



INTERNATIONAL ATOMIC ENERGY AGENCY

Agenda

**Third (3rd) Research Coordination Meeting of the CRP on
Development of Methodologies for the Assessment of Passive Safety System
Performance in Advanced Reactors
IAEA CRP I 31018**

**IAEA Headquarters, Vienna, Austria, 26 – 28 April 2011
VIC F-Building, Room F-0817**

Scientific Secretaries:

M. Hadid Subki (NENP/NPTDS), Artur Lyubarskiy (NSNI/SAS),
Katsumi Yamada (NENP/NPTDS)

1st Day: Tuesday, 26 April

Time	Topic	Speaker
9:00	Opening	
10' – 15'	<ul style="list-style-type: none"> Opening Remarks 	Mr. I. Khamis (S/H NPTDS)
5'	<ul style="list-style-type: none"> Meeting Outline and Appointment of Meeting Chairmen (*) 	Mr. H. Subki
5'	<ul style="list-style-type: none"> Approval of the Agenda 	Meeting Chairmen (*)
10'	<ul style="list-style-type: none"> Self-introduction of the participants 	All
9:30 – 10:00	<ul style="list-style-type: none"> <u>Session-1</u>: Status of the CRP I 31018, Objectives of the 3rd RCM and Potential Future Researches after the Fukushima Accident 	H. Subki (IAEA)
10:00 – 11:00	<ul style="list-style-type: none"> <u>Session-2</u>: Preliminary Analysis Results of Experimental Data obtained from the Natural Circulation Loop L2 related to Task 3.1 and Task 4.1 	D. Araneo (University of Pisa, Italy)
11:00 – 11:15	Coffee Break	
11:15 – 12:15	<ul style="list-style-type: none"> <u>Session-3</u>: Progress on the Analysis of Preliminary Results of Modelling of Natural Circulation Loop L2 using the KORSAR/GP code 	M. Bykov (EDO Gidropress, Russia)
12:15 – 13:30	LUNCH	
13:30 – 14:00	<u>Session-4</u> : Use of RMPS to assess the reliability of Passive Safety Systems in CAREM-type reactor, past and present experiences	M. Giménez (CNEA, Argentina)
14:00 – 14:50	<ul style="list-style-type: none"> <u>Session-5</u>: Assessment of an isolation condenser performance in case of a LOHS using the RMPS+ Methodology 	F. Mezio (CNEA, Argentina)

14:50 – 15:30	<ul style="list-style-type: none"> • <u>Session-6</u>: Preliminary results of L2 facility dynamics with RELAP5 	F. Mezio (CNEA, Argentina)
15:30 – 15:45	Coffee Break	
15:45 – 16:45	<ul style="list-style-type: none"> • <u>Session-7</u>: Progress in development of bench mark problem, and application of efficient method to minimize the number of calculation for reliability assessment of passive safety systems, related to Task 3.3 	U.P. Sarathy (IGCAR, India)
16:45 – 17:30	<ul style="list-style-type: none"> • <u>Session-8</u>: Progress in code selection for benchmark analysis, development of meta model, subset simulations for sampling using Monte-Carlo method, and reliability calculation results, related to Task 3.3 	M. Marquez (CEA, France)
17:30 – 17:45	<ul style="list-style-type: none"> • <u>Session-8</u>: Progress on the Evaluation of the Dependencies related to Passive System Failure (Task 1.1 (subtask (b))) 	L. Burgazzi (ENEA, Italy), represented by H. Subki (IAEA)
17:45 – 18:00	<ul style="list-style-type: none"> • Wrap Up of 1st Day Meeting 	Meeting Chairmen & Scientific Secretary
18:00	<u>Reception</u> : Wine and Cheese	
	<ul style="list-style-type: none"> • 	

(*) Designated Meeting Chairmen: (1) Mr. Dino Araneo (University of Pisa, Italy)
(2) Mr. Artur Lyubarskiy (IAEA/NSNI)
(3) Mr. Katsumi Yamada (IAEA/NENP/NPTDS)

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2nd Day: Wednesday, 27 April

Time	Topic	Speaker
9:00 – 9:45	<ul style="list-style-type: none"> • <u>Session-1</u>: Passive System Performance and Reliability Assessment using the APSRA Methodology, related with Task 3.2 	V. Jain (BARC, India)
9:45 – 10:00	<ul style="list-style-type: none"> • Update on the Activities of Idaho States University, related with Task 3.2 on Application of APSRA to IRIS-PCCS Analysis; Test Plan in ISU. 	B. Williams (Idaho S. Univ., USA), represented by H. Subki (IAEA)
10:00 – 10:45	<ul style="list-style-type: none"> • <u>Session-2</u>: Progress of INPRO Collaborative Project on the Performance Assessment of Passive Gaseous Provisions (PGAP) 	H. Khartabil (IAEA)
10:45 – 11:00	Coffee Break	
11:00 – 12:00	<ul style="list-style-type: none"> • <u>Session-3</u>: Working Session for Task 2.1: Elaboration of a set of definitions for reliability assessment of passive safety systems and their treatment using Probabilistic Safety Assessment 	A. Lyubarski (IAEA/NSNI)
12:00 – 13:30	LUNCH	
13:30 – 14:00	<ul style="list-style-type: none"> • <u>Session-4</u>: Implications and Lessons-Learned from the Post-Fukushima Accident to be incorporated in the future R&D topics on safety/thermal hydraulics 	K. Yamada and H. Subki (IAEA/NENP)
14:00 – 15:30	<ul style="list-style-type: none"> • <u>Session-5</u>: Review Proposals for Future R&Ds: <ul style="list-style-type: none"> ○ Proposal from the University of Pisa ○ Proposal from ENEA ○ Proposal from EDO Gidropress ○ Proposal from BARC ○ Proposal from IGCAR ○ Proposal from CNEA 	H. Subki, K. Yamada (IAEA/NENP)
15:30 – 15:45	Coffee Break	
15:45 – 16:45	<ul style="list-style-type: none"> • <u>Session-6</u>: Progress of Task 4.1 Development of a framework for creating a databank to generate probability density functions for process parameters 	D. Araneo, Scientific Secretary, all participants
16:45 – 17:30	<ul style="list-style-type: none"> • <u>Session-7</u>: Progress of Task 3.4 Comparison of different methodologies for reliability assessment of passive safety systems based on the benchmarking of Isolation Condenser proposed by ENEA 	V. Jain, L. Burgazzi, U.P. Sarathy, Scientific Secretary, and all participants
17:30 – 17:45	<ul style="list-style-type: none"> • Wrap Up of 1st Day Meeting 	Meeting Chairmen & Scientific Secretary

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3rd Day: Thursday, 28 April

Time	Topic	Speaker
9:00 – 10:00	<ul style="list-style-type: none"> Planning of further activities, steps and timeframes 	Meeting Chairmen, K. Yamada, Scientific Secretary, All Participants
10:00 – 10:30	<ul style="list-style-type: none"> Going through and commenting on Conclusions and Recommendations of the Meeting (including the work plan for 2011 – 2012) 	Meeting Chairmen, K. Yamada, Scientific Secretary, All Participants
10:30 – 10:45	Coffee Break	
10:45 – 11:45	<ul style="list-style-type: none"> Finalizing the Conclusions and Recommendations of the Meeting 	Meeting Chairmen, K. Yamada, Scientific Secretary, All Participants
11:45 – 12:00	<ul style="list-style-type: none"> Closing Remarks 	I. Khamis, S/H NPTDS
12:00	End of the Meeting	

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