SCHEDULING NOTE

Title: **STRATEGIC PROGRAMMATIC OVERVIEW OF THE FUEL FACILITIES AND THE SPENT FUEL STORAGE AND TRANSPORTATION BUSINESS LINES (Public Meeting)**

Purpose: The purpose of the briefing is to provide the Commission with a discussion of strategic considerations associated with the Fuel Facilities and Spent Fuel Storage and Transportation business lines.

Scheduled: **December 4, 2019**
9:00 a.m.

Duration: Approx. 3 hours

Location: Commissioners' Conference Room, 1st fl OWFN

Fuel Facilities Business Line **35 mins.***

NRC Staff[1]

John W. Lubinski, Director, Office of the Nuclear Material Safety and Safeguards (NMSS)

Topic:
Strategic Overview of the Fuel Facilities Business Line

Andrea Kock, Director, Division of Fuel Management, NMSS

Topic:
Fuel Cycle Program Current Environment

Jacob Zimmerman, Chief, Fuel Facility Licensing Branch, Division of Fuel Management, NMSS

Topic:
Fuel Facilities Licensing Activities

Robert Williams, Chief, Projects Branch 1, Region II

Topic:
Fuel Cycle Inspection Program Activities

Commission Q & A **40 mins.**

Break **5 mins.**

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[1] Other business line partner office directors and regional administrators will be located in the well as appropriate

Spent Fuel Storage and Transportation Business Line

NRC Staff[2] **35 mins.***

John W. Lubinski, Director, NMSS

Topic:
Strategic Overview of the Spent Fuel Storage and Transportation Business Line

Christopher Regan, Deputy Director, Division of Fuel Management, NMSS

Topic:
Spent Fuel Storage and Transportation Current Environment

John McKirgan, Chief, Spent Fuel and Transportation Licensing Branch, Division of Fuel Management, NMSS

Topic:
Spent Fuel Storage and Transportation Licensing Activities

Linda Howell, Acting Director, Division of Nuclear Materials Safety, Region IV

Topic:
Spent Fuel Storage and Transportation Oversight Activities

Commission Q & A **40 mins.**

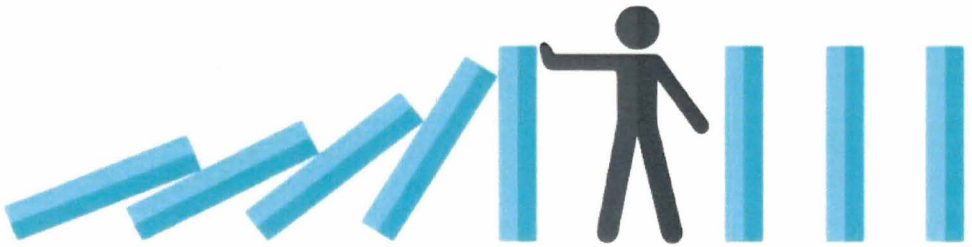
Discussion – Wrap-Up **5 mins.**

*For presentation only and does not include time for Commission Q & A

[2] Other business line partner office directors and regional administrators will be located in the well as appropriate

Becoming a Modern Risk-Informed Regulator

- Successfully completed the graded approach pilot amendment
- Interacting with industry to enhance understanding of safety margin
- Evaluating a topical report program to reduce unnecessary submittals



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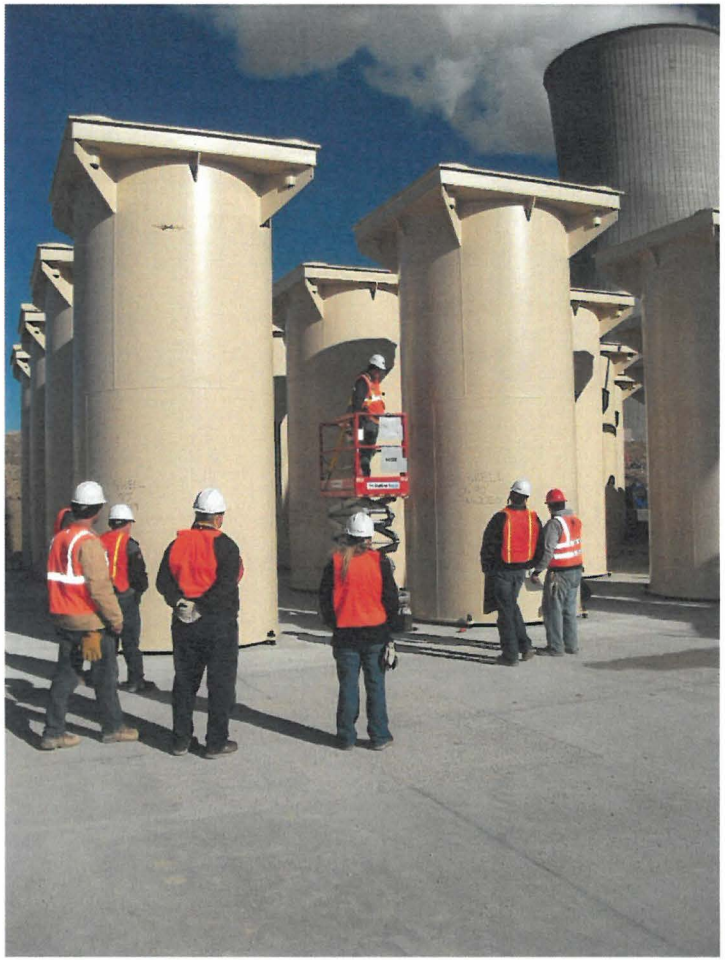
Spent Fuel Storage and Transportation Oversight Activities

Linda Howell, Deputy Director
Division of Nuclear Materials Safety,
Region IV

Substantial Collaboration and Openness

- Multi-disciplinary teams were used to resolve significant technical issues
- Resource sharing
- Enhanced learning and knowledge transfer among staff

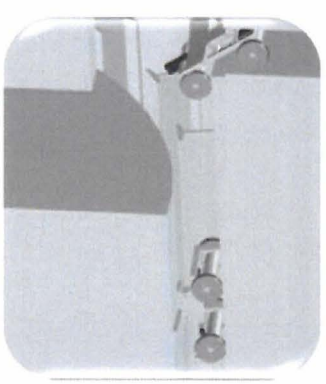
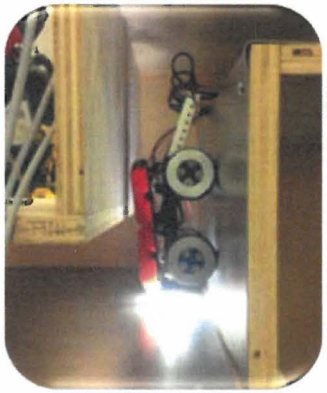


Maintaining Openness with Stakeholders

- Leveraged technology to improve timeliness of information sharing
- Conducted several briefings for congressional representatives and staff

Preparing for the Future

- Continued focus on safety significant operations
- Developing guidance for future aging management programs
- Evaluating technologies that have been successful in other industrial applications

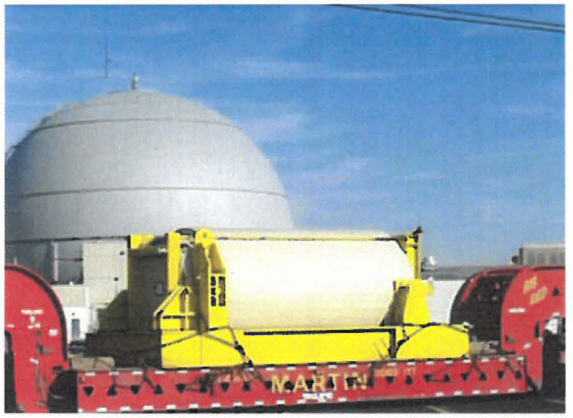




Continued Safety Focus

- Industry and the NRC continue to share operating experience
- We will complete additional oversight of activities before and after transport if consolidated interim storage facilities are constructed

Preparing to address changes

- Assessed current regulatory framework for licensing of accident tolerant fuel
- Conducted assessment of the spent fuel transportation oversight inspection readiness
- Participated in spent fuel transportation tabletop exercises



Optimizing our Licensing Practices

- Revised guidance documents for adaptability, clarity, and efficiency
- Accommodated early renewals
- Developed new guidance for high burn-up fuel
- Ensuring a shared understanding of authorized changes under licensee change processes

Ensuring our Oversight Program is Modern and Risk-Informed

- Used operational experience and risk insights to appropriately focus program
  - Eliminated overlaps in procedures
  - Developed realistic times estimate for inspections
  - Used risk insights to focus hours on most important aspects of oversight

- Recommendations to be fully implemented in FY 2021

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Spent Fuel Storage and Transportation Licensing Activities

John McKirgan, Chief

Spent Fuel and Transportation Licensing Branch,

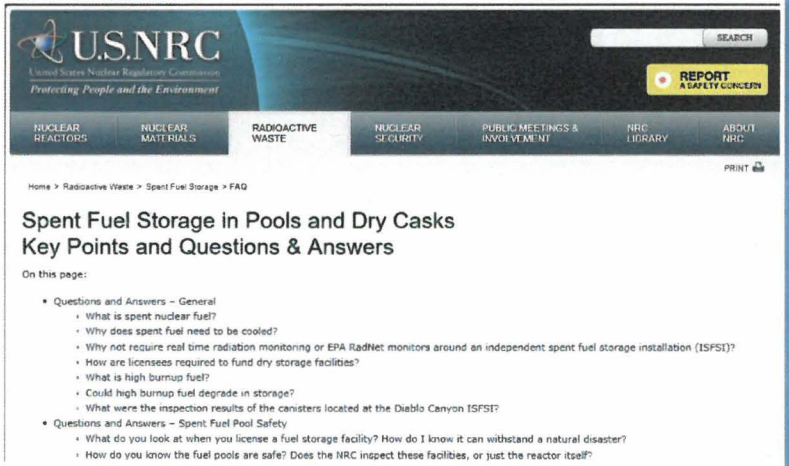
NMSS

Efficiently License and Certify Storage and Transportation Containers

- Completed an increased number of licensing actions due to licensing process efficiencies
- Completed a number of significant licensing actions

Promoting Transparency and Emphasizing Outreach

- Proactively engaging stakeholders on new and on-going actions
- Augmented outreach on interim storage
- Proactive engagement has facilitated progress on the consolidated storage applications



Safety Focused in a Dynamic Environment

- Completed emergent and important licensing requests
- Leveraged tools to focus on most important casework
- Utilizing strategic workforce planning to build the workforce of the future

Acronyms

- ATF - Accident Tolerant Fuel
- HALEU - High-assay Low Enriched Uranium
- NMSS – Office of Nuclear Material Safety and Safeguards

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Spent Fuel Storage and Transportation Business Line Briefing

Commission Meeting

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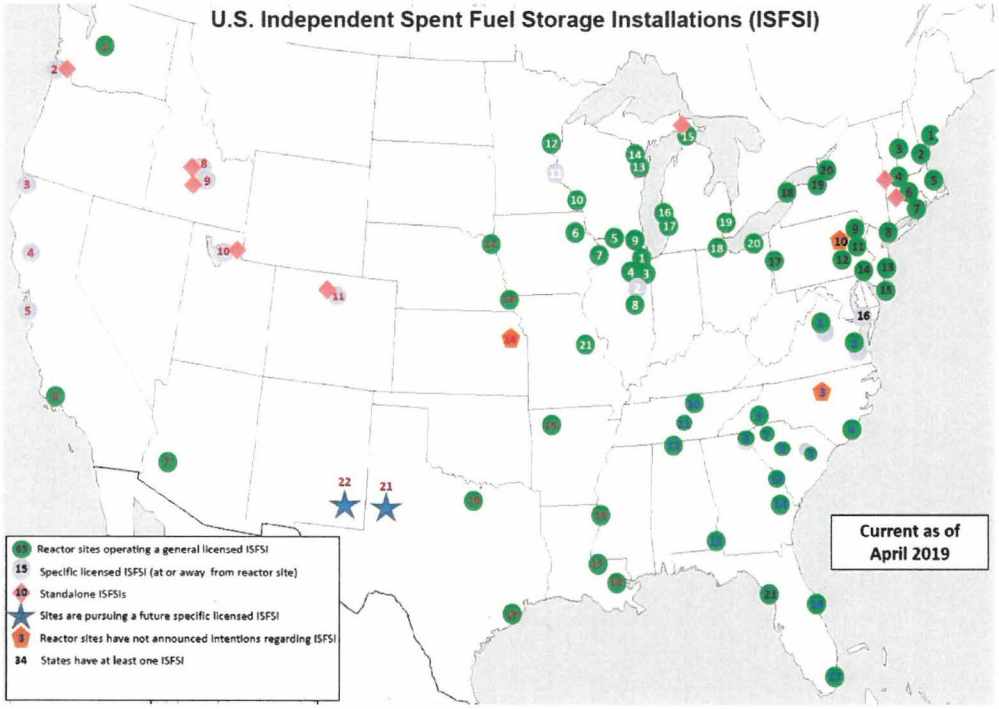
Optimizing our Programs in a Dynamic Environment

John Lubinski, Director
Office of Nuclear Material Safety and Safeguards

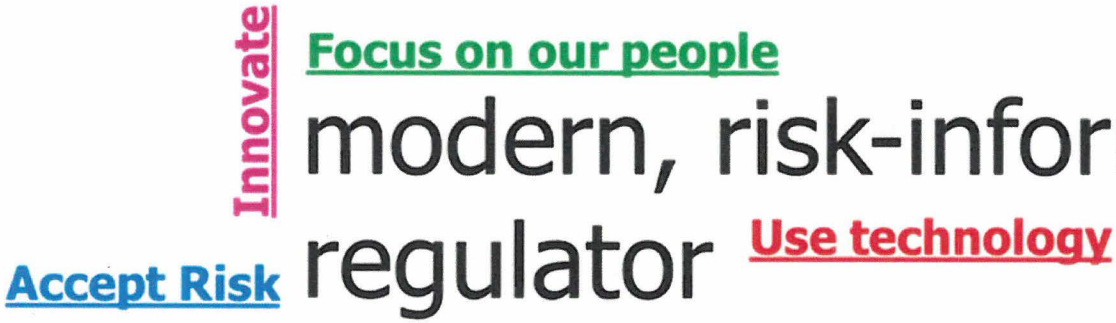
Effectively Responding to a Changing Environment



- Consolidated interim storage facilities reviews on track
- Approved a number of applications for transporting accident tolerant fuel
- Engaging a wider set of stakeholders in new forums

Making progress on becoming a modern risk informed regulator

- Completed graded approach pilot
- Completing assessment of the ISFSI Inspection Program



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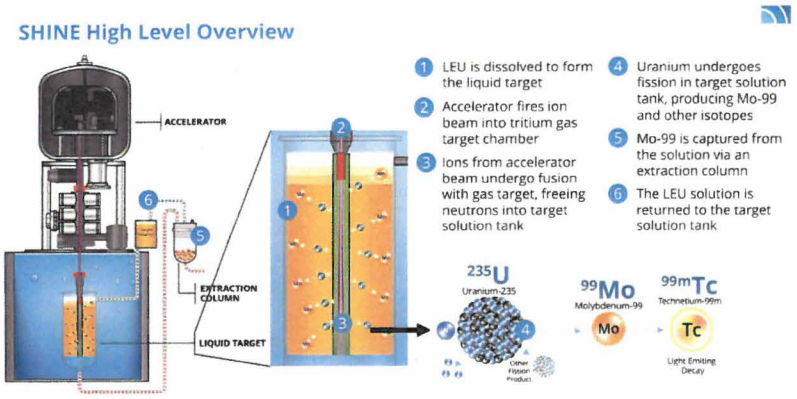
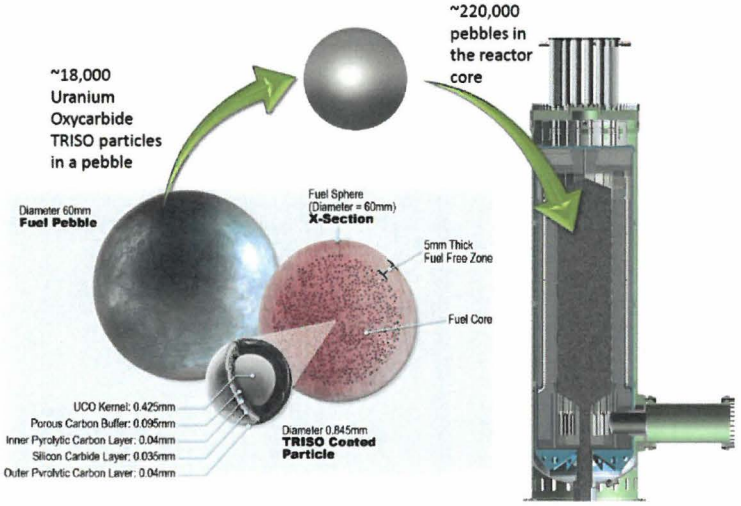
Current Spent Fuel Storage and Transportation Environment

Christopher Regan
Deputy Director, NMSS/DFM

Preparing for New Applications

- Early and frequent communications
- Pre-application meetings
- Information sharing with federal partners
- Enhancing our communications
- Working with the Office of Regulatory Research and National Labs





Engaging in Knowledge Management

- Licensing seminars series on various topics to promote knowledge management
- Promoting cross-qualifications for technical staff

- Utilizing strategic workforce planning to ensure we have expertise to support our future workload

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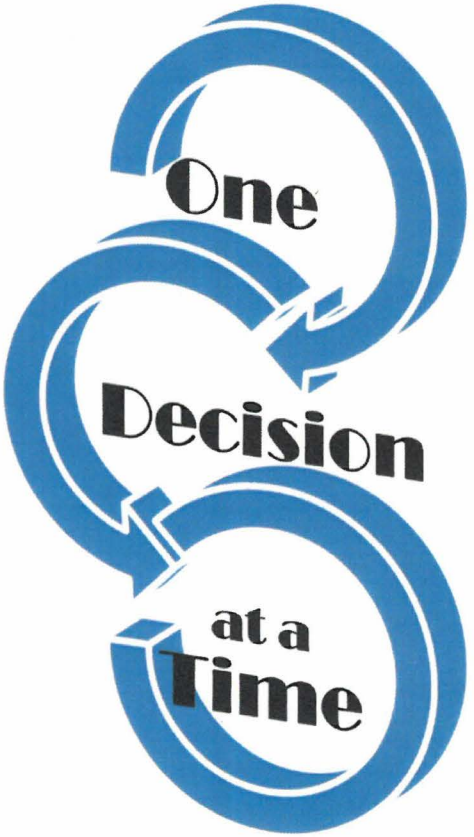
Fuel Cycle Inspection Program

Robert Williams, Chief
Projects Branch 1,
Division of Fuel Facility Inspection,
Region II

Ensuring a Smarter Way to Safety

- Focusing on safety by successfully completing the core inspection program
- Proactively planning to inspect new facilities
- Modernizing decision making one decision at a time
- Partnering with NMSS on the smarter inspection effort



Maintaining Knowledgeable, Agile Staff

- Enhancing the diversity of technical backgrounds through cross training
- Continuing our focus on collaboration and knowledge management
- Implementing the leadership model through Leadership at all levels

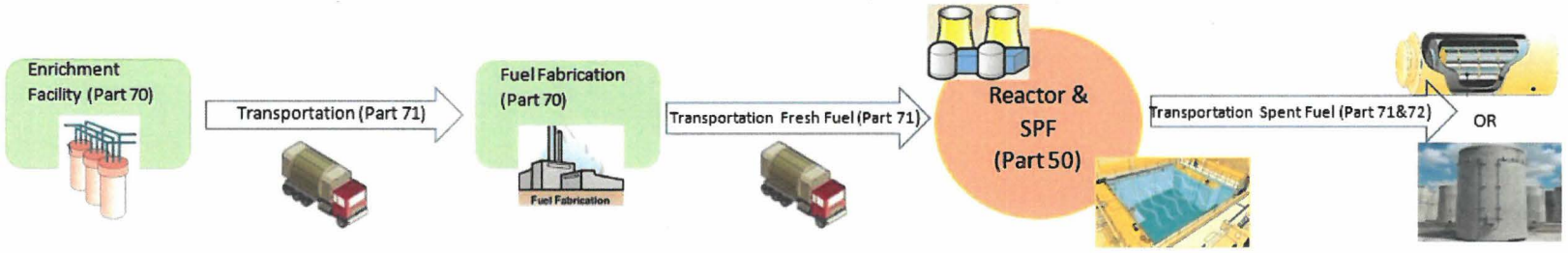
Enhancing Openness Through Public Engagement

- Increased engagement with local officials and stakeholders

- Continued resident Inspector outreach

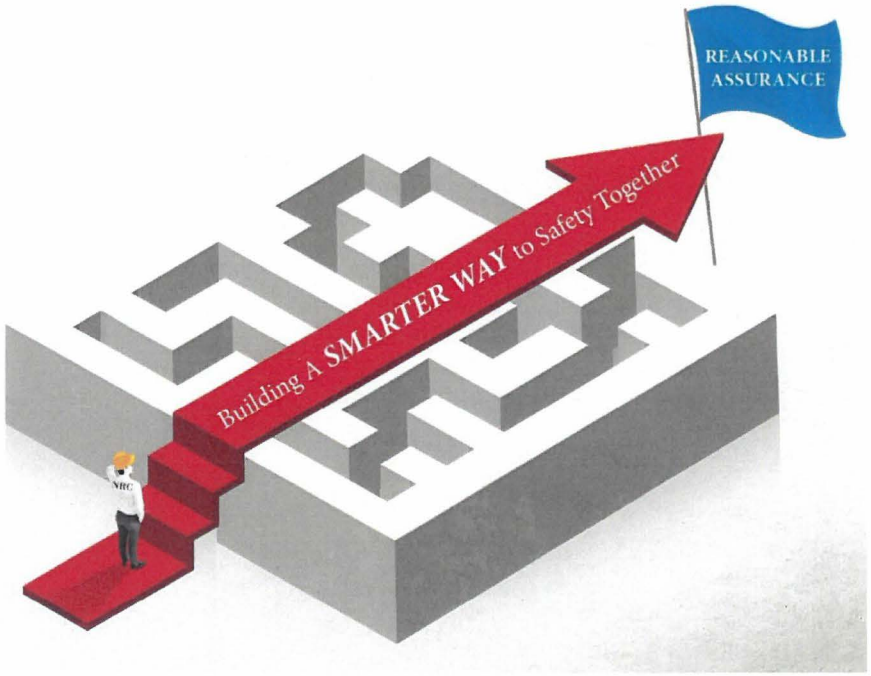
- Transforming licensee performance review meetings

Preparing for New Technologies



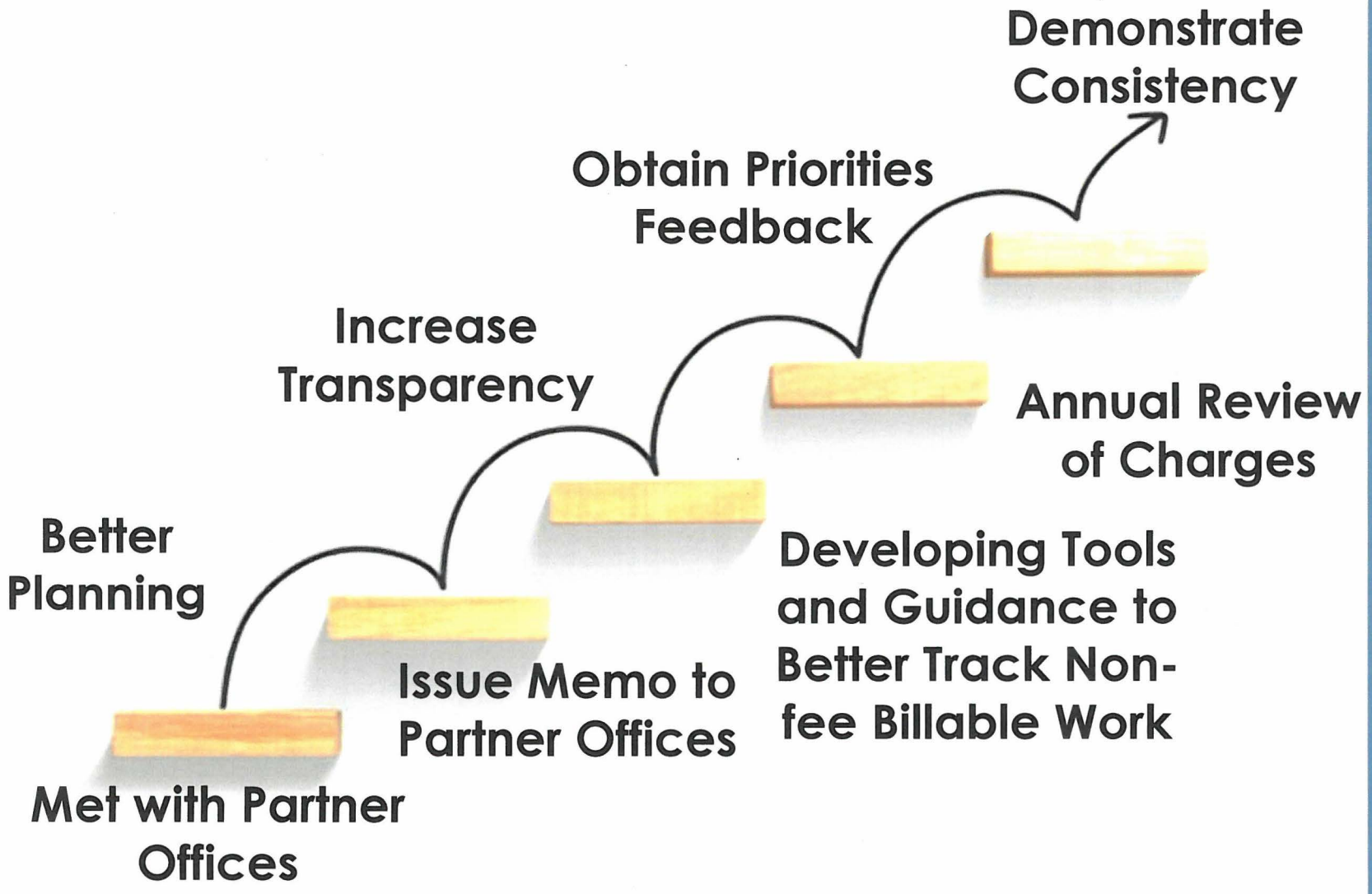
- Engagement with internal and external stakeholders
  - Issued letter requesting anticipated schedules
  - Implementing ATF project plan
  - Evaluating our regulatory framework
  - Utilizing diverse forums for engaging stakeholders

Making Progress Toward Becoming a Modern Risk-Informed Regulator



- Updated the Licensing Handbook
- Initiated Smarter Licensing and Oversight Efforts

Optimizing Our Programs



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Fuel Facilities Licensing Activities

Jake Zimmerman, Chief

Fuel Facilities Licensing Branch,

NMSS

Effective and Efficient Fuel Facility Licensing Reviews

Becoming a Modern Risk-Informed Regulator

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Current Fuel Cycle Program Environment

Andrea Kock, Director

Division of Fuel Management,

NMSS

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Fuel Facilities and Spent Fuel Storage and Transportation Business Line Briefing

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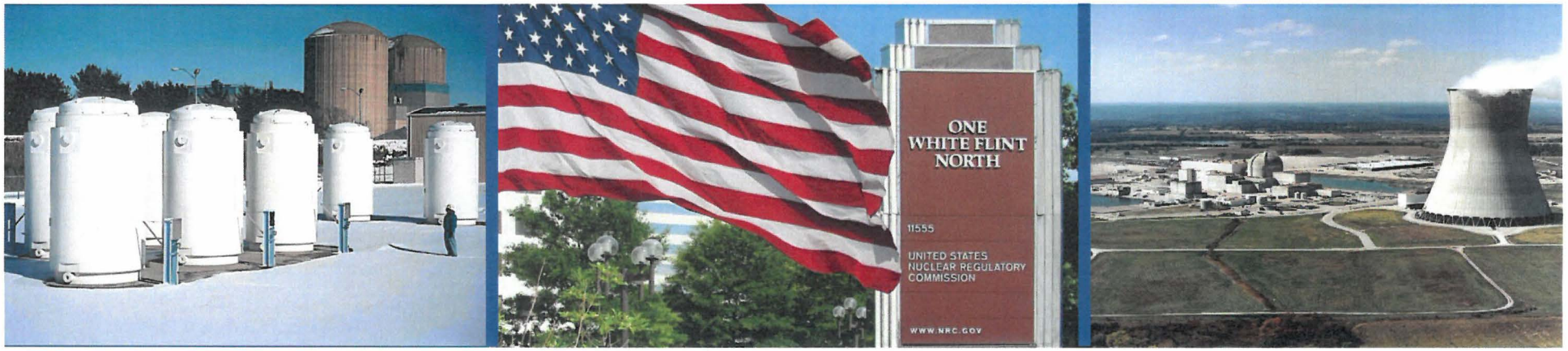

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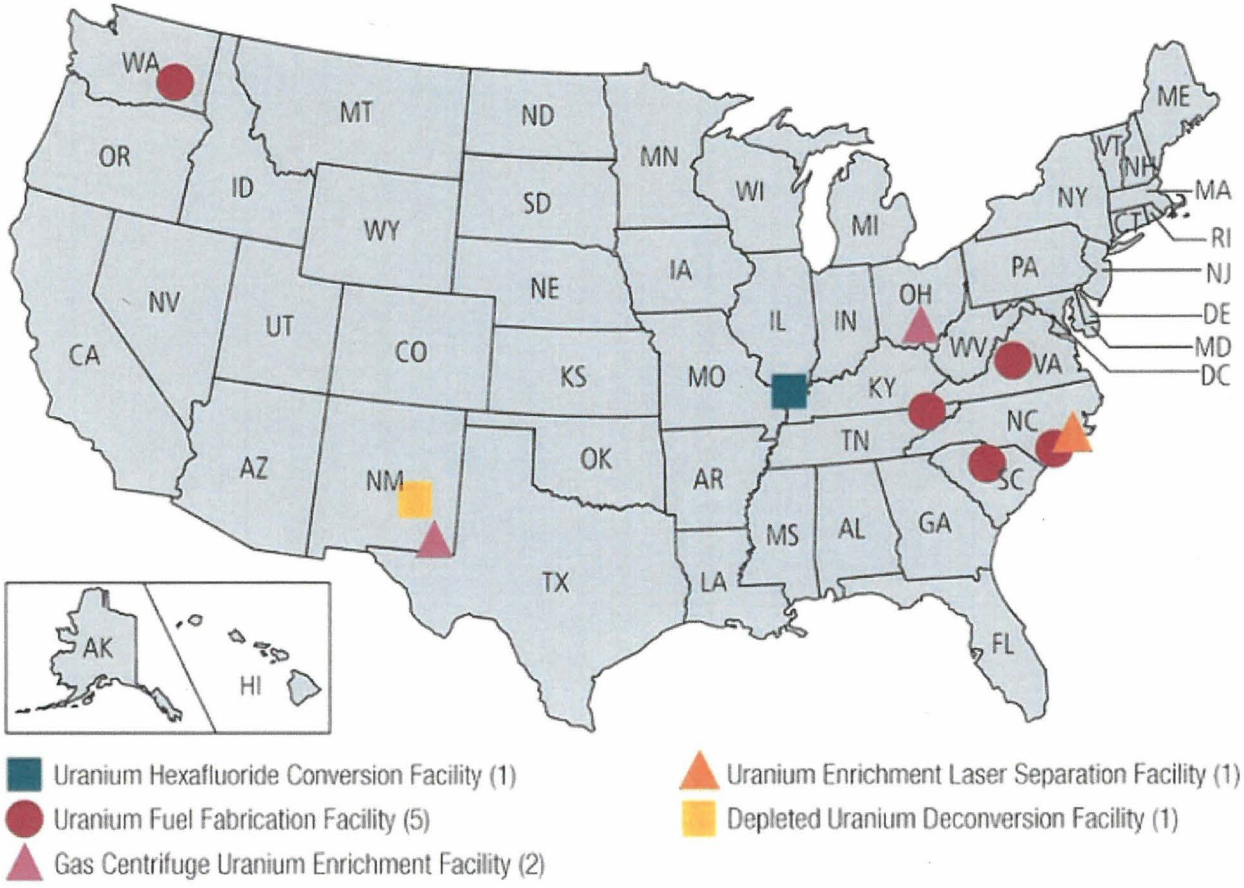
Preparing for the Future

John Lubinski, Director
Office of Nuclear Material
Safety and Safeguards

Successfully Regulating Fuel Cycle Facilities

Locations of NRC-Licensed Fuel Cycle Facilities



Note: There are no fuel cycle facilities in Alaska or Hawaii.
For the most recent information, go to the Dataset Index Web page at *https://www.nrc.gov/reading-rm/doc-collections/datasets/*.

Preparing for New Technologies

- Evaluating our regulatory framework for necessary changes
- Ensuring workforce is equipped for HALEU and ATF applications
- Conducting preapplication meetings with external stakeholders