



FY2019 Performance Evaluation Summary

Contractor: National Technology and Engineering Solutions of Sandia, LLC (NTESS)

Contract: DE-NA0003525

Evaluation Period: October 1, 2018 – September 30, 2019

Basis of Evaluation: Fiscal Year (FY) 2019 Performance Evaluation and Measurement Plan (PEMP)

The FY 2019 PEMP for this contract is available at:

https://www.energy.gov/sites/prod/files/2020/01/f70/FY19%20PEMP%20Rev01%20SNL-NTESS%20FINAL_Redacted.pdf

The Contract is available at: <https://www.energy.gov/nnsa/sandia-national-laboratories-contract>

Award Fee Scorecard

Goal	Rating		At Risk Available	Final
	Adjectival	Percent		
Goal-1: Manage the Nuclear Weapons Mission	Very Good	85%	\$3,071,707	\$2,610,951
Goal-2: Reduce Nuclear Security Threats	Excellent	95%	\$767,927	\$729,531
Goal-3: DOE & Strategic Partnership Projects Mission Objectives	Excellent	100%	\$ -0-	\$ -0-
Goal-4: Science, Technology & Engineering (ST&E)	Excellent	100%	\$ -0-	\$ -0-
Goal-5: Operations & Infrastructure	Very Good	85%	\$2,303,780	\$1,958,213
Goal-6: Leadership	Very Good	76%	\$1,535,854	\$1,167,249
Total Award Fee	Very Good	84.2%	\$7,679,268	\$6,465,944

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

	Available	Final
Fixed Fee	\$19,198,170	\$19,198,170
SPP (Fixed Fee)	\$10,431,900	\$10,431,900
Total Fixed Fee	\$29,630,070	\$29,630,070
Total Fee (Award Fee and Fixed Fee)	\$37,309,338	\$36,096,014

NTESS earned Excellent ratings for Goals 2, 3, and 4, and Very Good ratings for Goals 1, 5, and 6.

Overall, NTESS earned a Very Good rating for FY2019, meeting overall cost, schedule, and technical performance requirements with accomplishments that greatly outweigh issues.

Accomplishments:

Goal 1

- Addressed an urgent operational need to enhance safeguards.
- Improved pulsed power materials diagnostics and increased High Performance Computing capabilities.

- Addressed COTS part qualification failures affecting weapon modernization programs by developing recovery options and partnering with KCNSC to improve producibility.
- Achieved W80-4 Phase 6.3, mitigating schedule risk through design simplification and implementation of New Product Introduction initiatives.
- Completed Cycle 23 Annual Assessment Report to certify the stockpile.

Goal 2

- Provided critical physical protection expertise in executing the Cesium Irradiator Replacement Project and Global Cesium Security Initiative.
- Developed and tested a unique high hazard material containment system at the Z Pulsed Power Facility on high-priority materials to validate modeling efforts.
- Designed and installed accelerometers that exceeded performance expectations for the Source Physics Experiment.
- Provided valuable contributions to support for the Comprehensive Nuclear Test Ban Treaty Organization's International Data Centre Re-engineering initiative.
- Successfully responded to a contamination incident and supported a radiological survey.

Goal 3

- Conducted various high-impact Strategic Partnership Projects for Nuclear Weapon and Non-Nuclear Weapon Programs, sustaining and strengthening core NNSA mission capabilities.
- Completed the Waste Isolation Pilot Plant Compliance Recertification Application, enabling continued operations for disposition of radioactive waste.
- Delivered the Mars 2020 Final Safety Analysis Report, which assessed the risk associated with an on-board Radioisotopic Thermoelectric Generator power source.
- Implemented a new cloud-based data archive system for DOE to preserve high-level waste repository science and technology information.

Goal 4

- In partnership with LANL and LLNL, installed and benchmarked the world's largest ARM-based supercomputer called Astra for enhanced High Performance Computing capabilities.
- Completed the first temperature measurement for plutonium shock-ramp experiment at Z Facility.
- Received a Secretary of Energy Achievement Award for chamber-contained tritium experiment that was enabled by an LDRD Grand Challenge project.
- Achieved significant progress on LDRD Mission Campaign investment area designed to develop key capabilities and overcome high-risk technical challenges associated with future mission needs.

Goal 5

- Earned an "Excellent" rating for the Command Cybersecurity Readiness Inspection by maintaining a high level of security of Sandia's classified network.
- Effectively adapted security operations to meet the surge in mission-related work by embedding security professionals and increasing security briefings.
- Successfully passed the DOE Protective Force, Physical Security, and Material Control and Accountability Limited Notice Performance Test.
- Significantly improved the Nuclear Criticality Safety Program as evidenced by early implementation of the revised DOE facility safety order, and providing nuclear criticality safety support to other DOE/non-DOE organizations.

Goal 6

- Overcame significant challenges to an immediate national security imperative by providing extensive resources and expertise across the Laboratories that enabled an integrated solution.
- Demonstrated leadership in efforts to attract and retain talent for future nuclear security missions by co-chairing the NNSA NSE Recruitment Strategy Group.

- Co-led the New Product Introduction initiative to apply best practices and lessons learned in implementing changes to improve product development and production for weapon modernization programs.
- Immediately addressed systemic issues identified during two emergency management full scale annual exercises.
- Recognized by Forbes magazine as one of the Best Employers for Diversity, and one of the top 500 Best Large Employers.

Issues:

Goal 1

- Did not consistently communicate information about weapon modernization program issues to stakeholders, impacting cost, schedule, and performance.
- Did not meet schedule expectations for development of the MESA Complex Extended Life Program, affecting NNSA's ability to incorporate funding needs into future budget requests.

Goal 5

- Did not resolve long-standing operational issues related to the lack of formality and rigor of TA-V processes, and experienced inconsistent formality of operations in other organizations.
- Experienced issues in the emergency management readiness assurance program.
- Did not consistently ensure mission support requirements were being met early in the facility planning process.

Goal 6

- Did not proactively engage in developing a viable enterprise strategy to address B61-12 LEP and W88 ALT 370 Issues.
- Continued to experience a high volume of Category A security incidents.