

MEETING AGENDA

Advisory Committee on Reactor Safeguards

October 21- 23, 2025, Sub-Committee Meeting

**US SFR Owner, LLC (TerraPower, LLC subsidiary) Construction Permit Application:
Kemmerer Power Station Unit 1**

Rockville, MD

***This will be a hybrid meeting with both in-person and remote capability. The bridgeline number for the meeting is 301-576-2978, passcode 36459270. All times are Eastern.**

Microsoft Teams meeting

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Meeting ID: 251 137 647 305 6

Passcode: hK28zh2c

Or call in (audio only): (301) 576-2978, Passcode: 36459270#

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Item	Topic	Presenter(s)	Time
Day 1	October 21, 2025		
	OPEN SESSION		
1	Opening Remarks and Objectives	Walter Kirchner / Thomas Roberts / David Petti (ACRS)	1:00 p.m. – 1:15 p.m.
2	NRC Opening Remarks	Josh Borromeo	1:15 – 1:20 p.m.
3	Introduction and Review of Items from Previous Meeting	Mallecia Sutton- Padmore, Reed Anzalone	1:20 – 2:00 p.m.
4	Control of Heat Generation - Fuel and Core Design - Reactivity control system (CRAs, CRD)	USO	2:00 – 3:00 p.m.

5	NRC Review of Control of Heat Generation	Reed Anzalone, Calvin Cheung, Dinesh Taneja	3:00 – 4:00 p.m.
6	Public Comment		4:00 – 4:15 p.m.
7	Closed Session		4:15 – 5:15 p.m.
8	Adjourn		5:15 pm

Item	Topic	Presenter(s)	Time
Day 2	October 22, 2025		
	OPEN SESSION		
1	Safety-Significant SSC Design Requirements • DBHLs • SR SSC Special Treatments • NSRST SSC Special Treatments • Seismic Classification and Design Criteria	USO	8:30 – 9:45 a.m.
2	NRC Review of Safety-significant SSC design requirements	Hanh Phan, Tracy Radel, Matt Hiser, Bruce Lin	9:45 – 11:00 a.m.
3	Control of Heat Removal • PHT & IHT • RAC & IAC	USO	11:00 – 12:00 p.m.
4	Lunch		12:00 – 1:00 p.m.
5	NRC Review of the Control of Heat Removal	Alec Neller, Matt Hiser, Bruce Lin, Reed Anzalone	1:00 – 2:00 p.m.
6	Radionuclide Retention • RES • SCG/RWG • SPS	USO	2:00 – 3:30 p.m.
7	NRC Review of Radionuclide Retention (RES, SCG/RWG, SPS)	Matt Hiser, Bruce Lin, Alec Neller, Reed Anzalone, Zach Gran	3:30 – 4:45 p.m.
8	Public Comments	Public	4:45 – 5:00 p.m.
9	Closed Session (If needed)		5:00 – 5:30 p.m.
10	Adjourn	Thomas Roberts, ACRS	5:30 p.m.

Item	Topic	Presenter(s)	Time
Day 3	October 23, 2025		
	OPEN SESSION		
1	Radionuclide Retention Fuel handling systems	USO	8:30 – 9:00 a.m.
2	NRC Review of Radionuclide Retention (fuel handling systems)	Steve Jones, Tracy Radel, Reed Anzalone	9:00 – 9:30 a.m.
3	Cross-Cutting Systems Sodium Fire and Leak Mitigation	USO	9:30 – 10:00 a.m.
5	NRC Review of Cross-Cutting Systems Sodium Fire and Leak Mitigation	Nick Melly, Jay Robinson, Reed Anzalone, Matt Hiser	10:00 – 11:00 a.m.
6	Cross-Cutting Systems I&C	USO	11:00 – 12:00 p.m.
7	Lunch		12:00 – 1:00 p.m.
8	Cross-Cutting Systems Seismic/Structural Design	USO	1:00 – 1:30 p.m.
9	NRC Review of Cross-Cutting Systems - I&C Systems - Seismic/Structural Design	Calvin Cheung, Dinesh Taneja, Tracy Radel, Reed Anzalone	1:30 – 2:45 p.m.
10	NRC Review of R&D Items	Matt Hiser, Reed Anzalone	2:45 – 3:15 p.m.
11	Public Comments	Public	3:15 – 3:30 p.m.
12	Closed Session (If needed)	USO/NRC	3:30 – 4:30 p.m.
13	Committee Discussion	ACRS Members	4:30 – 5:00 p.m.
14	Adjourn Session	Walter Kirchner / Thomas Roberts / David Petti, ACRS	5:00 p.m.