

## Oak Ridge National Laboratory 1 Bethel Valley Road Oak Ridge, TN 37831

**SUBJECT:** Report on Foreign Travel to the ICSBEP meeting in Paris, France (OECD/NEA)

**DATE:** April 25, 2023

**TO:** Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear

Security Administration / NA-511

FROM: Dr. Doug Bowen, NCSP Execution MGR, ORNL Section Head

**MEETING TITLE:** ICSBEP Technical Review Group

MEETING LOCATION: OECD/NEA, Paris, France

**MEETING DATES:** April 5-7, 2023

ATTENDEES ON BEHALF OF NCSP: [Only 1 report from the institution for ALL attendees]

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#### **MEETING PURPOSE:**

Review ICSBEP benchmark evaluation drafts as a committee and discuss review comments and possible resolutions. Doug Bowen also attended meetings with OECD/NEA staff, and IRSN staff throughout the week to discuss ongoing NCSP collaborations.

### **MEETING BENEFITS TO THE NCSP:**

The ICSBEP TRG meeting is the necessary review stage for all NCSP integral benchmarks being shared with the NCS community.

**PURPOSE OF TRAVEL** [Provide a detailed purpose of the travel]:

To participate in the TRG meetings as an official delegate and to have NCSP collaboration meetings.

**Persons Contacted on your trip** [If applicable, provide a list of everyone you met with during the trip.]:

OECD/NEA staff (Tatiana Ivanova, Andrew Holcomb, Ian Hill), LLNL and LANL staff, IRSN staff (Aurelie Bardelay, Mariya Brovchenko, Nicolas Leclaire) and other staff.

Presentations, Chair Responsibilities, Etc.:



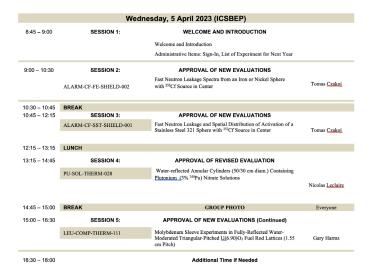
TRG Participant and NCSP representative.

[Please list all applicable to your trip. If possible, include the agenda and highlight presentations given by attendees, sessions chaired, etc.]

# **DRAFT AGENDA** 5-7 April 2023 46, <u>quai</u> Alphonse Le Gallo, 92100 Boulogne-Billancourt, Paris France Room BB2

Upon <u>arrival</u> please report 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/



## International Criticality Safety Benchmark Evaluation Project (ICSBEP) FINAL AGENDA 3-7 April 2023 46, quai Alphonse Le Gallo, 92100 Boulogne-Billancourt, Paris France

Room BB2

Upon <u>arrival</u> please report 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/

Thursday, 6 April 2023 (ICSBEP)					
8:45 - 9:00	SESSION 1:	WELCOME AND INTRODUCTION			
		Welcome and Introduction			
		Administrative Items: Sign-In, List of Experiment for Next Year			
9:00 - 10:30	SESSION 2:	APPROVAL OF NEW EVALUATIONS			
	LEU-COMP-THERM-109	Criticality Experiments in Hexagonal Lattices (1.275 cm Pitch) of VVER-1000 Low Enriched U(3.3 wt.% <sup>235</sup> U)O <sub>2</sub> Fuel	Tomas Czakoi		
		Assemblies in Light Water with Seven Void, Silicon Dioxide or Graphite Modules in Center	-		
10:30 – 10:45	BREAK				
10:45 – 12:15	SESSION 3:	APPROVAL OF NEW EVALUATIONS			
	ALARM-REAC-PE-001	Neutron Fluence Response to a Bare and to a Lucite-Reflected Pulse of the ORNL Health Physics Research Reactor	Mathieu Dupont		
12:15 – 13:15	LUNCH	,			
13:15 – 14:45	SESSION 4:	APPROVAL OF NEW EVALUATIONS (Continued)			
	HEU-MET-FAST-102	ZEUS: Fast Spectrum Critical Assemblies with a Pb-HEU Core	Kelsey Amundson		
		Surrounded by a Copper Reflector			
14:45 – 15:00	BREAK				
15:00 – 18:00	SESSION 3:	APPROVAL OF NEW EVALUATIONS (Continued)			
	HEU-MET-FAST-104:	MUSIC: Critical Experiments with Bare Highly-Enriched Uranium Shells	Alex McSpaden Rene Sanchez		



# Annual International Criticality Safety Benchmark Evaluation Project (ICSBEP) Technical Review Group Meeting OECD NEA: 5-7 April 2023

Friday, 7 April 2023 (ICSBEP)				
8:50 - 9:00		WELCOME BACK		
9:00 - 10:30	SESSION 4:	APPROVAL OF NEW EVALUATIONS (Continued)		
	PU-MET-THERM-005	Thermal Spectrum Critical Assemblies with a Polyvinyl Chloride and Chlorinated Polyvinyl Chloride-Plutonium-Aluminum Metal	Jeff Favorite	
		Alloy Core surrounded by a Polyethylene Reflector	Jen ravorne	
10:30 - 10:45	BREAK		Everyone	
10:45 – 12:15	SESSION 5:	DISCUSSION		
		TEX Plutonium Thermal Assemblies: Plutonium-Aluminum Metal Alloy Plates with Thick Polyethylene and Polymethyl		
	PU-MET-THERM-004	Methylacrylate (Lucite) Moderators	Catherine Percher	

## **Distribution:**

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