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**Fiscal Year 2022**  
**DOE/NNSA Strategic Performance Evaluation and Measurement Plan (PEMP)**

**Consolidated Nuclear Security LLC**

**MANAGEMENT AND OPERATION OF THE**

**Pantex Plant and Y-12 National Security Complex**

**Contract Number: DE-NA0001942**

**Performance Evaluation Period: October 01, 2021 through March 31, 2022**

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# FY 2022 PERFORMANCE EVALUATION AND MEASUREMENT PLAN

## DOCUMENT REVISION HISTORY

Revision	Date	Change Description
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## INTRODUCTION

The Pantex Plant (Pantex) and Y-12 National Security Complex (Y-12) are plants owned by the United States Government, under the custody of the Department of Energy (DOE) and is managed and operated 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 by which NNSA will evaluate CNS performance and upon which NNSA shall determine of the amount of award fee earned. The available award fee amounts for FY 2022 are specified in Section B, *Supplies or Services and Prices/Costs*, of the Contract. This PEMP promotes a strategic Governance and Management Framework in support of the NNSA's Strategic Vision. The significant challenges of this Vision requires CNS performance in meeting mission milestones of key mission objectives and support in addressing significant management challenges identified by NNSA.

## PERFORMANCE BASED APPROACH

The performance-based approach evaluates CNS's 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 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 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.

Y-12 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 other NNSA identified missions, including nuclear nonproliferation, 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.

### **INNOVATIVE SOLUTIONS**

CNS will recommend innovative, technology/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, DOE/NNSA expects CNS to recommend and implement innovative business and management improvement solutions that enhance efficiencies.

### **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. Given the abbreviated performance period, it is understood that CNS will be evaluated on progress toward completion of the Objectives, Goals, and Key Outcomes in the PEMP. NNSA will utilize definitive measures to the maximum extent practicable to assess performance such as established baseline schedules or progress towards interim and final deliverables. It is anticipated that any interim report would be issued using the standard Contractor Performance Evaluation Process schedule. A final Performance Evaluation Report (PER) will be issued covering all exercised FY 2022 periods of performance under this PEMP in accordance with Contract Clause B-7. The PER preparations will utilize the considerations in this paragraph. NNSA anticipates using standard PER preparation durations.

## PERFORMANCE RATING PROCESS

DOE/NNSA will review performance throughout the performance evaluation period, and provide interim feedback (as appropriate) to CNS highlighting accomplishments and/or issues. At the end of the performance evaluation period, an evaluation of CNS performance will be completed based on contractor oversight against the criteria in the PEMP. Sources of oversight data include, but are not limited to, DOE/NNSA formal assessments, contractor self-assessments, internal and external audits, inspections, program and project reviews, operational awareness activities, contractor assurance system, etc.

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 (if any) will be assessed in the aggregate to determine an adjectival performance rating for each Goal. DOE/NNSA will consider the CNS end of period self-assessment report in the performance evaluation. The performance ratings will be determined in accordance with FAR 16.401(e) (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 in any goal may impact the overall rating and award fee earned. **Dollar values contained in the PEMP are provided as guidelines for developing a recommendation of fee allocation to the Fee Determining Official (FDO). The final determination as to the amount of award fee earned is a unilateral determination made by the FDO.**

CNS may request a face-to-face meeting with the FDO to highlight its 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.

## 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.

**FEE ALIGNMENT AND “AT-RISK” AWARD FEE ALLOCATION**

**This table is provided for information only and does not change the terms and conditions of the contract.** “At-Risk” Award Fee (AF) is applied to goals 1, 2, 5, and 6 and Fixed Fee (FF) is applied to goals 3, 5, and 6. Goal 3 displays total estimated fee attributable to DOE work. The sum of dollars available for goals 1, 2, 5, and 6 equals total AF for both DOE and NNSA work. All goals, including those with FF, will receive an adjectival assessment as a part of the Corporate Performance Evaluation Process (CPEP).

**Fixed Fee (FF), Award Fee (AF), SPP Fixed Fee (SPP FF)**

<b>Goal</b>	<b>Fee Amount</b>	<b>Fee Type</b>
<b>Goal-1:</b> Mission Execution: Nuclear Weapons	\$11,734,188	Award Fee (At-Risk)
<b>Goal-2:</b> Mission Execution: Global Nuclear Security	\$5,028,938	Award Fee (At-Risk)
<b>Goal-3:</b> DOE and Strategic Partnership Projects (SPP)	\$512,000	Fixed Fee
<b>Goal-4:</b> Mission Execution: Science, Technology, and Engineering (ST&E)	\$0	Fixed Fee
<b>Goal-5:</b> Mission Enablement	\$6,705,250	Award Fee (At-Risk)
	\$2,616,500	Fixed Fee
<b>Goal-6:</b> Mission Leadership	\$3,352,625	Award Fee (At-Risk)
	\$2,616,500	Fixed Fee

*\*Display of total estimated fee attributable to DOE work.*

*The above template is applied to each field office using Fixed Fee (FF) and (At-Risk) Award Fee (AF) amounts established in each individual contract. The chart does not include Fee associated with Capital Asset Projects such as UPF and LPF nor the fixed fee for this evaluation period associated with any current or former cost savings programs.*

**UNEARNED FEE**

DOE/NNSA reserves the right to withdraw and redistribute DOE/NNSA unearned fees.

## **Goal-1: Mission Execution: Nuclear Weapons**

Successfully execute the cost, scope, and schedule of the Nuclear Stockpile mission work for Defense Programs work in a safe and secure manner in accordance with DOE/NNSA priorities, Work Authorizations, and Execution/Implementation Plans.

### **Objectives:**

- Objective-1.1: Complete program work requirements and activities that 1) comply with an effective and established site-wide quality assurance program that integrates weapons quality requirements; 2) maintain a resilient supplier base; 3) improve modeling and analysis capabilities to accurately measure production; 4) improve production capability, material accountability, quality, and cost per unit work performance; 5) implement measures for improving responsiveness and resilience of required production capabilities; 6) meet transportation requirements; and, 7) execute design, development, production and delivery in a safe, secure, reliable, and cost effective environment.
- Objective-1.2: Execute production modernization processes and activities to sustain and improve production capabilities, equipment, and infrastructure for 1) War Reserve (WR) production site-to-site interface controls; 2) components (primary, secondary, non-nuclear) modernization and production; 3) strategic materials capabilities and productions; and 4) improve safety margins, technology maturation strategies, and qualification, logistics, and security plans collaboratively across the NSE.
- Objective-1.3: Provide the knowledge and expertise to maintain confidence in the nuclear stockpile without additional nuclear explosive testing by developing, maturing, and applying innovative strategies and technologies to sustain a robust stockpile and improve science and engineering capabilities, facilities and essential skills to support existing and future nuclear security enterprise requirements.
- Objective-1.4: Execute stockpile system maintenance, production, limited-life component exchanges, weapon containers, surveillance, assessment, development studies/capability improvements, weapon program planning/support and dismantlement and disposition activities to meet DoD commitments and deliver the annual stockpile assessment.
- Objective-1.5: Work as a team on stockpile modernization program scope to 1) achieve and maintain program delivery schedules; 2) lower risk to achieving First Production Unit (FPU), Initial Operational Capability (IOC), and Final Operational Capability (FOC); 3) improve manufacturability and supply chain execution; and 4) control costs.

### **Key Outcomes:**

- KO 1.1 Complete critical steps to re-establish the Vacuum Induction Melt-Vacuum Arc Remelt-Vacuum Arc Remelt (VIM-VAR-VAR) production capability at Y-12, including equipment installations, maintenance, and start-up activities necessary to achieve operational status for the Production VAR.
- KO 1.2 Execute activities to develop and deploy special materials component manufacturing

capabilities for current and future programs of record.

KO 1.3 Accomplish FY 2022 Uranium Modernization Program goals for new technology deployment, including Process Technology Development, direct cast technology, microwave casting and other technology maturation work.

KO 1.4 Execute Fulmer activities to deploy capabilities in support of W80-4 mission needs.



## **Goal-2: Mission Execution: Global Nuclear Security**

Successfully execute the cost, scope, and schedule of the authorized global nuclear security mission work in a safe and secure manner to include the Defense Nuclear Nonproliferation, Nuclear Counterterrorism and Counterproliferation, and Incident Response missions in accordance with DOE/NNSA priorities, Work Authorizations, and Execution/Implementation Plans,

### **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 Outcomes:**

- KO 2.1 Produce 12 low enriched uranium castings and deliver 12 castings worth of ingots for the U.S. High Performance Research Reactor (USHPRR) Program.
- KO 2.2 Maintain operational readiness and manage and maintain equipment for nuclear forensics operations at Pantex. Develop and submit National Nuclear Material Archive (NNMA) nomination packages and execute archive subsample projects in accordance with NNMA work authorizations, implementation plan, and site task plan at Y-12.
- KO 2.3 Ensure all Mobile Uranium Facility Key Performance Indicators have been met.

### **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.

#### **Goal-4: Mission Execution: Science, Technology, and Engineering (ST&E)**

Successfully advance national security missions and advance the frontiers of ST&E. Effectively manage Site Directed Research and Development (SDRD) and Technology Transfer, etc. in a safe and secure manner in accordance with DOE/NNSA priorities, Work Authorizations, and Execution/Implementation Plans.

##### **Objectives:**

- Objective-4.1: Execute a research strategy that is clear and aligns discretionary investments (e.g., SDRD with NNSA 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 Site's strategy, DOE/NNSA priorities and impact the public good; and ensure that reporting, publishing, and information management requirements of federally funded scientific research and development are implemented (via DOE's Public Access Plan) and per DOE's Scientific and Technical Information Management directive (DOE O 241.1B).

## Goal 5: Mission Enablement

Effectively and efficiently manage the safe and secure operations of Pantex and Y-12 in accordance with cost, scope and schedule while maintaining an NNSA enterprise-wide focus; demonstrating accountability for mission performance and management controls; successfully executing cyber, technical, informational, and physical security requirements, and assure mission commitments are met with high-quality products and services while partnering to improve the site infrastructure. Performance will be measured by the contractor's assurance system, NNSA metrics, cost control, business and financial operations, project baselines, implementation plans, assessment and audit results, etc., with a focus on mission enablement.

### Objectives:

- Objective-5.1: Deliver effective, efficient, and responsive Environment, Safety, Health and Quality (ESH&Q) and radioactive waste management.
- Objective-5.2: Execute design and construction projects to achieve the scope on schedule and on budget with no significant quality or safety issues while partnering with NNSA to achieve balanced cost and schedule risk through effective acquisition approaches and processes.
- Objective-5.3: Deliver effective, efficient, and responsive safeguards and security.
- Objective-5.4: Manage NNSA infrastructure to maintain, operate and modernize DOE/NNSA facilities, infrastructure, and equipment in an effective, energy efficient, resilient manner that minimizes operational, security, and safety risks. Improve site conditions via: 1) disposition of materials and infrastructure in accordance with established priorities, 2) increasing the viable use of facilities and equipment, 3) delivering cost efficient improvements, and 4) focus on the amount of predictive/preventive maintenance work to reduce risks of disruption to mission operations. 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 while working collaboratively with NNSA to implement management improvements (e.g., G2, MDI, BUILDER, Site and Area Planning, and AMPs). Improve performance in meeting NNSA's sustainability goals with a focus on maximizing energy efficiency for enduring infrastructure and supporting the use of Energy Savings Performance Contracts, Utility Energy Service Contracts, and Power Purchase Agreements.
- Objective-5.5: Deliver efficient, effective, responsible and transparent financial management operations and systems including financial integration reporting; 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 cybersecurity that provides for a comprehensive mission and functional area delivery through the completion of the implementation factors established in the NA-IM IT and Cybersecurity Program Execution Guidance.
- Objective-5.8: Deliver effective, efficient, and responsive site emergency management programs in support of the DOE/NNSA Emergency Management Enterprise.
- Objective-5.9: Deliver efficient, effective, and compliant business operations including, but not limited to, procurement, human resources, and property systems, in support of NNSA missions.

Focus areas to include: major acquisitions; subcontractor evaluation, selection, and management; achievement of small business and socioeconomic goals; support provided to the NSE Workforce Recruitment Strategy; strategic management of integrated recruiting, retention, and diversity programs; and cost effective compensation and benefits programs.

Key Outcomes:

- KO 5.1 Complete the actions established in the FY 2021-23 CNS Enterprise Plan for Improving IT & Cybersecurity (EPIIC).
- KO 5.2 Effectively work with NTESS to meet the Performance Measurement Baseline for the West End Protected Area Reduction work and complete NA-50 projects to enable WEPAR to achieve approved milestones.
- KO 5.3 Complete Y-12 Emergency Operations Center and Fire Station activities, adhering to the streamlined approach and established cost and schedule baselines.
- KO 5.4 For High Explosives Synthesis, Formulation & Production, complete CD-3A Final Issue for Construction Design deliverables and other documents needed to support CD-3A approval.
- KO 5.5 Execute FY 2022 activities to establish the Electrorefining, Building 9212 Calciner, and Direct Chip Melt production capabilities.
- KO 5.6 Complete timely resolution of known retirement plan operational errors and establish a robust internal control plan to limit future retirement plan operational errors.

## **Goal-6: Mission Leadership**

Successfully demonstrate leadership in supporting the direction of the overall DOE/NNSA mission, cultivating a Performance Excellence Culture that encompasses all aspects of operations and continues to emphasize safety and security, improving the responsiveness of the 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 Pantex and Y-12 and the Enterprise.

### **Objectives:**

- Objective-6.1: Define and implement a realistic strategic vision for the sites, 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: Demonstrate collaborative activities/deliverables to other partners that provide tangible benefits to reducing the risk meeting Goal 1 requirements. This includes—  
1) Develop, integrate, communicate and implement enterprise-wide plans; 2) provide solutions and actions that improve Design Agency and Production Agency teaming; 3) drive cultural changes with measurable and sustainable improvements; 4) optimize make/buy decisions and processes to qualify in-house and COTS components; 5) plan, manage, and execute small projects critical to mission success; and 6) achieve life cycle efficiencies throughout the DOE/NNSA complex.
- Objective-6.4: Exhibit professional excellence in performing roles/responsibilities while pursuing opportunities for continuous learning and demonstrated improvements.
- Objective-6.5: Demonstrate leadership in driving enhanced and sustainable formality and rigor of operations through proactive implementation of effective and efficient measures to minimize operational upsets that have potential to impact mission.

**FAR 16.401 (e) (3) AWARD FEE ADJECTIVAL RATINGS AND SUPPLEMENTAL DEFINITIONS**

<p>Excellent</p>	<p>91%-100%</p>	<p>Contractor has exceeded almost all of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.</p> <p><i>This performance level is evidenced by at least one significant accomplishment, or a combination of accomplishments that significantly outweigh very minor issues, if any. No significant issues in performance exist.</i></p>
<p>Very Good</p>	<p>76% - 90%</p>	<p>Contractor has exceeded many of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.</p> <p><i>This performance level is evidenced by accomplishments that greatly outweigh issues. No significant issues in performance exist.</i></p>
<p>Good</p>	<p>51% - 75%</p>	<p>Contractor has exceeded some of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.</p> <p><i>This performance level is evidenced by accomplishments that slightly outweigh issues. No significant issues in performance exist.</i></p>
<p>Satisfactory</p>	<p>No greater than 50%</p>	<p>Contractor has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.</p> <p><i>This performance level is evidenced by issues that slightly outweigh accomplishments.</i></p>

Unsatisfactory	0%	<p>Contractor has failed to meet overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.</p> <p><i>This performance level is evidenced by issues that significantly outweigh accomplishments, if any.</i></p>
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**Definitions:**

An **Accomplishment** is an achievement or success in the performance of contract requirements that exceeds standards or expectations. Examples might be performing full contract requirements under budget while meeting or beating schedule baselines or performing additional scope within the initial cost targets with no negative effect on requirements or other programs, indicating continued performance improvement.

An **Issue** is a point in question or a matter that raises concerns regarding successful performance of contract requirements within scope, cost (budget), and schedule baselines or concern of negative effect on requirements or other programs, indicating a decline in performance that needs attention and improvement.