Fiscal Year 2016

DOE/NNSA Strategic Performance Evaluation and Measurement Plan (PEMP)

Consolidated Nuclear Security, LLC

Management and Operation

of the

Pantex Plant and the Y-12 National Security Complex

Contract Number: DE-NA0001942


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<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Change Description</th>
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FY 2016 Performance Evaluation Measurement Plan (PEMP)  
Consolidated Nuclear Security, LLC, DE-NA00001942  
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October 1, 2015
INTRODUCTION

The Pantex Plant (Plant) and Y-12 National Security Complex (Y-12) are plant sites owned by the United States Department of Energy (DOE), herein referenced as “Pantex/Y-12 plants” and is managed by Consolidated Nuclear Security, LLC (CNS). Pursuant to the terms and conditions of the Contract, this NNSA Performance Evaluation and Measurement Plan (PEMP) sets forth the criteria in which CNS performance will be evaluated and upon which the determination of the amount of award fee earned shall be based. The available award fee amounts for FY 2016 are specified in Section B, Supplies or Services and Prices/Costs, of the contract. This PEMP promotes a strategic Governance and Oversight framework based on prudent management of risk, accountability, transparency, and renewed trust. It has been written to implement the collective governance and oversight reform principles as expressed by the DOE/National Nuclear Security Administration (NNSA).

PERFORMANCE BASED APPROACH

The performance-based approach evaluates the CNS performance through a set of Goals. Each Goal, and its associated Objectives and Key Outcomes (KOs), will be measured against authorized work in terms of cost, schedule, and technical performance, and the respective outcomes, demonstrated performance, and impact to the DOE/NNSA mission.

MISSION

The Pantex Plant mission supports managing the nation’s nuclear stockpile by performing disassembly, inspection and rebuild of weapon evaluations cycle units, assembly of Joint Test Assemblies (JTAs) and JTA post mortem analysis, assembly and disassembly of test bed units, Limited Life Component Exchange, programmatic alterations (usually defined as Alts or Mods), weapon repairs, weapon and component radiography and non-destructive evaluation, High Explosive (HE) testing and explosive component evaluation, pit and non-nuclear evaluations, electrical and mechanical test, and surveillance and evaluation testing in support of Quality Evaluation Reports.

The Y-12 National Security Complex supports national security programs through production of weapons components and parts; stockpile evaluation and maintenance; stockpile surveillance; dismantlement; and nuclear materials management, storage, and disposition. Its primary mission is the manufacturing of modern secondaries and processing and storage of highly enriched uranium.

Additionally, Pantex and Y-12 support several of the other NNSA identified missions, including nuclear non-proliferation, the Naval Reactors Program, emergency response, continuing management reform, and recapitalizing NNSA infrastructure.

MISSION PERFORMANCE

CNS is accountable for and will be evaluated on successfully executing program work in accordance with applicable DOE/NNSA safety and security requirements consistent with the terms and conditions of the Contract. Protection of worker and public safety, the environment, and security are essential and implicit elements of successful mission performance. Accordingly, CNS shall plan safety and security improvements and accomplishments as an integral component of mission performance contributing to meeting the affected programmatic Goals. The model for this PEMP is to rely on CNS leadership to use appropriate DOE contractual requirements and recognized industrial standards based on consideration of assurance systems, and the related measures, metrics, and evidence. **CNS is expected to manage in a safe, secure, efficient, effective, results-driven manner, with appropriate risk management and transparency to the government, while taking appropriate measures to minimize costs that do not compromise core objectives and mission performance.** Products and services are expected to be delivered on-schedule and within budget.
CONSIDERATION OF CONTEXT IN PERFORMANCE EVALUATION

The evaluation of performance will consider “context” such as unanticipated barriers (e.g., budget restrictions, rule changes, circumstances outside CNS control), degree of difficulty, significant accomplishments, and other events that may occur during the performance period. A significant safety or security event may result in an overall limitation to adjectival ratings. Such impacts may be balanced by the response to the incident, and by other initiatives to improve overall safety or security performance. CNS is encouraged to note significant safety and security continuous improvements.

PERFORMANCE RATING PROCESS

DOE/NNSA will review performance throughout the performance evaluation period, and provide tri-annual feedback to CNS highlighting successes and/or needed improvement. At the end of the performance evaluation period, an evaluation of CNS performance will be completed. This evaluation will be documented in a Performance Evaluation Report (PER), and will include the performance ratings and award fee earned for the subject performance evaluation period. Objectives and KOs will be assessed in the aggregate to determine an adjectival performance rating for each Goal. DOE/NNSA will consider CNS end of year self-assessment report in the performance evaluation. The performance ratings will be determined in accordance with FAR 16.401(c) (3) yielding ratings of Excellent, Very Good, Good, Satisfactory or Unsatisfactory. The Goals will then be considered in the aggregate to provide an overall rating and percentage of award fee earned for the contract. Notwithstanding the overall strategic framework, any significant failure may impact the overall rating and award fee earned. The Fee Determining Official’s (FDO) award fee determination is a unilateral decision made solely at the discretion of NNSA.

PEMP CHANGE CONTROL

It is essential that a baseline of performance expectations be established at the beginning of the performance period to equitably measure performance, and that changes to that baseline are carefully managed. Any change to the PEMP requires concurrence by the appropriate program office and the NNSA Senior Procurement Executive prior to the Field Office Manager and Contracting Officer signatures. While recognizing the unilateral rights of DOE/NNSA as expressed in the contract terms and conditions, bilateral changes are the preferred method of change whenever possible.

FINAL DECISION

CNS may request a face-to-face meeting with the FDO to highlight their site’s strategic performance at the end of the performance evaluation period. This meeting should occur within the first two weeks after the end of the period.
### TOTAL AVAILABLE AWARD FEE ALLOCATION

<table>
<thead>
<tr>
<th>Performance Category</th>
<th>Goal</th>
<th>% At-Risk Fee Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programs (NA-10)</td>
<td><strong>Goal-1</strong>: Manage the Nuclear Weapons Mission</td>
<td>35%</td>
</tr>
<tr>
<td>Programs (NA-20, NA-40, NA-80)</td>
<td><strong>Goal-2</strong>: Reduce Nuclear Security Threats</td>
<td>10%</td>
</tr>
<tr>
<td>Programs (FOM)</td>
<td><strong>Goal-3</strong>: DOE and Strategic Partnership Projects Mission Objectives</td>
<td>5%</td>
</tr>
<tr>
<td>Programs (FOM)</td>
<td><strong>Goal-4</strong>: Science, Technology, and Engineering (ST&amp;E)</td>
<td>5%</td>
</tr>
<tr>
<td>Operations &amp; Mission Execution (FOM)</td>
<td><strong>Goal-5</strong>: Operations and Infrastructure</td>
<td>35%</td>
</tr>
<tr>
<td>Leadership (FOM)</td>
<td><strong>Goal-6</strong>: Leadership</td>
<td>10%</td>
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### UNEARNED FEE
DOE/NNSA reserves the right to withdraw and redistribute DOE/NNSA unearned fees.

### AWARD TERM INCENTIVE
This Contract includes several options: three options (Option Terms 1-3) extend the term of this Contract and an option to include SRTO within the scope of this Contract.

(a) **Option Exercise for Additional Term**

Gateway Decision: The Gateway Decision is a unilateral decision of the FDO based on the Contractor’s performance rating under this Contract in accordance with the Performance Evaluation Plan, and the Contractor’s delivery of cost savings reflected in the cost savings profile in Section J, Appendix D, Merger Transformation Plan. The standard of performance is such that the score in the annual PER must be “very good” or above (or achieve 80% or better) under the Performance Evaluation Plan for the performance years evaluated under the Base Term and Option Terms, if exercised, evaluated below. The Contractor must also meet a minimum of 80% of the total projected cost savings within the cost savings profile in Section J, Appendix D, Merger Transformation Plan for the combined performance years evaluated for each gateway decision point, as reflected in the table below. If the FDO’s decision is to award additional term, the Contract will be modified unilaterally by the Contracting Officer to extend the term of the Contract, after considering NNSA requirements, in accordance with the Contract’s Section I Clause entitled “FAR 52.217-9, Option to Extend the Term of the Contract”.

Option Term 1: Commencing in the fourth year of the Contract, the Contract’s period of performance may be extended for two additional years based on the standard of performance (score) and cost savings noted above.
Option Term 2: Commencing in the sixth year of the Contract, the Contract’s period of performance may be extended for two additional years based on the standard of performance (score) and cost savings noted above.

Option Term 3: Commencing in the eighth year of the Contract, the Contract’s period of performance may be extended for one additional year based on the standard of performance (score) and cost savings noted above.

The table below reflects Option Terms 1, 2, & 3.

<table>
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<tr>
<th>Gateway Decision Point</th>
<th>Performance Years* Evaluated</th>
<th>Option Years* Available</th>
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<tbody>
<tr>
<td>Option Term 1</td>
<td>Beginning of Year 4*</td>
<td>1-3</td>
</tr>
<tr>
<td>Option Term 2</td>
<td>Beginning of Year 6*</td>
<td>4-5</td>
</tr>
<tr>
<td>Option Term 3</td>
<td>Beginning of Year 8*</td>
<td>6-7</td>
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*Years are counted from the beginning of the Base Term.

(b) Option Exercise to add SRTO

This option allows for adding the SRTO scope of work to the Contract. If the NNSA determines it is in the best interest of the Government to exercise this option, the Contract will be modified unilaterally by the Contracting Officer to add the SRTO effort. Immediately upon option exercise, the Contractor will be required to provide a Transition Plan including the same elements as noted in Section F, F-7(a) and (b). The Contractor shall also update applicable Contract requirements, as directed by the Contracting Officer, including, but not limited to, the Performance Guarantee(s) and Subcontracting Plan, at the time of option exercise. NNSA may exercise the SRTO option at the end of the first year; however the determination will be based on NNSA mission requirements and other factors.

INNOVATIVE SOLUTIONS

CNS will recommend innovative, science-based, systems-engineering solutions to the most challenging problems that face the nation and the globe. CNS will also provide evidence to support programmatic needs and operational goals tempered by risk. DOE/NNSA will take into consideration all major functions including safety and security contributing to mission success. In addition, CNS is expected to recommend and implement innovative business and management improvement solutions that enhance efficiencies.
Goal-1: Manage the Nuclear Weapons Mission

Successfully execute Nuclear Weapons mission work in a safe and secure manner in accordance with DOE/NNSA Priorities, Program Control Document and Deliverables, and Program Implementation Plans, and Weapon Quality Assurance Requirements. Integrate across the Pantex/Y-12 plants, while maintaining a DOE/NNSA enterprise-wide focus, to achieve greater impact on a focused set of strategic national security priorities.

Objectives:

Objective-1.1 Accomplish work as negotiated with program sponsors and partners integrating quality requirements into an effective quality assurance program at their sites and through their suppliers that results in the design, production, and delivery of safe, secure, and reliable weapon products meeting performance, transportation, and cost effective operations.

Objective-1.2 Maintain knowledge of the state of the stockpile, resulting from successful execution of the stockpile surveillance program and a robust scientific and engineering understanding for the delivery of the annual stockpile assessment.

Objective-1.3 Execute stockpile work to deliver stockpile system maintenance, production, limited-life component exchanges, weapon containers and dismantlements.

Objective-1.4 Demonstrate the application of new strategies, technologies, and scientific understanding to support stewardship of the existing stockpile and future stockpile needs.

Objective-1.5 Sustain unique science and engineering capabilities, facilities and essential skills to ensure current and future Nuclear Weapons mission requirements will be met.

Objective 1.6 Execute Phase 6.X and product realization processes and activities in support of nuclear weapon life extension programs, modification and alterations in accordance with NNSA requirements and Nuclear Weapons Council guidance.

Key Outcome(s):

KO 1.1 Complete the development of an effective and robust container/Packaging & Transportation program initiated in FY2015 and ensure that mission needs are met at least cost in FY2016. Finalize the demonstration to NNSA that CNS has corrected the DPP-2 packaging structural modeling and analyses deficiencies in FY2016 to support packaging development as a design agency for the DPP-2.

KO 1.2 Effectively execute B61-12 LEP, W88 Alt 370 and W80-4 LEP Phase 6.X programs in accordance with program-specific and NNSA Project Controls System directives, including Earned Value Management System implementation, in order to: 1) meet schedule, 2) comply with Phase 6.x Process and Product Realization Processes; 3) lower risks; 4) control change; and 5) control costs.

KO 1.3 Continue to implement the Enriched Uranium Mission Strategy and Requirements, as outlined in the Implementation Plan for the Highly Enriched Uranium Mission Strategy and funded through the appropriate work authorizations to optimize scope and performance, further needed technologies and integrate with the UPF project, all to ensure long-term stewardship of the Y-12 site. Execute the required actions to achieve the purified metal production objectives, while continuing to successfully implement the Material Recycle and Recovery scope as defined in the work authorization documents.
Goal-2: Reduce Nuclear Security Threats

Successfully execute authorized global nuclear security mission work in a safe and secure manner to include the Defense Nuclear Nonproliferation, Nuclear Counterterrorism, and Counter Proliferation and Incident Response missions. Integrate across the NNSA enterprise to achieve greater impact on a focused set of strategic national security priorities.

Objectives:

Objective-2.1 Support efforts to secure, account for, and interdict the illicit movement of nuclear weapons, weapons-useable nuclear materials and radiological materials.

Objective-2.2 Support U.S. national and nuclear security objectives in reducing global nuclear security threats through the innovation of unilateral and multi-lateral technical capabilities to detect, identify, and characterize: 1) foreign nuclear weapons programs, 2) illicit diversion of special nuclear materials, and 3) global nuclear detonations.

Objective-2.3 Support efforts to achieve permanent threat reduction by managing and minimizing excess weapons-useable nuclear materials and providing nuclear materials for peaceful uses.

Objective-2.4 Support efforts to prevent proliferation, ensure peaceful nuclear uses, and enable verifiable nuclear reductions in order to strengthen the nonproliferation and arms control regimes.

Objective-2.5 Sustain and improve nuclear counterterrorism and counterproliferation science, technology, and expertise; execute unique emergency response missions, implement policy in support of incident response and nuclear forensics missions, and assist international partners/organizations.

Key Outcome(s):

KO 2.1 Successfully produce experimental products for the U. S. High Performance Research Reactor program (USHPRR) supporting reactor conversions.

KO 2.2 Support the timely and complete removal of all HEU fuel from Japan’s Fast Critical Assembly.
Goal-3: DOE and Strategic Partnership Projects Mission Objectives

Successfully execute high-impact work for DOE and Strategic Partnership Project Mission Objectives safely and securely. Demonstrate the value of the work in addressing the strategic national security needs of the U.S. Government.

Objectives:

Objective-3.1  Pursue and perform high-impact work for DOE that strategically integrates with the DOE/NNSA mission, and leverages, sustains and strengthens unique science and engineering capabilities, facilities and essential skills.

Objective-3.2  Pursue and perform high-impact Strategic Partnership Projects that strategically integrates with the DOE/NNSA mission, and leverages, sustains and strengthens unique science and engineering capabilities, facilities and essential skills in support of national security mission requirements.

Key Outcome(s):
None
Goal-4: Science, Technology, and Engineering (ST&E)

Successfully advance national security missions and advance the frontiers of ST&E in accordance with budget profile, scope, cost, schedule and risk while achieving the expected level of quality, safety and security. Effectively manage Pantex/Y-12 plants Directed Research and Development (PDRD) and Technology Transfer programs to advance the frontiers of ST&E.

Objectives:

Objective-4.1 Execute a research strategy that is clear and aligns discretionary investments (e.g., (PDRD)) with Pantex/Y-12 plants strategy and supports DOE/NNSA priorities.

Objective-4.2 Ensure that research is relevant, enables the national security missions, and benefits DOE/NNSA and the nation.

Objective-4.3 Ensure that research is transformative, innovative, leading edge, high quality, and advances the frontiers of science and engineering.

Objective-4.4 Maintain a healthy and vibrant research environment that enhances technical workforce competencies and research capabilities.

Objective-4.5 Research and develop high-impact technologies through effective partnerships and technology transfer mechanisms that support the Pantex/Y-12 plants strategy, DOE/NNSA priorities and impact the public good; ensure that reporting and publishing (via DOE’s Public Access Plan) requirements for broad availability of federally funded scientific research are implemented.

Key Outcome(s):

None
Goal-5: Operations and Infrastructure

Effectively and efficiently manage the safe and secure operations of the Pantex/Y-12 plants while maintaining an NNSA enterprise-wide focus; demonstrate accountability for mission performance and management controls; assure mission commitments are met with high-quality products and services; and maintain excellence as a 21st century government-owned, contractor-operated facility.

Objectives:

Objective-5.1 Deliver effective, efficient, and responsive environment, safety, health and quality (ESH&Q) management and processes.

Objective-5.2 Accomplish capital projects in accordance with scope, cost, and schedule baselines.

Objective-5.3 Deliver effective, efficient, and responsive safeguards and security. Deliver effective site emergency management programs in support of the DOE/NNSA Emergency Management Enterprise.

Objective-5.4 Maintain, operate and modernize DOE/NNSA facilities, infrastructure, and equipment in an effective, energy efficient manner; including disposition of unneeded infrastructure and excess hazardous materials. Demonstrate progress to advance the Department of Energy’s crosscut initiative to halt the growth of deferred maintenance and support arresting the declining state of infrastructure.

Objective-5.5 Deliver efficient, effective, and responsible business operations, systems and financial management, including financial transparency; budget formulation and execution; and, internal controls.

Objective-5.6 Deliver efficient and effective management of legal risk and incorporation of best legal practices.

Objective-5.7 Deliver effective, efficient, and responsive information technology systems and cyber security.

Key Outcome(s):

KO 5.1 Aggressively and responsibly manage NNSA infrastructure to: 1) deliver cost efficient improvements; 2) meet energy conservation goals; 3) minimize operational, security, and safety risks; 4) increase the viable use of facilities; and, equipment; and, 5) shrink the infrastructure footprint in the best interest of the NNSA while working collaboratively with NNSA to implement management improvements (e.g., G2, MDI, BUILDER, and AMPs).

KO 5.2 Implement Nuclear Safety and Engineering programs that promote the safe execution of nuclear safety and nuclear explosive safety work, and that build and maintain a sound engineering and technical base. This includes effectively supporting installation of equipment that eliminates critical single point failure of safety Structures, Systems, and Components; new facility construction, including major modifications; effectively executing the Uranium Processing Facility Design Authority responsibilities; and, the ongoing NS&E improvement plans and initiatives, e.g., DSAIP, NCSIP, PISAIP, etc.

KO 5.3 Deliver effective, efficient, and responsive emergency preparedness and services with specific emphasis on strengthening the Pantex Emergency Management Program. Support milestones for the improvement of emergency preparedness and response core capabilities and demonstrate site-specific actions to increase overall readiness and performance. (NA-40)
KO 5.4 Implement a Quality Assurance Program that effectively implements contractual quality-related requirements, including the graded approach to quality, into Facility, Weapons, Construction and Software activities, ensuring procurement quality activities demonstrate measurable improvements in nuclear safety item/weapons product acceptance. Weapons Quality Assurance activities will be effectively executed to include processes to identify and correct weapon product and process defects to ensure continued weapon product acceptance delegation capability.

KO 5.5 Implement a cradle to grave Material Management Program, in concert with the Supply Chain Management System. The program shall ensure the inventory of material is sufficient to meet operational needs, minimizes purchasing surplus material, stores material in a manner that prevents degradation, and has a defined disposition path, and is dispositioned in a timely manner.
Goal-6: Leadership

Successfully demonstrate leadership in supporting the direction of the overall DOE/NNSA mission, improving safety culture, the responsiveness of CNS leadership team to issues and opportunities for continuous improvement internally and across the Enterprise, and parent company involvement/commitment to the overall success of the Pantex/Y-12 plants and the Enterprise.

Objectives:

Objective-6.1 Define and implement a realistic strategic vision for the Pantex/Y-12 plants, in alignment with the NNSA Strategic Vision, which demonstrates enterprise leadership and effective collaborations across the NNSA enterprise to ensure DOE/NNSA success.

Objective-6.2 Demonstrate performance results through the institutional utilization of a Contractor Assurance System and promoting a culture of critical self-assessment, transparency, and accountability through the entire organization, while also leveraging parent company resources and expertise.

Objective-6.3 Work selflessly within the DOE/NNSA complex to develop, integrate, and implement enterprise solutions that maximize program outputs at best value to the government; identify innovative business and management solutions that greatly improve enterprise-wide efficiencies.

Objective-6.4 Exhibit professional excellence in performing roles/responsibilities while pursuing opportunities for continuous learning.

Key Outcome(s):

KO 6.1 Demonstrate exceptional leadership in integrating NSE production activities; enhancing cooperation and problem solving with Design Agencies; and incorporating best practices and lessons learned from other NSE elements.

KO 6.2 Continue to establish a Performance Excellence Culture that enhances all aspects of CNS operations. Performance Excellence must include both immediate and long term actions that result in tangible improvements in the conduct of disciplined operations. An effective Performance Excellence Culture includes a mature Contractor Assurance System that links Performance Excellence and Performance Assurance to provide a more effective evaluation of performance and assurance of sustained performance improvement.