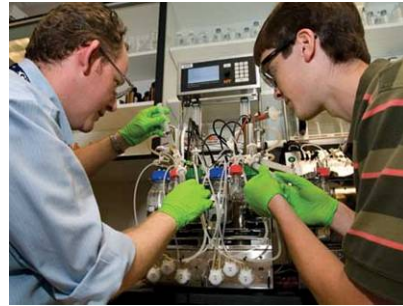


# National Nuclear Security Administration Savannah River Site



## Douglas Dearolph

National Nuclear Security Administration  
Savannah River Field Office

April 14, 2016



U.S. DEPARTMENT OF  
**ENERGY**



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- **NNSA Organizations and Relationships**
- **SRS Defense Program Role in Nuclear Security Enterprise**
- **Infrastructure Sustainment**
- **Budget Profiles**
- **Accomplishments and Priorities**



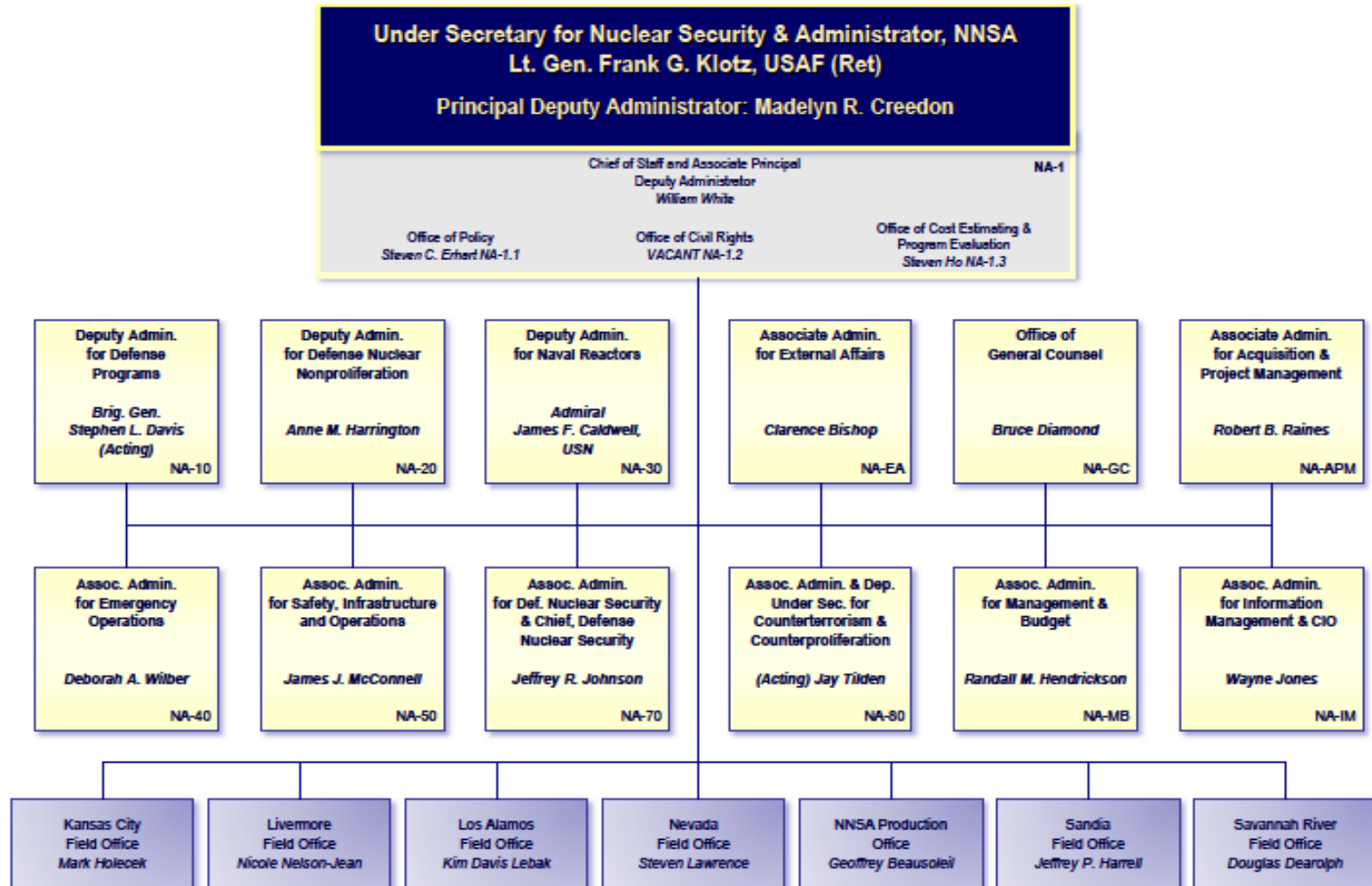
U.S. DEPARTMENT OF  
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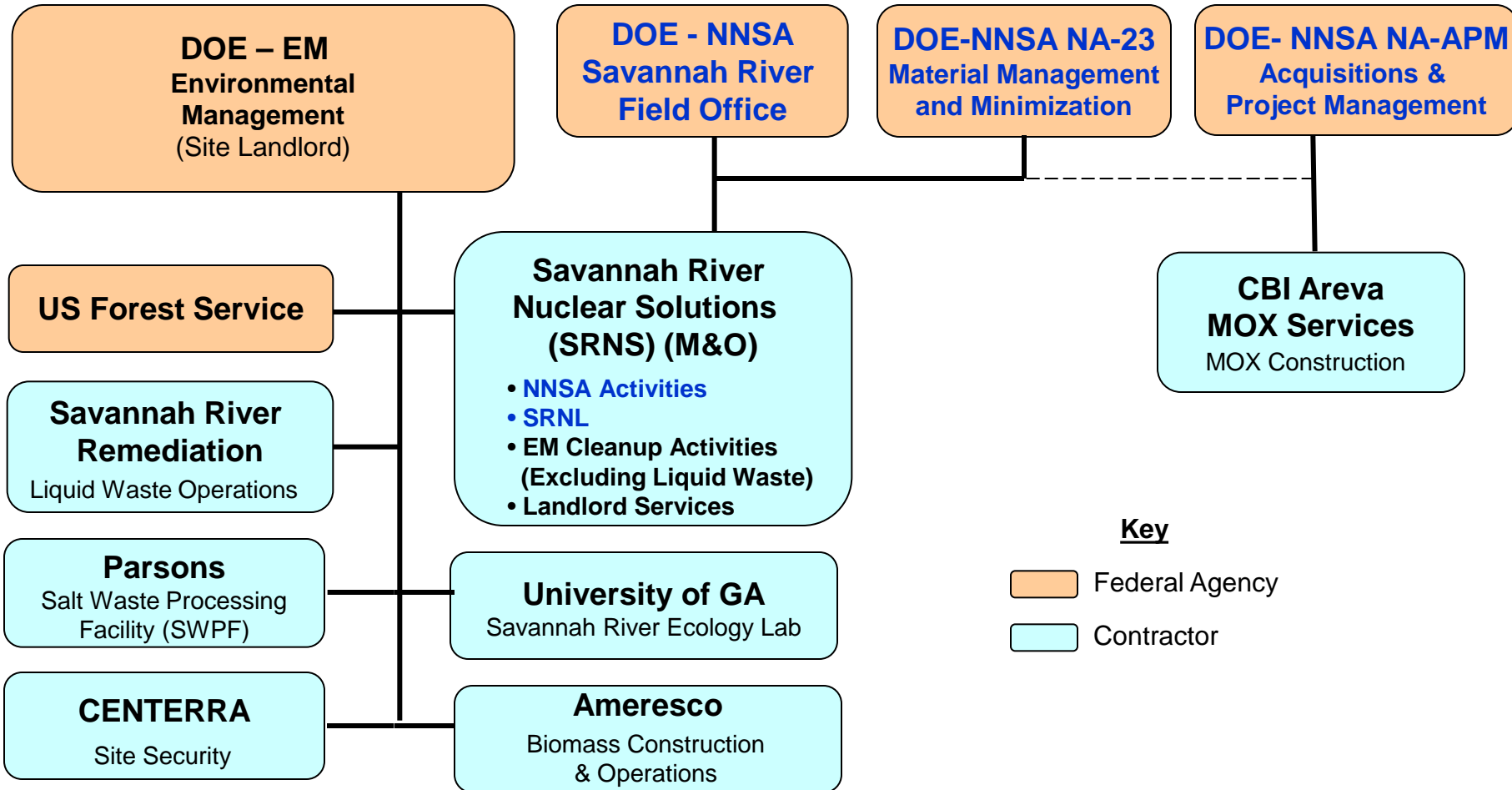
## NNSA Organization



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## SRS Organization Alignment



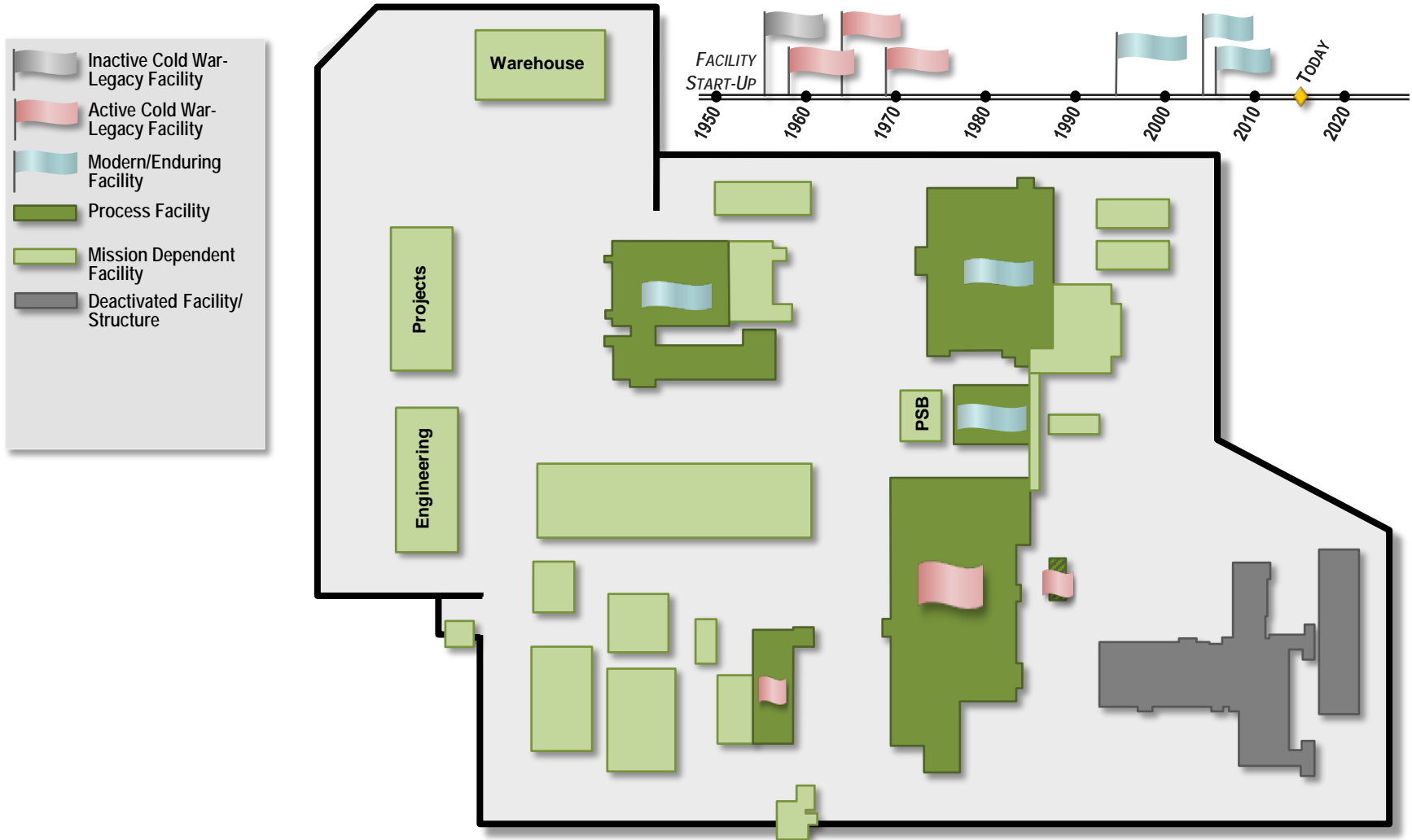
### Tritium Programs' Stockpile Missions

- **Nuclear Stockpile Maintenance Mission**
  - Reservoir reclamation
  - Reservoir loading / finishing
  - Packaging / shipping
- **Nuclear Stockpile Evaluation Mission**
  - Environmental conditioning
  - Function testing
  - Post-function test evaluation
- **Tritium Supply Mission**
  - Tritium extraction
  - Reservoir unloading / recycle
- **He-3 Recovery**
- **Tritium GTS and Process R&D**

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SRS

## SRS Tritium Facilities - Mix of Cold War Legacy and Modern





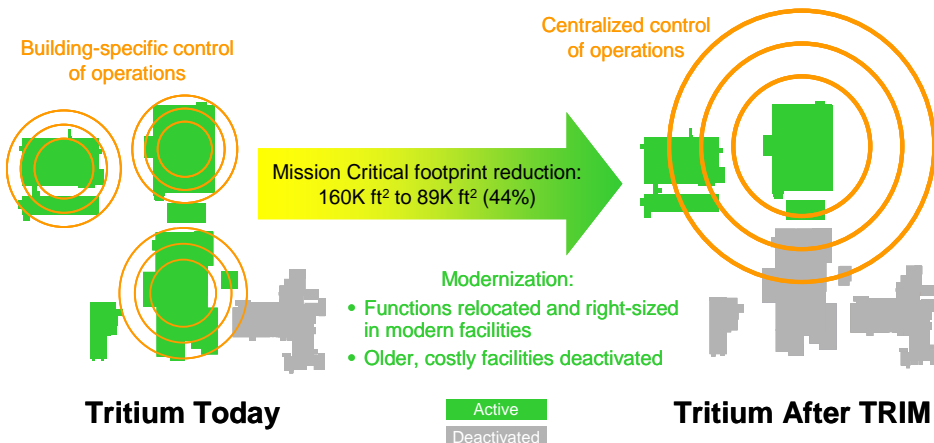
*Drives efficiency and revitalizes the SRS Tritium facilities for ongoing and new missions*

### Proposed Plan

- Right-size operations
- Relocate into modern facilities
- Eliminate reservoir reclamation
- Centralize control of operations

### Benefits\*

- Reduced deferred maintenance **55%**
- Reduced Haz Cat 2/3 facilities **38%**
- Reduced mission critical footprint **44%**
- Reduced energy usage **43%**
- Reduced annual costs **12%**
  - Enables ongoing investment in “pipeline” to sustain critical skills
- Reduced mission risk **68%**



\* All figures relative to FY10 baseline

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## Budget Profiles

NNSA Budget (\$ Millions) By Program Office	FY 2015 Enacted	FY 2016 Enacted	FY 2017 President Request	Delta FY Request
Weapon Activities	241	242	252	10
Mixed Oxide Fuel Fabrication Facility (MOX)	340	332	270	(62)
Defense Nuclear Nonproliferation (DNN)	77	58	91	33
Federal Expenses	4.7	5.2	5.4	.2
<b>Total Budget for NNSA at SRS</b>	<b>662.7</b>	<b>637.2</b>	<b>618.4</b>	<b>(18.8)</b>



# National Nuclear Security Administration Savannah River Site



## Defense Programs FY15 Accomplishments

- SRTE fulfilled its vital missions while achieving significant cost & productivity savings, continuously increasing product quality, and maintaining an exemplary safety record
- Initiated the Strategic Investment Process to improve risk program and system health reporting process, this ensures that facility needs are identified, evaluated, managed, and communicated to decision makers
- Achieved Critical Decision 0 (Mission Need) approval for Tritium Production Capability (TPC) program, for a line item project (possible start in FY18)
- Initiated ARGUS installation for the Central Alarm System within the Tritium compound

# National Nuclear Security Administration Savannah River Site



## Defense Programs FY16 Priorities

- Maintain and improve safety and security performance while meeting mission requirements
- Support Critical Decision 1 (Conceptual Design and estimate) by completing an Analysis of Alternatives (AoA) and down select for the Tritium Production Capability (TPC) project
- Complete phase 1 installation of ARGUS in the Tritium Central Alarm Station security improvements
- Execute GPP/CE/Operating projects in order to sustain production infrastructure and reduce mission risk
- Accelerate the hiring, training and qualifying of new employees to sustain work force levels to meet mission deliverables