

NNSA is committed to transparent, predictable, repeatable, and effective infrastructure management practices providing lasting benefits for the Nuclear Security Enterprise

NUCLEAR SECURITY ENTERPRISE

- Over 57,000 federal and contractor employees
- \$116 billion replacement plant value
- 51% of the infrastructure is in poor condition.
- 40% of facilities date back to the early Cold War era
- 37 million square feet of facility space – equivalent to six Pentagons
- 2,100 square miles of land area – about the size of Delaware
- Consumes enough energy to power 238,000 homes for a year



WARHEAD PRODUCTION AND STRATEGIC COMPONENTS

NNSA is recapitalizing its manufacturing capabilities to ensure a reliable supply of strategic components to meet stockpile requirements. Work is underway in New Mexico, Missouri, South Carolina, Tennessee, and Texas to modernize production and processing capabilities related to non-nuclear components, high explosives, tritium, lithium, uranium, and plutonium. In an approach endorsed by the Nuclear Weapons Council, plutonium pit production will be carried out at two NNSA sites, Los Alamos National Laboratory and the Savannah River Site, to deliver no less than 80 pits per year as close to 2030 as possible to the Department of Defense.



Plans are underway to repurpose the MOX project at the Savannah River Site in South Carolina



Plutonium Facility 4 at Los Alamos National Laboratory in New Mexico is being upgraded

SCIENTIFIC CAPABILITIES

All of NNSA's enduring national security missions are supported by state-of-the-art scientific capabilities. Because these capabilities are crucial to a National Defense Strategy focused on great power competition NNSA continues to stay ahead of the technology curve. A future gap in high performance computing is being addressed through a joint effort with the DOE's Office of Science project to provide an exascale computing platform to the enterprise by fiscal year 2023. NNSA is also moving forward with a project to enhance the subcritical experimental capabilities at the Nevada National Security Site.



Sierra supercomputer at Lawrence Livermore National Laboratory in California

ACROSS THE ENTERPRISE

- NNSA launched an infrastructure initiative in support of climate adaptation, energy resilience, and the mission, in May 2022.
- Construction completed on the Exascale Computing Facility Modernization project at the Lawrence Livermore National Laboratory in Livermore, California, in May 2022.
- The Uranium Processing Facility Project reached a significant milestone with all buildings being fully enclosed, or "in the dry," in March 2022.
- The start of construction of the Decontamination and Decommissioning Subproject of the Los Alamos Pit Production Project was approved in January 2022



Uranium Processing Facility, Y-12 National Security Complex in Tennessee