



# **Strategic Programmatic Overview of the Nuclear Material Users and the Fuel Facilities Business Lines**

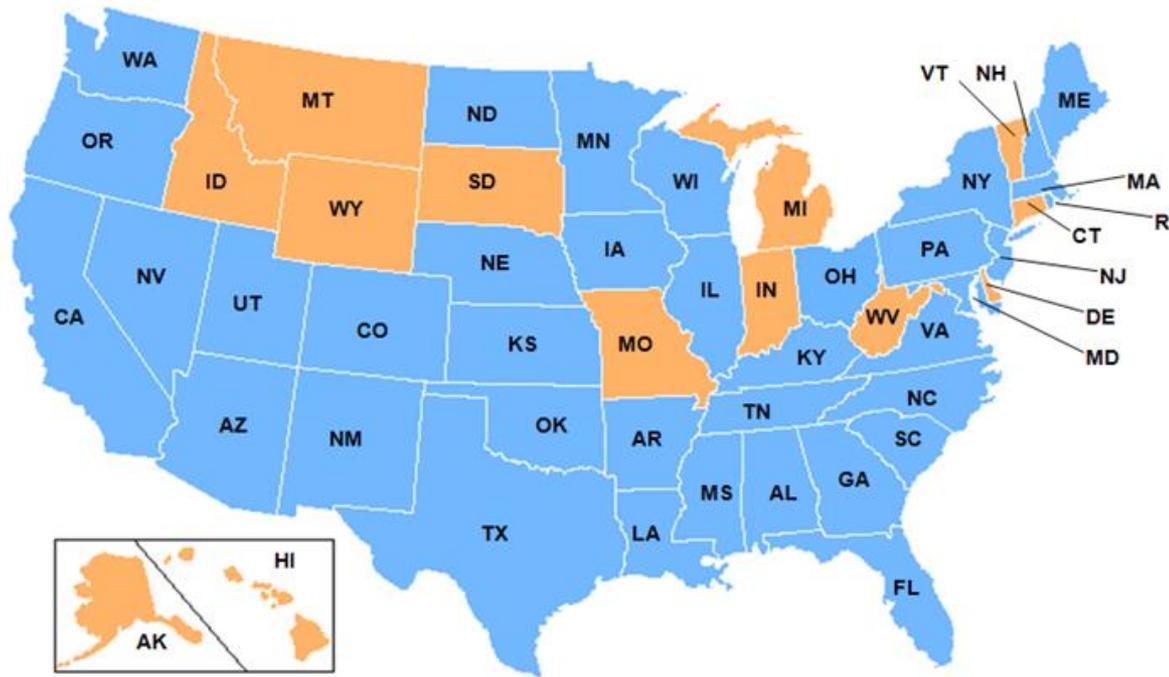
**November 13, 2014**

**Office of Nuclear Material Safety and  
Safeguards (NMSS)**

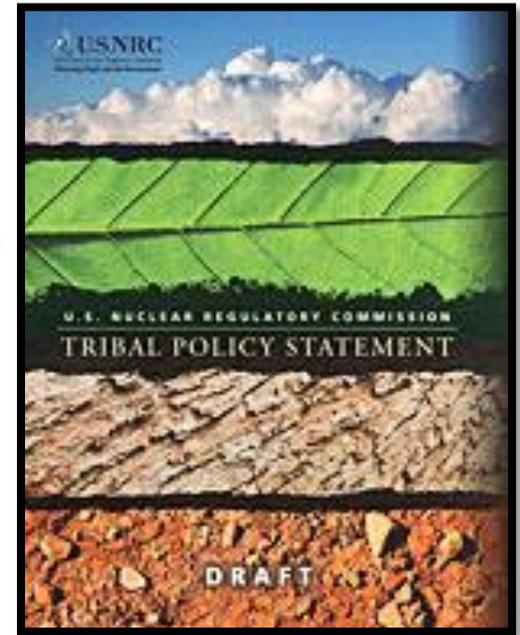
# Presentation Outline

- **Nuclear Material Users Program Overview** (Catherine Haney)
- **Current Activities, Focus Areas, and Future Plans** (Laura Dudes)
- **Regional Licensing and Inspection Program** (Patrick Loudon)
- **Questions**

# Ensuring Safety and Security under the National Materials Program



- Blue square: Agreement States (37)
- Orange square: NRC States (13)

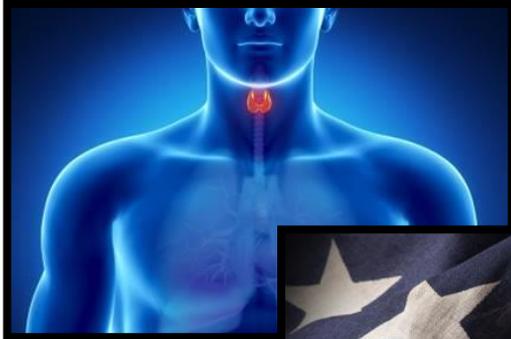


# Maintain Effective Communications and Outreach Activities

- **States**
- **Native American Tribes**
- **Licensees**
- **Advisory Committee on the Medical Uses of Isotopes**
- **Professional Societies and Organizations**



# Focus on Safety and Security, Program Enhancements, and Outreach



- **Licensing and Inspection**
- **Source Security**
- **Patient Release**
- **Agreement State Program**
- **Tribal Liaison**

# **Enhancing Strategic Vision for Implementing the National Materials Program**

- **Safety and Security**
- **New Technologies**
- **Integrated Source  
Management Portfolio**
- **Knowledge  
Management**



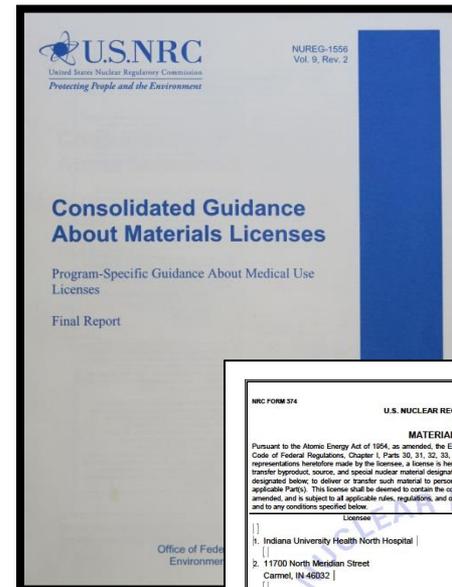
# Verifying Safety and Security through Inspection and Event Response

- **Coordinated Execution of Inspection Program**
- **Coordinated Response to Events**



# Verifying Safety and Security through Licensing

- **Licensing Activities for New Requests**
- **Amendment and Renewal of Existing Licenses**
- **Licensing of New Technologies**



NRC FORM 374 U.S. NUCLEAR REGULATORY COMMISSION PAGE 1 OF 1 PAGES Amendment No. 03

**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 20, 31, 32, 33, 34, 35, 36, 37, 38, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer (product, source, and special nuclear material designated below to use such material for the purpose(s) and at the place(s) designated below, to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Parts). This license shall be deemed to contain the conditions specified in Section 103 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with the letter received February 19, 2014,	
1. Indiana University Health North Hospital		3. License number 13-32602-01 is amended in its entirety to read as follows:	
2. 11700 North Meridian Street Carmel, IN 46032		4. Expiration date November 30, 2015	
		5. Docket No. 030-37059	
		Reference No.:	

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Any byproduct material permitted by 10 CFR 35.100	A. Any	A. As needed
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As needed
C. Any byproduct material permitted by 10 CFR 35.300	C. Any	C. 300 milligrams

9. Authorized use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
- B. Any imaging and localization study permitted by 10 CFR 35.200.
- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.

**CONDITIONS**

10. Licensed material may be used or stored only at the licensee's facilities located at 11700 North Meridian Street, Carmel, Indiana.

11. The Radiation Safety Officer for this license is Robert T. Anger, Jr.

12. Licensed material is only authorized for use by, or under the supervision of:

- A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.

# Continued Focus

- **Inspection and Licensing Consistency**
- **Agreement State Program Support**
- **Maintain Critical Skill Competency**
- **Knowledge Management**



# **Strategic Programmatic Overview of the Fuel Facilities Business Line**

**Mark Satorius  
Executive Director**

# Presentation Outline

- **Fuel Facilities Program Overview and Activities** (Marissa Bailey)
- **Fuel Facilities Oversight** (Anthony Gody)
- **Cyber Security** (Barry Westreich)
- **Future Plans** (Catherine Haney)
- **Questions**

# **Focusing Priorities on the NRC Mission**

- **Ensure safety, security, and environmental protection**
- **Support U.S. non-proliferation activities**
- **Communicate effectively with stakeholders**



# Ensuring Safety and Security with our Regulatory Actions

Honeywell



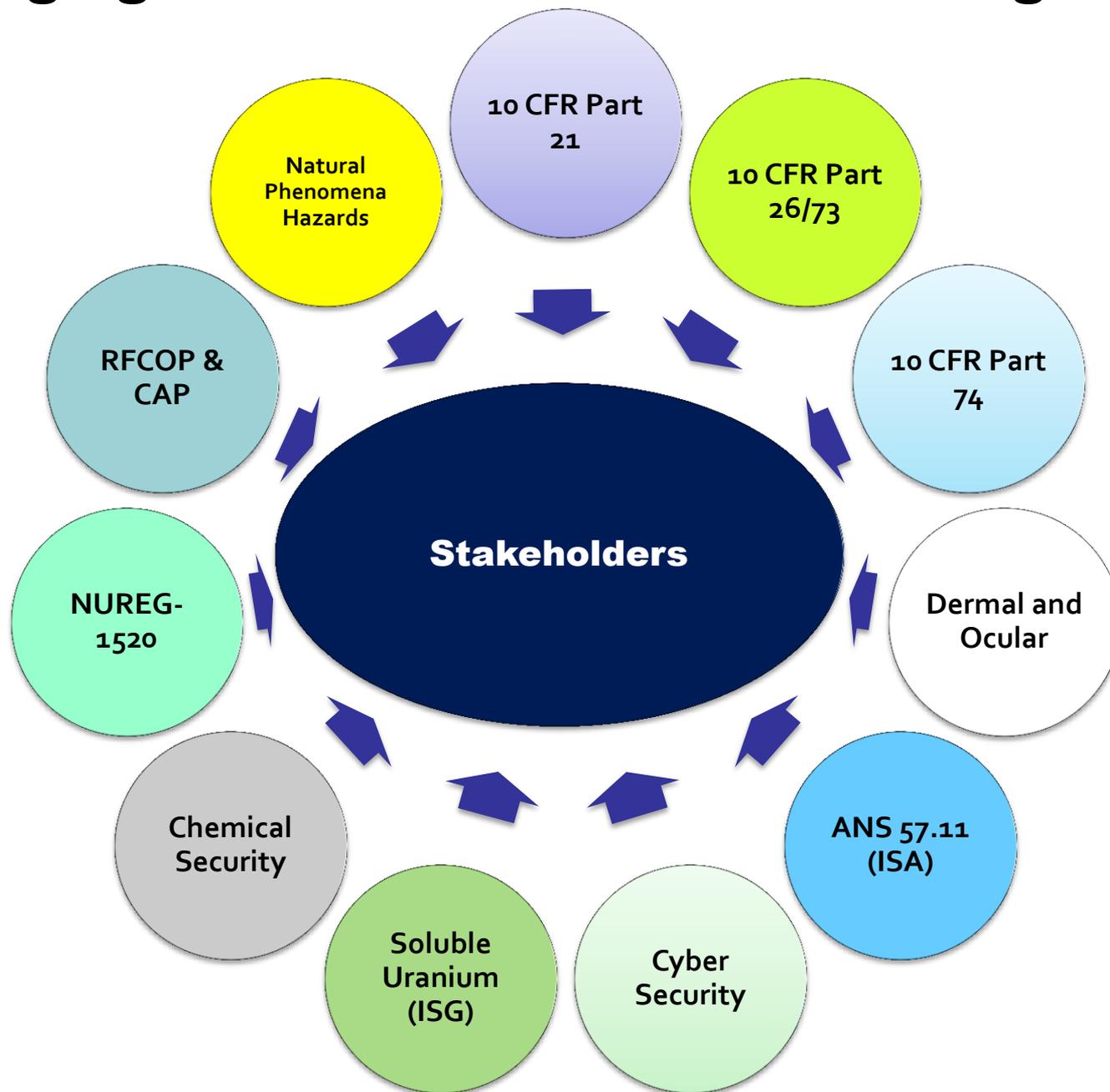
Paducah Gaseous Diffusion Plant



URENCO USA



# Managing the Cumulative Effects of Regulation



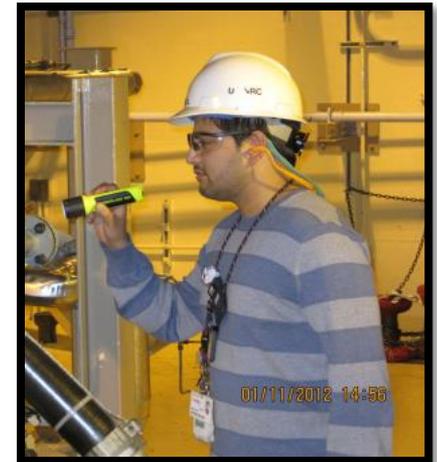
# Ensuring Safety and Security Through Oversight

- **Facility Design**
- **Safety Culture**
- **Material Control and Accounting**
- **Problem Identification and Resolution**
- **Items Relied on for Safety**
- **Information Security**



# Maintaining an Agile, High-Quality Oversight Program

- **Broadening inspector skills and qualifications**
- **Defining clear program roles and responsibilities**
- **Managing the inspection program and human resources**



# Continuously Improving the Oversight Program

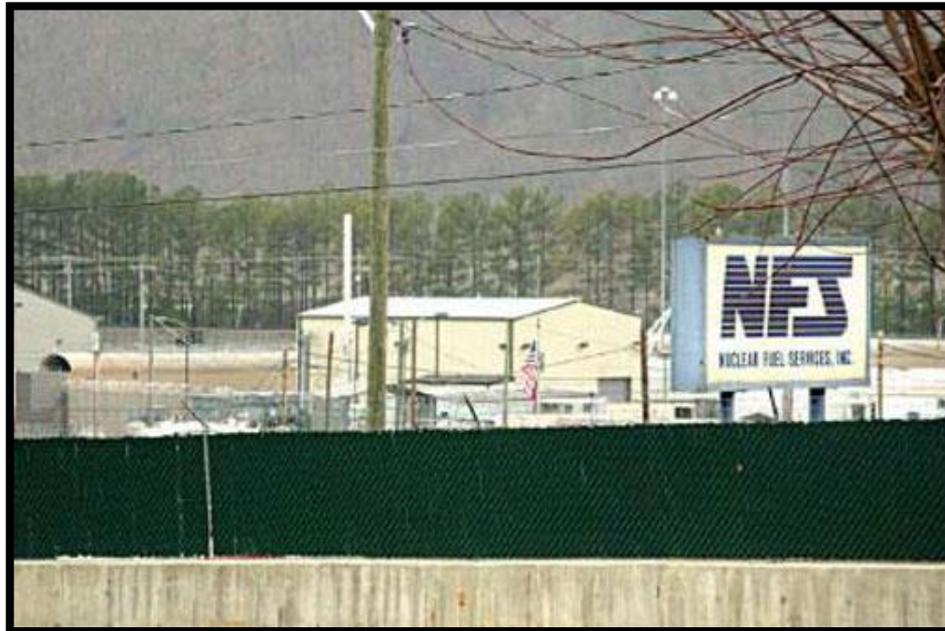
- **Use of risk insights**
- **Corrective action program industry standard**
- **Revised Fuel Cycle Oversight Program**



Wilmington, NC

# Assessing the Cyber Security Threat

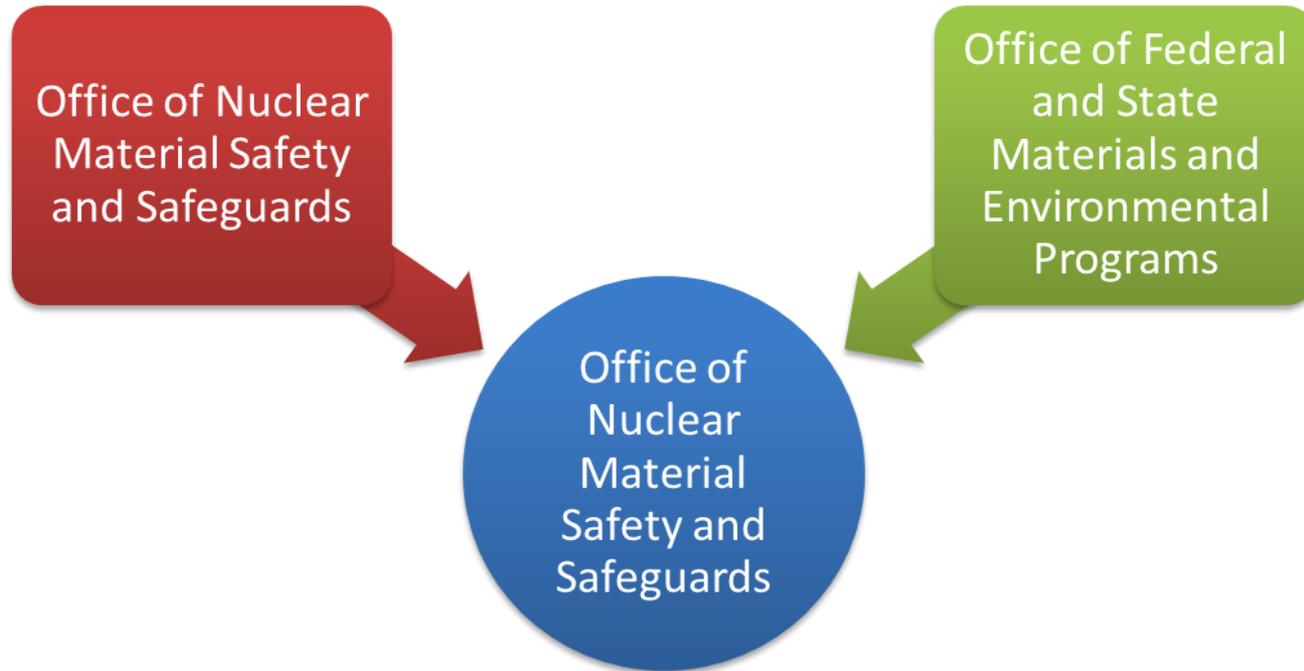
- **National Cyber Threat Estimate**
- **Increased Threats to Industrial Control Systems**



# **Evaluating an Effective Cyber Security Program**

- **Cyber Roadmap, SECY-12-088**
- **Staff Proposed Cyber Security Program**
- **Industry Voluntary Program**
- **Fuel Cycle Working Group Activities**
- **Commission Paper**

# Enhancing the Program Infrastructure



- **NMSS and FSME merge**
- **Alignment of inspection resources**

# Continuing to Fulfill International Obligations

- **International counterparts**
- **Non-proliferation policies**
- **Facilitate current International Atomic Energy Agency (IAEA) safeguards activities**



# QUESTIONS