



FY2021 Performance Evaluation Summary

Contractor: Savannah River Nuclear Solutions, LLC (SRNS)

Contract: DE-AC09-08SR22470

Evaluation Period: October 1, 2020 – September 30, 2021

Basis of Evaluation: Fiscal Year (FY) 2021 Performance Evaluation and Measurement Plan (PEMP)

The FY 2021 PEMP for this contract is available at: <https://www.energy.gov/sites/default/files/2021-04/SRNS%20FY21%20NNSA%20PEMP%20Signed.pdf>

The Contract is available at: <https://www.energy.gov/nnsa/savannah-river-site-contract>

Award Fee Scorecard

Goal	Rating		At Risk Available	Final
	Adjectival	Percent		
Goal-1: Mission Execution: Nuclear Weapons	Excellent	92%	\$14,846,828	\$13,659,082
Goal-2: Mission Execution: Global Nuclear Security	Excellent	95%	\$3,798,995	\$3,609,045
Goal-3: DOE & Strategic Partnership Projects Mission Objectives	N/A	N/A	\$0	\$0
Goal-4: Mission Execution: Science, Technology & Engineering (ST&E)	N/A	N/A	\$0	\$0
Goal-5: Mission Enablement	Very Good	80%	\$11,187,494	\$8,949,995
Goal-6: Mission Leadership	Excellent	92%	\$7,458,329	\$6,861,663
Total Award Fee	Very Good	88.7%	\$37,291,646	\$33,079,785
SRNL PEMP Goals	Adjectival	Percent	Available	Final
Goal 1.7: NNSA Defense Programs	Excellent	95%	\$709,995	\$674,495
Goal 1.8 NNSA Global Nuclear Security	Excellent	95%	\$1,124,545	\$1,068,318
Total Award Fee (SRNL PEMP)	Excellent	95%	\$1,834,540	\$1,742,813
SRNL & NNSA PEMP Goals			Available	Final
Total Award Fee (SRNL & NNSA PEMP Goals)			\$39,126,186	\$34,822,598

NOTE: There is no fixed fee related to the SRNS contract.

SRNS's performance for FY21 on NNSA efforts is measured against two separate PEMPs, the NNSA PEMP and a separate Office of Environmental Management (EM) PEMP for the Savannah River National Laboratory (SRNL). For SRNS, NNSA PEMP Goals 3 and 4 are not applicable and therefore have no associated fee. The work measured against the EM PEMP for SRNL is discussed under SRNL Performance Goals 1.7 and 1.8. SRNS's performance of SRNL activities was evaluated through transition to the new SRNL contractor on June 21, 2021

Overall, SRNS earned a Very Good rating for FY2021 exceeding many of the objectives and key outcomes under the PEMP goals, meeting overall cost, schedule, and technical performance requirements with accomplishments that greatly outweigh issues

Accomplishments:Goal 1

- SRNS completed tritium extractions from four production runs earlier than the planned date, accomplished seven extractions in FY2021 and met a goal of conducting eight extractions in a 13-month period.
- Triad and SRNS collaborated on establishing NNSA's ability to produce 30 pits per year at Los Alamos National Laboratory (LANL) and 50 pits per year at the Savannah River Site.
- The Savannah River Plutonium Processing Facility (SRPPF) project achieved Critical Decision-1 (CD-1) approval by the Deputy Secretary on June 24, 2021. The SRPPF package was acknowledged as one of the best Major System CD-1 submittals ever assembled.

Goal 1.7 - SRNL

- SRNS provided technical support to Tritium Engineering and Operations personnel involving the first tritium unload of a SP1115 reservoir to validate the unload process well ahead of anticipated field returns at end-of-life.
- SRNS participated in two different collaborative efforts with Sandia National Laboratories. The first effort is the Material Aging and Characterization Study, which recently put the first pair of tritium-loaded units into storage at Materials Testing Facility. The second effort is the Life Storage Program for the Seal-Cap Multi-Function Valve (SCMFV). These two programs demonstrate the close collaborative relationship with SNL and are of very high importance to upcoming Gas Transfer Systems and Life Extension Programs

Goal 2

- SRNS implemented four-shift down blend operations in the K-Area Interim Surveillance (KIS) glovebox three months ahead of the milestone date.
- SRNS completed construction and turnover to down blended plutonium storage operations of the K-Area Characterization and Storage Pad General Plant Project, amidst challenges.
- SRNL provided excellent technical and project management support for future Highly Enriched Uranium and plutonium minimization efforts from Japan, Canada, and Europe, as well as preparation and execution of Mobile Plutonium Facility (MPF) exercises.
- SRNS successfully performed technology development work in support of the Molybdenum-99 Program as well as Mo-99 collaboration with the South African Nuclear Energy Corporation.
- SRNS provided excellent support to the International Program.
- SRNS provided excellent input and support to the technical exchanges with the International Atomic Energy Agency (IAEA) to initiate the establishment of a protocol for maintaining safeguards of material under the Voluntary Offer Agreement as disposition is pursued.

Goal 1.8 - SRNL

- SRNS successfully applied established expertise and capabilities in materials science and analysis to advance several projects focused on the detection of Special Nuclear Material production.
- SRNS continued to provide program support to SRNL and Oakridge National Laboratory for the development and the deployment of tasks associated with the Strategic Laboratory Assessment.
- SRNS supported the Office of International Nuclear Safeguards by providing excellent support for the implementation of safeguards in the United States, safeguards human capital development initiatives, and on high quality atmospheric modeling input to new environmental monitoring studies, continuing to make positive progress in creating new reference particle materials for IAEA.

Goal 3 - Goal 4 – Not applicable to SRNS

Goal 5

- SRNS continued to have strong safety attitudes and performance while operating under a COVID-19 environment.
- SRNS had an excellent security awareness program.
- SRNS legal team provided support to the SRRPF Project Record of Decision and Tritium Finishing Facility (TFF) Project Environmental Assessment.
- SRNS continued to effectively and efficiently implement the NNSA Cyber and IT programs at the Savannah River Site.
- SRNS demonstrated effective management of the Emergency Management Program.
- SRNS provided excellent support for the Defense Board Hearing.
- SRNS continues to make forward progress on the Co-Located Worker Risk Reduction Strategy Plan.
- SRNS provided excellent financial and contract support for the SRNL contract transition.
- SRNS took actions to improve the performance and management of small projects by increasing up-front planning resulting in recapitalization projects meeting most G2 milestones.
- The MOX Transition Project dispositioned all Government property as planned and was under budget/on schedule.
- The TFF project was on budget/on schedule.

Goal 6

- SRNS demonstrated excellent leadership during a COVID-19 environment. SRNS rapidly developed and implemented initiatives to protect the workforce, while collaborating with customers to ensure mission critical and time-sensitive work continued.
- SRNS leadership excelled in collaboration efforts with other NNSA sites in the accomplishment of NNSA missions.
- SRNS leadership took ownership to perform multiple consecutive Tritium extractions after a thorough risk assessment and through a collaborative effort among multiple SRNS organizations.
- SRNS progressed in the management of small projects with aggressive steps taken to improve project execution including leadership changes, which increased accountability and transparency at all levels.
- SRNS NNSA Capital Projects (NCP) Management Organization leadership continued to represent NCP interests and lead SRNS organizational and process changes in support of NNSA Project execution.

Issues:

Goal 1 - None

Goal 1.7 – SRNL - None

Goal 2 - None

Goal 1.8 – SRNL - None

Goal 3 - Goal 4 – Not applicable to SRNS

Goal 5

- SRNS experienced challenges in stabilizing Conduct of Operations performance resulting in two Technical Safety Requirement (TSR) violations. SRNS implemented several corrective actions which will be closely monitored in the next fiscal year.
- Surplus Plutonium Disposition Project Performance is over budget and behind schedule due to quality issues related to design.

Goal 6 – None