

Sodium Fast Reactor Technology Seminar February 18, 2015

NRC Headquarters Three White Flint Conference Rooms C-03 and C-05

Time	Topic	Presenter(s)
9:00 am	Introduction (FR concepts, advantages and challenges)	G. Flanagan, Oak Ridge National Laboratory (ORNL)
9:15 am	 SFR Technology Overview Neutronics, Sodium Coolant, Fuels Reactor Design Configurations (Pool, Loop) Major Systems and Components Reactor Core and Core Restraint System Reactivity Control and Shutdown System Reactor and Guard Vessels Heat Transport Systems (Primary and Intermediate) Decay Heat Removal Systems Containment, I&C, and Other Systems 	T. Fanning, Argonne National Laboratory (ANL)
10:30 am	Break	
10:45 am	SFR Technology Overview - Cont	
11:30 am	Past and Present SFR Designs (EBR-II, FFTF, PRISM, TWR-P, 4S)	T. Sofu, Argonne National Laboratory (ANL)
12:15 pm	Lunch Break	
1:15 pm	 SFR Safety Safety Principles and Approach Inherent Safety and Reactivity Feedback Mechanisms Response to AOOs, Postulated Accidents, Local Faults, Sodium Accidents 	T. Sofu, Argonne National Laboratory (ANL)
1:45 pm	Past SFR Safety Testing Programs • EBR-II, FFTF, FBTA/WPF and TREAT tests	T. Sofu, Argonne National Laboratory (ANL)
2:15 pm	U.S. SFR Licensing Experience (FFTF, CRBR, PRISM)	G. Flanagan, Oak Ridge National Laboratory (ORNL)



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Time	Topic	Presenter(s)
2:45 pm	 Factors that Impact Design Criteria for SFR Protection by Multiple Fission Product Barriers Protection and Reactivity Control Systems Fluid Systems Containment Additional Criteria 	G. Flanagan, Oak Ridge National Laboratory (ORNL)
3:15 pm	Adjourn	