"We absolutely need to modernize our nuclear stockpile. Our strategic forces are a key deterrent to nuclear war. A strong, reliable, capable, ready deterrent is what prevents nuclear war from happening in the first place."

Secretary of Defense Dr. Mark T. Esper
The United States and our allies face an increasingly threatening and complex strategic environment.

Russia and China are increasing the role of nuclear weapons in their strategies and have been increasing the size and sophistication of their nuclear forces.

Rogue regimes like North Korea and Iran are destabilizing regions through their pursuit of nuclear weapons and ballistic missile programs.

The Russian nuclear threat is increasing. In addition to modernizing its existing inventory, Russia is developing, testing, and fielding new traditional types of delivery systems like road-mobile and silo-based ICBMs, ballistic missile submarines and missiles, bomber aircraft, and cruise missiles, along with never-before-seen nuclear weapon capabilities, such as hypersonic glide vehicles, nuclear-powered cruise missiles, and nuclear-powered unmanned underwater vehicles.

Russia is modernizing an active stockpile of up to 2,000 non-strategic nuclear weapons employable by ships, planes, and ground forces.

Over the next ten years, China is expected to at least double the size of its nuclear stockpile while implementing the most rapid expansion and diversification of its nuclear arsenal in its history. China is developing, testing, and fielding new generations of land-based ballistic missiles, increasing the range of its submarine-launched ballistic missiles, and pursuing a new bomber. Further, it is expending significant resources on advanced nuclear-capable systems and hypersonic vehicles.

North Korea continues its illicit pursuit of nuclear weapons and missile capabilities in direct violation of United Nations Security Council resolutions. It has conducted increasingly sophisticated nuclear and ICBM flight tests, which pose a threat to the U.S. homeland and our allies.

Iran has developed and fielded a substantial arsenal of ballistic missiles that can strike targets throughout the region. These ballistic missiles are a key component of Iran’s efforts to dominate its region of the world and intimidate U.S. allies and partners. Additionally, Iran’s current attempts to launch a space vehicle could provide valuable information that would aid its effort to develop an ICBM capability.
While the United States has taken concrete steps to reduce the role and number of nuclear weapons in our national security strategy, others have increased the number of nuclear weapons they field and have increased the role of nuclear weapons in their security strategies. Until nuclear weapons can prudently be eliminated from the world, the United States must maintain a credible nuclear force by modernizing where necessary to ensure the security of the United States, our allies, and our partners.

The 2018 Nuclear Posture Review reaffirms that the United States will pursue a safe, secure, survivable, and effective nuclear deterrent while simultaneously pursuing nuclear nonproliferation and arms control efforts.

The highest U.S. nuclear policy and strategy priority is to deter potential adversaries from nuclear attack of any scale.

The United States would only consider employing nuclear weapons in the most extreme circumstances to defend our vital interests and those of our allies and partners.

Our nuclear arsenal is the nation’s ultimate insurance policy against a potential nuclear attack.

Nuclear forces, along with our conventional forces, help prevent competition and conflict from escalating to large-scale conventional warfare.

Effective deterrence requires a credible nuclear capability and the resolve to use it if required.

The annual cost for modernizing, sustaining, and operating U.S. nuclear forces will peak at 6.4% in DoD’s FY29 budget.

Only the President of the United States can authorize the use of nuclear weapons.

Enduring roles for nuclear weapons in U.S. strategy:

U.S. nuclear weapons deter nuclear and strategic non-nuclear aggression, including chemical, biological, and large-scale conventional attacks.

Our nuclear posture demonstrates to any adversary that nuclear strikes will result in far greater costs than any benefits the adversary could achieve.

U.S. nuclear weapons provide assurance to allies and partners that the United States is committed to their security. Extended deterrence allows allies and partners to abstain from pursuing their own nuclear weapons, thereby contributing to our non-proliferation goals.

Should deterrence fail, nuclear operations would adhere to the law of armed conflict as the United States will strive to end any conflict and restore deterrence at the lowest level of damage possible.

The United States will continue efforts to create a more cooperative and benign security environment, but must also hedge against prospective and unanticipated risks.
Most U.S. nuclear weapons delivery systems have been extended far beyond their original service lives and cannot be sustained beyond the 2025 to 2035 timeframe. Although still reliable and credible, our current delivery systems, weapons, command and control systems, and infrastructure are rapidly aging into obsolescence.

The FY 2021 Budget Request funds all critical DoD nuclear modernization, sustainment, and operational requirements, helping to ensure modern replacements will be available before the nation’s Cold War legacy systems reach the end of their extended service lives.

Delays in funding for replacement systems will adversely impact military operations and undermine the deterrence mission.

“I absolutely support fully funding the nuclear enterprise as the number one priority. It’s kept the peace, world peace actually, from great power war for going on seven and a half decades.”

Chairman of the Joint Chiefs of Staff Gen. Mark A. Milley

The nation’s nuclear modernization program is affordable. The United States seeks only what it needs to maintain a credible nuclear deterrent.

DoD’s FY 2021 request for nuclear forces is roughly 4.1% of the total DoD budget, and the request to modernize these nuclear forces is about 1.7% of the total DoD budget request.

The 2018 Nuclear Posture Review projects that the total cost to modernize, sustain, and operate U.S. nuclear forces over the next 20 years will account for about 6.4% of the Defense budget at its highest level of funding in 2029, returning to about 3% for sustainment and operations upon completion of modernization.

The National Nuclear Security Administration’s (NNSA) FY 2021 budget request for Weapons Activities is approximately $15.6B for nuclear modernization, sustainment, and operations. NNSA is responsible for the nation’s nuclear warheads and supporting infrastructure.
## FY 2021 DoD Budget Request: Nuclear Forces Highlights
(Procurement and RDT&E)

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<tr>
<th>PROGRAM</th>
<th>FY 2021 Request</th>
<th>FYDP 2021-25 Request</th>
<th>Initial Fielding Dates (FY)</th>
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<tbody>
<tr>
<td>F-35 Dual-Capable Aircraft (DCA)</td>
<td>$106M</td>
<td>$187M</td>
<td>FY2024</td>
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<td>B-21 Bomber</td>
<td>$2.8B</td>
<td>$22.6B</td>
<td>Mid-2020s</td>
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<td>Ground-Based Strategic Deterrent (GBSD) (ICBM)</td>
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<td>B61-12 Tailkit Assembly (Gravity Bomb)</td>
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<td>Long-Range Standoff (LRSO) Cruise Missile</td>
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<td>COLUMBIA-Class Ballistic Missile Submarine</td>
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<td>FY2031 (First Strategic Patrol)</td>
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<td>Sea-Launched Cruise Missile (SLCM-N) AoA</td>
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<td>W93/Mk7 SLBM Warhead/Aeroshell</td>
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<td>Trident II (D5) Life Extension 2</td>
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$28.9B is 4.1% of DoD FY 2021 Budget Request. It fully funds nuclear modernization, sustainment and operations.