

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


**Triad National Security, LLC**


**MANAGEMENT AND OPERATION OF THE**

**Los Alamos National Laboratory**

**Contract Number: 89233218CNA000001**

**Performance Evaluation Period: October 01, 2021 through September 30, 2022**

  
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# FY 2022 PERFORMANCE EVALUATION AND MEASUREMENT PLAN

## DOCUMENT REVISION HISTORY

Revision	Date	Change Description
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## INTRODUCTION

Los Alamos National Laboratory is a Federally Funded Research and Development Center (FFRDC) owned by the United States Government, under the custody of the Department of Energy (DOE), herein referenced as “Laboratory,” and is managed and operated by Triad National Security, LLC (Triad). 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 Triad’s 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 challenge of this Vision requires Triad’s 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 the Triad’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

To solve national security challenges through simultaneous excellence in designing, producing, and certifying current and future nuclear weapons and reducing global security threats; delivering scientific breakthroughs that support DOE and NNSA missions; executing sustained operations that are reliable and responsive to mission needs; and sustaining and enhancing LANL’s partnerships with the community across the Northern New Mexico region.

## MISSION PERFORMANCE

Triad 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, Triad 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 Triad leadership to use appropriate DOE contractual requirements and recognized industrial standards based on consideration of assurance systems, and the related measures, metrics, and evidence. **Triad 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

Triad will recommend innovative, technology/science-based, systems-engineering solutions to the most challenging problems that face the nation and the globe. Triad 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 Triad 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 Triad’s 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. Triad 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 Triad highlighting accomplishments and/or issues. At the end of the performance evaluation period, an evaluation of Triad's 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 Triad's end of year 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 fee earned is a unilateral determination made by the FDO.**

Triad 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 and 4. 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. The dollars available for goal 4 is the total FF 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	\$9.3M	Award Fee (At-Risk)
<b>Goal-2:</b> Mission Execution: Global Nuclear Security	\$4.0M	Award Fee (At-Risk)
<b>Goal-3:</b> DOE and Strategic Partnership Projects (SPP)	*DOE –SPP -	*DOE – (FF + AF) SPP – Fixed Fee
<b>Goal-4:</b> Mission Execution: Science, Technology, and Engineering (ST&E)	\$20.9M	Fixed Fee
<b>Goal-5:</b> Mission Enablement	\$8.0M	Award Fee (At-Risk)
<b>Goal-6:</b> Mission Leadership	\$5.3M	Award Fee (At-Risk)

*\*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 amounts are based on estimated values for FY21 and will change slightly as actual values for various categories of work are established with FY22 budgets. The charts also do not include Fee associated with Capital Asset Projects such as UPF and CMRR.

**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 Outcome(s):**

- KO 1.1: Triad and SRNS collaborate on establishing NNSA's ability to produce 30 pits-per-year at LANL and 50 pits-per-year at Savannah River Site, in accordance with the NNSA-authorized project plans including developing strategies to effectively onboard and train personnel while ensuring training facilities are available. (NA-19)

- KO 1.2: Triad, LLNS, NTESS, and MSTS will collaborate to execute subcritical experiments to provide data relevant to improving our predictive capability and for certification of the current and future stockpile, and will collaborate to execute the Enhanced Capabilities for Subcritical Experiments sub-program, including the U1a Complex Enhancements Project, in accordance with negotiated outcomes. (NA-11)
- KO 1.3: Triad will provide weapon code capabilities to support annual assessments, Significant Finding Investigations (SFIs), LEP qualification and certification, and the Stockpile Capability Delivery Schedule (SCDS). (NA-11)
- KO 1.4: Triad will deploy the Crossroads system as scheduled and provide support to LLNS and NTESS for the El Capitan and Vanguard 2 system deployments. (NA-11)
- KO 1.5 Triad, LLNS, NTESS, and MSTS will collaborate to execute complementary aging/production science experiments to provide data relevant to assessing the longevity of the current stockpile and planning for the future stockpile (e.g. requirements definitions, production efficiencies). (NA-11)



## **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 Outcome(s):

- KO 2.1: Continue operations to convert surplus plutonium to oxide in preparation for final disposition consistent with integrated schedule for TA-55, prioritizing materials to consolidate vault space storage. (NA-23)
- KO 2.2: Develop and implement plans that support the Stabilization program. Support the National Nuclear Material Archive and Bulk Special Nuclear Materials Analysis Program in accordance with task plans. Support nuclear forensics operations, including providing subject matter expertise in the development of methods, techniques, and policy. Support Nuclear Threat Science program efforts for increased experimental activities. (NA-80)
- KO 2.3: Meet space nuclear detonation detection mission-related performance requirements, milestones and delivery dates. (NA-22)
- KO 2.4: Execute minor construction (Capital Equipment/Major Items of Equipment/General Plant Project) projects for the Office of Material Disposition at TA-55 in accordance with approved cost and schedule. (NA-23)

### **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):

KO 3.1: None.

#### **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 Laboratory 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 Laboratory'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).

##### Key Outcome(s):

KO 4.1: None.

## Goal 5: Mission Enablement

Effectively and efficiently manage the safe and secure operations of the Laboratory 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 Outcome(s):

- KO 5.1: Continue to implement a radioactive waste management program (TRU, LLW, and MLLW) that supports the timely characterization and certification processes as well as compliant shipments to disposal sites, and that supports a waste certification rate equivalent to the monthly waste generated. Execute available NNSA TRU waste shipments safely and maintain the inventory of TRU waste volume at LANL at a level that supports NNSA national security missions including the pit production mission.
- KO 5.2: Execute Projects within the Line Item construction portfolio in accordance with approved cost, scope and schedule baselines or execution plans to obtain the requisite Critical Decision: Radiological Laboratory Equipment Installation Phase 2 (REI-2), Recategorizing of RLUOB to HC3 (RC3), PF-4 Equipment Installation Phase 2 (PEI-2), Energetic Materials Characterization Project (EMC), TA-55 Reinvestment (Phase III) Project, Electrical Power Capacity Upgrade(s) (EPCU) Project, TA-3 Electrical Substation Replacement Project, and the TRU Liquid Waste Project.
- KO 5.3: Plan and execute the Enhanced Capabilities for Subcritical Experiments portfolio projects in accordance with scope, cost, and schedule baselines. Emphasis will be placed on risk management, resource utilization, cost estimation, cross-functional communication, effective procurement, cost control, quality, and integration of safety and security practices into all project aspects.
- KO 5.4: Update MC&A Plan and associated procedures and submit the Plan to the Field Office for approval by Dec 2021. Establish baseline hold up inventory for inactive process areas by Oct 2021, develop and implement a statistical sampling plan for periodic validation of hold-up in inactive processing areas by Dec 2021, submit a closure package for the 2018 finding on holdup to the Field Office by February 2022.

## 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 Triad's 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 Laboratory and the Enterprise.

### Objectives:

- Objective-6.1: Define and implement a realistic strategic vision for the Laboratory, 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.

### Key Outcome(s):

KO 6.1: None.

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

Excellent	91%-100%	<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>
Very Good	76% - 90%	<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>
Good	51% - 75%	<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>
Satisfactory	No greater than 50%	<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.