

UK and USA Partnering Across the Pond

SRS and NDA • Successfully Sharing Resources and Lessons Learned

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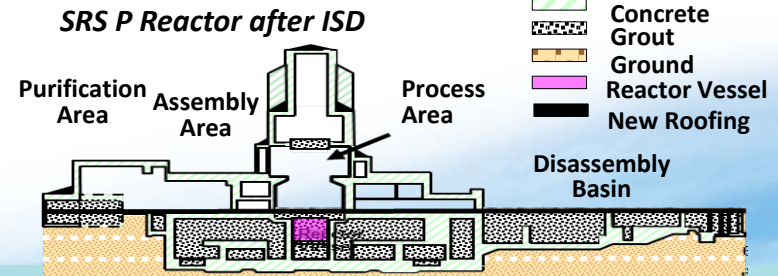
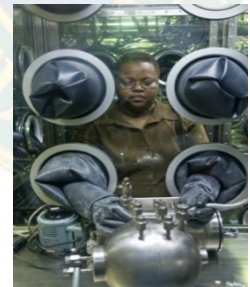
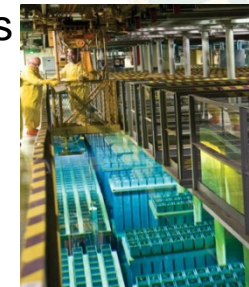
Savannah River Site





SRS and NDA : Partnering Paying Off

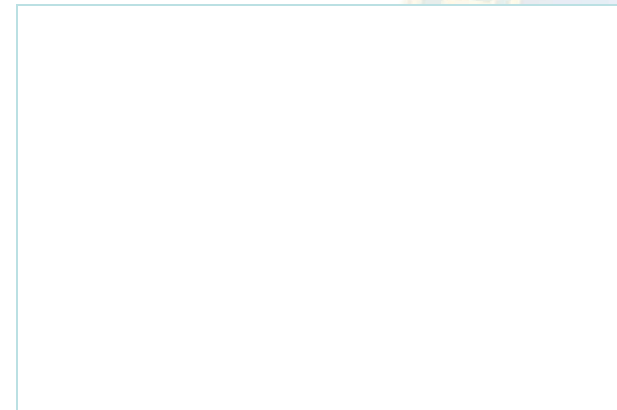
- ✓ Reciprocal site visits and personnel exchanges
(individual and corporate benefits)
- ✓ Sharing information for knowledge enhancement
 - Exploring fundamental differences in operations and managing contracts and projects, regulatory interface
 - Understanding similarities in operations, cleanup challenges
- ✓ Sharing lessons learned, best practices
 - Waste characterization
 - Nuclear materials receipts/disposition
 - Remote Operations (mock-ups)
 - Cleanup progress
 - In-Situ Decommissioning (ISD)
 - Innovative Groundwater Cleanup
 - Area Completion Strategy





SRS and NDA : Future Collaboration Opportunities

- ✓ Targeting more information exchanges in key technical areas
 - Fuel drying
 - HEU processing
 - Plutonium processing and disposition
 - Transuranic waste disposition
- ✓ Pursuing additional areas for active engagement
 - Cleanup end state approaches and onsite disposal options
 - Major capital project reviews Project
- ✓ Learning from experiences on similar major project delivery challenges
 - SWPF and Evaporator D
- ✓ Developing formal partnership between Savannah River National Laboratory (SRNL) and National Nuclear Laboratory (NNL)



(NDA and DOE/SRS Participants in Plutonium Management Information Exchange Workshop — UK, Oct. 2013)



SRS and NDA Sellafield: Actively Engaged

- ✓ Sharing knowledge tools, best practices on managing major capital projects
- SWPF Project Reviews
 - Process
 - Federal oversight role (reporting structure)
 - Independent assessments
 - Baseline and contingency management
 - Trending / early warning signs
 - Construction quality assurance





SRNL and NNL: Targeted Technical Alliances

- ✓ From joint DOE-SR/SRNL visit to UK (Sept. 2014), SRNL and NNL agreed to pursue collaboration in key technical areas of mutual interest:
 1. Enterprise modeling - technical basis for cleanup
 2. Robotics/autonomous devices for characterization and cleanup in difficult environments
 3. Characterization and disposition approaches for "orphaned" nuclear materials





SRNL and NNL: Planned Path Forward

- Establish small, integrated teams for each technical area to:
 - ✓ Identify and map respective capabilities, with emphasis on complementary capabilities
 - ✓ Identify key opportunities for effective collaborative work, with emphasis on 3-10 year look ahead for impact
 - ✓ Develop program plan for collaboration in each program area (actionable and measurable steps)
 - ✓ *Ultimate goal:* determine joint funded work in each program area that develops and enhances knowledge capabilities of both labs

Current Status

- SRNL and NNL staff completing acceptable joint non-disclosure agreement
- Once agreement in place, integrated teams will be established
- Oversight will be by joint SRNL/NNL management team



SRS and NDA/NNL: Partnering for Continued Progress



Sellafield Site

- ✓ Continue sharing ideas for doing business better and smarter
- ✓ Continue joint industry/government collaborations to advance cleanup and risk reduction goals
- ✓ Build on staff exchange program and knowledge transfer
- ✓ Continue active engagement on sharing tools and best practices for managing major capital projects
- ✓ Develop formal partnership between Savannah River National Laboratory and National Nuclear Laboratory