

Navigating the Future of Fusion: Role of the Agreement States

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The Organization of Agreement States (OAS)

- ▶ The membership of the OAS consists of state radiation control directors and staff from the 39 Agreement States who are responsible for implementation of their respective Agreement State programs.
- ▶ The purpose of the OAS is to provide a mechanism for these Agreement States to work with each other and with the Nuclear Regulatory Commission (NRC) on regulatory issues associated with their respective agreements.



Organization of Agreement States

The Conference of Radiation Control Program Directors (CRCPD)

The CRCPD is a nonprofit, non-governmental, professional organization whose primary membership is comprised of radiation professionals in State and local government that regulate the use of radiation sources. Any individual with an interest in radiation protection may become an Affiliate or International member.

The CRCPD has five councils: The Environmental Nuclear Council, the General Council and Liaisons, the Healing Arts Council, the Homeland Security/Emergency Response Council, and the Suggested State Regulations Council. These five councils have more than 70 working groups researching a variety of topics pertinent to radiation protection.



The National Materials Program (NMP)



The National Materials Program (NMP) is the broad collective framework within which both the NRC and the Agreement States function in carrying out their respective regulatory programs for radioactive material.



The mission of the NMP is to create a genuine partnership between the NRC and Agreement States that will ensure protection of public health, safety, security, and the environment from the hazards associated with radioactive material.



The goal of the NMP is the protection of public health, safety, security, and the environment associated with the hazards of radioactive material while effectively using regulatory resources.

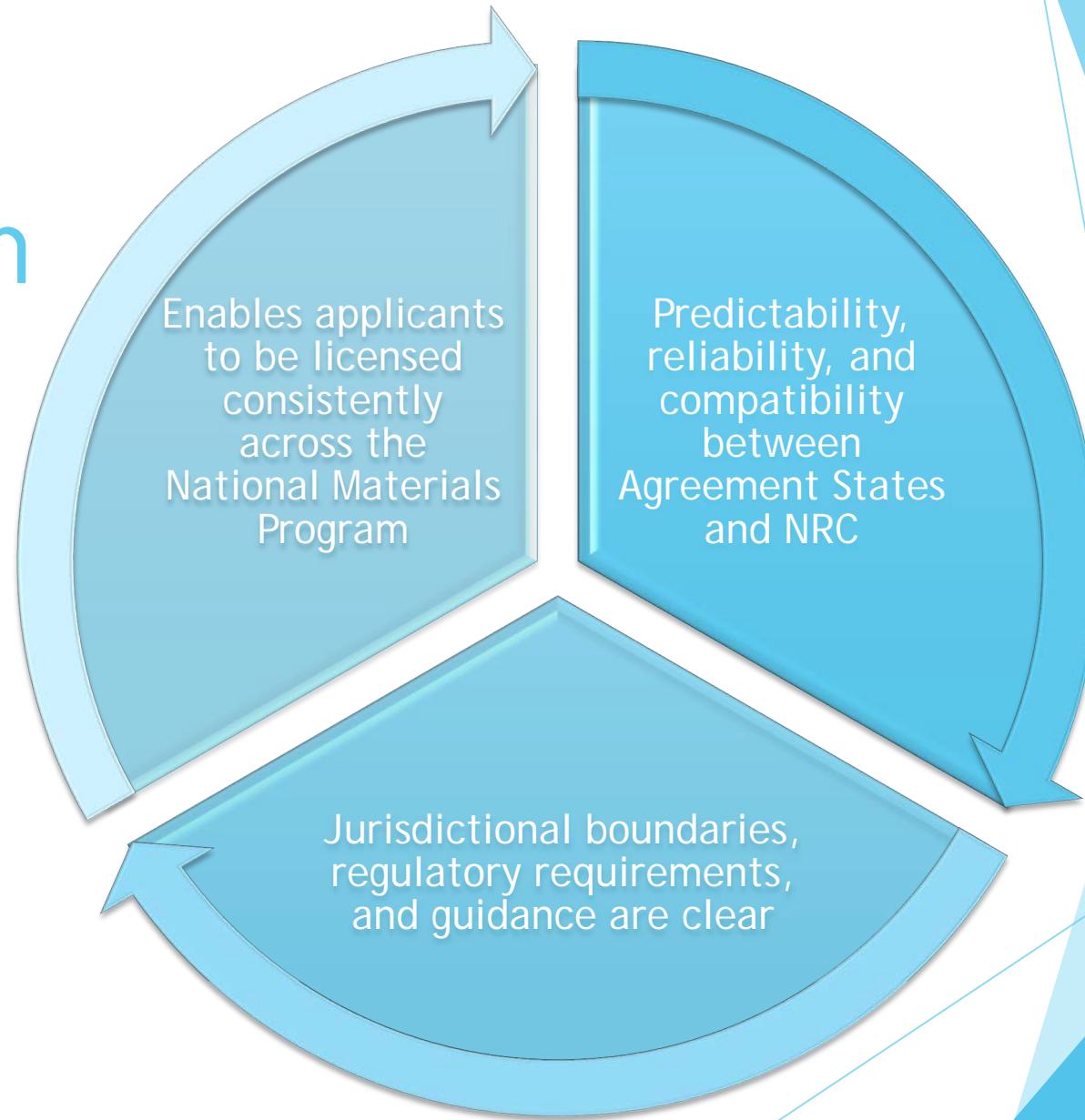


The vision of the NMP is to provide a coherent national system for the regulation of agreement material with the goal of protecting public health, safety, security and the environment through compatible regulatory programs. Through the NMP, the NRC and Agreement States function as regulatory partners.

Current Regulatory Management of Fusion Technologies

- ▶ Research and development activities relating to advancing fusion technologies are currently occurring under the jurisdiction of Agreement States.
- ▶ California, New York, Washington, and Wisconsin have each licensed fusion research and development activities.
- ▶ State specific regulatory authorities (e.g., lasers)

Fusion System Rulemaking Expectations



NRC and Agreement State Cooperation

Section 274 of the Atomic Energy Act of 1954, as amended (AEA)

- The Commission is authorized and directed to cooperate with the States in the formulation of standards for protection against hazards of radiation to assure that State and Commission programs for protection against hazards of radiation will be coordinated and compatible.

Agreement State Program Policy Statement

- The NRC and Agreement States will cooperate in the development of both new and revised regulations and policies. Agreement States will have early and substantive involvement in the development of regulations affecting protection of public health and safety and of policies and guidance documents affecting administration of the Agreement State program.

Ongoing OAS & CRCPD Activities

2023 OAS Annual Meeting

- Fusion Panel providing regulatory perspectives
- Presentations from the fusion industry
- Tour of fusion facility

CRCPD E-47 Committee on Commercial Nuclear Power

- Monitor and provide input on proposed regulatory framework for Advanced fission and fusion reactors per the Nuclear Energy Innovation and Modernization Act
- Develop a white paper outlining risk-based approach for state regulation of commercial fusion facilities in existing framework to include approaches to regulating existing facilities, best practices, issues/concerns, and regulatory gaps/need.

Challenges for Fusion Regulation



Training for regulators



Licensing assistance



Fusion design specific registry



Emergency Preparedness

Questions

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