NNSA Missions and Crosscutting Capabilities

**Nuclear Weapons Stockpile**
- Science, Technology, & Engineering
- People & Infrastructure
- Management & Operations

Maintaining the safety, security, and effectiveness of the nuclear deterrent.

**Nuclear Threat Reduction**
- Preventing, countering, and responding to proliferation and terrorism threats.

**Naval Reactors**
- Providing operational support for naval nuclear propulsion plants.
NNSA Mission

**Defense Programs**
To sustain a safe, secure and effective nuclear deterrent through the application of science, technology, engineering and manufacturing.

**Naval Reactors**
To provide militarily effective nuclear propulsion plants and ensures their safe, reliable and long-lived operation.

**Counterterrorism and Counterproliferation**
To advance U.S. counterterrorism and counterproliferation objectives through innovative science, technology, and policy driven solutions.

**Nuclear Nonproliferation**
To detect, secure, and dispose of dangerous nuclear and radiological material, and related weapons of mass destruction technology and expertise.

**Defense Nuclear Security**
To develop and implement security programs for NNSA including protection, control, and accountability of materials, and for the physical security of all facilities of the administration.

**Emergency Operations**
To provide radiological and nuclear emergency response and to provide security to the nation from the threat of nuclear terrorism.
Nuclear Security Enterprise
Facilities & Infrastructure

Vision
We contribute to national security now and in the future by managing the complex NNSA risks of safety, infrastructure, materials, and the environment.

Mission
Enable safe operations, ensure effective infrastructure, and provide enterprise services to meet National Nuclear Security Administration needs.
Nuclear Security Enterprise
(National Laboratories and NNSS)

**Los Alamos National Laboratory**
- Los Alamos, NM
- 8,285 M&O Employees
- 79 Federal Employees
- Nuclear design/physics lab
- Pit production
- Pu sustainment
- Design agency for the B61, W76, W78, and W88

**Lawrence Livermore National Laboratory**
- Livermore, CA
- 6,604 M&O Employees
- 75 Federal Employees
- Nuclear design/physics lab
- High explosive R&D Center of Excellence
- Design agency for the W80, W87, and B83

**Sandia National Laboratories**
- Albuquerque, NM and Livermore, CA
- 12,300 M&O Employees
- 83 Federal Employees
- Systems engineering
- Neutron generator design and production
- Non-nuclear component design

**Nevada National Security Site**
- Nevada
- 2,238 M&O Employees
- 73 Federal Employees
- Experimental site
- “Subcritical” nuclear material experiments
Nuclear Security Enterprise (Production Plants)

**Pantex Plant**
- Amarillo, TX
- 3,205 M&O Employees
- 53 Federal Employees
- Weapons assembly/disassembly
- High explosive production Center of Excellence

**Y-12 National Security Complex**
- Oak Ridge, TN
- 4,738 M&O Employees
- 68 Federal Employees
- Uranium component and sub-assembly production
- Uranium Center of Excellence

**Kansas City National Security Campus**
- Kansas City, MO
- 3,650 M&O Employees
- 39 Federal Employees
- Nonnuclear component manufacturing/procurement
- Uranium Center of Excellence

**Savannah River Site**
- Aiken, SC
- 1,663 M&O Employees
- 29 Federal Employees
- Tritium operations
- TPBAR extraction
- Reservoir change-out

Managed under the NNSA Production Office (NPO)
Naval Nuclear Laboratory Enterprise

**Bettis Atomic Power Laboratory**
- **Pittsburgh, PA**
- 2,575 M&O Employees
- 88 Federal Employees
- Naval Nuclear Propulsion Applied Research
- U.S. Navy Fleet Support

**Knolls Atomic Power Laboratory**
- **Schenectady, NY**
- 2,393 M&O Employees
- 46 Federal Employees
- Naval Nuclear Propulsion Applied Research
- U.S. Navy Fleet Support

**Kesselring Site**
- **West Milton, NY**
- 889 M&O Employees
- 15 Federal Employees
- Operational Testing of New Designs and Technology
- U.S. Navy nuclear power operator training

**Naval Reactors Facility**
- **Idaho Falls, ID**
- 1,267 M&O Employees
- 25 Federal Employees
- Spent fuel processing and interim dry storage
- Naval core and post-irradiation examinations
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<th>Contractor</th>
<th>Parent Companies</th>
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| Knolls Atomic Power Laboratory
Kesselring Site
Naval Reactors Facility at Idaho National Laboratory | Bechtel Marine Propulsion Corporation            | Bechtel National, Inc.                                                          |
Major Upcoming Mission Priorities
Weapons Programs
Life Extension Programs

Maintaining the safety, security, and effectiveness of the nation’s nuclear deterrent
DEFENSE NUCLEAR NONPROLIFERATION

DNN FOCUS AND CAPABILITIES

The Office of Defense Nuclear Nonproliferation strengthens U.S. security by reducing global dangers posed by nuclear weapons, material, and technology.

- Detect Proliferation and Verify Compliance
  - Nuclear Explosions
  - Materials and Warheads
  - Material Production
  - Weapons Development
  - Pu/U Verification teams

- Eliminate/Minimize Nuclear and Radiological Materials No Longer in Use
  - Convert
  - Remove
  - Dispose

- Control Further Spread of Nuclear Materials/Technology/Expertise
  - Export Controls
  - Counter Nuclear Smuggling
  - Treaties, Agreements, Policy

- Safeguard Nuclear Materials and Secure Nuclear Facilities and Radiological Materials In Use
  - Safeguards tools/training/expertise
  - Secure sites/materials

DNN is organized to be flexible and responsive to an enduring and dynamic threat environment.
Plutonium Disposition

Dilute and Dispose (D&D)
- Dilute plutonium oxide with inhibitor materials
- Package into approved containers
- Dispose of diluted Pu at WIPP

Mixed-Oxide Fuel Fabrication Facility
- Termination procedures initiated.
- Still committed to PMDA
- Repurposed for Pit Production

1MT Pu Removal From South Carolina (SC)
- Nevada National Security Site
- Pantex Plant
- Los Alamos National Laboratory
NNSA is pursuing a two-prong strategy for meeting its plutonium pit production requirement.

- Recapitalizing existing plutonium infrastructure at LANL to get to at least 30 pits per year there in 2026 and increase that, as practicable, in 2030.
- Repurposing MOX Facility at the Savannah River Site to establish a new production capability of 50 pits per year in 2030.

We worked closely with the Department of Defense through the Nuclear Weapons Council, and the Chairwoman of the Nuclear Weapons Council has certified our approach as required by the 2018 National Defense Authorization Act.
Questions?

Thank you for your continued support of our mission