

Featured Site: DOE- Savannah River

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Waste Management Symposia 2015

March 17, 2015

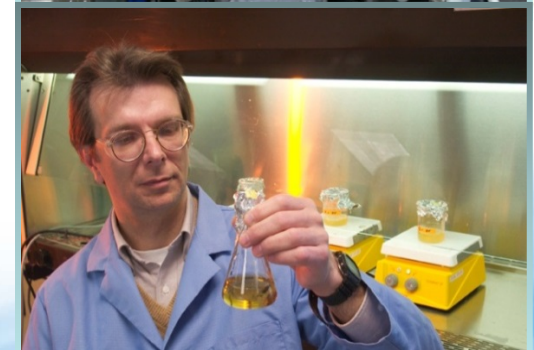
Savannah River Site





Savannah River Nuclear Solutions

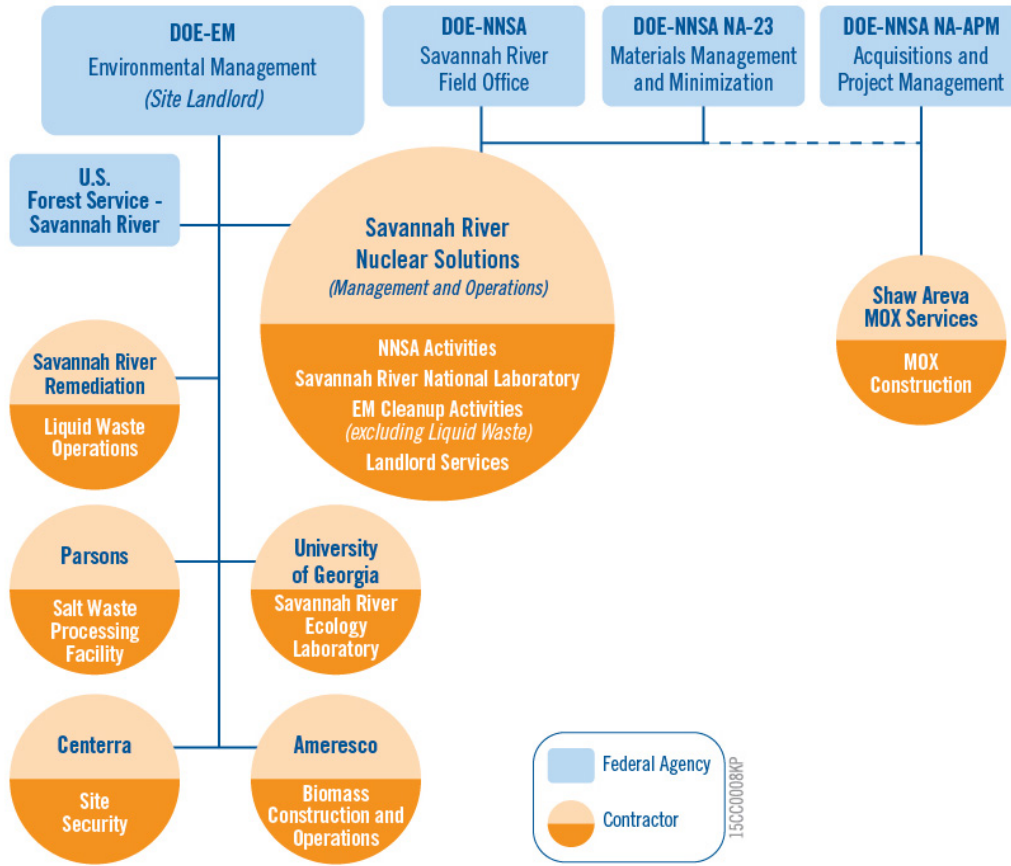
- SRNS is the Management and Operating contractor for DOE's Savannah River Site in Aiken, SC
 - Nuclear Materials Management
 - Operations, Storage and Disposition
 - Tritium Operations/Defense Programs
 - Environmental Remediation and Monitoring
 - Solid Waste Management
 - Savannah River National Laboratory
 - General Site Services
 - Transportation, roads, maintenance





Interface Management

Savannah River Site Alignment of Federal Agencies and Contractors





EM Operations

- Declared readiness for HB Line Phase II and have produced 7 cans of plutonium oxide
- H Canyon completed the Sodium Reactor Experimental fuel campaign and initiated the Material Test Reactor campaign
- Testing and turnover of an unloading station in L Area to prepare for NRU/NRX receipts
- K Area Storage Vault expansion construction complete
- Completed characterization of all remaining legacy transuranic waste
- Ongoing safe receipt and storage of surplus nuclear materials and spent nuclear fuel





NNSA Operations

- 100 percent mission deliverables in support of nation's nuclear defense
- Exceeded FY14 Gas Transfer System Surveillance requirements
- Added new tritium to the nation's supply through extraction
- Successfully initiated operations for production of plutonium oxide for MOX
- Achieved mechanical completion of Waste Solidification Building construction subcontract





Lean Management System

- Implementing a Lean Management System to achieve and sustain our operational performance.
- Focus on improving processes by:
 - identifying and eliminating non-value added steps
 - progressively supporting value-added services
 - utilizing the A3 problem-solving tool recognized throughout industry as a way to address issues, gain agreement, mentor and lead
- Transform our culture by:
 - increasing employee involvement and buy-in, leading to higher satisfaction
 - reducing costs
 - improving lead times and delivery of services
 - creating access and capacity for increased productivity
 - improving safety and quality
- Initial targets of opportunity
 - HB Line AFS-2 Program
 - Supply Chain





Cost Reductions

- EM Direct Cost Reductions > \$50 million annually
 - Streamlined procedure process to reduce facility cost by 25%
 - Reduced cycle time to load TRUPACT-IIIs by 50%
 - Dispositioned 253K Pu-239 eq. curies out of SC
 - Implemented paperless work packages across site
- Reduced indirect overhead budgets by 25.8 % or \$246 million cumulative since 2009
- More than 200 continuous improvement initiatives in FY14
 - \$44 million in cost savings, avoidances and productivity and efficiency improvements



Challenges

- Hiring and retaining qualified staff
- Degrading infrastructure a significant risk to interruption or loss of mission capability
 - Specific critical vulnerabilities in 2-3 years
 - Aging utility systems including electrical distribution
 - Aging operational equipment (cell windows)
 - Crucial facility structures (roofs, duct work)
 - Telecommunications, computing, fire systems and other critical IT components
- Manage backlog of corrective maintenance
 - Stabilized at 9 man weeks; higher in process facilities
 - Decreasing backlog attributed to increased hiring of maintenance staff over last 12 months



Roof Cracks in H Canyon



L Area River Water Bypass Piping