FUNDAMENTALS OF REACTOR REGULATION FUNDAMENTALS OF REACTOR SAFETY

FUNDAMENTALS OF REACTOR REGULATION - SESSION 1

DATE/TIME	SESSION	ΑCTIVITY
DAY 1		
8:30 to 9:00	Opening Session	Welcome Address Introduction: Purpose Schedule, Agenda
9:00 to 10:30	FORR	I. General Aspects of Regulation
10:30 to 11:00	Break	
11:00 to 12:00	FORR (Cont'd)	II. Legal Framework
12:00 to 1: 30	Lunch	
1:30 to 2:30	FORR (Cont'd)	III. Phases of Oversight
2:30 to 3:00	Break	
3:00 to 4:30	FORR (Cont'd)	IV. Regulatory FunctionsV. Other Agency Activities
DAY 2		
8:30 to 8:45	Questions & Answers	
8:45 to 10:00	FORR (Cont'd)	 VI. Regulatory Agency Infrastructure Organizational Structure Staffing Training/Qualification Technical Support
10:00 to 10:30	Break	
10:30 to 12:00	FORR (Cont'd)	VI. Summary Course Evaluation Certificates
12:00 to 1:30	Lunch	
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FUNDAMENTALS OF REACTOR SAFETY - SESSION 2

DATE/TIME	SESSION	ΑCTIVITY
DAY 2 (cont)		
1:30 to 2:30	Opening Session	 Welcome Introduction: Purpose Schedule, Agenda
2:30 to 3:00	Break	
3:00 to 4:30	Basic Nuclear Concepts	 Electricity from Nuclear Energy The Nuclear Chain Reaction
DAY 3		
8:30 to 10:30	Basic Nuclear Concepts (Cont'd)	 Fundamental Radiation & Radiation Protection Decay Heat Activation
10:30 to 11:00	Break	
11:00 to 12:00	Reactor Safety Strategy	 Fundamental Safety Objectives Acceptance Criteria Safety Functions
12:00 to 1: 30	Lunch	
1:30 to 2:30	Reactor Safety Strategy (Cont'd)	 Defense-in-Depth Philosophy Single Failure Criterion Safety Margins
2:30 to 3:00	Break	
3:00 to 3:30	Reactor Safety Strategy (Cont'd)	- Safety Design Considerations
3:00 to 4:30	Hazard Identification	 Internal Initiators External Hazards
DAY 4		
8:30 to 8:45	Questions & Answers	
8:45 to 10:00	Safe Design and Operation	 Quality Assurance Codes and Standards Qualification Programs Operations and Maintenance Security Management Excellence
10:00 to 10:30	Break	
10:30 to 12:00	Core Protection	 Safety Systems Support Systems Operator Actions
12:00 to 1:30	Lunch	
1:30 to 2:30	Consequence Mitigation	 Containment Accident Management Emergency Response/Protective Actions
2:30 to 3:00	Break	

3:00 to 4:30 4:30 to 5:00	Reactor Accidents	 Plant Operational Conditions Accident Scenarios Accident Progression Accident Consequences INES Scale Three Mile Island Accident Fukushima Event Tokai-Mura Summary Course Evaluation Certificates 	
5:00	Adjournment		
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