

Welcome to NRC Day

TRTR 2025 Annual Conference

September 11, 2025



Non-Power Production and Utilization Facility (NPUF)

Oversight and Licensing Branches – Overview

Tony Brown, Chief, NPUF Oversight Branch



NRC Day Agenda

8:30	Welcome to NRC Day	
8:35	NPUF Oversight and Licensing, Q&A	Tony Brown, Chief, NPUF Oversight Branch
10:00	BREAK	
10:30	NPUF Rule--Safety Analysis Reports, Q&A	Justin Hudson, Project Manager, Licensing
12:00	LUNCH	
1:30	NPUF Rule—FSAR SUNSI Redactions, Q&A	Justin Hudson
2:30	BREAK	
3:00	Operator Licensing, Requalification Best Practices, Exemptions, NUREG-1478, Q&A	Amy Beasten, PhD, Reactor Engineer, NPUF Examiner Michele DeSouza, Reactor Engineer, NPUF Examiner
5:00	BREAK	
6:00	BANQUET	

NRC Senior Leadership

New to
Position

Commission



David A. Wright
Chairman



Bradley R. Crowell
Commissioner



Matthew J. Marzano
Commissioner

Office of Executive
Director for
Operations (EDO)



Michael F. King
EDO (Acting)



Sabrina Attack
Deputy EDO
(Acting)

Office of Nuclear
Reactor Regulation
(NRR)



Greg Bowman
Director NRR
(Acting)



Mike Franovich
Deputy for
Engineering



Jeremy Groom
Deputy for Reactor
Safety and Mission
Support (Acting)



Jeremy Bowen
Deputy for New
Reactors (Acting)

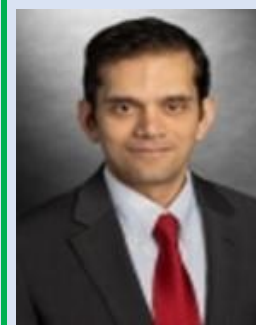
Division of Advanced Reactors and Non-Power Production and Utilization Facilities (DANU)

New to
Position

DANU
Management

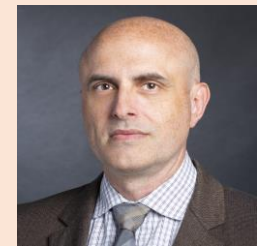


Jonathan Greives
Director (Acting)

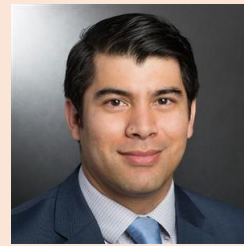


Mehdi Reisi Fard
Deputy Director

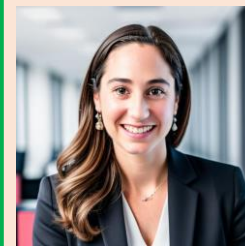
DANU
Branch Chiefs



Mike Wentzel
UARP



Josh Borromeo
UAL1



Alissa Neuhausen
UAL2



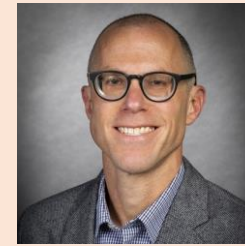
Jeff Rady
UNPL



Travis Tate
UTB1



Candace de
Messieres
UTB2



Greg Oberson
UTB3



Tony Brown
UNPO

We Make **SAFE** Use of Nuclear Technology **POSSIBLE**

One
Unifying
Vision



Safety and
Security
Mission



Our
People



Principles of
Good
Regulation



NRC
Values



Innovation and
Transformation

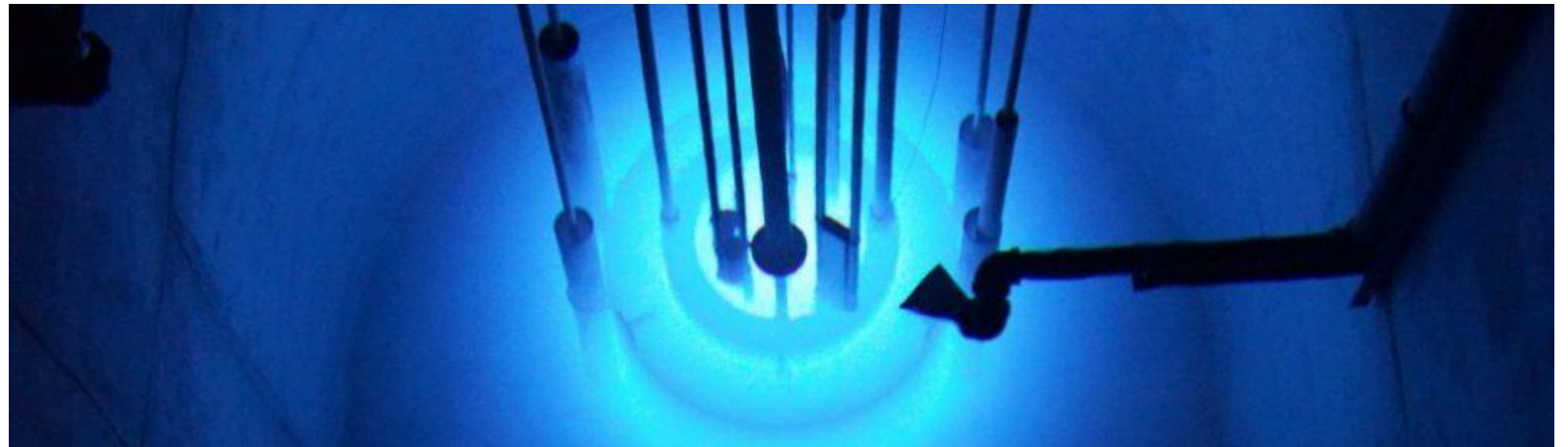
Operating Reactors, Project Managers, and Inspectors

Existing Fleet of 29 RTRs

- 22 Pool
 - 15 TRIGA (AFRRI, Dow Chemical, Kansas State, Oregon State, Penn State, Reed, Texas A&M, USGS, UC Davis, UC Irvine, Maryland, UT Austin, Utah, Wisconsin, Washington State)
 - 5 MTR (Ohio State, Purdue, Rhode Island, U Mass Lowell, Missouri University of Science and Technology)
 - 1 PULSTAR (NC State)
 - 1 Critical Assembly (Rensselaer PI)
- 3 Tank
 - 2 CP5 type (MIT, NIST - MTR)
 - 1 Tank in Pool (MURR - MTR)
- 3 AGN (Idaho, TAMU, U New Mexico)
- 1 Argonaut (Florida - MTR)

Project Managers, Backup PMs, Inspectors:

<https://www.nrc.gov/reactors/operating/project-managers.html#pwr>



Oversight Personnel Overview

Branch Chief



Tony Brown
(New to position)

Previous experience

NEI: Technical Advisor, Regulatory Affairs

TVA:
- Site Licensing Manager, Watts Bar
- Interim Fleet Licensing Manager, TVA HQ
- Senior Program Manager, TVA HQ

NRC:
- Acting Branch Chief, JLD and DLP

- Project Manager, JLD/NRR
- Senior Resident Inspector, Palo Verde
- Resident Inspector, Diablo Canyon
- Project Engineer, NRC Region IV

US Navy:
- Commander, US Navy Reserve (Retired)
- Officer Recruiter, Austin, TX
- Division Officer, USS Oklahoma City (SSN-723)

Staff

Licensing Assistant:
- Nicole Parker

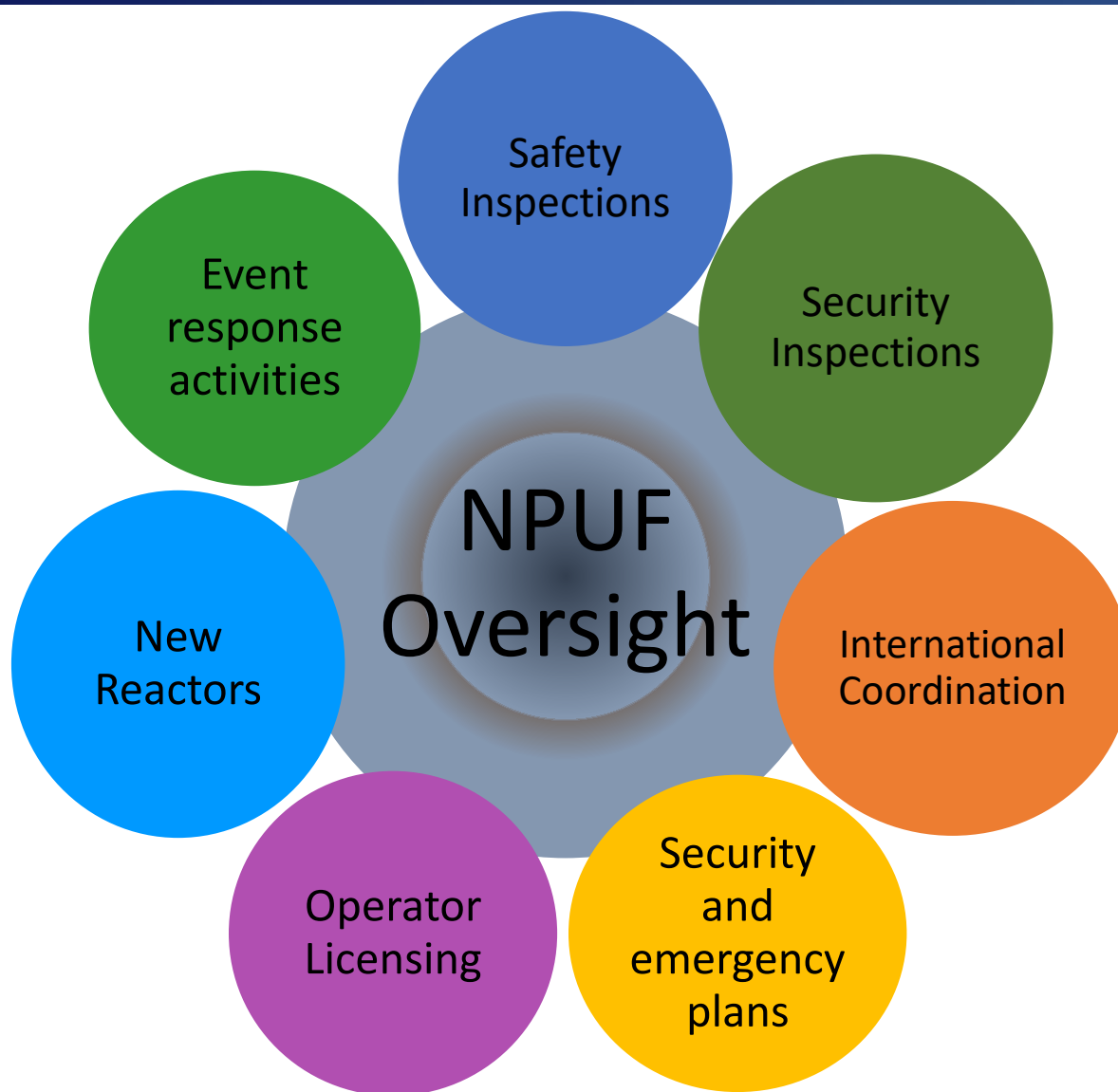
Operator Licensing Assistant:
- Nia Jones

Examiners:
- Amy Beasten, PhD
- Michele DeSouza
- Maggie Goodwin

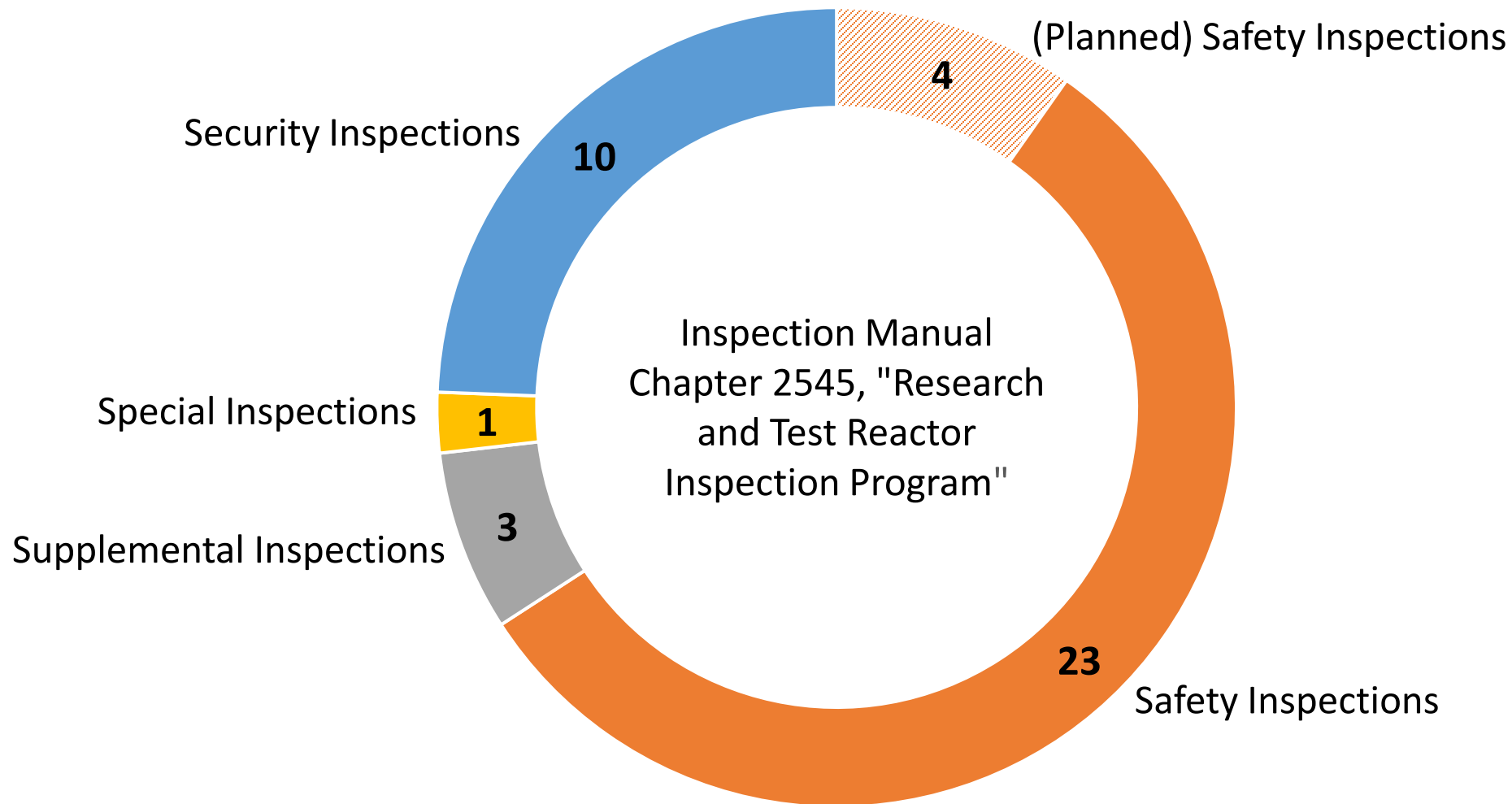
Inspectors:
- Craig Bassett
- Jonathan Braisted
- Brian Lin
- Jared Nadel
- Necota Staples
- Andrew Waugh

Hiring additional staff

Oversight Areas of Responsibility



Oversight Inspection Program FY25 Results



Oversight Branch Current Items of Interests

- NUREG-1478, Revision 3 Draft for Comment
 - Comments due September 26th, submit via www.FederalRegister.gov
- Security Interim Staff Guidance (ISG) in development to collect applicable NPUF security requirements into one reference document
- Oversight program assessment in progress to review inspection program and procedures
- Review and wholesale revision of regulations and guidance documents in accordance with EO 14300
- New and Advanced reactors evaluation and coordination
- Current NPUF reactor items – aging equipment, shutdown reactors, exemptions

Licensing Personnel Overview

Branch Chief



Jeff Rady

(New to position)

Previous experience at NRC

Chief, Fire and External Hazards Analysis Branch, Division
of Risk Analysis, Office of Nuclear Regulatory Research
Reactor Systems Engineer
Senior Reactor Inspector
Senior Emergency Preparedness Inspector

Peach Bottom NPP, I&C Specialist
Merck & Co., Automation Engineer
Maida Engineering, Project Engineer

Staff

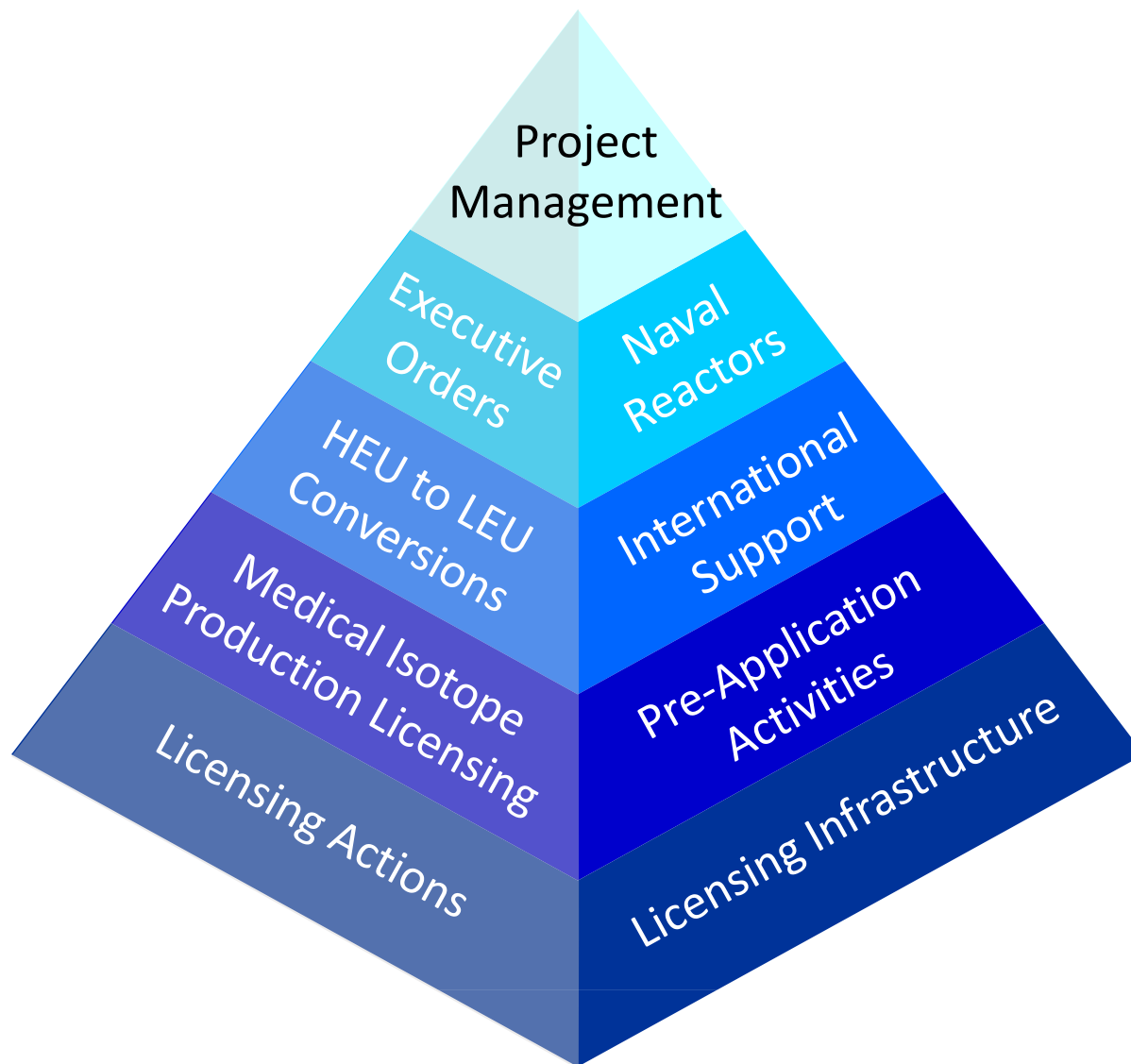
Project Managers (PMs)

Mike Balazik
Patrick Boyle
Zeinab Farahmandfar (New)
Brooke Gallagher
Ed Helvenston
Justin Hudson

Jessica Lovett
Andrew Miller
Cindy Montgomery
Bradley Stamler
Paulette Torres
Linh Tran

Hiring additional PMs

UNPL Areas of Responsibility



Significant Licensing Branch Accomplishments

- Day-to-day project management support of safe operation of 29 facilities
- Non-Power Production or Utilization Facility License Renewal Rule (NPUF Rule)
- NPUF Rule conforming amendments and establishment of FSAR update due dates
- License amendments (NIST, Univ. of New Mexico, and Penn State)
- 10 CFR Part 55 exemptions (Kansas State, Univ. of Utah, and NIST)
- Public meetings on NEI 23-03 for 50.59 digital modifications at NPUFs
- International activities (IAEA International Conference on Research Reactors, Technical Meeting on Incident Reporting System for Research Reactors, Bilateral Technical Meeting with Atomic Energy Regulatory Board of India)
- Pre-application readiness assessment report (Eden Radioisotopes LLC)
- Final safety evaluation for topical report (UIUC Fuel Qualification)

Ongoing Licensing Projects

- NIST LAR to reclassify as a research reactor
- NIST requalification program revision
- RPI LAR to add extended shutdown condition
- University of Texas-Austin and North Carolina State license renewals/power uprate
- Periodic Review of Regulatory Guide 2.2, “Development of Technical Specifications for Experiments in Research Reactors”
- Pre-application activities Abilene Christian University, University of Illinois Urbana-Champaign, Eden Radioisotopes, and Atomic Alchemy, Inc.
- Other LARs expected in the near term but not yet submitted to NRC
- HEU to LEU conversions of NIST, MURR, and MIT

Useful NRC Links

- [Advanced Reactor Pre-Application Activities](#): Includes links and basic information for all facilities engaged in pre-application activities with NRC
- [Advanced Reactor Application Projects](#): Includes links and information for all facilities with an application under review with NRC
- [Advanced Reactor Infrastructure Activities](#): The site enables users to search for documents by keywords or by regulatory applicability. Users can also identify documents associated with projects of interest.
- [NPUF FSAR Status](#): Final Safety Analysis Report Update Tracking for Non-Power Production and Utilization Facility Order
- [NRC Electronic Submittal Application](#): NRC public website to assist with electronic submittals to NRC
- [NRC Public Documents](#): Link to Public Agencywide Documents Access and Management System (ADAMS)
- [NRC Prospective Applicant Guide](#): Provides information, guidance, and support for applicants who are currently in the development process of a nuclear reactor design or reactor-related project that have not yet contacted the NRC. Discusses the steps necessary for an applicant to take before reaching out to the NRC and will also provide the appropriate way to contact the NRC for a project.

Advanced Reactor (non-LWR and LWR) applicants, vendors, and research/test reactors –Pre-application Activities

High Temperature Gas Reactors	Light Water Reactors	Molten Salt Reactors / Molten Chloride Fast Reactors	Sodium Cooled Reactors	Other Designs
Energy Northwest	Deep Fission	Abilene Christian University	* Aalo Atomics	Appalachian Power Company
General Atomics	GE-Hitachi BWRX-300	Kairos Power, LLC	* ARC Clean Technology	Blue Energy, Inc.
General Atomics Electromagnetic Systems	Hadron Energy, Inc.	Natura Resources	Oklo Inc.	Duke Energy - Belews Creek, NC
* Radiant Industries, INC.	* Last Energy	TerraPower, LLC	TerraPower & GE - Hitachi Natrium	Japan Atomic Energy Agency
* Terra Innovatum (SOLO)	REPLOY Power, Inc.	Terrestrial Energy USA, INC.		* Shepherd Power, LLC
* University of Illinois at Urbana-Champaign - NANO Nuclear Energy Inc.	Rolls-Royce SMR Limited			Texas A&M University - RELIS Campus
X-Energy, LLC (XE-100)	SMR, LLC (Holtec)	Link to this website		* Westinghouse eVinci
X-Energy, LLC (XENITH)	Westinghouse AP300			

Commitment to TRTR Community: Dedication to Meet the New Challenges

- New NRC mission statement, ***“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.”***
- Rapid change – Executive Order 14300, "Ordering the Reform of the Nuclear Regulatory Commission" and ADVANCE Act of 2024
- Continued support for existing research and test reactor fleet while also focusing efforts to enable new facilities

Question and Answer Session

