



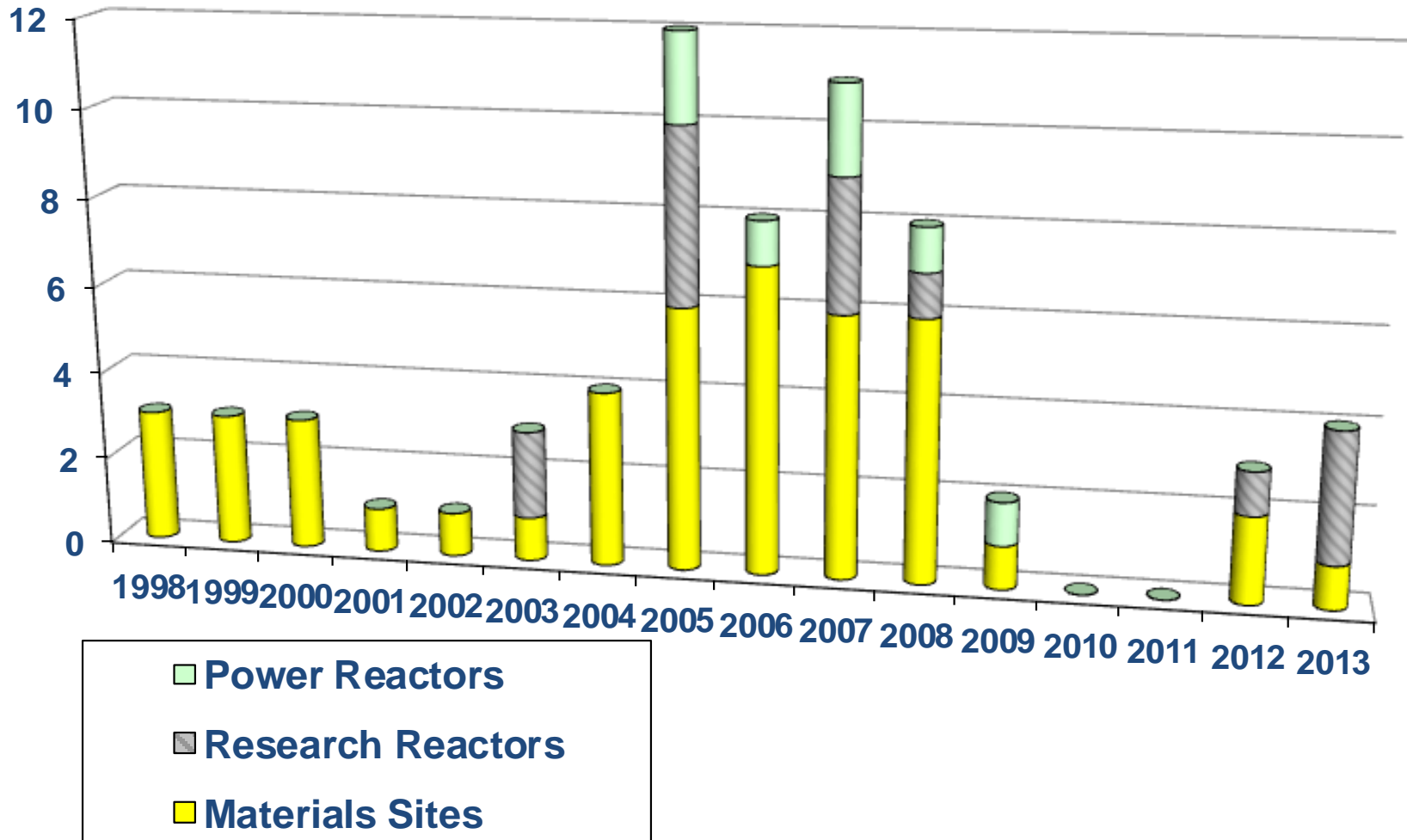
Commission Briefing on Nuclear Power Plant Decommissioning

July 15, 2014

Mark Satorius

**Executive Director for Operations
U.S. Nuclear Regulatory Commission**

NRC Staff Has Significant Decommissioning Experience



Staff is Managing Increased Decommissioning Activity

- **Consolidated decommissioning project management branch in NRR**
- **Multi-office decommissioning transition working group**
- **Review and inspection guidance changes for decommissioning**
- **Identifying issues for a future potential rulemaking activity**



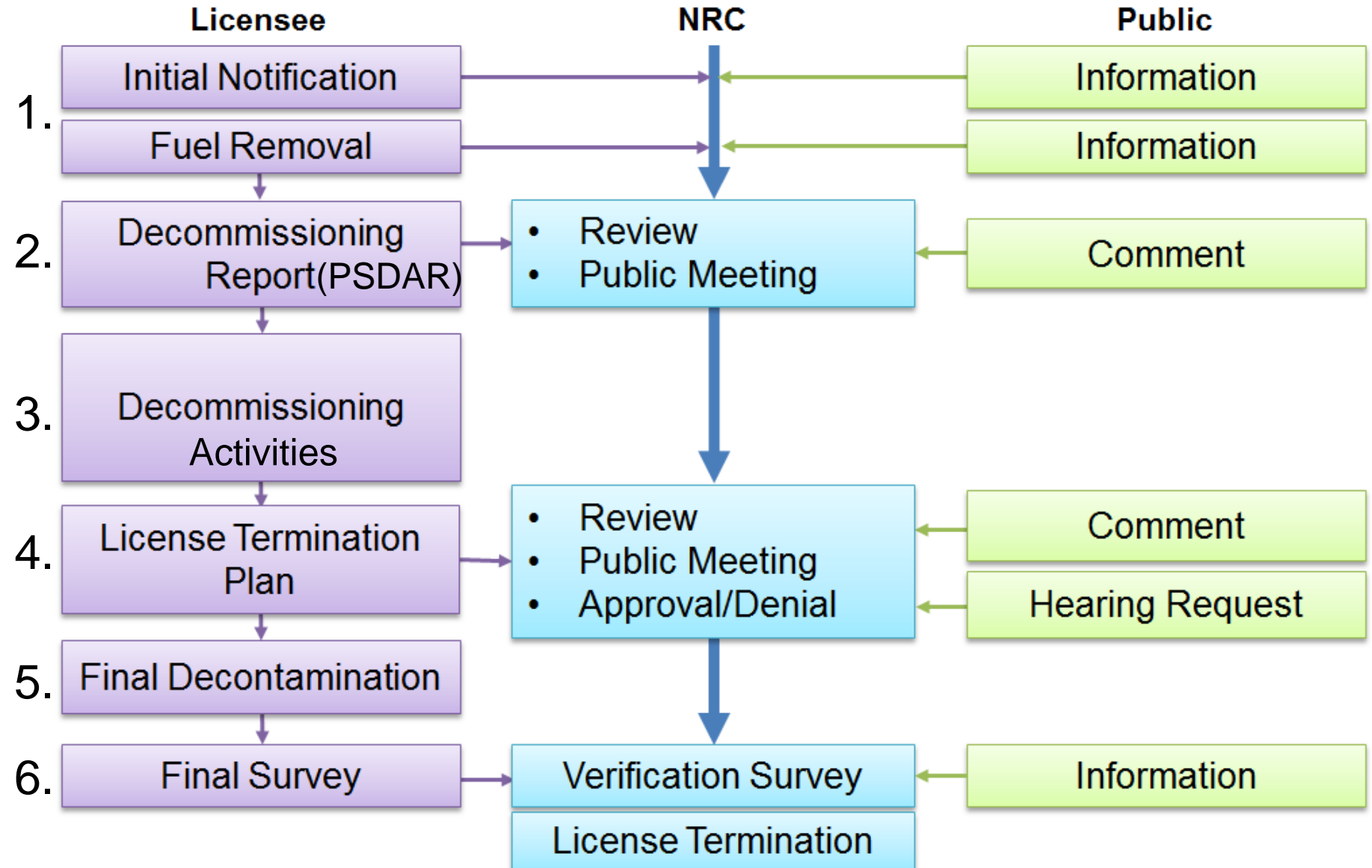
The Decommissioning Process and Improvements from Past Activities

Andrew Persinko

**Deputy Director, Division of Waste
Management and Environmental
Protection**

**Office of Federal and State Materials and
Environmental Management Programs**

Reactor Decommissioning Process



Connecticut Yankee



Maine Yankee



Big Rock Point



Numerous Decommissioning Power Reactors Are Being Managed

- **3 units in active decommissioning**
- **10 units in SAFSTOR, primarily at multi-unit operating sites**
- **4 units began the transition to decommissioning in 2013**
- **1 additional unit plans to shutdown by the end of 2014**

Process Improvements Based on Decommissioning Lessons Learned

- **Captured in NUREG-1628, “Decommissioning FAQs”**
- **Implement guidance updates**
- **Maintain communications throughout decommissioning**
- **Encourage community involvement**

FSME Maintains a Role During the Transition from Operation to Decommissioning

- **Interface with public and stakeholders**
 - ✓ **Public Meetings**
 - ✓ **Congressional Briefings**
 - ✓ **State and Local Governments**
- **Support NRR, NSIR, and other offices**



Transitioning Process

Louise Lund

**Deputy Director, Division of Operating
Reactor Licensing
Office of Nuclear Reactor Regulation**

Transitioning – A Well Traveled Path

- **Kewaunee is first plant – focus on developing templates to maintain high quality safety evaluations**
- **Few automatic processes exist for license changes when a plant decides to shut down**
- **Staff applies transitioning process used for previously decommissioned plants, updating it for recent regulatory changes**

Normal Licensing Process Used

- **Significant progress on licensing actions for first plant**
- **Licensing actions include: amendments, exemptions, order rescissions, etc.**
- **Specific exemptions – for emergency preparedness, part that is exempted “not necessary to achieve underlying purpose of rule”**

Future Reviews Build on Present Ones

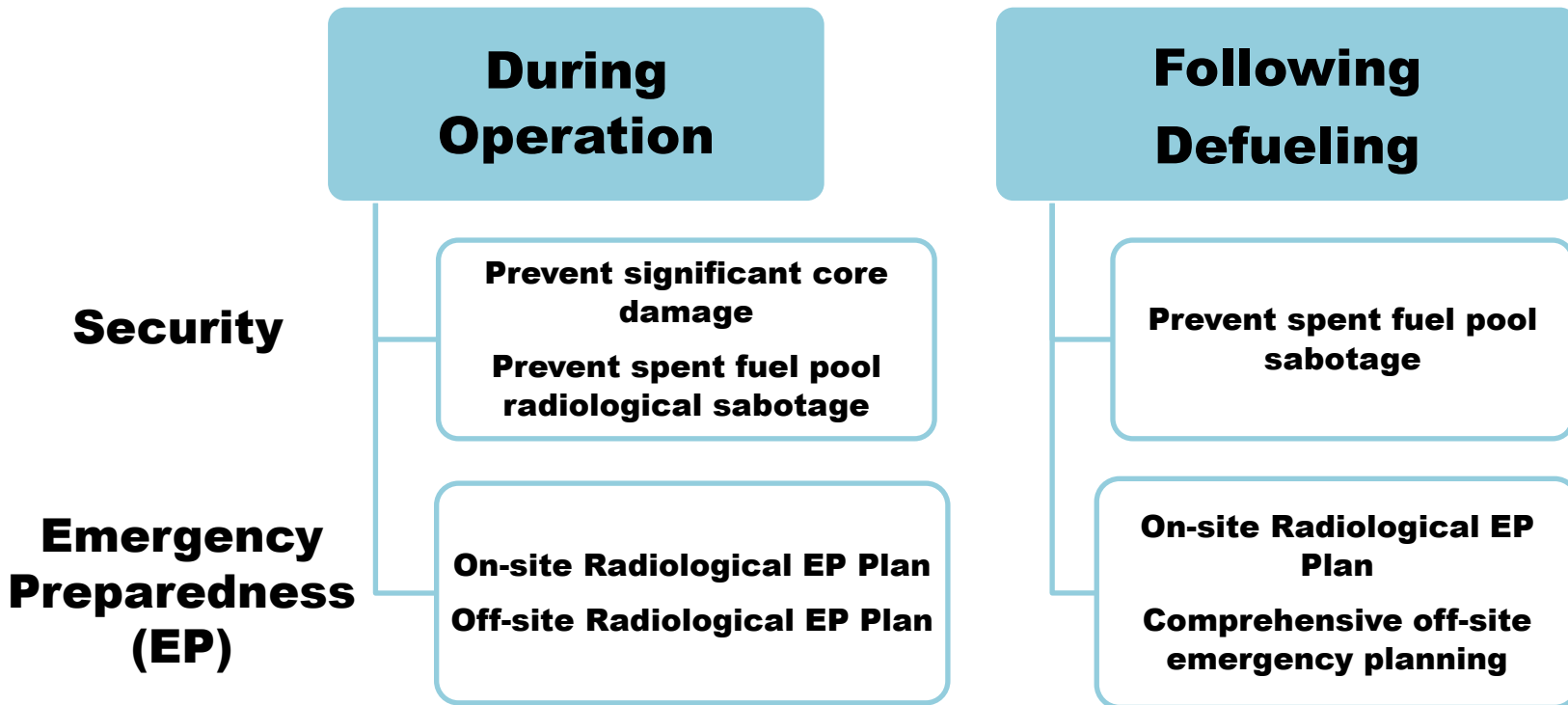
- **Current reviews used to develop guidance, templates, staff positions, lessons learned**
- **Integrated rulemaking proposed in 2000 – events of 9/11 led to withdrawal from list**
- **Staff has put placeholder on Common Prioritization of Rulemaking list – Medium Priority**



Security and Emergency Preparedness Issues During Decommissioning

Mark Thaggard
**Deputy Director, Division of Security
Policy**
**Office of Nuclear Security and
Incident Response**

Programs Reduced in Scope, Overall Effectiveness Maintained



Changes to Security Strategy Carefully Reviewed

- **Staff reviews cover a range of issues**
- **Integrated assessment of overall security strategy is important**



Emergency Preparedness Requirements are Commensurate with Risk

- **On-site EP program will be maintained**
- **Offsite coordination maintained**
- **Formal offsite EP plans not required**
- **Highest classification is an “ALERT”**
- **Effective security program is required to be maintained**

Staff Guidance Under Development Will Improve Future Reviews

- **EP Interim Staff Guidance**
 - **Basis is current actions and past precedent**
 - **Significant public feedback**
- **Security Interim Staff Guidance**
 - **Early in development stage**
 - **Lack of precedent**



Decommissioning Inspection Discussion and Issues

Robert Orlikowski

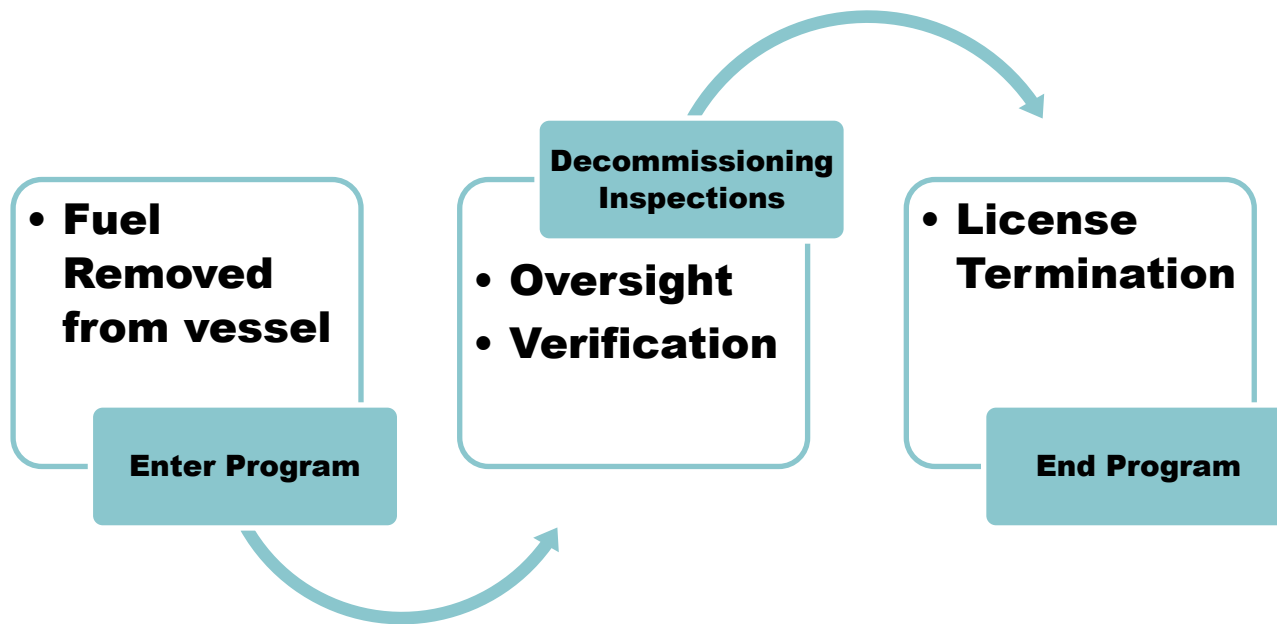
**Chief, Materials Control, ISFSI, and
Decommissioning Branch**

Division of Nuclear Material Safety

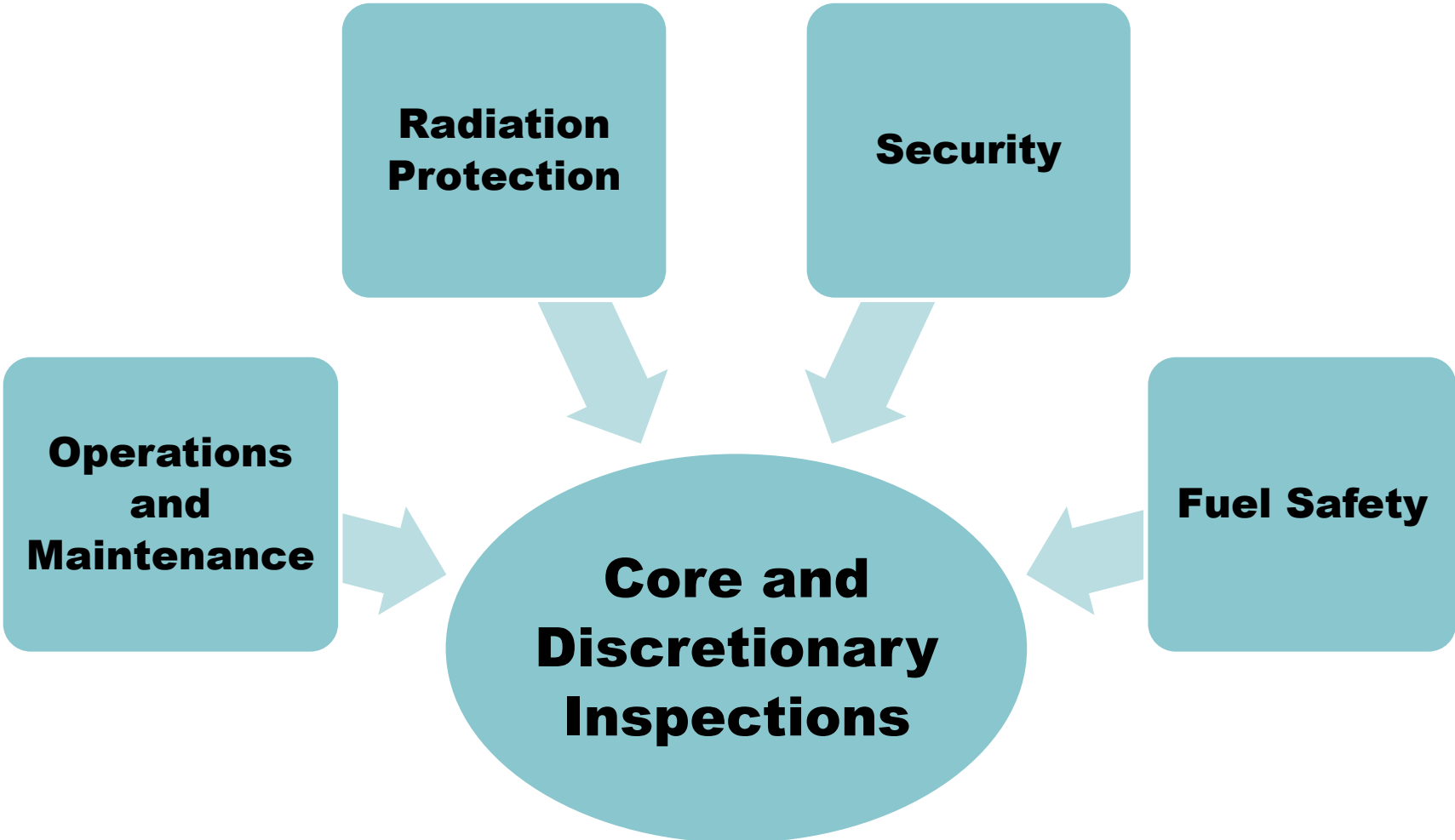
Region III

Inspection Program: Well Defined and Consistent

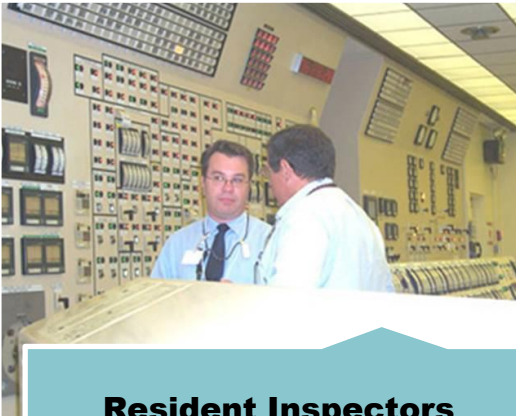
Process is outlined in Inspection Manual Chapter 2561



Comprehensive Inspections



Inspector **ENGAGEMENT** with Focus on **SAFETY** and **SECURITY**



**Resident Inspectors
typically remain onsite for
6 to 12 months**



'Boots on the Ground'



**Maintain Communication
with Licensee,
Government Officials,
and Members of the
Public**

Acronyms

- **NRC – U.S. Nuclear Regulatory Commission**
- **NRR – Office of Nuclear Reactor Regulation**
- **PSDAR – Post Shutdown Decommissioning Activities Report**
- **NSIR – Office of Nuclear Security and Incident Response**
- **EP – Emergency Preparedness**