

**HOSTED ACTIVITY_H450: IAEA WORKSHOP ON DESIGN AND SAFETY ASSESSMENT PRINCIPLES OF NUCLEAR POWER PLANTS
21-25 NOVEMBER 2016 ICTP/TRIESTE at the Adriatico Guesthouse (Kastler Hall)**

Time	COURSE DIRECTION BY B. Bauer, IAEA				
	Day 1 (Mon) - 21 Nov	Day 2 (Tue) - 22 Nov	Day 3 (Wed) - 23 Nov	Day 4 (Thu) - 24 Nov	Day 5 (Fri) - 25 Nov
9:00-9:30	Welcome and Introduction of the Workshop and the participants - Yllera	Considerations for the application of the IAEA Safety Requirements for Design. TECDOC 1791 - Yllera	Deterministic safety analysis (Cont'd) - Modro	Assessment of Internal and External Hazards - Shepherd/Watanabe	Lessons learned from the Fukushima accident - Hughes
9:30-10:30	Safety assessment purpose and scope and introduction of relevant IAEA Safety Standards - Modro				
10:30-11:00	Break	Break	Break	Break	Break
11:00-12:30	Fundamental safety concepts (safety functions, defence in depth, single failure, acceptance criteria) - Modro	Safety classification and equipment qualification - Shepherd	Severe Accident Analysis and Management - Shepherd	Assessment of Safety over the Lifetime of the Plant & Periodic Safety Review - Hughes	Summary of workshop and evaluation by the participants - Bauer
12:30-14:00	Lunch	Lunch	Lunch	Lunch	End of Workshop
14:00-15:30	Fundamental safety concepts (Cont'd) - Modro	Introduction to Safety Analysis (Scope, Deterministic and Probabilistic approaches) - Modro	Probabilistic safety analyses - Shepherd	Use of computer codes and their verification and validation - Modro	
15:30-16:00	Break	Break	Break	Break	
16:00-17:30	Safety design requirements (Overview of SSR 2/1) - Yllera	Deterministic safety analyses: overview and design basis analyses - Modro	Probabilistic safety analyses (Cont'd) - Shepherd	Integrated Risk Informed Decision Making - Hughes	
17:30-18:00	Discussion led by - Yllera	Discussion led by - Modro	Discussion led by - Shepherd	Discussion led by - Hughes	