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

Award Fee Scorecard

<table>
<thead>
<tr>
<th>Goal</th>
<th>Rating</th>
<th>At Risk Available</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal-1: Manage the Nuclear Weapons Mission</td>
<td>Very Good</td>
<td>$3,071,707</td>
<td>$2,610,951</td>
</tr>
<tr>
<td>Goal-2: Reduce Nuclear Security Threats</td>
<td>Excellent</td>
<td>$767,927</td>
<td>$729,531</td>
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<tr>
<td>Goal-3: DOE &amp; Strategic Partnership Projects Mission Objectives</td>
<td>Excellent</td>
<td>-0-</td>
<td>-0-</td>
</tr>
<tr>
<td>Goal-4: Science, Technology &amp; Engineering (ST&amp;E)</td>
<td>Excellent</td>
<td>-0-</td>
<td>-0-</td>
</tr>
<tr>
<td>Goal-5: Operations &amp; Infrastructure</td>
<td>Very Good</td>
<td>$2,303,780</td>
<td>$1,958,213</td>
</tr>
<tr>
<td>Goal-6: Leadership</td>
<td>Very Good</td>
<td>$1,535,854</td>
<td>$1,167,249</td>
</tr>
<tr>
<td><strong>Total Award Fee</strong></td>
<td>Very Good</td>
<td><strong>$7,679,268</strong></td>
<td><strong>$6,465,944</strong></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Available</th>
<th>Final</th>
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</thead>
<tbody>
<tr>
<td>Fixed Fee</td>
<td>$19,198,170</td>
<td>$19,198,170</td>
</tr>
<tr>
<td>SPP (Fixed Fee)</td>
<td>$10,431,900</td>
<td>$10,431,900</td>
</tr>
<tr>
<td>Total Fixed Fee</td>
<td>$29,630,070</td>
<td>$29,630,070</td>
</tr>
<tr>
<td><strong>Total Fee (Award Fee and Fixed Fee)</strong></td>
<td><strong>$37,309,338</strong></td>
<td><strong>$36,096,014</strong></td>
</tr>
</tbody>
</table>

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 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.