

- EUROCORR’2012, 9-13 September, Istanbul, Turkey

- EUROCORR’2013, 1-4 September, Lisbon, Portugal

8. MISSING ITEMS, CONCLUSION AND CLOSURE

A short discussion has been raised during the Avignon meeting on the attractively of the WP4 Spring meeting and how to increase the attendance of these meetings. A proposal is made for holding the Spring meeting in connection with the ECC-COMON meeting (June 2011).

The next Fall meeting of the EFC WP4 will be in Stockholm during EUROCORR’2011.

The meetings are closed as no other points were raised.
Enclosure 1:

✓ Annex I: Agenda of the Moscow meeting
Fall meeting of the Nuclear Corrosion Working Party (EFC WP4)

Wednesday, 15 September 2010 (16h15-19h30)

Congress Center of World Trade Center Moscow (WTC), Room 4
Krasnopresnnskaya nab., 12
123610 MOSCOW, RUSSIA

(Information are given on the Eurocorr website http://www.eurocorr.org/EUROCORR+2010.html)

The proposed agenda is the following:

1. Opening and Approval of the agenda
2. Approval of the minutes of the Nice 2009 fall meeting
3. EFC WP4 internal matters
   - Short presentation of the EFC WP4
   - Proposal of a new 3 years plan (2011-2013)
4. EFC WP4 Publications
   - Books & special issues already published
   - Future publications in EFC Series
   - “Nuclear corrosion” books in other series
   - Publications in Journals and Special issues
5. EFC WP4 past events (2010)
6. EFC WP4 future events
7. EFC WP4 website
8. EUROCORR’s
9. Missing items
10. Closure
Enclosure 2:

- Annex II: Agenda of the Avignon meeting
Second fall meeting of the
Nuclear Corrosion Working Party (EFC WP4)

Wednesday, 29 September 2010 (17h30-19h30)
“salle du Cubiculaire”, the Popes Palace, Avignon, France

The proposed agenda is the following:

1. Opening and Approval of the agenda
2. EFC WP4 internal matters
   - Short presentation of the EFC WP4
   - Proposal of a new 3 years plan (2011-2013)
3. EFC WP4 Publications
   - Books & special issues already published
   - Future publications
4. EFC WP4 events
5. EFC WP4 website
6. EUROCORR’s
7. Missing items
8. Closure
Enclosure 3:
Document available only on the private space of the EFC WP4 website, for WP4 Members
✓ Annex III: Slides presented at the Moscow meeting
Enclosure 4:
Document available only on the private space of the EFC WP4 website, for WP4 Members

✓ Annex IV: Slides presented at the Avignon meeting