



# **Spent Fuel Storage and Transportation Business Line Briefing**

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# **Spent Fuel Storage and Transportation Business Line**

**Cathy Haney, Director  
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# Purpose

- **Provide the Commission with a strategic look at the Spent Fuel Storage and Transportation Business Line**



# Agenda

- **Strategic Goals**
- **Business Line Priorities**
- **Product Lines**
- **Our Focus**

# **Strategic Goals**

- **Ensure regulatory effectiveness in a dynamic environment**
- **Flexibility to respond to evolving national policy for disposal**
- **Continue outreach and engagement with stakeholders**
- **Strengthen organizational excellence**

# Business Line Priorities

- **Safety and security of storage and transport operations**
- **Waste Confidence**
- **Evolving national policy for disposal**

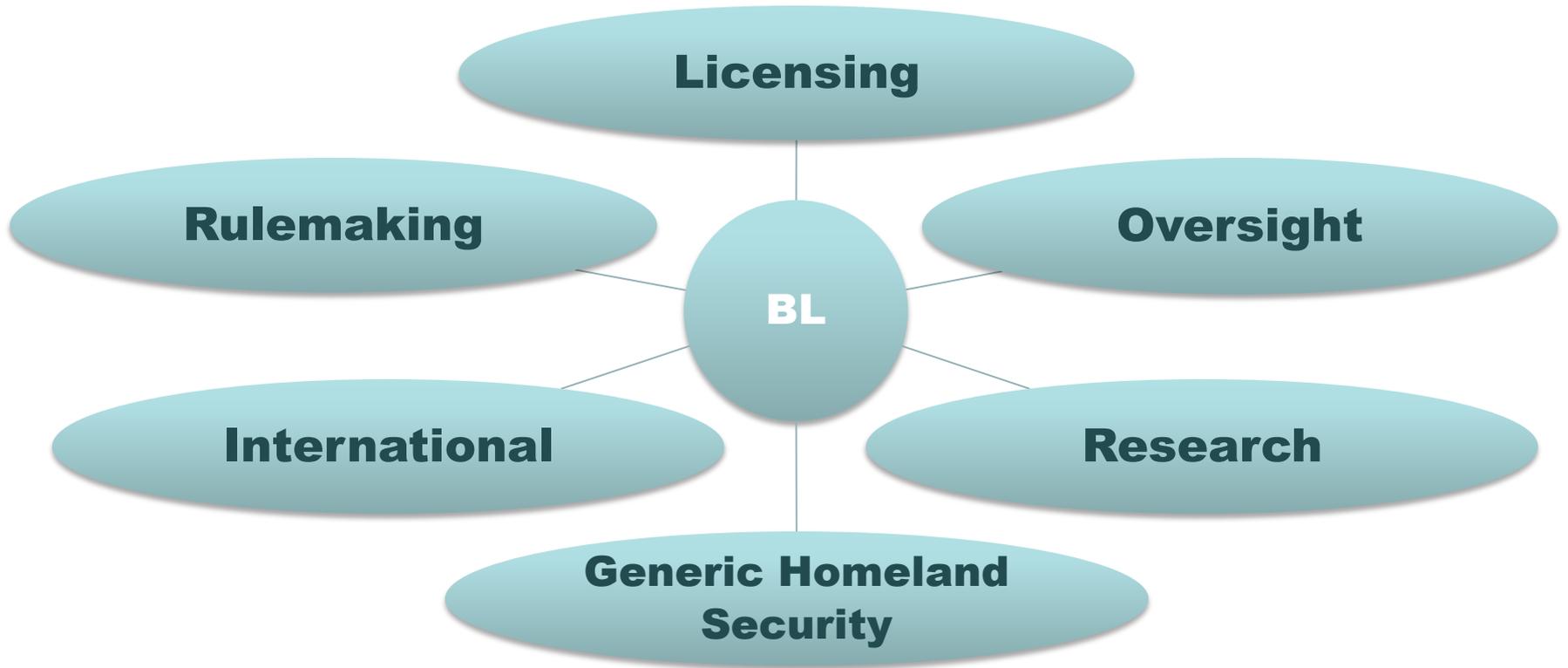


Transportation Package



Dry Storage at Surry

# Product Lines



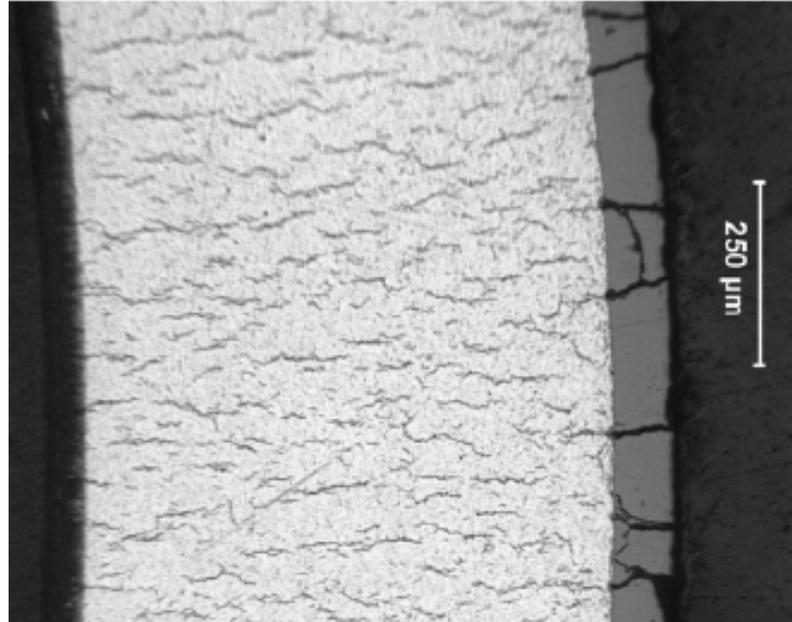
# Licensing

- **Accomplishments**
- **Licensing Program Improvements**
- **Technical Challenges**
- **Policy Issues**



# Licensing (continued)

- **High Burnup Fuel**



Microscopic View of Fuel Clad Hydrides

# Oversight

- **Accomplishments**
  - **Inspection enhancement initiative**
  - **Operating experience**



Inspector examines  
fuel cask neutron  
poison plates

# Oversight (continued)

- **ISFSI Inspector Training**



Region III and SFST staff at cask loading inspection

# International

- **Ongoing Activities**
  - **Storage**
  - **Transportation**
  - **Disposal**



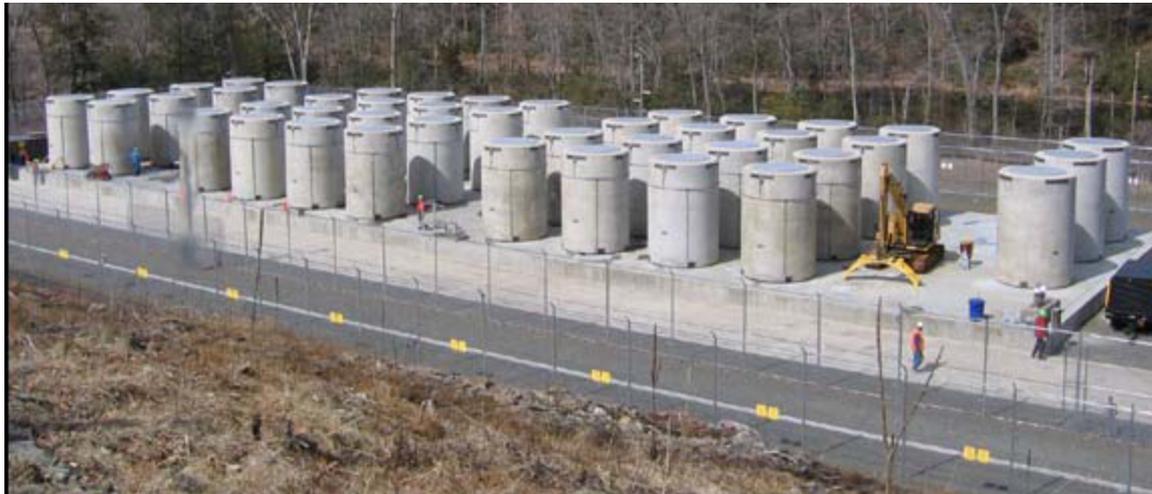
# Rulemaking

- **Accomplishments**
- **Ongoing Activities**
  - **Waste Confidence**
  - **Part 71 harmonization with IAEA**
  - **Part 72 NEI petition**



# Rulemaking (continued)

- **ISFSI Security Rulemaking**



Connecticut Yankee ISFSI

# Research

- **Accomplishments**
- **Ongoing Activities**
  - **High burnup fuel**
  - **Disposal**

New rig design for fatigue tests of high burnup fuel



# Research (continued)

- **Extended Storage and Transportation**

Corrosion at Peach Bottom Cask



Cracks in  
Storage  
Module



# **Our Focus**

- **Safety and security of storage and transport operations**
- **Waste Confidence**
- **Extended storage and transportation**
- **Evolving national policy for disposal**

# Acronyms

- **BL – Business Line**
- **IAEA – International Atomic Energy Agency**
- **ISFSI – Independent Spent Fuel Storage Installation**
- **NEI – Nuclear Energy Institute**
- **SFST – Spent Fuel Storage and Transportation**



# **Fuel Facilities Business Line Briefing**

**Cathy Haney, Director**

**Office of Nuclear Material Safety and  
Safeguards**

**October 23, 2012**

# Purpose

- **Provide the Commission with a strategic look at the Fuel Facilities Business Line (BL)**



# Agenda

- **Strategic Goals**
- **Business Line Priorities**
- **Product Lines**
- **Our Focus**

# **Strategic Goals**

- **Ensure regulatory effectiveness in a dynamic environment**
- **Support U.S. Non-Proliferation elements**
- **Continue outreach and engagement with stakeholders**
- **Strengthen organizational excellence**

# Business Line Priorities

- **Safety and security of operating facilities**
- **Effective construction oversight**
- **International obligations**

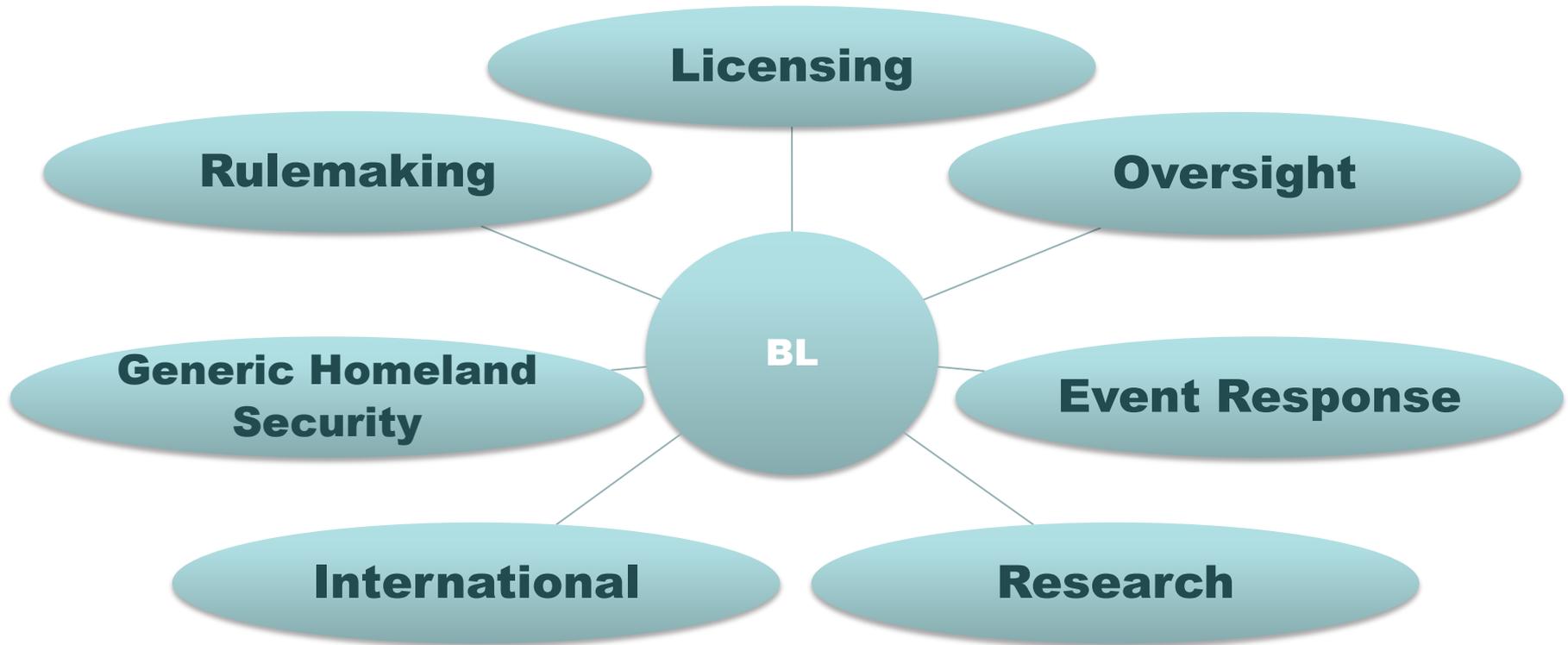


AREVA Richland



Early stages of construction at  
Louisiana Energy Services, NM (2008)

# Product Lines



# Licensing

- **Accomplishments**
  - **New enrichment facility licenses**
  - **New deconversion facility license**
- **Licensing program improvements**



NRC issues license to International Isotopes Fluorine Products Inc. (2012)



NRC issues license to AREVA Eagle Rock Enrichment Facility (2011)

# Oversight

- **Accomplishments**
  - **Post-Fukushima inspections**
- **Focus areas**
  - **Transition from construction to operation**
  - **Oversight program**
- **Policy issues**



NRC Resident Inspector at the  
Mixed Oxide Fuel Fabrication Facility in SC.

# Oversight (continued)



**Columbia Fuel Fabrication Facility**



**Region II Inspector at a Fuel Facility Site**



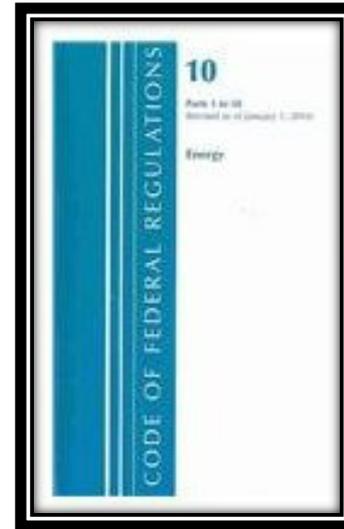
**Temporary Instruction Group Award**



**Global Nuclear Fuel-Americas,  
L.L.C.**

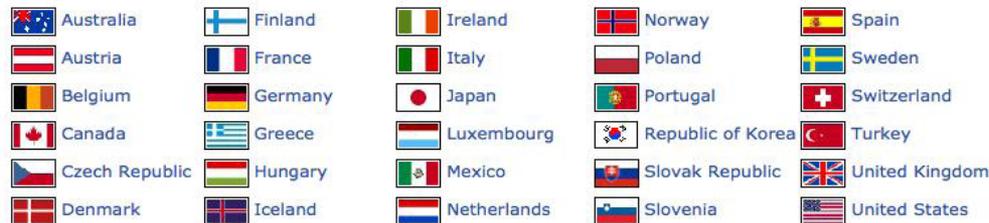
# Rulemaking

- **Accomplishments**
- **Ongoing activities**
  - **Reprocessing**
  - **Security**



# International

- **Support non-proliferation policies**
- **Apply international safeguards at enrichment facilities**
- **Support international cooperation for fuel cycle safety**



# **Our Focus**

- **The safety and security of operating facilities**
- **Effective oversight of facilities under construction**
- **International obligations**

# **Acronyms**

- **BL – Business Line**