



NRC NEWS

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NRC Kickstarts Process for Creating Regulatory Framework for Fusion Machines: 90-Day Comment Period Begins

The Nuclear Regulatory Commission today published a proposed rule on [regulatory requirements and guidance for fusion machines](#). These requirements will establish a technology-neutral regulatory framework that will enable the safe use and deployment of fusion technology.

Fusion energy relies on the process of combining atomic nuclei to release energy safely and the proposed rule provides a pathway for its commercial use. NRC's Principles of Good Regulation—independence, openness, efficiency, clarity, reliability—shape the approach to regulating the emerging fusion industry and make it suitable for commercial-scale fusion technologies.

This advances capabilities that fulfill the congressional direction in the Nuclear Energy Innovation and Modernization Act of 2019, and the Accelerating Deployment of Versatile, Advance Nuclear for Clear Energy Act of 2024, to establish an efficient and predictable regulatory framework for emerging nuclear technologies, ensuring the NRC remains a global leader in nuclear safety regulation.

Comments will be accepted for 90 days, through May 27, with at least one public meeting during the comment period to present the proposed rule. Details about the public meeting will be provided later.

Comments can be submitted via [Regulations.gov](#), under Docket ID NRC-2023-0071; by email to Rulemaking.Comments@nrc.gov; or directly mailed to SECY, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, Attention: Rulemakings and Adjudications Staff.

The U.S. Nuclear Regulatory Commission was created as an expert, technical agency to protect public health, safety, and security, and regulate the civilian use of nuclear materials, including enabling the deployment of nuclear power for the benefit of society. Among other responsibilities, the agency issues licenses, conducts inspections, initiates and enforces regulations, and plans for incident response. The NRC is collaborating with interagency partners to implement reforms outlined in new Executive Orders and the ADVANCE Act to streamline agency activities and enhance efficiency.