



*An independent Agency
under the Executive
Branch of government*

Who are we and what do we do?

*UPRISE of Nuclear Energy for Power Demand
Growth*

LSU Campus, Baton Rouge, LA
May 27, 2026

Vic Cusumano, Director
Division of Licensing Projects II, Office of Nuclear Reactor
Regulation

NRC Mission

*We make the safe use of nuclear
technology possible*

“The NRC protects public health and safety and advances the nation’s common defense and security by enabling the safe and secure use and deployment of civilian nuclear energy technologies and radioactive materials through efficient and reliable licensing, oversight, and regulation for the benefit of society and the environment.”

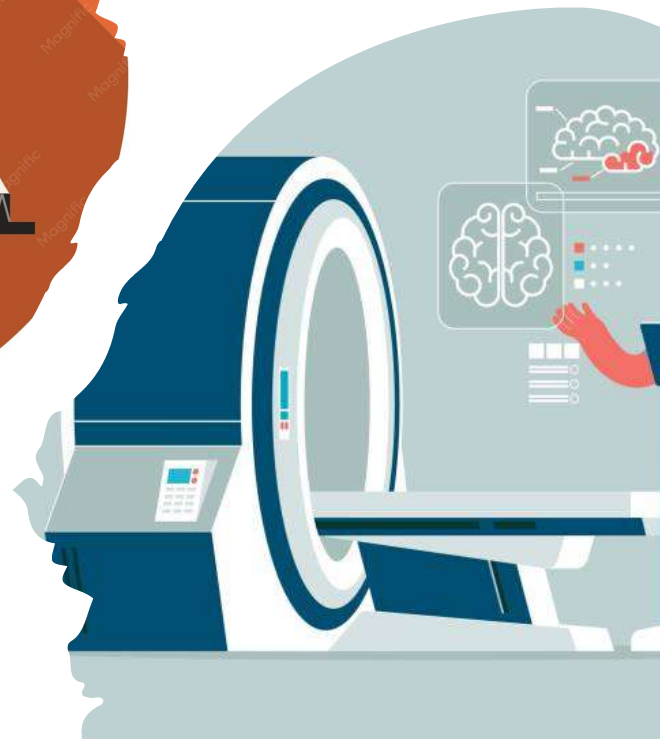
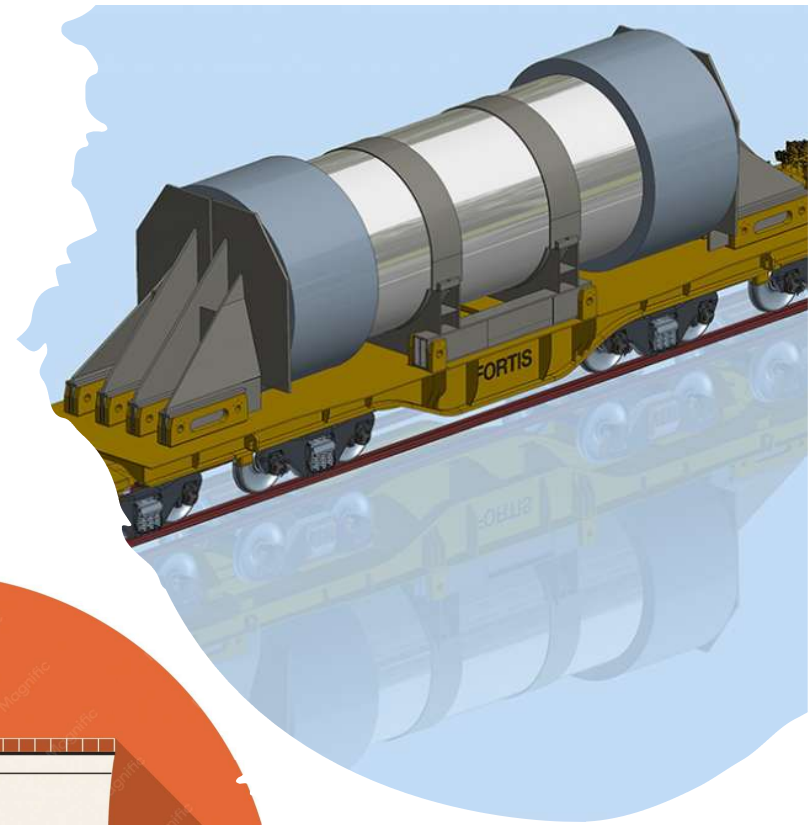
Areas of Regulation

95 licenses for power reactors in 28 states

33 licenses for research and medical isotope reactors

18,600 licenses for nuclear materials for medical, industrial, and facilities that produce nuclear fuel

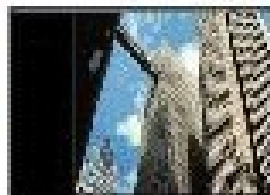
The back end: Transportation, storage, and disposal of waste, and decommissioning of nuclear facilities from service



NRC Regions



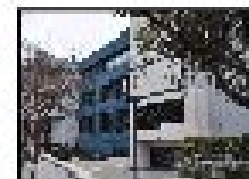
Region I
King of Prussia, PA



Region II
Atlanta, GA



Region III
Naperville, IL



Region IV
Arlington, TX



Technical Training Ctr.
Chattanooga, TN

Executive Orders

EO 14300, the ADVANCE Act, and self-directed initiatives **improve how we do business and focus more of our resources on the most risk-significant things**

Key changes:

- Wholesale regulatory reform underway
- Reduce review resources and schedule *without* impacting safety
- Reorganization to improve focus

Per EO-14300, we've reorganized by business line

NRR - Operating
Reactors

Including
power
uprates

OAR -
Advanced
Reactors

NMSS -
Materials

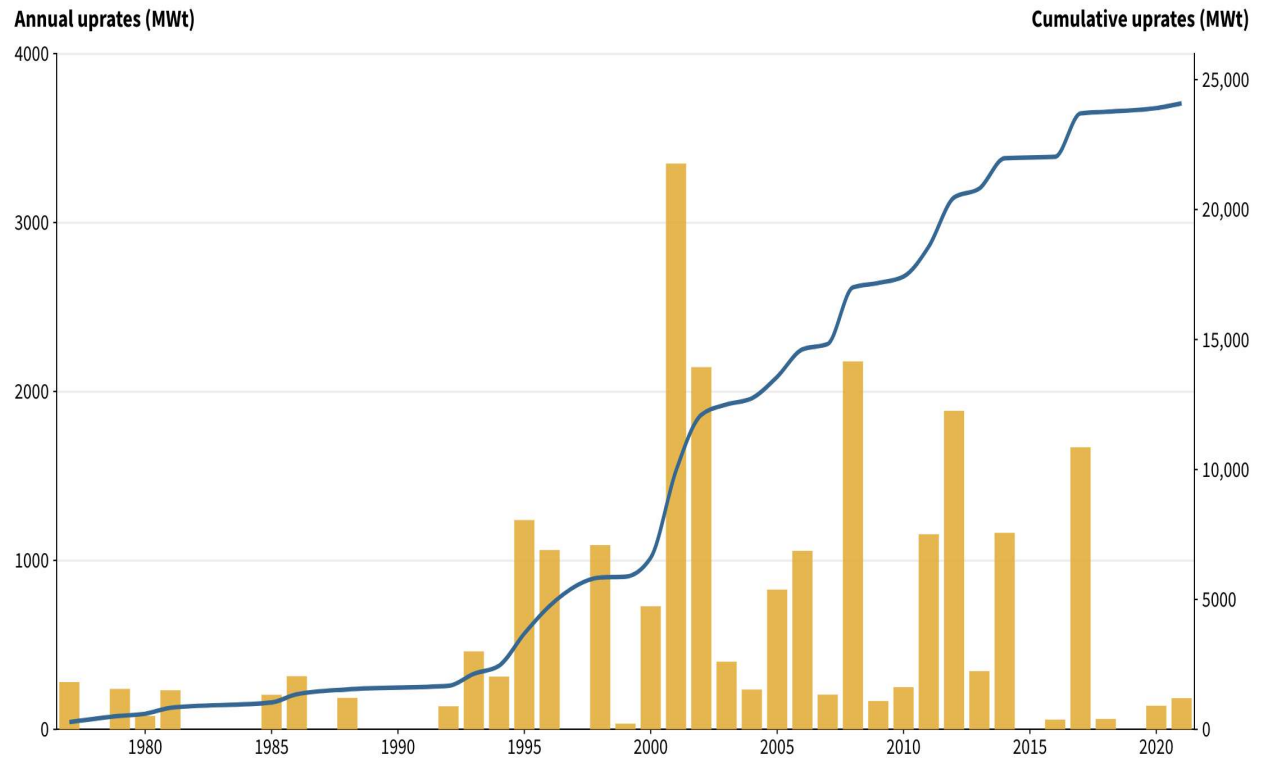
Including fuel
lifecycle

CNRI -
Inspections



Power Uprates

- Require a **license amendment** from the NRC
- NRC streamlined internal processes
- Hosting public workshops to ensure quality submittals
- More on this in the panel discussion later...



What are
we
improving?

Stakeholder Engagement

Updating Guidance

Streamline Review
Processes

Core Team Approach

What is coming?

Majority of reactor licensees are planning for power uprates leveraging:

- increased enrichment fuel
- higher burnup
- advanced fuels material
- improved computer models and codes

More details later in
the panel discussion
