

## AGENDA

**Title:** BRIEFING ON REGULATORY APPROACHES FOR FUSION ENERGY DEVICES (PUBLIC MEETING)

**Purpose:** To update the Commission on the development of regulatory approaches for fusion energy devices and industry progress in commercializing fusion energy devices.

**Scheduled:** November 8, 2022  
9:00am

**Duration:** Approximately 3.5 hours

**Location:** Commissioners' Conference Room, 1<sup>st</sup> floor OWFN

### External Panel **49 mins.\***

**Dr. Kathryn McCarthy**, Associate Laboratory Director for Fusion and Fission Energy and Science, Oak Ridge National Laboratory (ORNL) 7 mins.

Topic:

- ORNL activities to support commercial fusion

**Dr. Richard Hawryluk**, Senior Technical Advisor, Office of Science, U.S. Department of Energy (DOE) 7 mins.

Topic:

- DOE's vision for commercial fusion energy

**Edward Lewis-Smith**, Head of Domestic Fusion Policy and Programmes UK Government Department of Business, Energy and Industrial Strategy 7 mins.

Topic:

- The United Kingdom's approach to fusion regulation

**Megan Shober**, Nuclear Safety Specialist, Wisconsin Division of Public Health 7 mins.

Topic:

- Agreement State experience with licensing and oversight of fusion research and development activities

**Sachin Desai**, General Counsel, Helion Energy 7 mins.

Topic:

- Fusion industry perspective on appropriate regulatory framework

**Dr. Bob Mumgaard**, Chief Executive Officer,  
Commonwealth Fusion Systems (CFS) 7 mins.

Topics:

- CFS progress towards development of a fusion power plant
- Regulatory experience constructing the Affordable, Robust, Compact (ARC) fusion reactor

**Dr. Seth Hoedl**, President, Post Road Foundation 7 mins.

Topic:

- Engaging communities on health, safety, and environmental risks of fusion

**Commission Q & A** 50 mins.

**Break** 5 mins.

**Staff Panel** 45 mins.\*

**Catherine Haney**, Deputy Executive Director for Materials, Waste, Research, State, Tribal, Compliance, Administration, and Human Capital Programs

Topic:

- Opening remarks on the NRC's fusion efforts

**Andrea Veil**, Director, Office of Nuclear Reactor Regulation

Topics:

- Nuclear Energy Innovation and Modernization Act direction to develop a regulatory framework for fusion energy systems
- Background on the regulation of fusion energy systems in the United States

**Duncan White**, Senior Health Physicist, Division of Materials Safety, Security, State, and Tribal Programs; Office of Nuclear Material Safety and Safeguards

Topics:

- Similarities and differences between fusion devices, accelerators, and fission reactors
- Fusion energy system risks and hazard considerations

**Andrew Proffitt**, Project Manager, Division of Advanced Reactors and Non-Power Production and Utilization Facilities, Office of Nuclear Reactor Regulation

Topic:

- Options for regulating commercial fusion energy systems, including NRC stakeholder engagement during development

**Dr. Joseph Staudenmeier**, Senior Reactor Systems Engineer,  
Division of Systems Analysis, Office of Nuclear Regulatory Research

Topics:

- Current and planned NRC research activities on fusion
- Development of NRC capabilities to license and regulate commercial fusion energy systems

**Commission Q & A**

**50 mins.**

**Discussion – Wrap-Up**

**5 mins.**

\*For presentation only and does not include time for Commission Q & A