



*Protecting People and
the Environment*

U.S. Nuclear Regulatory Commission

Category 1 Meeting:
Mixed Oxide Fuel
Fabrication Facility
Docket No. 70-3098
February 1, 2007



Purpose

- To discuss items of mutual interest, including the NRC construction inspection organization, Shaw AREVA MOX Services organizational changes, the MOX FFF project status, and planned activities.
- This is a ***Category 1*** meeting.
- The public is invited to observe this meeting and will have one or more opportunities to communicate with the NRC after the business portion, but before the meeting is adjourned.



Introductions

- Nuclear Regulatory Commission
- Shaw AREVA MOX Services
- Department of Energy
- Members of the Public

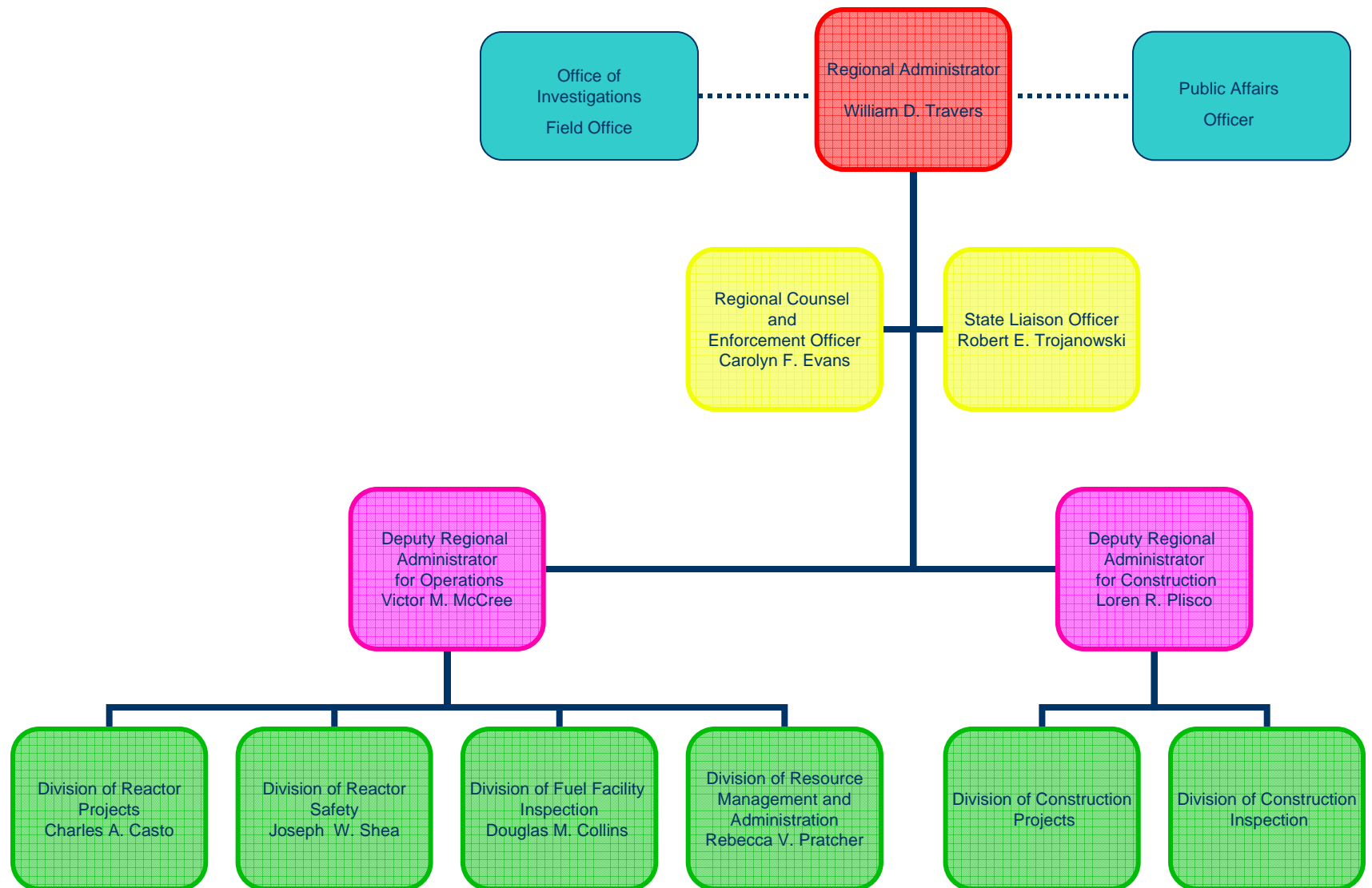


Meeting Agenda

- NRC:
 - Introductions and Opening Remarks
 - Organizational Changes
 - Construction Inspection Program
- Shaw AREVA MOX Services:
 - Organizational Changes
 - U.S. Plutonium Disposition Update
 - MOX FFF Project Status
 - Planned Activities
- Closing Remarks
- Questions and Answers

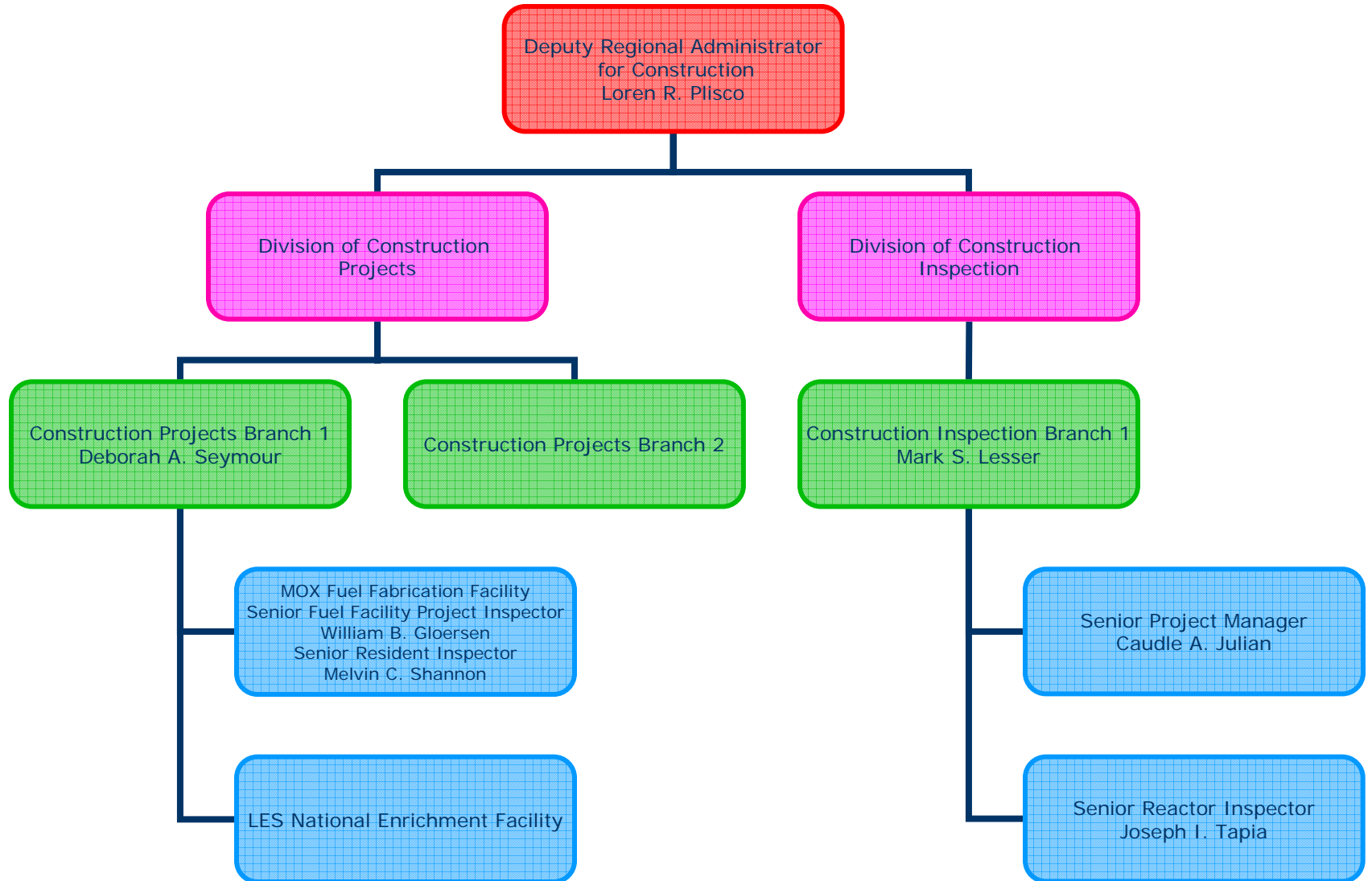


Region II Organization





Region II Construction Organization





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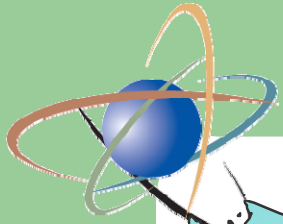
US Fuel Cycle Facility Inspection Process

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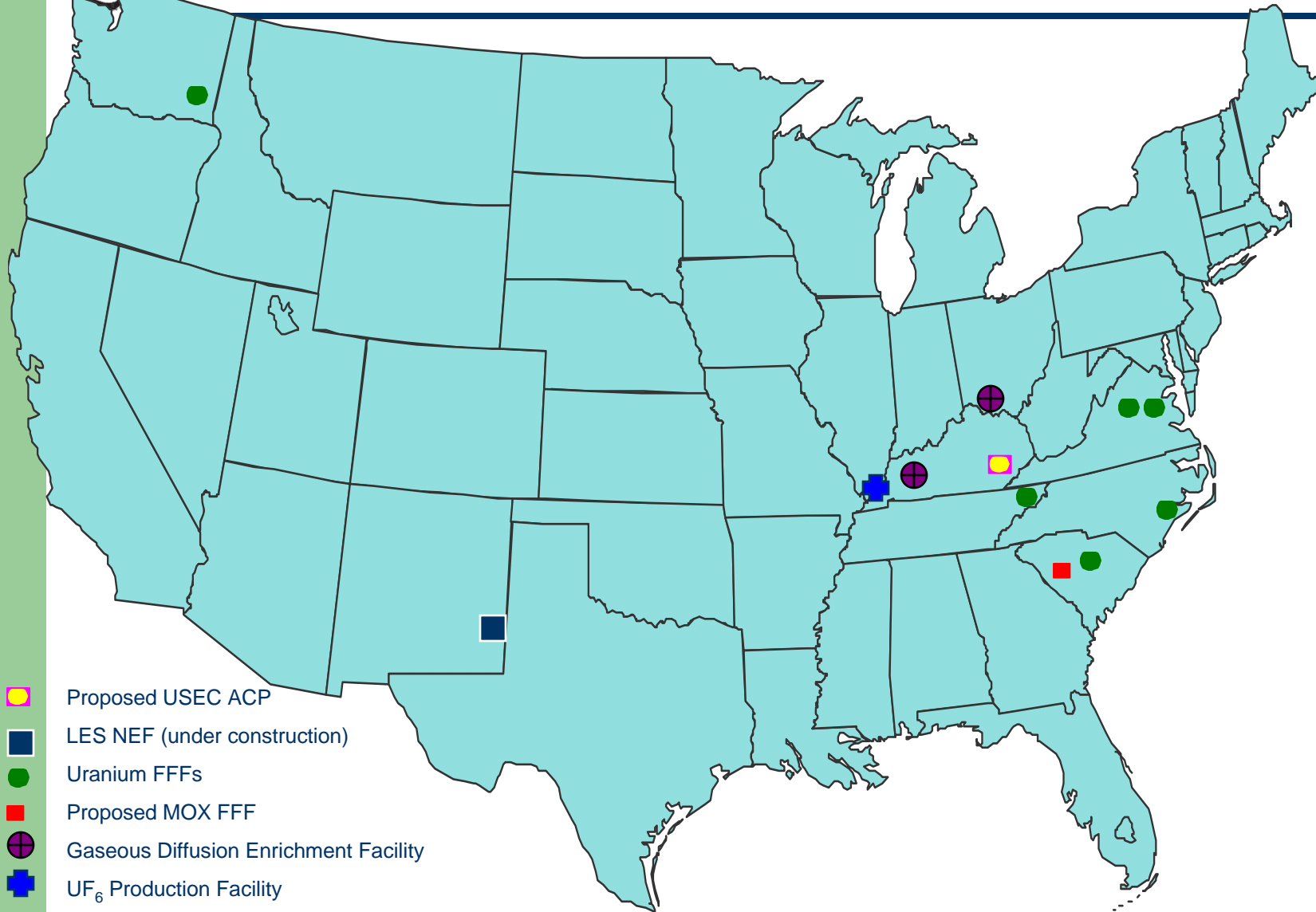


U.S. Fuel Cycle Facilities

- Ten facilities currently licensed for operation (including LES National Enrichment Facility currently under construction)
- Two additional facilities planning construction (MOX FFF, USEC American Centrifuge Project)
- Facilities undergoing full decommissioning are not included



U.S. Fuel Cycle Facilities



- Proposed USEC ACP
- LES NEF (under construction)
- Uranium FFFs
- Proposed MOX FFF
- Gaseous Diffusion Enrichment Facility
- UF₆ Production Facility



U.S. Fuel Cycle Facilities

Licensee	Location
Uranium Fuel Fabrication Facilities	
Global Nuclear Fuel-Americas, LLC	Wilmington, North Carolina
Westinghouse Electric Company, LLC	Columbia, South Carolina
Nuclear Fuel Services, Inc.	Erwin, Tennessee
Framatome ANP, Inc.	Lynchburg, Virginia
BWX Technologies, Inc.	Lynchburg, Virginia
Framatome ANP, Inc.	Richland, Washington
MOX FFF at the Savannah River Site (certificate holder)	
Uranium Hexafluoride Production (Conversion) Facility	
Honeywell International, Inc.	Metropolis, Illinois
Enrichment Facilities	
U.S. Enrichment Corporation/ USEC Inc.	Paducah, Kentucky and Piketon, Ohio (2 GDPs) / The Lead Cascade and the ACP
LES National Enrichment Facility	Under construction in Eunice, New Mexico



Construction Inspection Program

- Two-Phased Approach
 - Construction Inspection Activities
 - Includes design control and verification
 - Pre-Operational Inspection Activities
 - Operational Readiness Reviews
- On-Site Resident Inspector at the MOX FFF



Construction Inspection Activities

- Verify implementation of quality assurance program
- Verify construction of principal systems, structures, components, and items relied upon for safety (IROFS)



Construction Inspection Activities

- Inspections of on-site and off-site quality assurance programs
- Component supplier inspections
- Periodic assessments of applicant performance



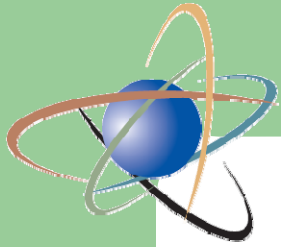
Assessment of Applicant Performance

- The AAP process is described in IMC 2630 and is similar to the Licensee Performance Review process described in IMC 2604
- IMC 2630, “Mixed Oxide Fuel Fabrication Facility Construction Inspection Program” and IMC 2604, “Licensee Performance Review,” can be accessed electronically in the NRC’s document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>,
- NRC reviews applicant performance periodically
- Review is based on inspection results and licensing actions
- Common or recurring problems are identified as “Areas Needing Improvement”
- Category 1 meeting conducted at the facility to discuss the AAP results with the applicant



Construction Inspection Schedule

- Inspections scheduled early in the process of individual construction activities to observe work in progress
- Develop confidence that the specific construction activities have been adequately accomplished at all stages of construction
- Inspection scope and frequencies may be expanded to assure problem areas have been corrected



MOX FFF Construction Inspection Program

Construction Inspections

Construction

- Safety-related foundation work (structural, equipment, & utilities)
- Inspections of structures, systems, and components
- Component supplier inspections
- On-site and Off-site Quality Assurance inspections

Pre-Operation

- Pre-operational testing inspections
- Phased approach Operational Readiness Reviews (ORRs)

Commercial Operation

- Issuance of "no objection" letter based on ORR results
- Implementation of operational inspection program
- Use existing IMC 2600 and revised IPs



Documenting Inspection Results

- Inspection Reports Include:
 - Letter to licensee senior management
 - Notices of Violations (if any)
 - Executive Summary of inspection findings
 - Inspection Details
- Publicly-available inspection reports can be accessed electronically in the NRC's document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.



Other Inspection Activities

- **Reactive Inspections**
 - Performed in response to significant events
 - Inspection scope developed by NRC management
 - Usually involves inspection team
- **Inspecting Allegations**
 - Allegations are claims by workers or public of hidden safety problems
 - Inspectors review claims and determine if claims are true and whether safety is affected
 - Results of inspection communicated to person making allegation claim



Enforcement Actions

- NRC Enforcement Policy provides guidance on assessing significance and severity level of violations
 - Actual safety consequences
 - Potential safety consequences
 - Impact on NRC's ability to perform its regulatory function
 - Intentional violations

The NRC Enforcement Policy is available on the NRC public web site at <http://www.nrc.gov>



Shaw AREVA MOX Services: Presentation and Discussion



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Questions