

National Organization of Test, Research,
and Training Reactors



Research and Test Reactors Licensing Program 2018 TRTR Conference

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Chief

Research and Test Reactors Licensing
Branch



Research and Test Reactors Licensing Branch

- Major Areas of Responsibility
- Accomplishments
- Ongoing Focus
- Staffing
- Topics of Interest

Major Areas of Responsibility

- Licensing project management
- Licensing actions
 - License amendments
 - License renewals
 - License transfers
- Medical isotope production licensing
 - Construction permits
 - Operating licenses
 - Amendments
- Licensing infrastructure
 - NUREG-1537
 - Regulatory guides
 - ANS standards
- HEU to LEU conversions
 - SAR review
 - Fuel qualification

Accomplishments

- Licensing support for safe operation of 31 facilities
- License amendments (5 issued, 3 withdrawn, 9 in process)
- Digital I&C amendment technical evaluations complete for Purdue and MIT
- License renewal work continues
- Support to IAEA (document development, advisory committee, workshops, INSARR missions)
- Support to operations center (reportable events)
- Issuance of construction permit for Northwest Medical Isotopes
- Prepare for SHINE and Northwest Medical Isotopes medical isotope facilities construction
- Knowledge center for medical isotope licensing
- Support for advanced reactors and space applications

License Renewal

- Reviews continuing
 - University of Texas – Austin
 - University of Massachusetts at Lowell
 - North Carolina State University (power increase)
- Review received
 - University of California - Davis
- Review re-started
 - Aerotest Operations
- Review suspended
 - Texas A&M University AGN – reactor relocation
- Renewal expected
 - General Electric (4/2021)

Rulemaking

Proposed rule highlights

- Defined non-power production and utilization facility (NPUF)
- Non-expiring license for research reactors
- Accident criteria for research reactors (1 Rem)

Status

- Rulemaking package being finalized
- ACRS meeting January (public meeting)
- Package due to EDO June

Notice of Licensing Actions



- Staff considering ways to increase public transparency of licensing actions for RTRs, including putting information about completed RTR actions on an NRC website
- NRC offers statutory opportunity for hearing on licensing actions via *Federal Register* notice or NRC Website notice
- Testing facility licensing actions are noticed in the *Federal Register*
- Research reactor license renewals and transfers are noticed in the *Federal Register*

Licensing Staff



Al Adams – branch chief

Duane Hardesty – Senior PM RTR/renewal rulemaking

Linh Tran – Senior PM RTR

Patrick Boyle – PM RTR/nuclear engineer

Steve Lynch – PM/medical isotopes

Michael Balazik – PM RTR/medical isotopes

Geoff Wertz – PM RTR/medical isotopes

Xiaosong Yin – PM RTR

William (Duke) Kennedy – PM RTR/renewal rulemaking

Cindy Montgomery – PM RTR

Spyros Traiforos – PM RTR

Ed Helvenston – PM RTR

Licensing: Topics of Interest

- Ed Helvenston – quality of submissions, proprietary and security related information
- Panel – digital I&C upgrades
- Panel – rulemaking
- Steve Lynch – medical facility update

Research and Test Reactor Licensing



Questions