Savannah River National Laboratory

Dr. Terry Michalske
Director, Savannah River National Laboratory

Citizens Advisory Board
August 16, 2016
A decade of sustained excellence

2006-2015 OSHA Incidence Rates for DOE Complex Laboratories

SRNL 0.1 0.2 0.3
INL 0.2 0.3
NREL 0.2 0.4
ALAB 0.2 0.4
JLAB 0.4 0.2
PNPL 0.3 0.5
ANL 0.4 0.5
ORNL 0.2 0.8
LNLL 0.6 0.7
Fermi 0.4 0.8
BNL 0.8 0.5
SLAC 0.8 0.5
LLNL 0.4 0.6
PPPL 0.5 0.5
SNL 0.5 1.0
LANL 0.1 1.1

OSHA Safety Performance Metrics:
TRC: Total Recordable Case (DART + MTC)  DART: Days Away, Restricted or Transferred  MTC: Medical Treatment Case

Data obtained from DOE Computerized Accident/Incident Reporting System 16CC00049P
Focus on National Challenges
Clear Guidance for a New Direction

“SRNL is a laboratory that I rely on very heavily…. We cannot stop innovating. We have decades to go and many opportunities.”

Dr. Ernest Moniz, U.S. Secretary of Energy

“EM has lost the process engineering capability it once had. SRNL must play a key role in helping EM reestablish this capability. SRNL has to be recognized as the go-to place for process engineering answers across DOE, other government and commercial sectors.”

Dr. Monica Regalbuto, Acting Under Secretary for Environmental Management
New Manufacturing Technologies Bring Better Solutions

Bridging the gap between Technology & Implementation

Integrated Solutions

- Additive Manufacturing
- Process Intensification
- Virtual Reality
- Process Modeling
- Computational Chemistry
- Smart Manufacturing
- Robotics
- Cyber Security
Partnerships in Advanced Manufacturing

Managing risk drives Modern Manufacturing

National Manufacturing Institutes

- Improve worker safety
- Reduce capital and operating cost
- Private sector innovation for game-changing solutions
Pivot Toward Sustained Site Future

Short-term goals to reach a long-term Vision

Advanced Manufacturing technologies address today’s cleanup needs.

The Advanced Manufacturing Collaborative will pivot the Savannah River Site for a future beyond legacy waste – combining manufacturing and science to reduce risk.
SRNL Strategic Initiatives

SRNL is the Future of SRS

• Technical Leadership for EM Cleanup Mission
• Tritium Expertise for Nuclear Deterrent
• Manufacturing Innovation for DOE/NNSA
• Manufacturing Solutions for the Nation in Partnership with Academia and Industry
• Nuclear Assessments and Forensics Improvement