



U.S. DEPARTMENT OF  
**ENERGY**

# SRNS Update

## SC Nuclear Advisory Council

**Stuart MacVean**

President & CEO

Savannah River Nuclear Solutions

# Missions

5,500 employees “Making the World Safer”



**Environmental Stewardship**  
for soil, water and facilities



**Supplying Tritium**  
for nuclear weapons deterrent



**Securing Nuclear Materials**  
to prevent unwanted proliferation



**Transforming Nuclear Materials**  
into assets and stable wastefoms



**Savannah River National Laboratory**  
putting science to work



# Accomplishments

- **Safety Recognition**

- NSC Occupational Excellence Achievement Award
- Palmetto Shining Star Award
- SC Manufacturers Alliance for Safety Excellence
- Academy of Interactive and Visual Arts Award for Safety Video

- **Operational Highlights**

- **Environmental Management**

- *Material Test Reactor Campaign - 100% complete for FY17*
- *Target Residue Material Campaign achieving customer demand*
- *Spent fuel receipts continue- 70% complete for FY17*
- *Pu blend-down underway in K Area – 100% complete for FY17*
- *HB Line on schedule for oxide production goal*
- *Completed 6 of 8 shipments to the Waste Isolation Pilot Plant*
- *235-F characterization work continues; actively removing legacy materials to reduce risk*

- **National Nuclear Security Administration**

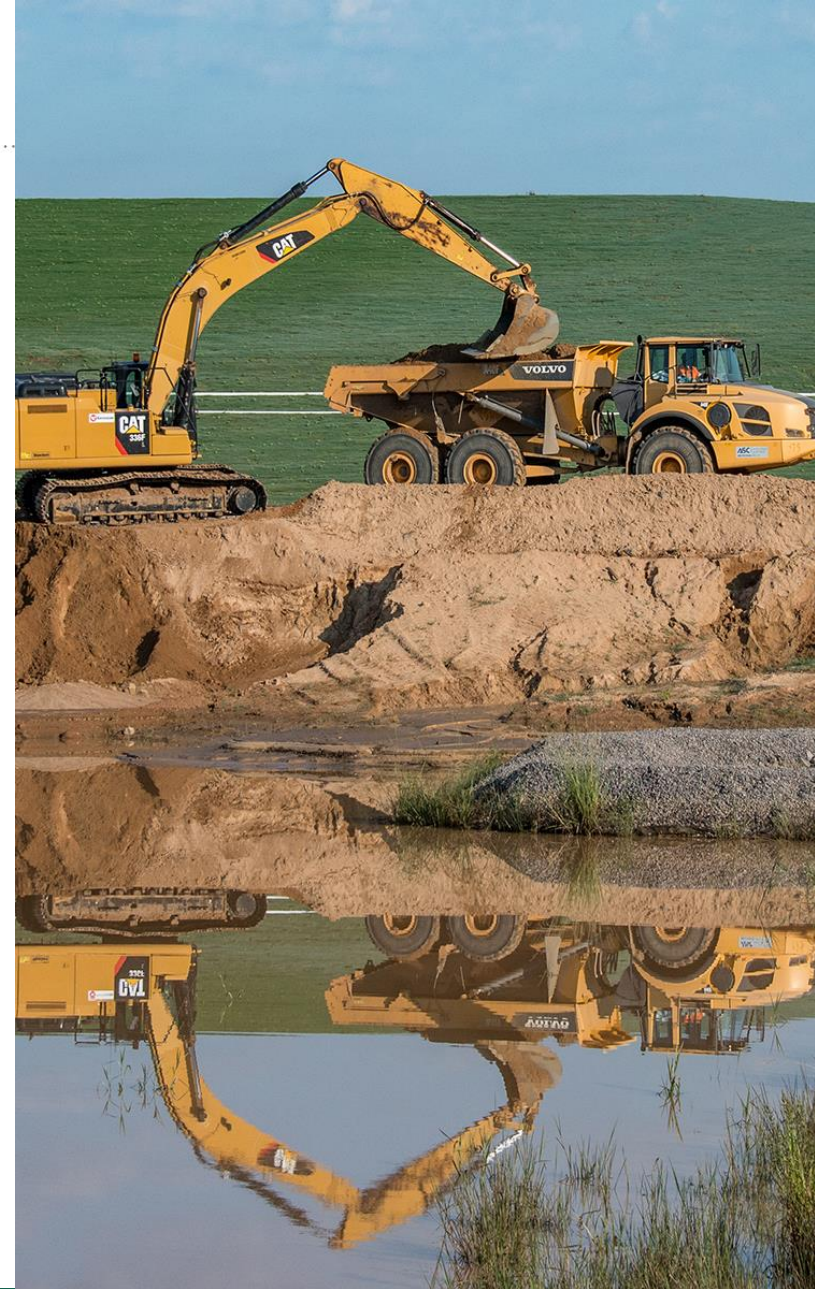
- *Tritium Programs – 100% mission delivery*
- *Tritium Extraction Facility increased production (3X)*



# Cost Savings/Avoidance

*Maintain culture of continuous improvement*

- **Recognized as significant driver in DOE's Strategic Sourcing Initiative**
- **121% of FY17 goal for productivity and cost savings (\$26.3M to date)**
- **Kicked off additional 2.5% cost reduction challenge**
- **Footprint Reduction**
  - D Ash Basin remediation project is 59% complete; \$9M under budget
  - Calibration Lab consolidation avoids \$12M and saves \$562K annually over next 5 years
- **Proactive stance accelerating savings**
  - Tree removal – emergent work is 4x more expensive





# Infrastructure Gains

*Start small; build momentum*

- **Electrical distribution**
  - C Area Switchgear breaker replacements
  - K and L Switchgear projects
  - SRNL main transformer replaced
- **New radio trunking system**
- **Roof replacements; 7 in FY17**
- **SRS Cafeteria renovation**
- **Roads**
- **Fire water supply repair/replacement**
- **Site railroad maintenance**
- **Relocate Emergency Response facilities**
- **Predictive, preventative, corrective maintenance**



# Workforce: Hiring

*Avoiding the perceived retirement cliff*



FY14-17  
Approximately 400/yr.  
over the next 4 years



during  
past four years



of non-retirement  
eligible employees seeking  
other employment



exceeds Office of Federal  
Contract Compliance  
Programs 6.7% goal



down from  
54 in 2008

# Workforce: Prepare the Pipeline

*Start early, provide funding, forge partnerships, create opportunities*



reached through  
STEM-related  
Education Outreach  
2016-2017



from 2014, with 148  
students in summer 2017  
and 28% of hired since 2014



with local  
universities  
and technical colleges

Aiken Technical College  
Augusta Technical College  
Augusta University  
Clemson University  
Orangeburg-Calhoun Technical College  
South Carolina State University  
University of South Carolina-Aiken  
University of South Carolina



In 2015, SRNS established a **Nuclear Operations Program** at Aiken Technical College. This certificate program serves as a foundation for future employees who wish to work in nuclear facilities.

SRNS participates in the **SRS Community Reuse Organization** (CRO) regional nuclear workforce development initiative. The CRO has administered \$4.8 million in grants to local institutions.