



National Nuclear Security Administration



FY 2017-2021 Budget Request

February 17, 2016



NNSA Missions and Crosscutting Capabilities



APPLYING TECHNICAL CAPABILITIES TO NATIONAL SECURITY CHALLENGES



From NNSA's *Enterprise Strategic Vision*, August 2015, at: <http://nnsa.energy.gov/blog/nnsa-releases-2015-enterprise-strategic-vision>



NNSA Budget Summary (\$ in thousands)



	FY 2015 Current	FY 2016 Enacted	FY 2017 Request	\$ Change vs FY 2016	% Change vs FY 2016
Weapons Activities	8,180,609	8,846,948	9,243,147	396,199	4.5%
Defense Nuclear Nonproliferation	1,612,651	1,940,302	1,807,916	-132,386	-6.8%
Naval Reactors	1,233,840	1,375,496	1,420,120	44,624	3.2%
NNSA Federal Salaries & Expenses	369,587	363,766	412,817	49,051	13.5%
Total, NNSA Program	11,396,687	12,526,512	12,884,000	357,488	2.9%

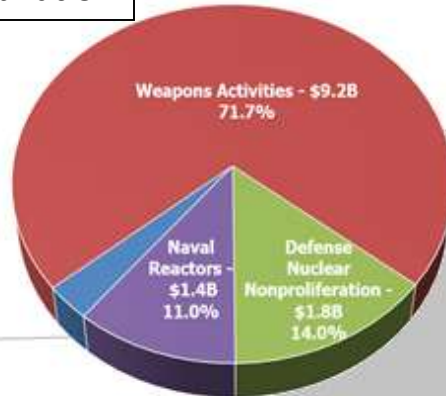
- FY 2015 includes rescissions of \$51.4 million for WA; \$26.1 million for DNN; \$4.7 million for NR; and \$413 thousand for FSE
- FY 2016 includes rescission of \$19.9 million for FSE and reflects transfer of NCTIR from WA to DNN
- FY 2017 reflects prior year offset of \$42 million for WA and \$14 million for DNN to pay pension costs



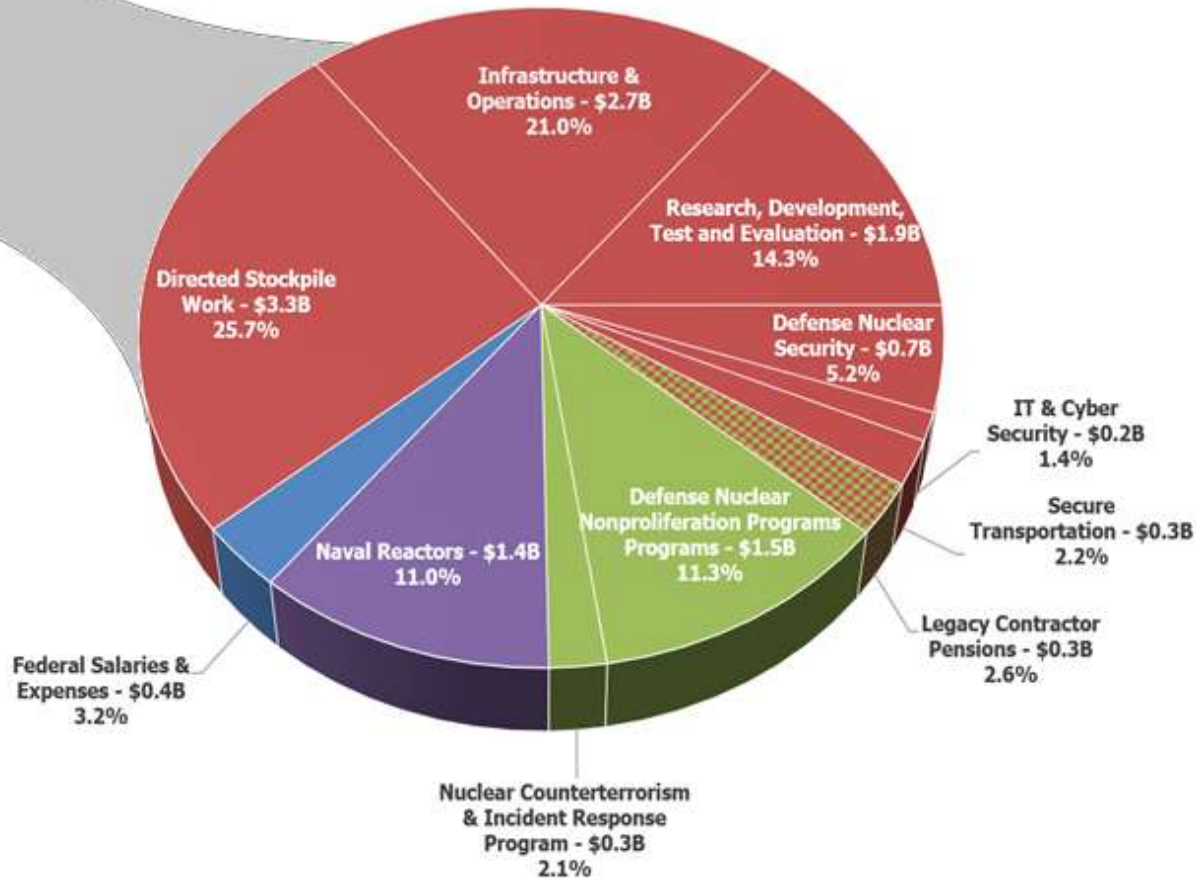
FY 2017 Budget Request = \$12.9B



By Appropriation



By Program





Maintaining the Safety, Security, and Effectiveness of the Nuclear Deterrent



FY 2017 Budget Request

- Complete production of W76-1 LEP warhead by FY 2019 (\$222.9M)
- Deliver B61-12 LEP First Production Unit (FPU) by March 2020 (\$616.1M)
- Deliver W88 ALT 370 FPU (with CHE refresh) by December 2019 (\$281.1M)
- Deliver W80-4 FPU by FY 2025 (\$220.3M)
- Continue phased approach for constructing UPF for uranium strategy (\$575.0M)
- Continue work on the Chemistry and Metallurgical Research Replacement Facility (CMRR) project to support the plutonium strategy (\$159.6M)
- Collaborate with DOE Office of Science in developing exascale class high performance computing to meet needs for future assessments, LEPs, and stockpile stewardship (\$95.0M)
- Address highest infrastructure risks and halt growth of deferred maintenance (\$848.6M)
- Begin work on U1a Complex Enhancements Project (UCEP) (\$13.8M)
- Design and develop the new Mobile Guardian Transporter (\$50.2M)
- Sustain physical security and cybersecurity to protect personnel and national security assets (\$846.7M)
- Accelerate dismantlement of retired weapons by 20% (\$69.0M)



Preventing, Countering, and Responding to Proliferation and Terrorism Threat



FY 2017 Budget Request

- Terminate mixed-oxide (MOX) fuel fabrication project and pursue a dilute and dispose approach as a faster, less expensive path to meeting U.S. commitment to dispose of excess weapons grade Pu (\$270M)
- Address nuclear materials threats through conversion of research reactors and isotope production facilities and removing and disposing of excess weapon-useable nuclear materials (\$341M)
- Build international capacity to secure and prevent smuggling of nuclear and radiological material through equipment installations and trainings (\$337M)
- Continue support to the International Atomic Energy Agency's (IAEA) with technology, training, and expertise to meet its safeguards and monitoring missions (\$13M)
- Strengthen nonproliferation and arms control regimes by building global capacity to: safeguard nuclear materials; control the spread of nuclear material, equipment, technology and expertise; and verify nuclear reductions/compliance with treaties and agreements (\$122M)
- Advance technical capabilities to monitor foreign nuclear weapons program activities, diversion of special nuclear material (SNM), and nuclear detonation (\$394M)
- Enhance NNSA's ability to respond to nuclear or radiological incidents (\$225M)
- Address gaps in classified emergency response communications and equipment recapitalization (\$12M)
- Strengthen DOE's emergency management system and ability to respond to emergencies by sustaining DOE Consolidated Emergency Operations Center and continuing to upgrade vital equipment (\$34.8M)



Providing Operational Support for Naval Nuclear Propulsion



FY 2017 Budget Request

- Provide technical support & 24/7 reachback for Navy's nuclear fleet of 73 submarines & 10 aircraft carriers
- Build on initial reactor startup in the new *Gerald R. Ford*-class aircraft carrier -- the first new design aircraft carrier propulsion plant in 40 years
- Continue development of the *Ohio*-class submarine replacement reactor (\$213.7M)
- Continue refueling of the Land-Based Prototype reactor (\$124M)
- Complete design and initiate construction of a new Spent Fuel Handling Recapitalization Project at Naval Reactors Facility in Idaho (\$100M)



Building an Effective and Efficient FSE Workforce



FY 2017 Budget Request

- Increase workforce to 1,715 FTE (25 FTEs above 1,690) to manage increased scope of programmatic work, principally associated with LEPs and major construction projects (\$299.2M)
- Provide training for workforce specialized skills in support of mission execution and oversight (\$5.9M)
- Fund the DOE Working Capital Fund, increase primarily for OPM credit monitoring and Department's information technology systems (\$43.1M – FSE; \$80.7M – all NNSA)
- Account for government-wide projected FY 2017 cost of living and benefit increases (\$7.5M)

FOR MORE INFORMATION:

[*https://nnsa.energy.gov/aboutus/budget*](https://nnsa.energy.gov/aboutus/budget)

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