National Nuclear Security Administration

Fiscal Year (FY) 2023 Performance Evaluation Summary

Contractor: Mission Support and Test Services, LLC (MSTS)
Contract: DE-NA0003624
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-mission-support-test
The Contract is available at: https://www.energy.gov/nnsa/nevada-national-security-site-contract

Award Fee Scorecard

Goal	Rating		At Risk Available	Final
	Adjectival	Percent		
Goal-1: Mission Delivery: Nuclear Weapons	Excellent	91%	$11,058,805	$10,063,513
Goal-2: Mission Delivery: Global Nuclear Security	Very Good	90%	$ 6,319,317	$ 5,687,385
Goal-3: Mission Innovation: Advancing Science and Technology	Excellent	100%	$ 1,579,829	$ 1,579,829
Goal-4: Mission Enablement	Very Good	85%	$ 7,899,146	$ 6,714,274
Goal-5: Mission Leadership	Very Good	88%	$ 4,739,488	$ 4,170,749
Total Award Fee		**89%**	**$31,596,585**	**$28,215,750**

In addition, the fixed fee and total fee summaries are provided below:

	Available	Final
Fixed Fee	$ 0	$ 0
SPP (Fixed Fee)	$ 2,772,182	$ 2,772,182
Total Fixed Fee	$ 2,772,182	$ 2,772,182
Total Fee (Award Fee and Fixed Fee)	**$34,368,767**	**$30,987,932**

Overall, MSTS earned a Very Good (89 percent) rating for FY 2023, exceeding most of the objectives and key outcomes under the PEMP goals, meeting overall cost, schedule, and technical performance requirements with accomplishments that greatly outweighed issues. MSTS commitments to the NNSA continued from FY 2022 for increasing operational cadence on experiments, enhancing capabilities to execute an expanded program portfolio, and significantly improving the Nevada National Security Site (NNSS) infrastructure.

Accomplishments

Goal 1

- Successfully supported multiple Subcritical Experiments series simultaneously including data analysis, diagnostic support, development, and equipment refurbishment.
- Awarded major procurements for Z-Pinch Experimental Underground System Testbed Diagnostics in support of Enhanced Capabilities for Subcritical Experiments (ECSE).
- Executed multiple developmental Joint Actinide Shock Physics Experimental Research experiments for certification and Research and Development.
- Provided diagnostic fielding and component characterization for the National Ignition Facility scientific ignition achievement.
- Increased Big Explosive Experiment Facility experimental pace and expanded NNSS Machine Shop capability to meet weapon modernization and stockpile risk-reduction initiatives.

Goal 2

- Demonstrated operational excellence during a historic year of high-impact, high-visibility national security support completing all planned work scope while also responding to real world events requiring significant multi-agency pre-planning and extensive coverage before, during, and after each event.
- Provided strong laboratory/customer integration for Defense Nuclear Nonproliferation experiments and testbed operations.
- Provided excellent support for a VIP visit to the NNSS in support of United States Government interactions with the Comprehensive Test Ban Treaty Organization.

Goal 3

- Supported the national security complex and legacy cleanup waste disposal through successful operation of the Radioactive Waste Management Complex.
- Fulfilled regulatory commitments completing permanent closure of one waste cell; opened one new waste cell; prepared final documentation to ensure fulfillment of all Nuclear Fuel Services Settlement Agreement items; and received a ten-year renewal for the Resource Conservation and Recovery Act permit from the State of Nevada Division of Environmental Protection.
- Awarded numerous Site-Directed Research and Development exploratory research projects (50 percent new start projects).
- Conducted Research and Development investigations that will improve toolkits for nonproliferation, emergency response and stockpile diagnostic portfolios.
- Developed a Scientific and Technical rotational program that encourages mentorship and retention of early-career technical staff.

Goal 4

- Executed significant infrastructure and mission critical facility projects to address mission requirements, including risk reduction, workforce safety and site user services.
- Continued U1a Complex Enhancements Project Subproject 020 mining and construction activities in support of ECSE.
- Achieved Department of Energy Voluntary Protection Program Star status, including first-time certification for the satellite locations, and maintained Total Recordable Incident/Days Away, Restricted and Transfer rates below industry averages amidst increased work.

Goal 5

- Continued to demonstrate strong ownership of the Neveda Enterprise integration role to enhance communications supporting the safe, secure, efficient, and effective mission execution.

- Proactively made strategic indirect funded investments in NNSS infrastructure, reducing costs and execution risk across construction and mission projects.
- Continued to implement approved compensation enhancements to address recruitment and retention challenges.
- Used parent company reach-back for expertise in safety, design engineering, water distribution engineering, asset management, cost analysis, and mining.
- Sustained collaboration with the Nevada delegation, local community, as well as primary education and state-level Nevada universities to support Science, Technology, Engineering, and Mathematics.

Issues

Goal 1
- None

Goal 2
- MSTS did not implement project management principles and processes consistently across the Global Nuclear Security Portfolio.

Goal 3
- None

Goal 4
- Line-Item projects continue to be behind schedule.
- Deficiencies were identified with the integrated work control process.

Goal 5
- Senior leadership engagement is required to improve integration across organizational boundaries.
- Continued management attention is required for ECSE capital projects and other construction projects.