### FUEL FACILITES AND SPENT FUEL STORAGE AND TRANSPORTATION BUSINESS LINES BRIEFING

COMMISSION MEETING MAY 25, 2021





#### Darrell Roberts

Deputy Executive Director for Materials, Waste, Research, State, Tribal, Compliance, Administration and Human Capital Programs



John Lubinski

Director, Office of Nuclear Material Safety and Safeguards

# We are proactively planning for the future



Preparing to safely license new fuel types and facilities to support efforts in the operating and new reactor business lines in the areas of ATF and advanced reactors



Applying the BeRiskSmart Principle to become a more modern risk informed regulator



Leading in domestic and international forums



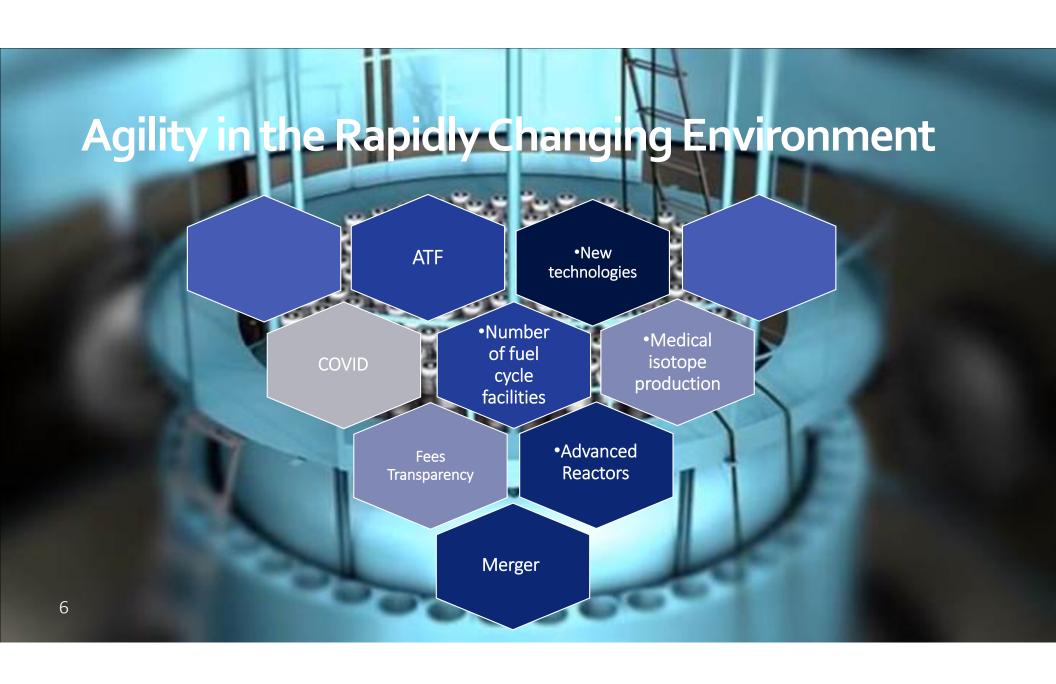
Using data to assist in informed decision making



Focusing on diversity and inclusion by bringing awareness through DIALOGUE and facilitated group discussions.



Christopher Regan
Acting Director, Division of Fuel Management



## Safely Licensing New Technologies



ATF, advanced reactor fuel, medical isotope applications



Referencing strong, performance based, flexible regulatory framework



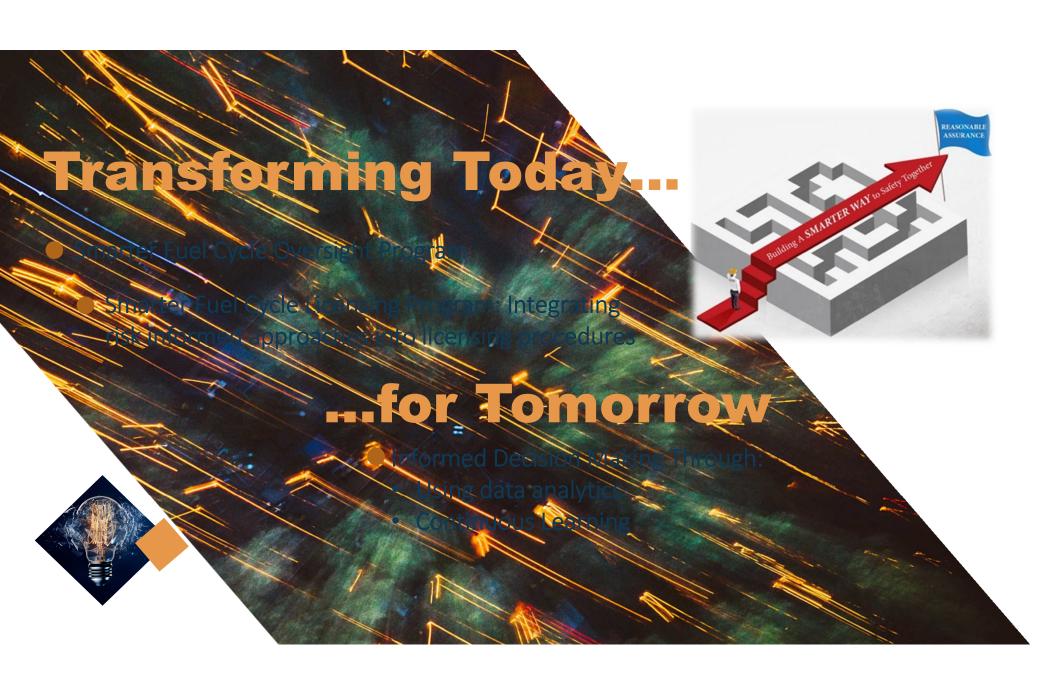
Utilizing Operating Experience and technical expertise



Leveraging partnerships



Proactively communicating with stakeholders





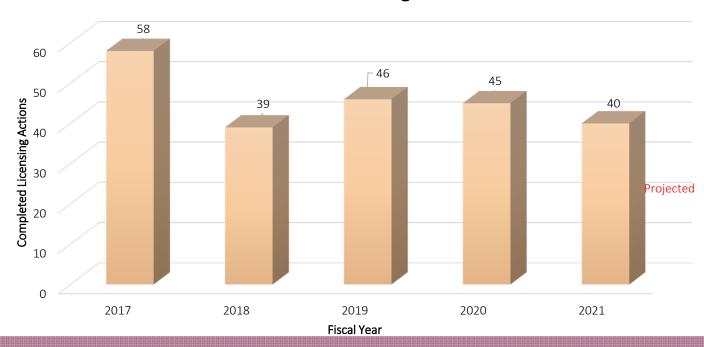


James Downs

Senior Project Manager, Fuel Facilities Licensing Branch,

**NMSS** 

#### **Number of Licensing Actions**



Continuing to Safely License Fuel Facilities

### Innovation in our Daily Work

- Innovative Licensing Processes
- Innovative Stakeholder Communications
- Infrastructure Enhancements and Process Streamlining





Larry Harris
Senior Resident Inspector, Region II

### Successful Implementation of the Oversight Program at Fuel Facilities



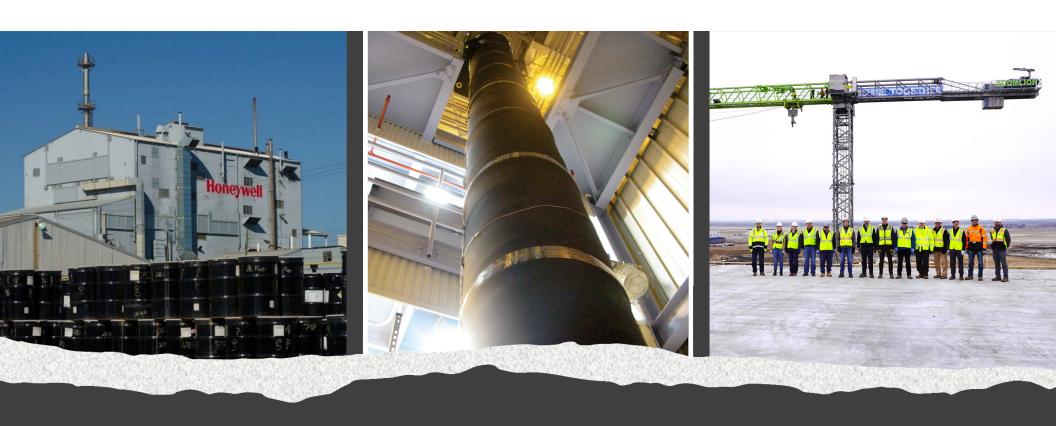


STAKEHOLDER ENGAGEMENT



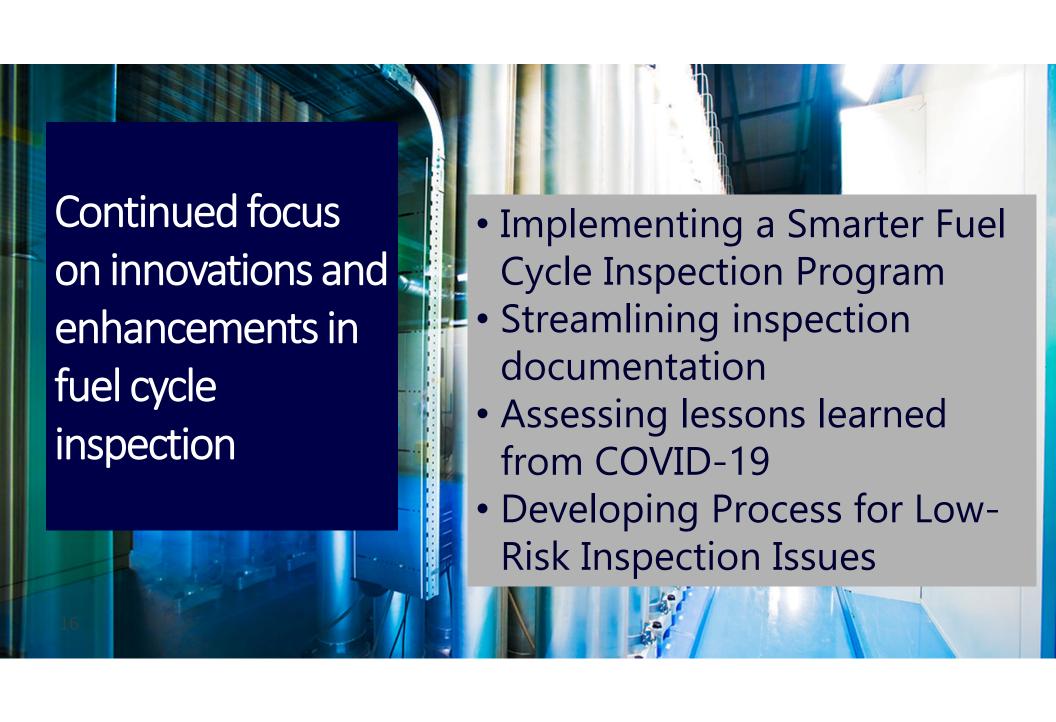
APPLICATION OF RISK INFORMED DECISION MAKING





Proactively preparing for the oversight of existing facilities and new innovations in technology

Honeywell Metropolis Works Centrus - American Centrifuge SHINE Medical Technologies







Knowledge management and cross training



Preparing to take on new inspections for classified equipment



Material Control & Accounting enhancements



Diversity & Inclusion



Senior Program Manager, Office of Nuclear Security
And Incident Response

# Continuing to Support Licensing and Oversight

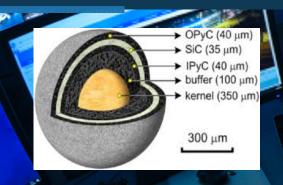
 Holistic assessment of the fuel cycle facility security inspection program to improve effectiveness and efficiency

- The complexity and diversity of fuel facility reviews requires NRC's licensing framework to be flexible and adaptable.
  - Honeywell conversion facility
  - Global Laser Enrichment
  - Authorization of classified networks at enrichment facilities

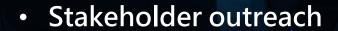


#### **Preparing for the Future**

New types of licensees and materials require appropriate focus of NRC's security program



- Category II Security Requirements
  - Medical isotopes facilities
  - Accident tolerant fuel
  - HALEU fuel facilities



- Pre-licensing engagement
- Interagency consultation



### Continuing to Lead Internationally

- Advocating for an appropriate regulatory structure for the security of SNM and radiation sources
  - Bilateral physical protection assessment visits
  - International Atomic Energy Agency Nuclear Security Series development
    - Potential Revisions to Nuclear Security
       Recommendations on Physical Protection of
       Nuclear Material and Nuclear Facilities (INFCIRC
       225 Revision 5)
  - Review conference for Convention on the Physical Protection of Nuclear Material and its Amendment

### FUEL FACILITES AND SPENT FUEL STORAGE AND TRANSPORTATION BUSINESS LINE BRIEFING

COMMISSION MEETING MAY 25, 2021





Deputy Executive Director for Materials, Waste, Research, State, Tribal, Compliance, Administration and Human Capital Programs



John Lubinski

Director, Office of Nuclear Material Safety and Safeguards



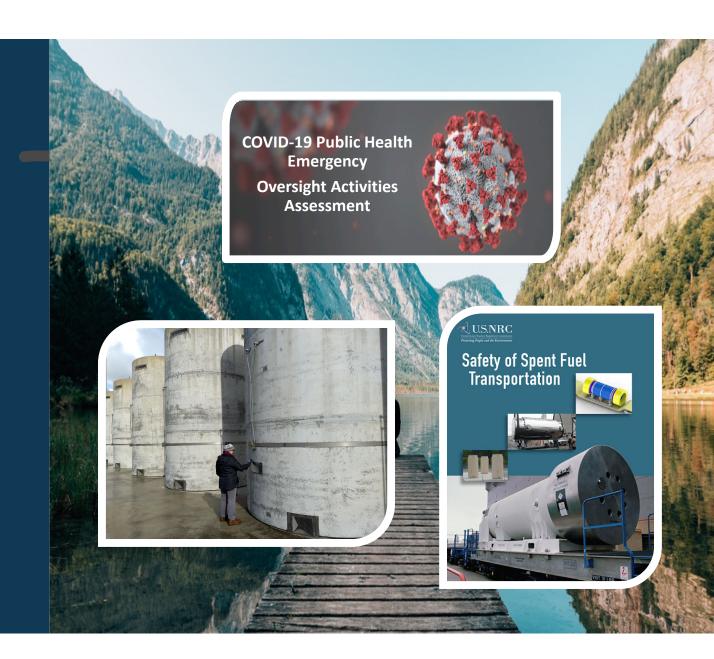
#### Spent Fuel Storage And Transportation Current Licensing and Oversight Environment

Yoira Diaz Sanabria

Acting Deputy Director, Division of Fuel Management

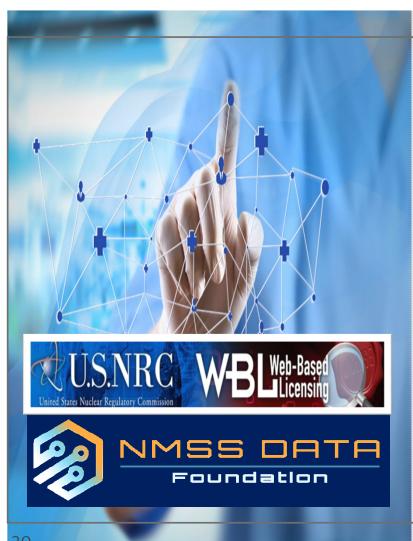


Effectively
Adapting to
the Changing
Landscape



#### Framing Our Regulatory Decisions





Using Technology to Innovate Our Program



Jose Cuadrado Project Manager, Spent Fuel Licensing Branch, NMSS

### Continuing to ensure safety through successful implementation of licensing and rulemaking activities

- Completed 69 licensing actions for storage and transportation.
- Supported the safety of workers at spent fuel storage sites during the pandemic.
- Support the deployment of accident tolerant fuel through transport package approvals.
- Support the transfer of spent fuel to dry storage at decommissioned sites.
- Ensured compatibility of transportation regulatory framework transportation with international standards (10 CFR Part 71 Harmonization Rule)
- Substantial Progress in CISF Licensing Reviews







Allan Barker Regional State Liaison Officer, Region III

#### Outreach Communications on Spent Nuclear Fuel



Integrating with Agency's SNF program





Outreach applicable to all audiences



Field work importance



Future preparations of outreach



#### RSLO State Outreach

In accordance with program guidance

- Regional Administrator's expectations
- SL-100
- RSLO program
- Governor-appointed State Liaison Officers

#### Regional State Liaison Outreach



#### **RSLO Tribal Outreach**

In accordance with Tribal Policy Statement

- Commit to learn Tribal protocol
- Focus on listening, extend patience
- Serve Tribal Governments respectfully
- Native American culture extends across generations



### Decade-Plus of Best Practices

- Relationship building through simple deposits.
- When you care relationships can form.
- 12 years of Tribal government outreach power point presentation never used.
- Be proactive to serve not reactive to address.
- What does success look like?
- Capture next decade of best practices.





Jessie Quintero Chief, Environmental Review Materials Branch

#### **Key Messages**



The Environmental Center of Expertise (ECOE) has been successfully operating and has accomplished a significant amount of mission-related work.



The EnvCOE continues to innovate and transform through consolidation and staff-initiated efforts.



Outreach and engagement remains an important aspect of the environmental review process and the ECOE continues to adjust our approaches based on COVID.

#### **Innovation and Transformation**

#### The ECOE continues to look for ways to improve its processes and documents.

#### Environmental Toolbox

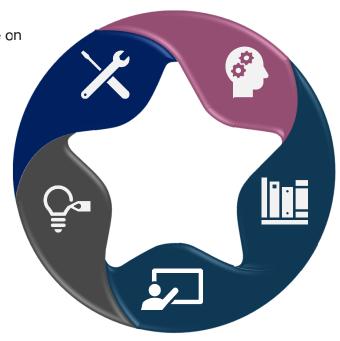
"Living" Sharepoint site with guidance on environmental reviews and consultations.

#### > NEPA Handbook

"Static" document that provides an overview of environmental reviews at the NRC.

#### ConsolidatedQualification Program

General and role- and resourcespecific training modules



#### > Transformation Team

Staff-initiated effort to improve review process

#### > Rulemakings

Staff-initiated rulemakings on 10 CFR Part 51 regulations



#### Public Engagement and Outreach in NEPA

Engaging with affected communities, Tribes, and the general public is an essential

part of the NRC's environmental review process.



NEPA public meetings



Consultation

Tribal



Environmental
Justice

### FUEL FACILITES AND SPENT FUEL STORAGE AND TRANSPORTATION BUSINESS LINE BRIEFING

COMMISSION MEETING MAY 25, 2021

