National Nuclear Security Administration

Fiscal Year (FY) 2023 Performance Evaluation Summary

Contractor: Savannah River Nuclear Solutions, LLC (SRNS)
Contract: DE-AC09-08SR22470
Evaluation Period: October 1, 2022 – September 30, 2023
Basis of Evaluation: FY 2023 Performance Evaluation and Measurement Plan (PEMP)
The FY 2023 PEMP for this contract is available at: https://www.energy.gov/nnsa/articles/fy2023-strategic-performance-evaluation-and-measurement-plan-savannah-river-nuclear
The Contract is available at: https://www.energy.gov/srs/articles/savannah-river-nuclear-solutions-llc-contract

Award Fee Scorecard

Goal	Rating		At Risk Available	Final
	Adjectival	Percent		
Goal-1: Mission Delivery: Nuclear Weapons	Excellent	95%	$19,764,373	$18,776,154
Goal-2: Mission Delivery: Global Nuclear Security	Excellent	95%	$ 2,823,482	$ 2,682,308
Goal-3: Mission Innovation: Advancing Science and Technology	N/A	0%	$ 0	$ 0
Goal-4: Mission Enablement	Very Good	80%	$25,411,336	$20,329,069
Goal-5: Mission Leadership	Very Good	90%	$ 8,470,446	$ 7,623,401
Total Award Fee		**87%**	**$56,469,637**	**$49,410,932**

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

For SRNS, NNSA PEMP Goal 3 is not applicable and therefore has no associated fee.

Overall, SRNS earned a Very Good (87 percent) rating for FY 2023, exceeding many of the objectives and key outcomes under the PEMP goals, generally meeting overall cost, schedule, and technical performance requirements with accomplishments that greatly outweighed issues.

Accomplishments:
Goal 1

- SRNS delivered all Tritium shipments on time and executed all surveillance activities as scheduled.
- SRNS upgraded Tritium Facility key capabilities (e.g., Digital Imaging Measurement System, Electron Discharge Machine).
- SRNS completed a FY 24 W88 Gas Transfer System (GTS) bottle fill plan to an accelerated schedule to support the calendar year (CY) 2025 outage.
- SRNS submitted a W80-4 baseline replan to support new First Production Unit date of FY 2027.
- SRNS completed the Site Acceptance Testing for two lathes in 766-H to support Plutonium (Pu) Pit Training.
- SRNS effectively collaborated with Los Alamos National Laboratory through the Knowledge Transfer Program and integrated with other production and design agencies through the Mutual Support Program to establish NNSA's ability to produce at least 80 pits per year. Both efforts serve to ensure that the necessary people, processes, and knowledge base is in place to standup NNSA's plutonium pit production capability.

Goal 2

- SRNS exceeded the downblend operations annual processing objective of 100 completed downblends by completing 111 Pu downblends during the period.
- SRNS completed first shipment of downblended Pu to Waste Isolation Pilot Plant (WIPP) in December 2022 and completed a total of 13 shipments of downblended Pu to WIPP during the period.
- The SRNS Vulnerability Assessment team provided excellent support to WIPP to implement a revised site security plan for receipt of downblended Pu shipments.
- SRNS supported installation of the Transport Remotely Monitored Sealing Array (TRMSA) system for all shipments of downblended Pu to WIPP.
- SRNS issued the Programmatic Strategic Plan and began to implement improvement initiatives.

Goal 3

- Not Applicable

Goal 4

- SRNS communicated effectively with external stakeholders on emissions and environmental compliance data, building trust with the local regulator and community, while operating the tritium facilities well within established environmental regulation limits.
- SRNS reacted swiftly to worker safety and health incidents early on and focused efforts to building and sustaining a robust safety culture.
- SRNS successfully completed six tritium extractions during this rating period. This notable accomplishment required additional training and briefings to operators and further engineering analysis to ensure these activities could be completed within the safety envelope.
- SRNS Maintenance, Operations and Engineering personnel successfully planned and completed two extensive open glovebox maintenance activities in a timely manner. These actions ensured continued facility operations and mission completion.
- SRNS had 30 small projects in the design/execution phase and successfully executed small dollar value (less than $2 million) projects within cost and schedule.
- SRNS legal provided prompt legal assistance on urgent Savannah River Plutonium Processing Facility (SRPPF) matters, however, there remains room for improvement regarding negotiated terms and conditions in subcontracts and transparency related thereto.
- SRNS completed 30 percent design of the Tritium Finishing Facility (TFF) Project process building subproject, placed the project in a pause mode and commenced field work for the site preparation subproject.
- SRNS successfully resolved Surplus Plutonium Disposition (SPD) Project engineering issues pertaining to fire protection and active confinement ventilation, submitted a 90 percent design completion package, and successfully continued working site preparation activities.
- For the SRPPF Project, SRNS executed the Construction Management subcontract, the Dismantlement & Removal (D&R) Critical Decision (CD)-3A activities, and Tiger Team implementation of CD-3X packages.

Goal 5

- SRNS leadership demonstrated initiative to strengthen the Conduct of Operations program. One significant change is the addition of a new leadership position solely focused on Conduct of Operations improvements.
- SRNS leadership led and/or participated in meetings to support complex wide initiatives and activities to share best practices/lessons learned such as the FY 2023 Nuclear Security Enterprise Weapon Quality Forum, NA-90, Office of Infrastructure Programs, Deep Dive meeting, and ConOps benchmarking at Y-12.

- SRNS leadership was instrumental in the success of both the virtual briefing answering several inquiries posed by the Defense Board along with a responsive on-site visit by the Defense Board Chair in FY 2023.
- SRNS successfully utilized many aspects of its Contractor Assurance System, with the results of the metrics trending positively and are drivers for the improvement in their performance.
- SRNS teamed with other organizations to publish the Pu Manufacturing Classification guidance.
- SRNS leadership established appropriate SRPPF Project Centric workforce processes, improved inadequate CD-3X planning & execution, and recovered project activities into 799 CD-3A.

Issues:

Goal 1

- None

Goal 2

- SRNS experienced cost increases on two (2) minor construction projects due to construction rework, design rework and underestimated hours for design, as-builts, construction non-manual labor, and startup. SRNS increased management reviews and included 3D model reviews during design reviews to prevent future occurrences.

Goal 3

- Not Applicable

Goal 4

- SRNS Emergency Management experienced high personnel turnover and did not conduct nuclear safety related drills and exercises.
- SRNS exceeded the budget for two (2) tritium small projects, Y788 and Y790. Project baseline schedules were missed for the two (2) projects plus Y751.
- SRNS has not been able to perform and report to the submitted Performance Measurement baseline for the SRPPF Project. SRNS attention to design production for SRPPF is necessary to recover and maintain the SRPPF design performance baseline.

Goal 5

- Improved leadership and management attention to SRPPF project design production is necessary to recover and maintain SRPPF design performance baseline.