



## FY2021 Performance Evaluation Summary

**Contractor:** Consolidated Nuclear Security, LLC

**Contract:** DE-NA0001942

**Evaluation Period:** October 1, 2020 – September 30, 2021

**Basis of Evaluation:** Fiscal Year (FY) 2021 Performance Evaluation and Measurement Plan (PEMP)

The FY 2021 PEMP for this contract is available at: <https://www.energy.gov/sites/default/files/2021-04/CNS%20FY21%20PEMP%20-%20Fully%20Executed.pdf>

The Contract is available at: <https://www.energy.gov/nnsa/nnsa-production-office-contract>

### Award Fee Scorecard

Goal	Rating		At Risk Available	Final
	Adjectival	Percent		
Goal-1: Mission Execution: Nuclear Weapons	Very Good	87%	\$13,976,550	\$12,159,599
Goal-2: Mission Execution: Global Nuclear Security	Excellent	95%	\$5,989,950	\$5,690,452
Goal-3: DOE & Strategic Partnership Projects Mission Objectives	Excellent	95%	\$0	\$0
Goal-4: Science, Technology & Engineering (ST&E)	Excellent	95%	\$0	\$0
Goal-5: Mission Enablement	Very Good	79%	\$11,979,900	\$9,464,121
Goal-6: Mission Leadership	Very Good	88%	\$7,986,600	\$7,028,208
<b>Total Award Fee</b>	<b>Very Good</b>	<b>86%</b>	<b>\$39,933,000</b>	<b>\$34,342,380</b>

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

	Available	Final
Fixed Fee	\$0	\$0
SPP (Fixed Fee)	\$1,641,200	\$1,641,200
Total Fixed Fee	\$1,641,200	\$1,641,200
<b>Total Fee (Award Fee and Fixed Fee)</b>	<b>\$41,574,200</b>	<b>\$35,983,580</b>

Overall, CNS earned a Very Good rating for FY 2021, exceeding many of the objectives and key outcomes under the PEMP goals, meeting overall cost, schedule, and technical performance requirements with accomplishments that greatly outweigh issues.

CNS demonstrated effective leadership at Pantex and Y-12 while working collaboratively across the Nuclear Security Enterprise to solve key challenges and exceeded some requirements and achieved most nuclear security deliverables while sustaining a safe work environment with effective COVID-19 pandemic controls. Notable accomplishments are achieving or exceeding the majority of production baseline milestones for weapons programs and production modernization. CNS must provide senior leadership attention to ensure availability of resources and facilities to meet production deliverables on schedule. CNS successfully leveraged an innovative solution to demonstrating new technologies including installation and testing of the Electron Beam Cold Hearth Melter producing binary ingots. Significant progress was also made maturing depleted uranium technologies. CNS continued to meet or exceed nuclear non-proliferation requirements and shipments to Naval Reactors.

The above work was accomplished while improving Recordable Cases, Days Away, Restricted or Transferred, Lost Time Injuries, and motor vehicle incident rates; implementing the Pantex Safety Basis Vision and Y-12 Nuclear Criticality Safety Program Roadmap improvements, and protecting Special Nuclear Material and classified matter. While 92% of projects were within cost and schedule, CNS project performance did not meet expectations and is challenged by a large portfolio. Key areas needing continued focus to drive improvement in project performance are project planning, design and requirements definition. CNS has heightened awareness of disciplined operations performance expectations and created an environment where lapses in disciplined operations are evaluated through the Disciplined Operations Council to drive sustained improvements. However, CNS management floor level engagement needs to be increased. CNS continued to improve the cybersecurity program by reducing the sites' vulnerabilities, closing a number of historic Corrective Actions Plans from 2018 and 2019, and developing and implementing a detailed plan for a compliant program. Significant effort remains to address identified programmatic issues.

**Accomplishments:**Goal 1

- Completed W88 ALT 370 First Production Unit ahead of schedule and W80 ALT 369 Last Production Unit on schedule
- Met/exceeded baselines for Surveillance, B61-12 LEP production, B61-12 CSA, CSA dismantlement, and W88 disassembly alterations
- Uranium Modernization:
  - Building 9212 Transition system isolations and deactivations completed on schedule
  - Depleted Uranium legacy equipment restart and technology maturation progress met milestones
  - Special Material capability development met strategic plan goals

Goal 2

- Completed low enriched uranium-molybdenum castings
- Installed a microdot peen machine, resulting in significant cost savings
- Exceeded shipping and staging requirements for ingot and samples
- Exceeded shipping sub-sample milestones for analysis to DOE laboratories
- Participated in and successfully completed the Mobile Uranium Facility's Relentless Rook exercise
- Exceeded milestone for low equity discards
- Sample identification and nominations for the National Nuclear Material Archive are on schedule and met scope and cost expectations.

Goal 3

- Completed Naval Reactors deliverables and shipments on schedule
- Completed HFIR fuel production and computed tomography scans on schedule
- Completed all Fast Burst Reactor Upgrade Project deliverables
- Completed shipments for NNSA supply contracts on schedule
- Provided technical support and training to other government agencies

Goal 4

- Utilized approximately \$38M for 102 projects
- Maintained strong support with the HE Operations at Pantex and HEU Storage and Component Manufacturing at Y-12

Goal 5

- Waste Management improvements allowed restart of shipments to NNSS
- 2.4 million hours construction work without a lost time injury

- Maintained a highly effective safeguards and security program as demonstrated through the Office of Enterprise Assessments comprehensive multi-topic assessment at the Pantex Plant and series of limited-notice performance tests at Y-12
- Responded well to key equipment failures and weather-related events
- NNSA recognized CNS enhanced indirect rate monitoring process critical input as a best practice
- CNS continued to improve the Cybersecurity and IT program while addressing identified programmatic and technical issues
- Coordination between CNS and National Technology and Engineering Solutions of Sandia, LLC notably improved.
- Emergency Operations Center and Fire Station projects executed work within their overall cost and schedule baselines.

#### Goal 6

- Executed work within COVID-19 protocols and impacts
- Improved transparency of project status
- Extensive leadership participation resulted in improved vendor performance for projects
- Several initiatives laid the groundwork for sustained disciplined operations performance
- Implemented an enterprise-wide assessment and issues management system that is transparent to NNSA
- Deployed 16 Value Stream Element Teams across both sites improving mission work

#### **Issues:**

##### Goal 1

- Missed Warhead Dismantlement baseline (91% completed)
- Missed W88 ALT 370 baseline (75% completed)
- Missed W87 LLCE baseline (78% completed)
- Direct Chip Melt Projects did not meet performance milestones

##### Goal 5

- Multiple instances of chlorinated water releases resulted in fish kills and a Notice of Violation
- Near miss when coupling a commercial motor vehicle
- Significant effort was applied to improving project performance, yet project planning, design and requirements definition impacted project execution.

##### Goal 6

- Continued focus is needed to bring disciplined operations to the standard of performance expected
- Failure to reduce fire protection compensatory measures and continued concerns with managing 35 Account items.