

**NUCLEAR ENERGY AGENCY
NUCLEAR SCIENCE COMMITTEE**

Working Party on Scientific Issues of the Fuel Cycle

Second Meeting on Increased Accident Tolerance of Fuels for LWRs

PROPOSED AGENDA

**28-29 October 2013
NEA Headquarters
Issy-les-Moulineaux, France**

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**OECD Nuclear Energy Agency
Nuclear Science Committee**

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12 boulevard des Iles, 92130 Issy-les-Moulineaux, France

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Please be advised that security arrangements at the OECD Nuclear Energy Agency have changed, and that you are kindly requested to report upon arrival to the Reception Desk on the ground floor with a photo ID. A badge will be issued that will allow you to enter the premises at all times during the meeting.

Local information about hotels and transport, as well as an area map, can be found on the Web page <http://www.oecd-nea.org/general/practical/>.

28 October 2013

9:00-9:15	NEA Welcome	(Th. Dujardin, NEA)
9:15-9:30	Introduction of the attendees	
9:30-9:45	Introduction and background	(J. Gulliford, NEA)
9:45-10:00	Objectives of the meeting	(K. Pasamehmetoglu, INL)

10:00-12:30 **Session 1: Technical updates since the December-2012 Workshop at the OECD-NEA**

Chair: K. Pasamehmetoglu (INL, USA)

10:00-10:10	Overview of the exchanges after the December-2012 Workshop through the discussion forum established at the OECD-NEA	(S. Massara, NEA)
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10:10-12:30 **Technical updates since the December-2012 Workshop:**

- **Current status of ATF related activities in Japan** (20', T. Hinoki, Kyoto Univ.)
- **Metrics Development for Enhanced Accident Tolerant LWR Fuels** (20', S. Bragg-Sitton, INL)
- **Candidate ATF Clad Technologies and Key Feasibility Issues** (20', L. Snead, ORNL)

11:10-11:30 *Coffee break*

- **CEA studies on nuclear fuel claddings for LWRs enhanced accident tolerant fuel. Some recent results, pending issues and prospects** (20', J.-C. Brachet, CEA)
- **Current status on the accident tolerant fuel development in the Republic of Korea** (25', J.-Y. Park, J.-H. Chang, KAERI)
- **The current status of fuel R&D in the People's Republic of China** (20', T. Liu, CGNPC)

12:35-14:00 *Lunch break*

Session 2: Key elements for a work programme on ATF

Chair: K. Pasamehmetoglu (INL, USA)

14:00-18:15 **Main elements of a work programme for the development of ATF:**

- **Beneficial characteristics of ATF (metrics)** (25', L. Hallstadius, Westinghouse)
- **Reactor types of interest (applicability)** (25', L. Ott, ORNL)
- **Impact on normal operations** (25', N. Waackel, EDF)
- **Discussion on economic trade-offs (enrichment, storage/disposal)** (25', All)

15:40-16:00 *Coffee break*

- **Accident scenarios of interest** (25', L. Ott, ORNL)
- **Modelling tools** (25', J.-M. Bonnet, IRSN)
- **Facilities and potential intermediate-term ATF development** (25', L. Snead, ORNL)
- **Experimental needs for assessment & validation** (25', C. Vitanza, OECD-Halden)
- **Development plan of Accident Tolerant Control Rod in Japan** (20', H. Ohta, CRIEPI)
- **Discussion** (15', All)

18:15 *Adjourn*

29 October 2013

Session 3: Organisations' expectations and provisional contribution to a collaborative activity on ATF

Chair: K. Pasamehmetoglu (INL, USA)

9:00-12:30

Organisations' expectations:

This session will host a presentation for each of the organisations willing to contribute to this activity in the OECD-NEA framework. Each presentation should address the following items:

- *Organisation's interest in contributing to this activity*
- *The organisation's general expectations from this activity*
- *Preferences for the technical work programme*
- *Technical fields for future contributions*
- *Preferences for the format of this activity within the OECD-NEA*

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| • CEA | (10', Ph. Guédeney) |
| • AREVA-NP | (15', J. Strumpell) |
| • IRSN | (15', G. Hache) |
| • PSI | (15', M. Pouchon) |
| • Czech Republic | (15', J. Belac) |
| • Westinghouse | (15', L. Hallstadius) |
| • DOE | (15', A. Griffith) |
| • EPRI | (15', A. Sowder) |

10:55-11:15 *Coffee break*

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| • Kyoto University-CRIEPI-JAEA | (20', T. Hinoki) |
| • KAERI | (15', J.-H. Yang) |
| • CGNPC | (15', T. Liu) |
| • KIT | (15', M. Steinbrück) |

12:20-12:30 **Links with IAEA activity** (10', G. Dyck)

12:30-14:00 *Lunch break*

Session 4: Collaborative framework

Chair: K. Pasamehmetoglu (INL, USA)

14:00-18:00

Session content:

This session will be devoted to make the synthesis of the expectations and preferences of each organisation, in order to define:

- A roadmap and a preliminary programme of work
- The role of the OECD-NEA
- The outline of a proposal to be submitted to the NEA Nuclear Science Committee, including the list of interested parties

The session will start with an appropriate time for discussion followed by a synthesis.

18:00

End of the meeting