

A photograph of the National Regulatory Commission (NRC) building, a tall, modern structure with a grid of windows. An American flag flies on a tall pole in front of the building. The scene is set against a clear blue sky with some green trees in the foreground. The text is overlaid on the image.

TRTR Conference –
October 12, 2022

Welcome to NRC Day

TRTR Conference –
October 12, 2022

Non-Power Production and Utilization Facility Licensing Branch – Overview

Josh Borromeo, Chief UNPL

Meet the UNPL Branch Chief



Josh Borromeo,
Chief UNPL

B.S. Mechanical Engineering, The Pennsylvania State University

Westinghouse Electric Company, Engineer with focus on Loss-of-Coolant Accident Analysis

Nuclear Regulatory Commission

- Reactor Systems Engineer
- Technical Assistant
- Acting Branch Chief in NRR and NMSS
- Chief of UNPL since April 2021

UNPL Branch Staff

Mike Balazik
Patrick Boyle
Holly Cruz
Duane Hardesty
Ed Helvenston
Justin Hudson
Cindy Montgomery
Paulette Torres (rotation)
Linh Tran
Geoffrey Wertz
Xiaosong Yin

Currently 11 full-time staff

Departures in the past year:

- One PM on detail to IAEA
- One PM promoted within DANU

Actively in hiring additional PMs

Leveraging technical staff of the agency to support reviews and build technical bench strength

DANU Management Team

DANU is actively engaging staff to become familiar with NPUF technology and licensing

Division Management

Mo Shams, Director

Jeremy Bowen, Deputy Director

Caroline Carusone, Deputy Director

Branch Chiefs

Josh Borrromeo, NPUF Licensing Branch

Travis Tate, NPUF Oversight Branch

Bill Jessup, Advanced Reactor Licensing Branch 1

Michael Wentzel, Advanced Reactor Licensing Branch 2

Steven Lynch, Advanced Reactor Policy Branch

Michelle Hayes, Advanced Reactor Technical Branch 1


Stephen Philpott, Advanced Reactor Technical Branch 2

Communication

*Key for workload
planning, efficiently
completing projects,
and issue resolution*

Contact your PM, contact the
UNPL Branch Chief, or contact
anyone on DANU management
team!

COVID-19 Public Health Emergency



NRC staff returned to the office on November 8, 2021

- Majority of staff telework three days per week
- Majority of large conference rooms upgraded to accommodate virtual interactions
- Can accommodate in-person meetings
- NRC makes adjustments based on local infection levels



Some of the completed actions this past year

- Univ of Massachusetts at Lowell License Renewal
- Missouri University of Science and Technology license amendment for changes to the administrative controls
- AFRRRI License Amendment for DI&C Upgrade
- GE Hitachi License Amendment for Land Sale
- NIST License Amendment for fuel latch Tech Spec change
- Oregon State license amendment for instrumented fuel element
- Penn State license amendment for possession limit increase



Some of the ongoing projects

- Univ of Calif Davis, Univ Texas, NC State, and GE License Renewals
- NIST restart request to support the decision authorize the restart
- SHINE operating license review
- NC State license for fueled experiments
- Non-power reactor lead on Kairos Hermes and Abilene Christian Univ construction permit applications



We make the safe use of nuclear technology possible

DANU is committed to continually improving to achieve this goal:

- Risk informed decisions
- New and improved processes
- Metrics to benchmark progress
- Enhanced tools to track projects



Commitment to TRTR and Current Challenges

- The nuclear industry is undergoing rapid change
- DANU staff is review new designs, new applicants, and different technology
- DANU remains committed to efficiently licensing the existing research and test reactor fleet
- DANU remains committed to reviewing licensing actions in a timely fashion to support licensees' missions to conduct research and education
- Contact your PM to understand changes!



Opportunities to Continue Improving

- UNPL is conducting planning activities for 2024
- Advanced notice of potential licensing actions would help the NRC in planning, so that we have the right resources available to conduct reviews
- Let us know during Q&As or in breakout sessions this afternoon:
 - How NRC can enhance regulatory certainty
 - Suggestions for improvement



Contact Info:

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Facility Licensing

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