

**ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
THERMAL-HYDRAULIC PHENOMENA SUBCOMMITTEE**

**COMPUTER CODES USER NEEDS FOR ADVANCED (NON-LIGHT WATER) REACTOR  
SAFETY ANALYSIS &  
ACCIDENT TOLERANT FUELS (ATF) IN LIGHT WATER REACTOR SAFETY ANALYSIS  
(OPEN/CLOSED)**

Friday, November 16, 2018

11601 Landsdown Street, 3WFN Room 1C3-1C5, North Bethesda, Maryland, 20852

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**–AGENDA –**

	<b>Topic</b>	<b>Presenter(s)</b>	<b>Time</b>
1.	Opening remarks	Dr. Michael Corradini, ACRS	8:30 – 8:35 a.m.
2.	Introduction	John Monninger, NRO	8:35 – 8:40 a.m.
3.	Background: The role of computer codes in regulatory decisions	John Monninger, NRO	8:40 – 9:10 a.m.
4.	Non-light water reactor confirmatory codes	John Monninger, NRO	9:10 – 9:40 a.m.
5.	Accident tolerant fuel (ATF) confirmatory codes	Andrew Proffitt, NRR	9:40 – 10:00 a.m.
	<b>BREAK</b>		10:00 – 10:15 a.m.
6.	1) Introduction to Kairos Power FHR design 2) Current codes selected for the modeling of licensing basis events (LBEs) 3) Ongoing and future development and testing to prepare the codes for licensing interactions	Brandon Haugh <b>Kairos Power</b>	10:15 – 10:45 a.m.
7.	Application of codes to ATF	Zeses Karoutas & Bob Oelrich, Jr. <b>Westinghouse</b>	10:45 – 11:15 a.m.
8.	<b>CLOSED SESSION</b> (if needed; otherwise proceed to lunch break)		11:15 – 11:45 a.m.
	<b>LUNCH BREAK</b>		11:45 a.m. – 12:30 p.m.
9.	Application of DOE codes to aid near- & long-term ATF concepts and advanced reactor development	Joshua Parker <b>Framatome</b>	12:30 – 1:00 p.m.

	Topic	Presenter(s)	Time
10.	Modeling and simulation plans for companies represented in the Molten Salt Reactor (MSR) Technology Working Group	Nicholas Smith <b>Southern Company/ MSR</b> Technology Working Group	1:00 – 1:30 p.m.
11.	Xe-100 pebble reactor modeling and simulation road map	Martin van Staden <b>X-Energy</b>	1:30 – 2:00 p.m.
12.	NuScale interactions with CASL to date and observations on beneficial next step for CASL endeavors (Teleconference)	Andrew Lingenfelter <b>NuScale</b>	2:00 – 2:30 p.m.
13.	Fast reactor modeling and simulation	Jacob DeWitte <b>Oklo</b>	2:30 – 3:00 p.m.
14.	Public comments		3:00 – 3:30 p.m.
15.	Subcommittee discussion	ACRS Members	3:30 – 4:00 p.m.
16.	<b>CLOSED SESSION</b> (if needed; otherwise adjourn the meeting)		4:00 – 4:30 p.m.
	<b>ADJOURN</b>		

1. During the meeting, 301-415-7360 should be used to contact anyone in the ACRS Office.
2. Bridgeline for the open session: 866-822-3032, passcode 8272423#. This line will be placed on the listen-in mode until the agenda proceeds to the designated time for public comment.
3. Presentation time should not exceed 50 percent of the total time allocated for a given item. The remaining 50 percent of the time is reserved for discussion.
4. Fifteen (15) full-page colored copies for the ACRS members and the court reporter and thirty-five (35) hard copies (2 B&W slides per page) of handout for each presentation should be provided to the Designated Federal Official 30 minutes before the meeting.
5. One (1) electronic copy of each presentation should be emailed to the Designated Federal Official one day before the meeting. If an electronic copy cannot be provided within this timeframe, presenters should provide the Designated Federal Official with a CD containing each presentation at least 30 minutes before the meeting.