# UPDATE ON RESEARCH AND TEST REACTORS REGULATORY PROGRAM

February 22, 2024





### **Scott Morris**

Deputy Executive Director for Reactor and Preparedness Programs
Office of the Executive Director for Operations

#### RESEARCH AND TEST REACTORS REGULATORY PROGRAM

### **Robert Taylor**

• Deputy Director for New Reactors, NRR

#### Josh Borromeo

• Branch Chief, Division of Advanced Reactors and Non-Power Production and Utilization Facilities (DANU)

### Rebecca Ober

• Project Manager, DANU

### Holly Cruz

• Senior Project Manager, DANU

### Amy Beasten

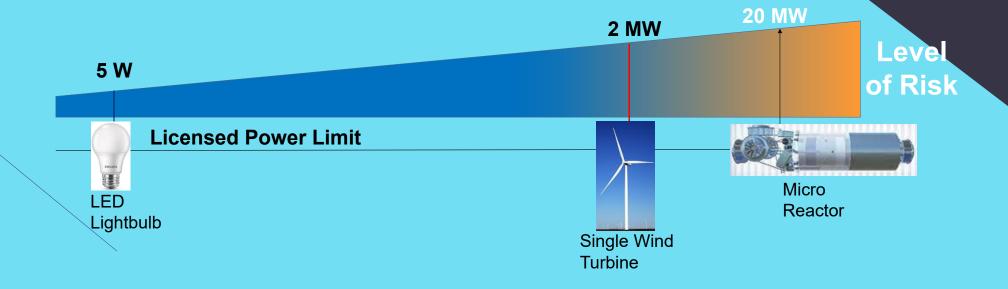
• RTR Chief Examiner, DANU



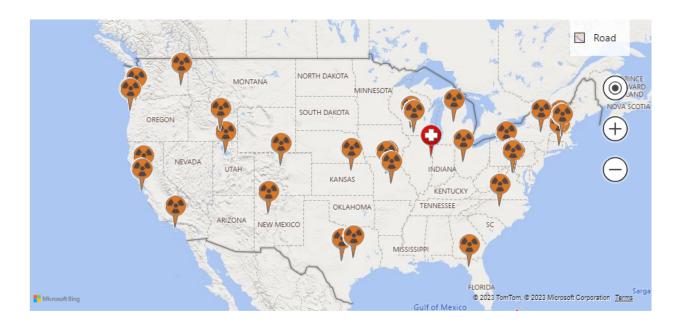
### **Robert Taylor**

Deputy Director for New Reactors
Office of Nuclear Reactor Regulation

### Graded Risk-Informed Approach to Licensing and Oversight



## 30 Facilities throughout the Nation





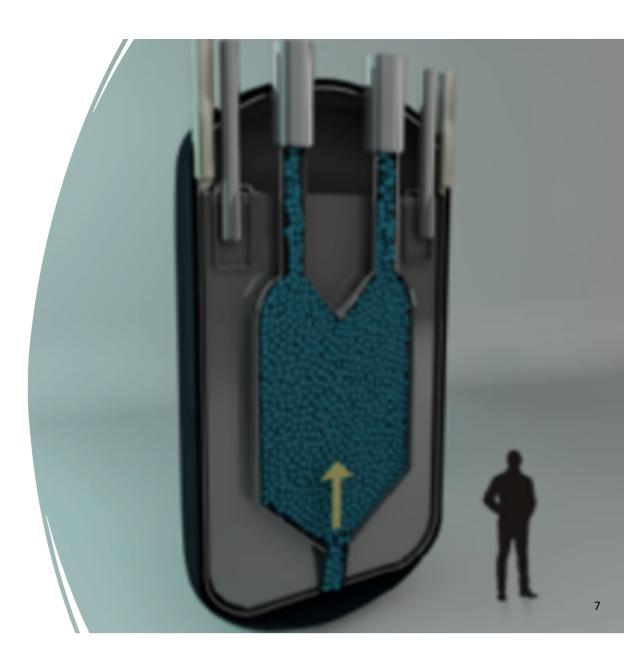
Research and Test Reactors



Medical Radioisotope Irradiation and Processing Facilities

## Leading the Path for the Future

- Program Enhancements
- Domestic Outreach
- International Engagement

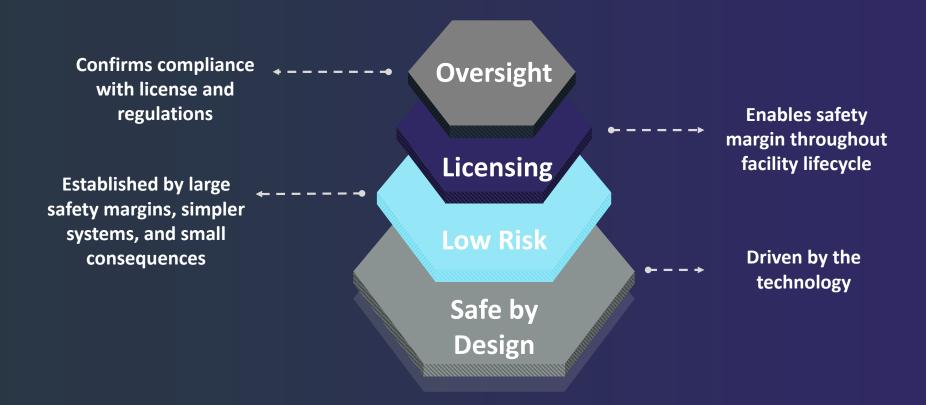




### Josh Borromeo

Chief, Non-Power Production and Utilization Facility Licensing Branch, DANU, NRR

### Foundation of Safety

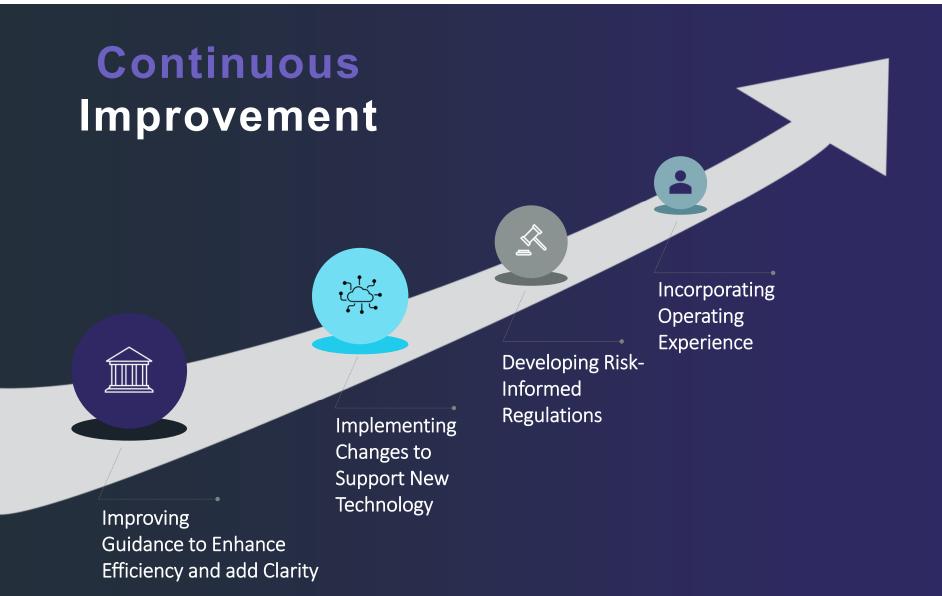


### **Regulatory Framework**

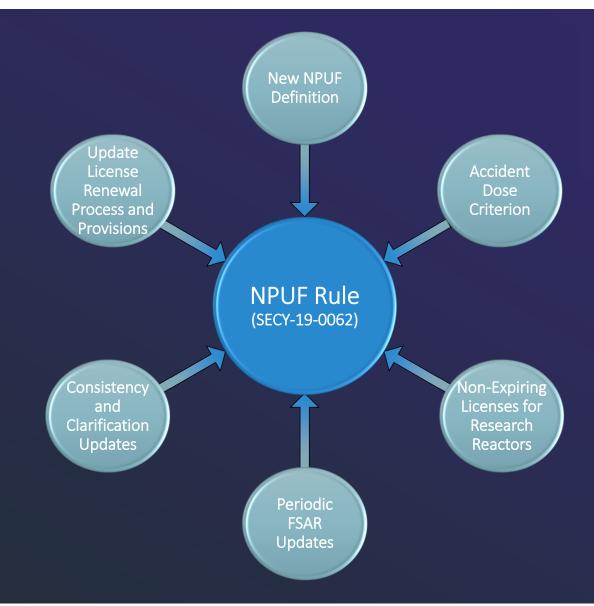
Atomic Energy Act Graded Approach

Regulatory Applicability

Guidance



# Enhancing Efficiency through Rulemaking

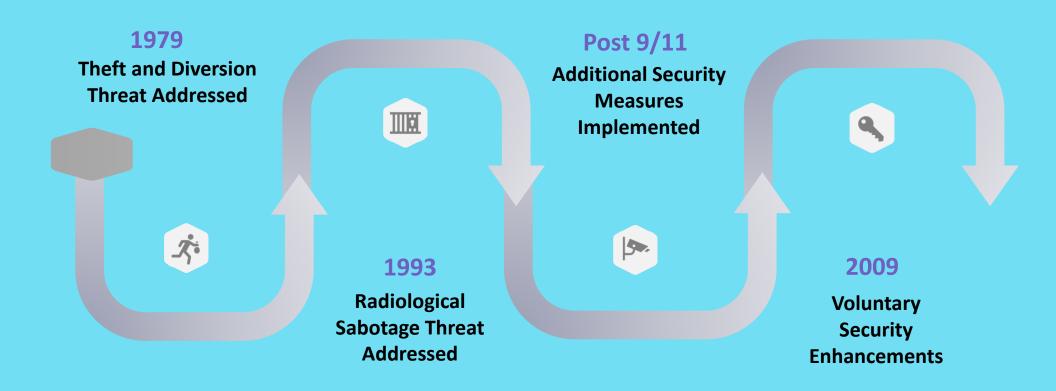




### Rebecca Ober

Project Manager, DANU, NRR

### **History of RTR Security**







### Holly Cruz

Senior Project Manager, DANU, NRR

# **Enabling Flexibility in Regulatory Infrastructure**

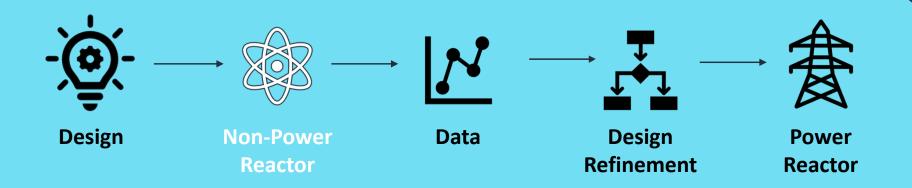
Flexible Guidance

Exemptions

Guidance Updates

Endorsements

### Advancing New Technology Development



### LIFE-SAVING

### MEDICAL ISOTOPES

99Mo 99m Tc

**CURRENT RTRS** 

Medical isotope facilities are essential to ensuring a domestic supply of critical isotopes

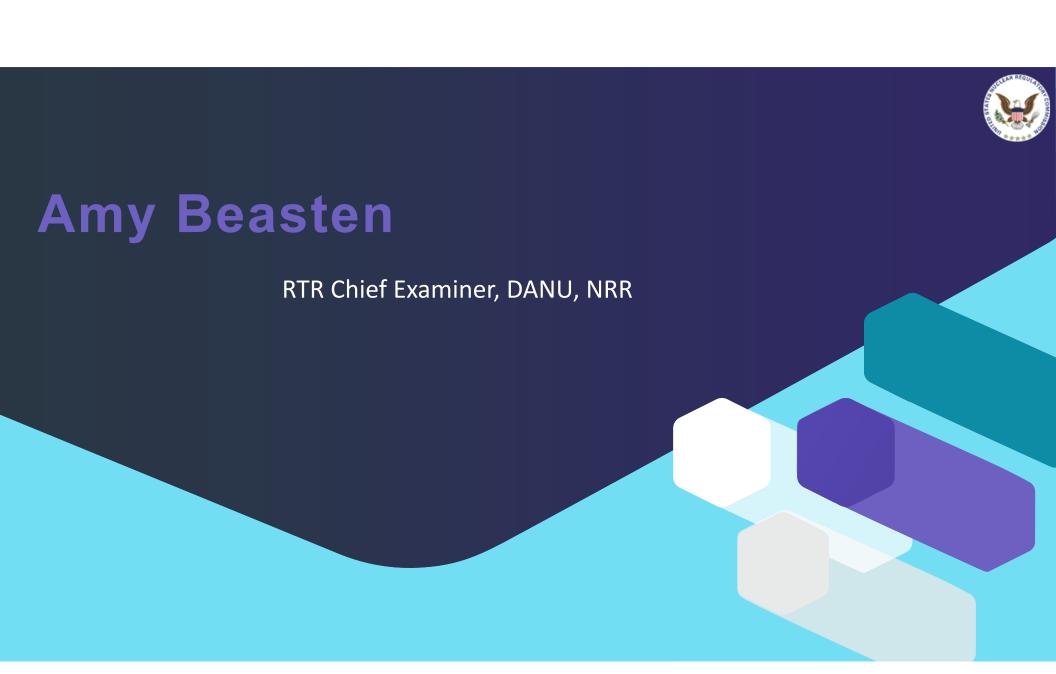
SHINE TECHNOLGIES, LLC

PROSPECTIVE APPLICANTS

### International Engagements







### **Program IMPROVEMENTS**



Inspection Guidance

Collaborative Learning
Environment



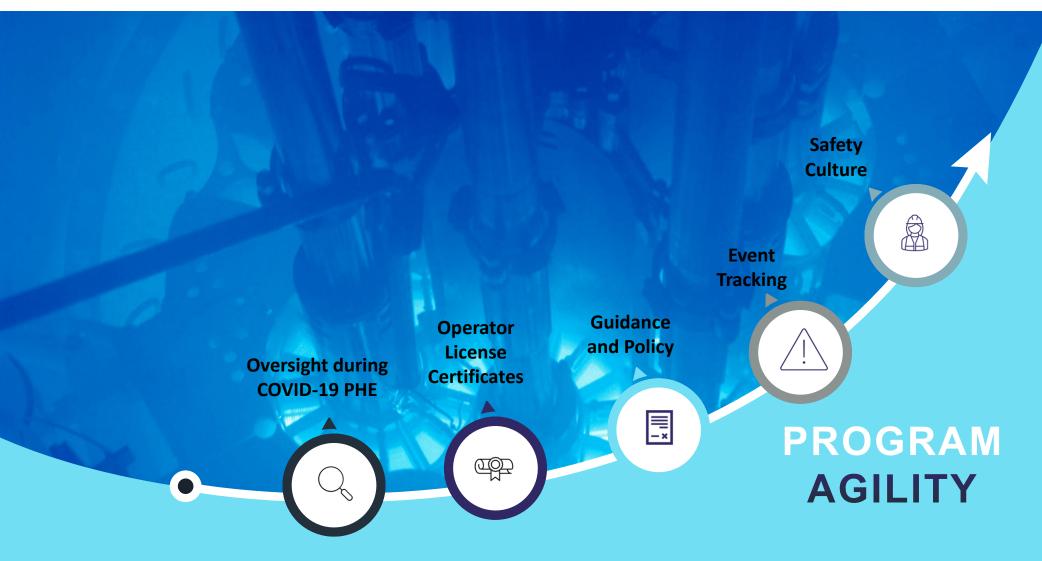
Oversight

**Operator Licensing** 



Risk-Significant Inspection

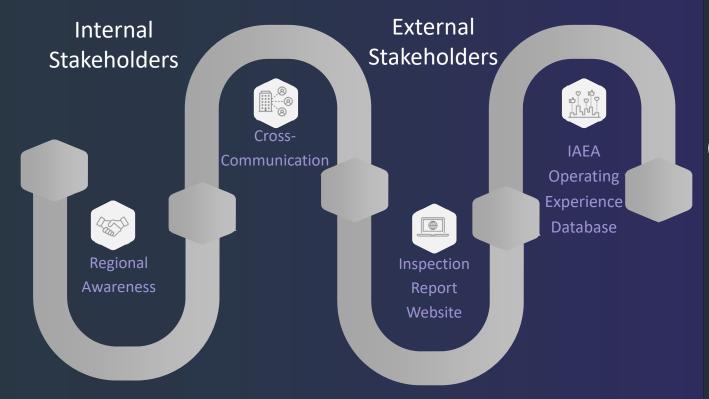
Reactor Program
System





Open Training Sessions

Rotations and Cross-Training



## Continued Focus on Communication



### **Scott Morris**

Deputy Executive Director for Reactor and Preparedness Programs
Office of the Executive Director for Operations



### Acronyms

CFR – Code of Federal Regulations

CSNC/CCSN – Canadian Nuclear Safety Commission/Commission

Canadienne de Sûreté Nucléaire

DOE – Department of Energy

FSAR – Final Safety Analysis Report

IAEA – International Atomic Energy Agency

ISG – Interim Staff Guidance.

NNSA – National Nuclear Security Administration

NPUF – Non-power Production or Utilization Facility

NPUF Rule – Non-power Production or Utilization Facility License Renewal Rule

PHE – Public Health Emergency

RTR – Research and Test Reactor

SNM – Special Nuclear Material