



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
WASHINGTON, DC 20555-0001**

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

October 8-9, 2025
Two White Flint, ACRS Meeting Room T-2D10
11545 Rockville Pike, Rockville, MD
Open to the Public

Subcommittee/Topic Chairman: TerraPower Natrium Design Centered
Subcommittee/Thomas Roberts, Chairman
Designated Federal Officer (DFO): Kent Howard, (301) 415-2989
Kent.Howard@nrc.gov

This will be a hybrid meeting with both in-person and remote capability. All times are Eastern. If you would like the Microsoft Teams link forwarded to you, please contact the Designated Federal Officer.

Microsoft Teams meeting

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Meeting ID: 252 908 364 093 0
Passcode: zp2ks9Sm

Or call in (audio only): (301) 576-2978, Passcode: 530774959#

AGENDA

Day 1 October 8, 2025			
OPEN SESSION			
Item	Topic	Presenter(s)	Time
1	Introduction/Opening Remarks and Objectives	Thomas Roberts, ACRS	8:30 am – 8:35 am
2	NRC Opening Remarks	Josh Borromeo, NRR	8:35 am – 8:40 a.m.
3	Introduction and Agenda	Mallecia Sutton, NRR	8:40 am - 9:00 am

4	Design Overview <ul style="list-style-type: none"> • Overview of Safety Approach • Design Orientation and Discussion of High-Level SSC Functions 	USO	9:00 am – 9:40 am
5	LMP Overview <ul style="list-style-type: none"> • Summary Overview of LMP Process 	Reed Anzalone, Tracy Radel, Hanh Phan, Michelle Hart, NRR	9:40 am – 10:10 am
6	LBE Identification and Scope <ul style="list-style-type: none"> • LBE Identification Process & Hazard Screening • PRA Scope for CP • Identification of AOOs, DBEs, BDBEs, and Derivation of DBAs from DBEs • OQEs and Cliff-Edge Effects 	USO	10:20 am - 10:45 am
7	NRC review of LBE Identification and Scope <ul style="list-style-type: none"> • LBE Identification Process and Hazard Screening • PRA Scope for CP • LBE Scope + DBAs 	Reed Anzalone, Tracy Radel, Hanh Phan, Michelle Hart, NRR	10:45 am - 11:50 am
	Lunch		11:50 am - 12:50 pm
8	Implementation of LMP Safety Classification Process	USO	12:50 pm - 1:50 pm
9	NRC review of Implementation of LMP Safety Classification Process	Tracy Radel and Reed Anzalone, NRR	1:50 pm - 2:50 pm
10	Public Comments	Public	2:50 pm – 3:15 pm
11	Adjourn OPEN Session	Thomas Roberts, ACRS	3:15 pm
CLOSED SESSION TO FOLLOW, NOT OPEN TO PUBLIC			

<p style="text-align: center;">Day 2</p> <p style="text-align: center;">October 9, 2025</p>			
<p style="text-align: center;">OPEN SESSION</p>			
Item	Topic	Presenter(s)	Time
1	Introduction/Opening Remarks and Objectives	Thomas Roberts, ACRS	8:30 am – 8:35 am
2	Safety Analysis Methods <ul style="list-style-type: none"> • PRA Methodology • Functional Containment • Mechanistic Source Term/Consequence Analysis • Major Accident 	USO	8:35 am – 10:30 am
3	NRC review of Safety Analysis Methods <ul style="list-style-type: none"> • PRA methodology 	Hanh Phan, NRC	10:30 am - 11:00 am
4	NRC review of Safety Analysis Methods <ul style="list-style-type: none"> • Functional Containment • MST/Consequence Analysis • Major Accident 	Michelle Hart, Tracy Radel, NRC	11:00 am - 12:30 pm
	Lunch		12:30 pm - 1:30 pm
5	DID & Integrated Risk Evaluation <ul style="list-style-type: none"> • Integrated Risk Evaluation • DID Evaluation • DBHLs • NSRST SSC Special Treatments • Seismic Classification and Design Criteria 	USO	1:30 pm - 2:30 pm
6	NRC review of DID & Integrated Risk Evaluation	Hanh Phan, Michelle Hart, Reed Anzalone, NRC	2:30 pm - 3:30 pm
7	Selected Safety Analysis Results <ul style="list-style-type: none"> • Reactivity Transient • LOF Transient • LOHS Transient 	USO	3:30 pm - 4:00 pm
8	NRC review of Selected Safety Analysis Results <ul style="list-style-type: none"> • Reactivity Transient • LOF Transient • LOHS Transient 	NRC staff	4:00 pm - 4:30 pm
9	Public Comments	Public	4:30 pm – 5:00 pm
10	Adjourn OPEN Session	Thomas Roberts, ACRS	5:00 pm
<p style="text-align: center;">CLOSED SESSION TO FOLLOW, NOT OPEN TO PUBLIC</p>			

NOTES:

Breaks are at the discretion of the Subcommittee Chairman

In accordance with the purposes of Sections 29 and 182b of the Atomic Energy Act (42 U.S.C. 2039, 2232(b)), the Advisory Committee on Reactor Safeguards (ACRS) will hold this Subcommittee meeting. In addition, the ACRS is implementing [Executive Order \(EO\) 14300, "Ordering the Reform of the Nuclear Regulatory Commission," dated May 23, 2025](#). Section 4.(b) of the EO states, in part, that the functions of the Advisory Committee on Reactor Safeguards (ACRS) shall be reduced to the minimum necessary to fulfill ACRS's statutory obligations and that review by ACRS of permitting and licensing issues shall focus on issues that are truly novel and noteworthy. The ACRS will only undertake other work as directed by the Commission in accordance with Sections 29 and 182b of the Atomic Energy Act.

Federal Register Notice 90 FR 34522 (<https://www.govinfo.gov/content/pkg/FR-2025-07-22/pdf/2025-13691.pdf>) dated July 22, 2025, describes procedures to be followed with respect to meetings conducted by the U.S. Nuclear Regulatory Commission's (NRC's) Advisory Committee on Reactor Safeguards (ACRS) pursuant to the Federal Advisory Committee Act (FACA) and NRC implementing regulations found at Title 10 of the *Code of Federal Regulations* Part 7, "Advisory Committees." Members of the public who desire to provide written or oral input for ACRS Full Committee and Subcommittee meetings may do so and should contact the DFO five days prior to the meeting, as practicable. In addition, there will be time allotted at each meeting for the public to provide oral comments. The DFO will be listed in the FRN for Full Committee meetings and the agendas for Subcommittee meetings.

Participants on the line will be muted except when the Chairman opens the meeting to public comment. When appropriate, members of the public and representatives of the nuclear industry may provide their views during the briefings. 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. Public comments should be limited to 3-5 minutes each.

One (1) electronic copy of the presentation materials must be provided to the ACRS staff at least three (3) full working days before the meeting. NRC staff should ensure presentations are publicly available, if applicable, and declared in the Agencywide Documents Access and Management System (ADAMS) three (3) full working days before the ACRS meeting so the material can be posted in the NRC's public meeting notification system.

Members of the public attending the meeting in-person that are non-U.S. citizens must notify the DFO and present a valid passport during screening. A copy of the passport must be sent to InternationalVisitor.Resource@nrc.gov at least 12 business days before arrival. Members of the public who are not U.S. citizens will need to have their valid passport with them when they arrive. The copy of the passport will not be kept on file, and for recurring visitors, the process will have to be repeated each time.

If you need a reasonable accommodation due to a disability to participate in this meeting or need meeting materials in another format (e.g. braille, large print), please email Reasonable_Accommodations.Resource@nrc.gov and the Designated Federal Officer. Determinations on requests for reasonable accommodation will be made on a case-by-case basis, and the agency may choose between which effective accommodations to provide. At least ten (10) days advance notice is recommended in order for a request to be processed and implemented if approved. However, every effort will be made to address any reasonable accommodations requests received with less notice.

If you have difficulty understanding and/or communicating in English, free language assistance or other aids and services may be available, upon request. Please email lepresources@nrc.gov and the Designated Federal Officer. Determinations on requests will be made on a case-by-case basis. At least ten (10) days advance notice is recommended in order for a request to be processed and implemented if

approved. However, every effort will be made to address any reasonable accommodations requests received with less notice.

The ACRS was established by statute and is governed by the Federal Advisory Committee Act, or FACA. The NRC implements FACA in accordance with its regulations found in [Title 10 Part 7 of the Code of Federal Regulations](#). Per these regulations and the [Committee's Bylaws](#), the ACRS speaks only through its published [letter reports](#). All Member comments should be regarded as only the individual opinion of that Member, not an ACRS position.

All relevant information related to ACRS activities, such as letters, rules for meeting participation and transcripts are located on the [NRC public website](#) and can be found at "[About Us ACRS](#)". A transcript of this meeting is being kept and will be posted on our website. For additional information about ACRS scan or click on the QR code below.

