U.S. DEPARTMENT OF ENERGY

SRNS Update

SC Nuclear Advisory Council

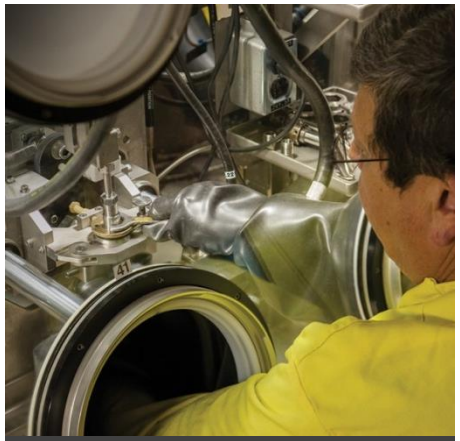
Stuart MacVean

President & CEO

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 wasteforms

Savannah River National Laboratory
putting science to work

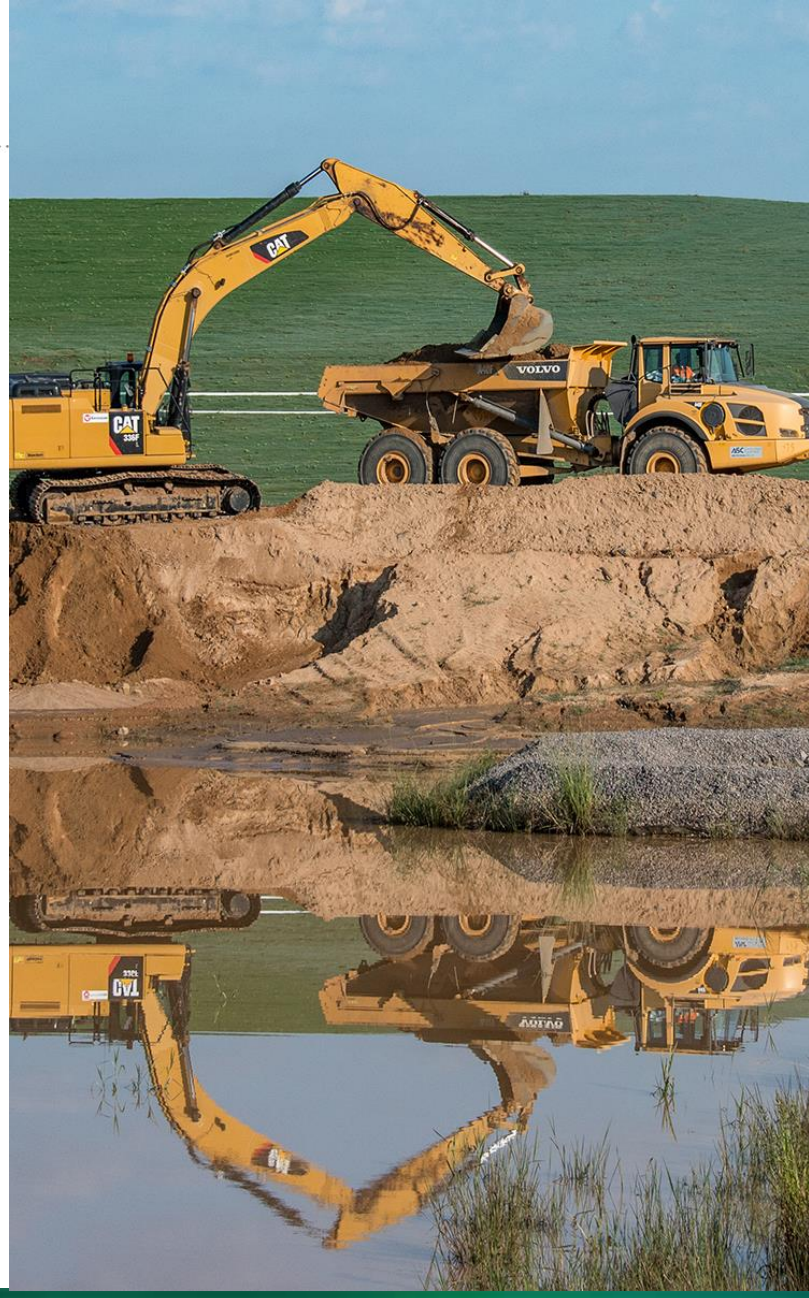
Accomplishments

- **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

1,721
new full -service employees

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

83%
hired from local area

during
past four years

15%
decrease in attrition

of non-retirement
eligible employees seeking
other employment

11%
veteran hires (FY16)

exceeds Office of Federal
Contract Compliance
Programs 6.7% goal

49
average age of employees

down from
54 in 2008

Workforce: Prepare the Pipeline

Start early, provide funding, forge partnerships, create opportunities

30,000 students + teachers

reached through STEM-related Education Outreach 2016-2017

35% internship increase

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

8 Partnerships entered

- 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

with local universities and technical colleges

$4.8 million total funding provided by SRNS to higher education institutions since 2008

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.