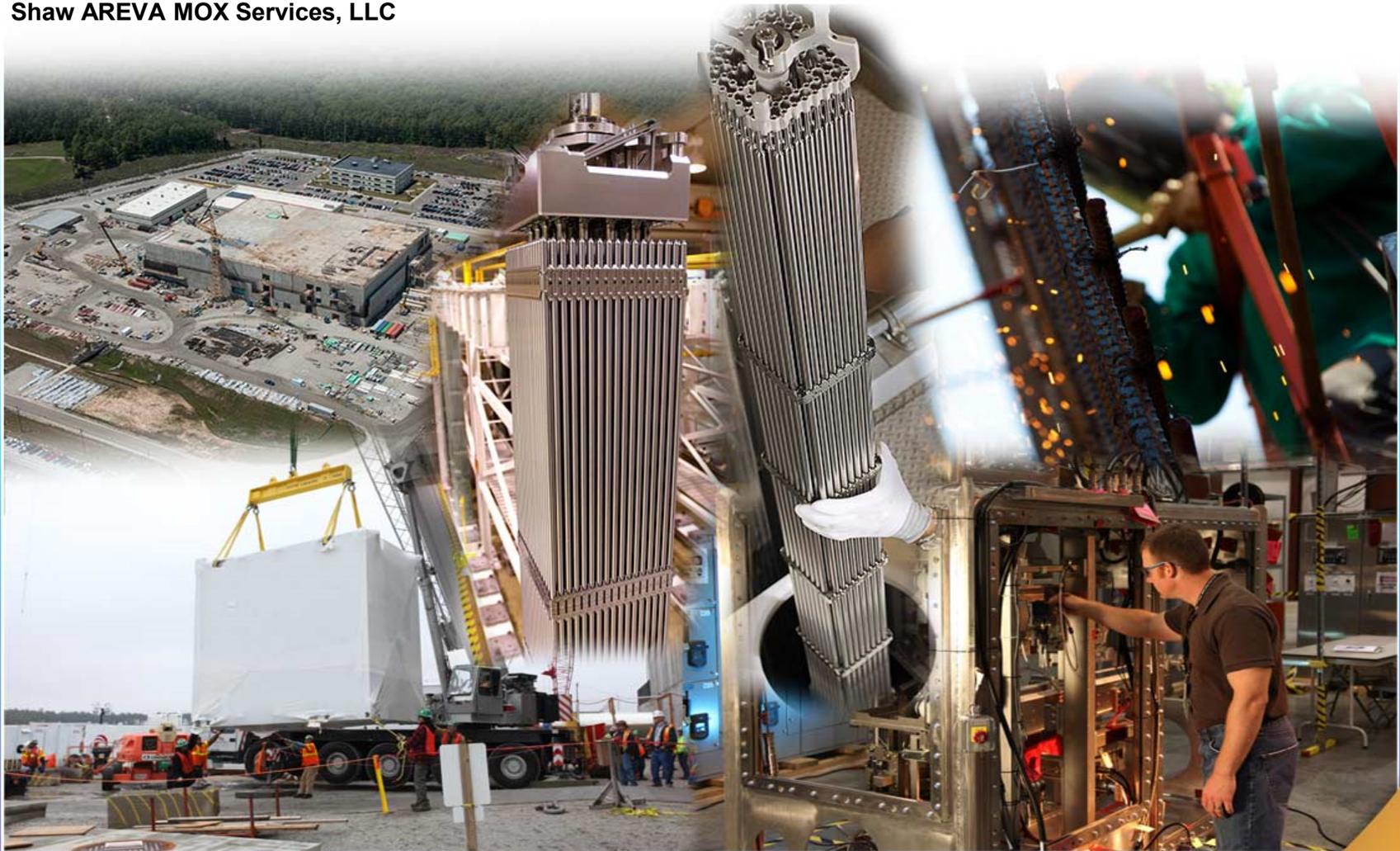


MOX Project Status - 27 Aug 13

Kelly Trice, President & COO
Shaw AREVA MOX Services, LLC



Safety & Environmental Performance

- **Worker Safety Performance**

- >16 million consecutive safe work hours without a lost workday accident
- Awarded Voluntary Protection Program (VPP) Star Status by OSHA

- **Environmental Stewardship**

- No environmental permit violations since start of construction (50 active permits)
- South Carolina Department of Health & Environmental Control (SCDHEC) awarded membership to MOX for the South Carolina Environmental Excellence Program
- Two LEED Gold certified buildings on project

Project Lessons Learned

- **Resource/Training/Skill Level (Non-Manual and Manual):**
 - Aging workforce with nuclear experience
 - Limited availability of experienced professionals
 - Increased competition within industry for experienced professionals
 - Many experienced professionals on the project are within 2-5 years of retirement – significant project turnover
- **Staffing Mitigation Strategies**
 - Increased use of classroom training
 - Improved procedures to address less experienced personnel
 - Use of technical experts
 - Improved engineering output documents
 - Quality culture initiatives
 - Early identification and documentation of issues/questions
 - Retention initiatives

Project Lessons Learned

- **Construction Conformance to Design**
 - Some construction personnel lack appreciation for work process controls and installation compliance to every detail of the design
 - Lack of nuclear work experience
- **Construction Mitigation Strategy**
 - Work activities controlled through Work Package (WP)
 - Mandatory Hold Points Established, as required
 - Construction craftsmen used to validate their ability to execute work instructions
 - Craftsmen are now included in the work planning group
 - Require daily review and update of WP for design changes
 - Multiple barrier approach to Inspection
 - Construction/Subcontractor verification
 - MOX Construction Engineering Verification
 - MOX QC Verification

Project Lessons Learned

- **Supplier Characteristics**

- Limited suppliers with NQA-1 programs
 - Procurement volume within the industry has been insufficient to drive new program and people investments
 - Further limitations with implementation of NQA-1 programs

Results in weak specification compliance and more than likely delays in deliveries.

- **Supplier Mitigation Strategies**

- Increased emphasis in qualification audits on basic implementation practices
- Utilization of resident engineer and QC project personnel while procurement, fabrication, and testing is in progress to identify issues prior to project delivery
- Development of partnering/mentoring relationships with key suppliers

August 2007



Start of Construction

June 2013

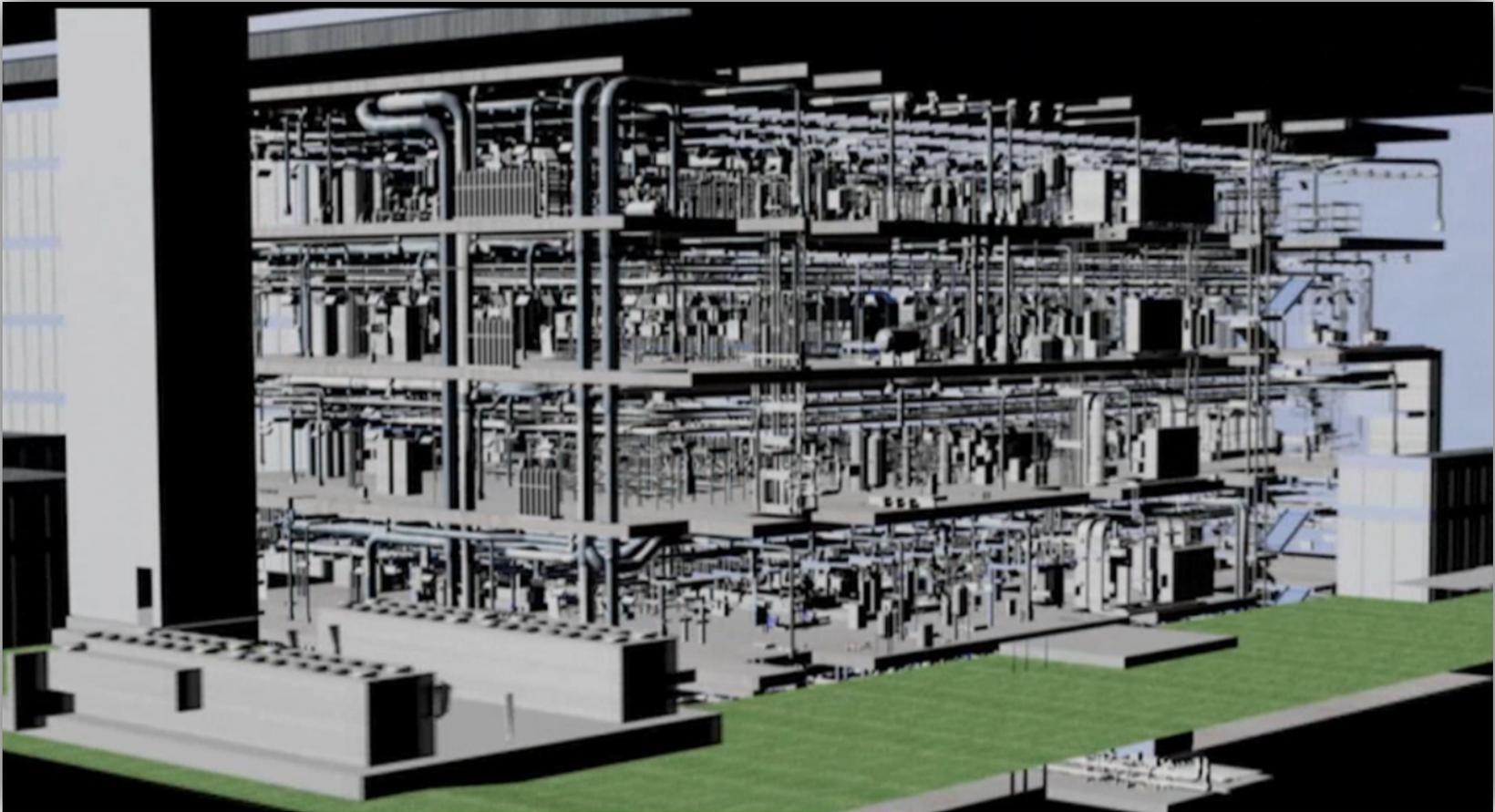


Current Construction

Active Gallery Modules



Active Gallery

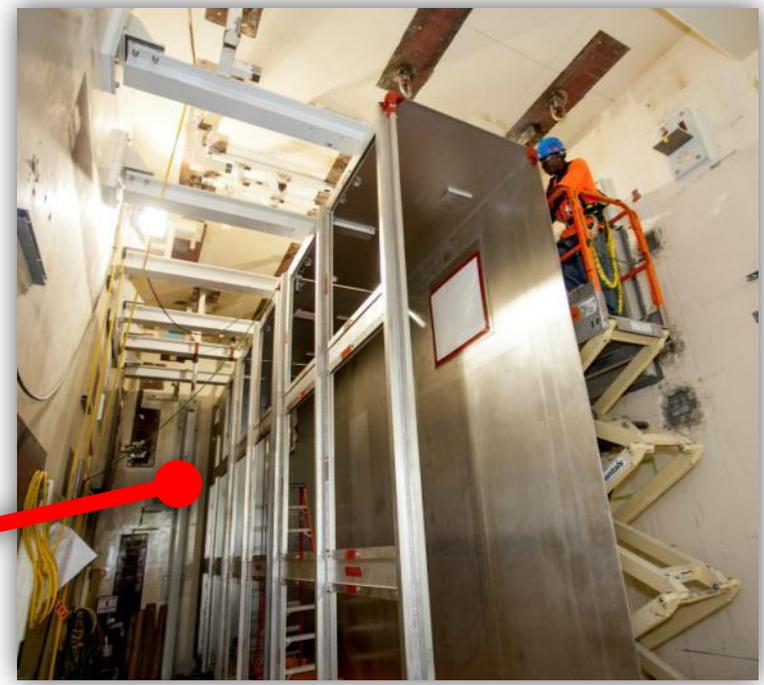


HVAC Components



Process Unit Equipment and Gloveboxes

PSI Scrap Pellet Storage
being installed in MFFF



Sintering Furnace



Diesel Engines

