2016 年 11 月 18 日
文責：渡邉、山本

Fukushima Research Conference
on
“Corrosion Prediction and Mitigation for Key Components of Fukushima Daiichi NPP”
(rough sketch)

Scope:

There are number of important components such as primary containment vessel, piping system for fuel cooling, pedestal of reactor pressure vessel, supporting structure of suppression chamber, and fuel cladding, to maintain boundary of radioactive materials or to support key structures of NPP. One of the most critical concern about ageing degradation of those important components of Fukushima Daiichi NPP is “corrosion” of metals and alloys. The conference focuses on prediction and mitigation of corrosion in those key components to maintain integrity of the components for a prolonged period of time needed for decommissioning of Fukushima Daiichi NPP.

The key topics will be;

- ✧ Long-term prediction of uniform corrosion of carbon steels,
- ✧ Critical condition for re-passivation of crevice corrosion and stress corrosion cracking of stainless steels and other corrosion resistant alloys,
- ✧ Effect of radiolysis on corrosion,
- ➢ Corrosion issues and measures on apparatuses for contaminated water,
- ➢ Corrosion management of piping systems,
- ➢ Corrosion management of PCV,
- ➢ Corrosion deterioration of reinforcing steel bars in damaged RC structures,

and others.

Chairperson:

Dr. Damien Feron, CEA Director of Research, INSTN Professor, President of European Federation of Corrosion (2017-18)

Vice-chairs:

Prof. Yutaka Watanabe, Tohoku University

Prof. Masahiro Yamamoto, JAEA & Tohoku University

Invited and Contributing Speakers from:

TEPCO, IRID, NDF, JAEA, CEA, AREVA and

Industries, such as heavy industry, water treatment, chemical industry, fuel reprocessing, waste disposal, and etc.

Intensive discussion by corrosion experts of nuclear and non-nuclear is expected. Optimum size of the conference may be as small as around 50 participants, plus students will be involved.

Secretariat: CLADS, JAEA

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