

Fuel Safety Research Meeting 2019

Fuel Safety Research Meeting 2019 (FSRM2019) will be held on 28-29 October at Mito, Japan.

1. Objectives and scope

The objectives of the meeting are to present and discuss results of experiments and analyses of fuel safety research at Japan Atomic Energy Agency (JAEA) and to exchange views and experiences among the participants. The technical scope of the meeting covers nuclear fuel issues under a broad range of conditions from normal operations to the Beyond-DBA as well as RIA and LOCA.

2. Program

The program of the meeting is shown as the attached document.

3. Place

The meeting will be held at “HOTEL TERRACE the GARDEN MITO”.

4. Registration

Participants should send Participant Registration Form by Facsimile or e-mail to the meeting coordinator before September 27, 2019. Registration fee is free.

Meeting coordinator

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Fuel Safety Research Meeting 2019 Program (Draft)

Monday, October 28

9:30 - 10:00 Opening Session

9:30 - 9:40	Opening address	Y. Miura	JAEA
9:40 - 10:00	Fuel safety research at JAEA	M. Amaya	JAEA

Session 1: Fuel Safety Topics

10:00 - 10:30	Current status of fuel safety in US	TBD	
10:30 - 11:00	Current status of fuel safety in France	Stéphanie GRAFF	IRSN
11:00 - 11:30	Overview of R&D and fuel safety on LWR fuels in U.S industries	TBD	

11:30 - 13:00 Lunch (take a Conference photo before Lunch)

Session 2: Fuel Behavior under RIA Condition

13:00 - 13:40	Status and plan of RIA study at JAEA	T. Mihara	JAEA
13:40 - 14:20	PIE results of additive pellet	TBD	
14:20 - 14:50	Comparative analysis on base-irradiation behaviors of OS-1 test rod and other BWR-fuel rods subjected to previous	Y. Udagawa	JAEA

14:50 - 15:10 Coffee Break

15:10 - 15:40	RIA simulation with ALCYONE fuel performance code. Illustration on a selection of NSRR tests	Isabelle. Quenot-Delahaie	CEA
15:40 - 16:10	J integral evaluation of failure point of hydrided pre-cracked Zry-4 cladding under Biaxial stress state	Li. Feng	JAEA

16:10 - 16:25 Coffee Break

Session 3: MOX Behavior

16:25 - 16:50	MOX Behavior (1)	Y. Taniguchi	JAEA
16:50 - 17:15	MOX Behavior (2)	K. Kakiuchi	JAEA
17:15 - 17:40	MOX Behavior (3)	Y. Tasaki	JAEA

18:30 - 20:30 Reception

Tuesday, October 29

Session 4: Fuel Behavior under LOCA Condition

8:40 - 9:10	Status and plan of LOCA study at JAEA	T. Narukawa	JAEA
9:10 - 9:40	Heating test on micro pellet samples obtained from different radial position of high burnup UO ₂ fuel	A. Yamauchi	NRA
9:40 - 10:10	Pellet heating test results	TBD	
10:10 - 10:40	LOCA test results	TBD	

10:40 - 11:00 Coffee Break

11:00 - 11:30	Plans for SCIP IV and the legacy of SCIP III	Joakim Karlsson	Studsvik
11:30 - 12:00	The effect of the hydrogen concentration on the bending strength of cladding tube experienced simulated LOCA test	Y. Okada	JAEA

Session 5: Fuel Behavior under SA Condition

12:00 - 12:30	High temperature oxidation of Zry-4 fuel cladding under steam and mixed steam-air atmospheres	M. Negyesi	JAEA
12:30 - 13:00	SA behavior for fuel assembly	TBD	JAEA

Closing Session

13:00 - 13:10	Closing remarks	M. Amaya	JAEA
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