

Workshop on Seismic Input Motion Development for Analysis and Design of Nuclear Installations

[Register for the event](#)

The Seismic Engineering Subgroup of the NEA Working Group on Integrity and Ageing of Components and Structures (WGIAGE) will organise the Workshop to share the current state of practice in Seismic Input Motion Development (SIMD), raise awareness of the need for power spectral density (PSD) checks in the varying SIMD practices, discuss perspectives and recommendations on integrating Response Spectra(RS)-matching with PSD checks, and explore future activities to complement RS with PSD or other best practices in all aspects of seismic engineering.

Through a series of presentations and panel discussions, participants will gain valuable insights into the technical rationale on PSD checks and important intensity measures, and how they affect various types of seismic analyses and seismic risk assessments. The workshop will promote international uniformity and efficiency, particularly in supporting advanced reactor designs for which licenses may be pursued in multiple countries. Many of these designs involve innovative systems such as seismic isolators, graphite fuel pebbles, and water pools and other fluid systems that behave in the nonlinear regime during strong earthquakes.

This workshop will also serve as an avenue for knowledge transfer to the next generation of engineers, who are expected to use advanced analyses and computational tools for new reactor designs.

Call for presentations

Submissions for presentations that align with the workshop's theme are encouraged. This is an opportunity to share research findings and practical experiences and engage with a diverse audience from the industry, research institutes, academia, and regulators.

Presentation materials should be suitable for public release.

Submission Guidelines:

- Abstracts: Submit an abstract of no more than 300 words. The abstract should clearly outline presentation objectives, methodology (if applicable), key findings/insights and conclusions.
- Keywords: Please provide 3-5 keywords that best describe the presentation.
- Presenter Information: Include the full name, affiliation and contact email of all presenters.
- Presentation Format: Presentations will be 15 to 20-minute talks followed by 5 minutes for Q&A, or short lightning talks (10 minutes).
- Executive summary: An executive summary, with a maximum length of 2 pages, will be required to be submitted with the slides after notification of acceptance. The executive summary should include the author's main recommendations and be suitable for public release as part of the presentation materials and workshop proceedings. The executive summary should also include any references (e.g., journal articles or conference papers) that may support the author's recommendations.

Key dates:

- Abstract Submission Deadline: 30 October 2025
- Extended Abstract Submission Deadline: ~~30 November 2025~~ **14 December 2025**
- Notification of Acceptance: ~~17 December 2025~~ **19 January 2026**
- Workshop Registration Deadline: 31 January 2026

More information is available in the flyer.

When?

11 - 13 May 2026

US Nuclear Regulatory Commission (USNRC) Headquarters, US

Contact

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