

Statement of Thomas P. D'Agostino
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National Nuclear Security Administration
U.S. Department of Energy
on the
Fiscal Year 2013 President's Budget Request
Before the
House Appropriations Committee
Subcommittee on Energy and Water Development

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INTRODUCTION

Chairman Frelinghuysen, Ranking Member Visclosky, good morning and thank you for having me here to discuss the President's Fiscal Year 2013 budget request. Your ongoing support for the men and women of NNSA and the work they do, and your bi-partisan leadership on some of the most challenging national security issues of our time, has helped keep the American people safe, helped protect our allies, and enhanced global security.

Earlier this month, President Obama released his budget for FY13. As you know, due in part to the constraints established by the Budget Control Act, this is a time of fiscal austerity. I want to assure you that NNSA is being thoughtful, pragmatic, and efficient in how we achieve the President's nuclear security objectives and shape the future of nuclear security. We have continuously improved the way we operate, and we are committed to doing our part in this constrained budget environment.

ACHIEVING THE PRESIDENT'S NUCLEAR SECURITY OBJECTIVES, SHAPING THE FUTURE

In April 2009 in Prague, President Obama shared his vision for a world without nuclear weapons, free from the threat of nuclear terrorism, and united in our approach toward shared nuclear security goals. The President's FY13 request for NNSA is \$11.5 billion, an increase of \$536 million, or 4.9%, over the FY12 appropriation. The request reaffirms the national commitment to his vision, applying world-class science that addresses our nation's greatest nuclear security challenges and building NNSA's 21st century nuclear security enterprise through key investments in our people and infrastructure, including the revitalization of our existing facilities.

We are doing this in a number of key ways. We are continuing our critical work to maintain the nation's nuclear stockpile, and ensuring that, as long as nuclear weapons exist, the stockpile is safe, secure, and effective. The FY13 budget provides \$7.58 billion for our Weapons Activities

account, an increase of 5% over FY12, to implement the President's strategy in coordination with our partners at the Department of Defense.

The President continues to support our Life Extension Programs including funding for B61-12 activities in response to the Nuclear Weapons Council's (NWC) anticipated approval and entry into Phase 6.3 Development Engineering. He has also requested increased funding for our Stockpile Systems to support the W78 and W88 life extension study, which I discussed with you last year.

The President's budget also reflects his commitment to completing key dismantlements, with \$51.3 million requested in FY13 to continue reducing the number of legacy nuclear weapons retired from the stockpile. NNSA has previously committed to completing the dismantlement of all warheads retired as of FY09 by FY22, and we continue to be on a path to do that. In fact, in FY11, NNSA completed the dismantlement of the last B53 nuclear bomb, one of the largest ever built, ahead of schedule and under budget. We also eliminated the last components of the W70 warhead which was originally in the U.S. Army's arsenal.

Our request for investments in the science, technology, and engineering that support NNSA's missions will ensure that our national security laboratories continue to lead the world in advanced scientific capabilities. \$150.6 million is requested for our engineering campaign, which reflects the need for validation-related testing and surety options required for current and future refurbishments; \$350.1 million is requested for our science campaign, expanding and refining our experiments and capabilities, which coupled to simulation, improves our confidence in and broadens the national security application of our predictive capabilities; and \$460 million is requested for our inertial confinement fusion and high yield campaign, to operate NNSA's suite of world-leading high energy density facilities -- National Ignition Facility (NIF), Omega, and Z -- to support stockpile stewardship in a safe and secure manner.

The Advanced Simulation and Computing campaign's request of \$600 million is required for the continued improvement of full system calculations and metric suites that are essential to annual assessments and also to future stockpile changes. Our capabilities directly impact our stockpile by generating incredibly sophisticated models against which we can validate our nuclear weapons codes. Not only has supercomputing helped us solve some existing questions such as energy balance, it also allows us to plan for issues that impact the future health of our deterrent: aging, component lifetimes, and new models for abnormal and hostile environment certification. Supercomputing is critical for LEPs and stockpile modernization: the implementation of various concepts such as reuse and enhanced multipoint safety are only possible with the power of ASC platforms.

For over a decade, NNSA has been building the science, technology, and engineering tools and capabilities needed to take care of the stockpile. We are now entering a time when we will fully utilize these analytical tools and capabilities towards the mission of maintaining a safe, secure, and effective stockpile and performing the necessary life extension work. These capabilities also provide the critical base for nonproliferation and counter-terrorism work, allowing us to apply our investments to the full scope of our mission.

To support our stockpile and to continue producing the world-class capabilities we need to modernize our Cold War-era facilities and maintain the Nation's expertise in uranium processing and plutonium research. This budget includes \$2.24 billion to maintain our infrastructure, and execute our construction projects.

The President also requests support for infrastructure improvements necessary to maintain the stockpile well into the future. Major efforts include extending the life of enduring facilities needed for Directed Stockpile Work (DSW) and ST&E program requirements, construction of the Uranium Processing Facility at Y-12, and construction of the TRU Waste Facility at Los Alamos National Laboratory. Funding will also provide for the start of construction of the Electrical Infrastructure Upgrades project at Lawrence Livermore and Los Alamos National Laboratories, and continued construction activities for various projects at Los Alamos and Sandia National Laboratories, the Y-12 National Security Complex, and Pantex. The budget request also includes the resources we need to ensure a comprehensive physical and cyber security posture that provides strong security to support NNSA missions -- protecting our nuclear materials, facilities, and information.

However, our nuclear deterrent is only one part of NNSA's mission. Our nonproliferation programs perform an equally critical function. One of our most important missions has been to support the Administration's commitment to secure the most vulnerable nuclear material across the globe in four years. Our accomplishments in securing plutonium and highly enriched uranium around the world have made it significantly more difficult to acquire and traffic the materials required to make an improvised nuclear device, and I am proud to say that we are on track to meet our goals to remove or dispose of 4,353 kilograms of highly enriched uranium and plutonium in foreign countries, and equip approximately 229 buildings containing weapons-usable material with state-of-the-art security upgrades.

The Defense Nuclear Nonproliferation budget request provides the \$2.46 billion to continue these and other critical nonproliferation and nuclear security efforts. Through a multi-layered approach, we will continue to protect and account for material at its source, remove, downblend or eliminate material when possible, detect, deter, and reduce the risk of additional states acquiring nuclear weapons, and support the development of new technologies to detect nuclear trafficking and proliferation, as well as verify arms control treaties.

Our continued focus on innovative and ambitious nonproliferation and nuclear security efforts is vital. The threat is not gone, and the consequences of nuclear terrorism and state proliferation would be devastating. Detonation of a nuclear device anywhere in the world would lead to significant loss of life, and overwhelming economic, political, and psychological consequences. We must remain committed to reducing the risk of nuclear terrorism and state-based proliferation.

The President's FY13 budget request also keeps focus on our commitment to eliminate U.S. excess weapons materials and supports the Mixed Oxide Fuel Fabrication Facility and Waste Solidification Building at the Savannah River Site in South Carolina. The \$569.5 million

committed to the MOX and related activities this year will lead to the permanent elimination of enough plutonium for at least 8,500 nuclear weapons, which will be matched by similar commitments by the Russian Federation.

In addition, the FY13 budget request gives us the resources we need to maintain our one-of-a-kind emergency response capabilities, which allow us to respond to a nuclear or radiological incidents anywhere in the world. In FY11, we were able to assist the US military, military families, and the Japanese people by deploying our unique emergency response assets in the aftermath of devastating tsunami that affected the Fukushima Daiichi Nuclear Power Plant.

In response to the President's concern regarding the threat of nuclear terrorism, which is also a key goal within the 2010 Nuclear Posture Review, we have established a new organization that is now the focal point for all counterterrorism and counter proliferation activities within NNSA. This organization, the Office of Counterterrorism and Counterproliferation, not only provides unique technical contributions based on NNSA's core nuclear science and technology expertise, but also is designed to coordinate all nuclear counterterrorism, counterproliferation, and post-detonation nuclear forensics related efforts without drastic restructuring.

In addition, NNSA's Naval Reactors program directly supports all aspects of the U.S. Navy's nuclear fleet, which encompasses the Navy's submarines and aircraft carriers, over 40 percent of the U.S. Navy's major combatants. Currently, the nuclear fleet is composed of 54 attack submarines, 14 ballistic missile submarines, 4 guided missile submarines, and 11 aircraft carriers. Over 8,300 nuclear-trained Navy personnel safely operate the propulsion plants on these ships all over the world, and their consistent forward presence protects our national interests. Our \$1.1 billion FY13 request will support the refueling overhaul for the S8G Land-Based Prototype reactor, the design of the OHIO Replacement reactor plant, and recapitalization of our naval spent nuclear fuel infrastructure.

Each of the projects is critical to fulfillment of the Navy's longer term needs. The S8G Land-Based Prototype Refueling Overhaul reactor plant has served Naval Reactors' needs for research, development, and training since 1978, and the reactor provides a cost-effective testing platform for new technologies and components before they are introduced. To continue vital research capabilities, as well as train sufficient operators to man the Fleet, the S8G Land-Based Prototype Refueling Overhaul must begin in 2018. The OHIO Replacement reactor plant design continues and the FY13 requested amount supports continuing this work to meet the Navy's revised schedule and procurement of reactor plant components in 2019 (to support a 2021 lead-ship procurement). We need to recapitalize its naval spent fuel infrastructure in a cost-effective way that does not impede the refueling of active ships and their return to operations. The existing facility is more than 50 years old, and was never designed for its current primary mission of packaging naval spent nuclear fuel for permanent dry storage.

And finally, \$411 million is requested for NNSA's Office of the Administrator account. This funds federal personnel and provides for resources necessary to plan, manage, and oversee the operation of NNSA missions which strengthen U.S. security.

DOING OUR PART

We are committed to being responsible stewards of taxpayer dollars. We have taken steps to ensure that we are building a capabilities-based enterprise focused on needs and solutions. We view this constrained budget environment as an additional incentive to ask ourselves how we can re-think the way we are operating, how we can innovate, and how we can get better.

For example, in close consultation with our national laboratories and national security sites, we are adjusting our plutonium strategy by deferring for at least five years construction of the Chemistry and Metallurgy Research Replacement Nuclear Facility (CMRR-NF) project at Los Alamos National Laboratory and focusing instead on how we can meet our plutonium needs on an interim basis by using the capabilities and expertise found at existing facilities. Utilizing existing facilities will allow us to meet anticipated near term requirements for plutonium operations while focusing on other key modernization projects. Deferring CMRR-NF will have an estimated cost avoidance from 2013 to 2017 that totals approximately \$1.8 billion, which will help offset the costs of other priorities such as Weapons Lifetime Extension programs and other infrastructure needs.

We have eliminated the line item for a Pit Disassembly and Conversion Facility for the MOX program, opting instead for a much less costly approach to producing feedstock by utilizing existing facilities at the Savannah River Site and Los Alamos National Laboratory.

We have also updated our strategy to stop the spread of dangerous nuclear material as we meet the President's four-year lockdown goal. We have developed an innovative approach to scientist engagement tailored for an age when knowledge spreads effortlessly through Google, Facebook, and Twitter.

We are not resting on old ideas to solve tomorrow's problems – we're shaping the future of nuclear security, and we're doing it in a fiscally responsible way. However, I want to stress that as we make adjustments and look toward the future, our plans are based on the FY13 budget request, which give us the resources we need to carry out our mission. Budget uncertainty adds cost and complexity to how we achieve our goals. You have been supportive of our efforts in the past, I ask again for your help in providing the stability we need to do our jobs efficiently and effectively.

CONTINUOUSLY IMPROVING

I would like to acknowledge that I have come before you in the past and talked at length about how NNSA has been working to change the way we do business. I am proud of the work the men and women of our NNSA have done to come together and operate as one. We are defining ourselves as a fully integrated enterprise that operates efficiently, is organized to succeed, that performs our work seamlessly, and speaks with one voice.

We are improving everywhere, from our governance model to our network infrastructure, from our contracting processes to leadership and development programs. We are improving business processes by implementing the ISO 9001 standard, looking toward the future through a workforce analysis, and improving efficiency through consolidated contracts.

We are continuously improving so we are able to do the work the American people need us to do, in a time when everyone is looking to do more with less. We are positioning ourselves for the next decade by making big decisions focused on the future.

For example, after more than two years of analysis and outside reviews, we released an RFP for the combined management of the Y-12 National Security Complex and Pantex Plant, with an option for phase-in of Tritium Operations performed at the Savannah River Site. Combining contracts and site offices will allow us to improve performance, reduce the cost of work, and operate as an integrated enterprise. We also decided to compete the contract for management and operation of Sandia National Laboratories, a move designed to find meaningful improvement in performance and reduce cost for taxpayers.

We have taken other significant steps to continue improving, from top-to-bottom. We created an Acquisition and Project Management organization to help institutionalize our commitment to improving the way we do business. This move will improve the quality of our work while keeping our projects on time and on budget.

We awarded a Blanket Purchasing Agreement for Enterprise Construction Management Services. The BPA will standardize our approach to project management across the enterprise and provide subject matter experts to provide independent analysis and advice related to the design and construction of facilities.

And, importantly, we have institutionalized a culture of safety. Through a unique series of Biennial Reviews, including reviews at Headquarters, we have improved nuclear safety across our Nuclear Security Enterprise. We have provided objective, value-added information to managers that ensure our nuclear safety oversight is consistent and effective. Since the reviews began in 2005, we have seen continuous improvement at every site.

We are also improving the way we work with our partners across the Department of Energy. In my role as Undersecretary of Energy for Nuclear Security, I have made better coordination with DOE's Office of Environmental Management and Office of Legacy Management key priorities.

For example, by partnering with the Office of Environmental Management, we have been able to share investments in our current infrastructure at the Savannah River Site. Using H-Canyon to eliminate surplus weapons-grade plutonium is a cost-effective approach for producing plutonium oxide for the MOX Facility that utilizes current resources and capabilities, and saves jobs. We are also taking care to make good use of past investments. For example, 40 grams of curium worth \$8.8 million that was no longer needed for stockpile stewardship was transferred from the Los Alamos National Laboratory to the Idaho and Oak Ridge National Laboratories for use in energy R&D and for production of new isotopes.

We are also working with the Office of Legacy Management to benchmark long-term surveillance and maintenance costs. Large closed sites with on-going groundwater issues, such as Fernald, Rocky Flats, Weldon Spring, Tuba City, and Mound, may have post-closure requirements similar to some of the Savannah River facilities, so we are learning from each other by comparing scope and cost to refine our estimates.

CONCLUSION

Our mission is vital, and your past support has been key in helping us accomplish it. The FY13 budget reflects our commitment to keeping the American people safe while continuously improving and doing our part in a time of fiscal austerity. We are looking toward the future and building an organization that is aligned to succeed. I look forward to working with each of you to help us do that. Thank you.

National Nuclear Security Administration

Appropriation and Program Summary Tables Outyear Appropriation Summary Tables

FY 2013 BUDGET TABLES

National Nuclear Security Administration

Overview

Appropriation Summary ^{a b}

	(dollars in thousands)						
	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
	Current	Enacted	Request	Request	Request	Request	Request
Office of the Administrator							
Program Direction	398,993	410,000	411,279	418,742	426,599	434,848	444,276
Rescission of Prior Year Balances	-5,700	0	0	0	0	0	0
Total, Office of the Administrator	393,293	410,000	411,279	418,742	426,599	434,848	444,276
Weapons Activities Appropriation							
Defense Programs							
Directed Stockpile Work	1,905,078	1,873,694	2,088,274				
Science Campaign	366,167	332,958	350,104				
Engineering Campaign	142,010	142,636	150,571				
Inertial Confinement Fusion Ignition and High Yield Campaign	478,105	474,812	460,000				
Advanced Simulation and Computing Campaign	613,620	618,076	600,000				
Readiness Campaign	91,695	128,406	130,095				
Readiness in Technical Base and Facilities	1,842,519	2,004,785	2,239,828				
Secure Transportation Asset	251,806	242,802	219,361				
Total, Defense Programs	5,691,000	5,818,169	6,238,233				
Nuclear Counterterrorism Incident Response	232,503	220,969	247,552				
Facilities and Infrastructure Recapitalization Program	93,574	96,120	0				
Site Stewardship	104,727	78,581	90,001				
Safeguards and Security							
Defense Nuclear Security	717,722	695,679	0				
Cyber Security	124,231	126,370	0				
Subtotal, Safeguards and Security	841,953	822,049	0				
Defense Nuclear Security	0	0	643,285				
NNSA CIO Activities	0	0	155,022				
Science, Technology and Engineering Capability	19,794	0	0				
National Security Applications	0	10,000	18,248				
Legacy Contractor Pensions	0	168,232	185,000				
Use of Prior Year Balances	-67,776	0	0				
Rescission of Prior Year Balances	-50,000	0	0				
Total, Weapons Activities	6,865,775	7,214,120	7,577,341	7,613,033	7,755,866	7,905,841	8,077,242
Defense Nuclear Nonproliferation							
Nonproliferation and Verification Research and Development	355,407	354,150	548,186	412,622	420,344	428,417	437,719
Nonproliferation and International Security	147,494	153,594	150,119	156,363	167,070	173,718	177,490
International Nuclear Materials Protection and Cooperation	578,633	569,927	311,000	282,628	288,026	293,870	300,171
Fissile Materials Disposition	802,198	685,386	921,305	950,000	960,000	975,000	996,170
Global Threat Reduction Initiative	444,689	498,000	466,021	485,775	494,866	504,371	515,322
Legacy Contractor Pensions	0	55,823	62,000	63,138	64,320	65,555	66,978
Use of Prior Year Balances	-2,050	0	0	0	0	0	0
Rescission of Prior Year Balances	-45,000	-21,000	0	0	0	0	0
Total, Defense Nuclear Nonproliferation	2,281,371	2,295,880	2,458,631	2,350,526	2,394,626	2,440,931	2,493,850
Naval Reactors							
Naval Reactors	986,526	1,080,000	1,088,635	1,108,391	1,129,186	1,151,021	1,175,975
Rescission of Prior Year Balances	-1,000	0	0	0	0	0	0
Total, Naval Reactors	985,526	1,080,000	1,088,635	1,108,391	1,129,186	1,151,021	1,175,975
Total, NNSA	10,525,965	11,000,000	11,535,886	11,490,692	11,706,277	11,932,641	12,191,343

^a The annual totals include an allocation to NNSA from the Department of Defense. The amounts included are \$677,076 in FY 2014; \$712,344 in FY 2015; \$766,924 in FY 2016; and \$781,204 in FY 2017.

^b FY 2012 Enacted reflects a rescission of \$27,300 associated with savings from the contractor pay freeze. Of the \$27,300, \$19,877 was rescinded from Weapons Activities and \$7,423 was rescinded from Defense Nuclear Nonproliferation.

NNSA Future-Years Nuclear Security Program³

(Dollars in Thousands)

	FY 2013 Request	FY 2014 Request	FY 2015 Request	FY 2016 Request	FY 2017 Request
NNSA					
Office of the Administrator	411,279	418,742	426,599	434,848	444,276
Weapons Activities	7,577,341	7,613,033	7,755,866	7,905,841	8,077,242
Defense Nuclear Nonproliferation	2,458,631	2,350,526	2,394,626	2,440,931	2,493,850
Naval Reactors	1,088,635	1,108,391	1,129,186	1,151,021	1,175,975
Total, NNSA	11,535,886	11,490,692	11,706,277	11,932,641	12,191,343

³ The annual totals include an allocation to NNSA from the Department of Defense. The amounts included are \$677,076 in FY 2014; \$712,344 in FY 2015; \$766,924 in FY 2016; and \$781,204 in FY 2017.

Office of the Administrator

Overview

Appropriation Summary by Program

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Office of the Administrator			
NNSA Program Direction			
Salaries and Benefits	282,967	301,995	304,474
Travel	16,536	15,500	15,500
Support Services	22,445	20,500	20,500
Other Related Expenses	77,045	72,005	70,805
Subtotal, Office of the Administrator	398,993	410,000	411,279
Rescission of Prior Year Balances	-5,700	0	0
Total, Office of the Administrator	393,293	410,000	411,279

Outyear Appropriation Summary by Program

(Dollars in Thousands)

	FY 2014 Request	FY 2015 Request	FY 2016 Request	FY 2017 Request
Office of the Administrator				
NNSA Program Direction				
Salaries and Benefits	311,937	319,794	328,043	337,471
Travel	15,500	15,500	15,500	15,500
Support Services	20,500	20,500	20,500	20,500
Other Related Expenses	70,805	70,805	70,805	70,805
Total, Office of the Administrator	418,742	426,599	434,848	444,276

Weapons Activities

Overview

Appropriation Summary by Program

(dollars in thousands)

	FY 2011 Current	FY 2012 Enacted ^a	FY 2013 Request
Weapons Activities			
Directed Stockpile Work	1,905,078	1,873,694	2,088,274
Science Campaign	366,167	332,958	350,104
Engineering Campaign	142,010	142,636	150,571
Inertial Confinement Fusion Ignition and High Yield Campaign	478,105	474,812	460,000
Advanced Simulation and Computing Campaign	613,620	618,076	600,000
Readiness Campaign	91,695	128,406	130,095
Readiness in Technical Base and Facilities	1,842,519	2,004,785	2,239,828
Secure Transportation Asset	251,806	242,802	219,361
Nuclear Counterterrorism Incident Response	232,503	220,969	247,552
Facilities and Infrastructure Recapitalization Program	93,574	96,120	0
Site Stewardship	104,727	78,581	90,001
Defense Nuclear Security	717,722	695,679	643,285
Cyber Security	124,231	126,370	0
NNSA CIO Activities	0	0	155,022
Science, Technology and Engineering Capability	19,794	0	0
National Security Applications	0	10,000	18,248
Legacy Contractor Pensions	0	168,232	185,000
Subtotal Weapons Activities	6,983,551	7,214,120	7,577,341
Use of Prior Year Balances	-67,776	0	0
Rescission of Prior Year Balances	-50,000	0	0
Total, Weapons Activities	6,865,775	7,214,120	7,577,341

Out-Year Appropriation Summary by Program

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Directed Stockpile Work
Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Directed Stockpile Work			
Life Extension Programs	248,357	479,098	543,931
Stockpile Systems	651,333	486,123	590,409
Weapons Dismantlement and Disposition	57,968	56,591	51,265
Stockpile Services	947,420	851,882	902,669
Total, Directed Stockpile Work	1,905,078	1,873,694	2,088,274

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Science Campaign

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Total, Science Campaign	366,167	332,958	350,104

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Engineering Campaign

Funding Profile by Subprogram and Activity

(dollars in thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Total, Engineering Campaign	142,010	142,636	150,571

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Inertial Confinement Fusion Ignition and High Yield Campaign

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Total, Inertial Confinement Fusion and High Yield Campaign	478,105	474,812	460,000

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

**Advanced Simulation and Computing Campaign
Funding Profile by Subprogram and Activity**

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Total, Advanced Simulation and Computing Campaign	613,620	618,076	600,000

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Readiness Campaign

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Total, Readiness Campaign	91,695	128,406	130,095

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Readiness in Technical Base and Facilities

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Readiness in Technical Base and Facilities			
Operations of Facilities	1,255,307	1,281,847	1,419,403
Program Readiness	69,736	73,962	0
Material Recycle and Recovery	77,493	77,780	0
Containers	27,820	28,892	0
Storage	23,945	31,196	0
Nuclear Operations Capability Support	0	0	203,346
Science Technology and Engineering Support	0	0	166,945
Subtotal, Operations and Maintenance	1,454,301	1,493,677	1,789,694
Construction	388,218	511,108	450,134
Total, Readiness in Technical Base and Facilities	1,842,519	2,004,785	2,239,828

Out-Year Funding Schedule by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Secure Transportation Asset
Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Secure Transportation Asset (STA)			
Operations and Equipment	156,877	144,800	114,965
Program Direction	94,929	98,002	104,396
Total, Secure Transportation Asset	251,806	242,802	219,361

Secure Transportation Asset - Operations and Equipment
Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Operations and Equipment			
Mission Capacity	83,718	84,376	56,458
Security Safety Capability	34,670	19,986	22,457
Infrastructure and C5 Systems	28,867	29,449	24,199
Program Management	9,622	10,989	11,851
Total, Operations and Equipment	156,877	144,800	114,965

Secure Transportation Asset - Program Direction

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Program Direction			
Salaries and Benefits	79,644	82,613	84,878
Travel	8,334	7,758	7,216
Other Related Expenses	6,951	7,631	12,302
Total, Program Direction	94,929	98,002	104,396
Total Full Time Equivalents	637	622	639

Out Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Nuclear Counterterrorism Incident Response
Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Nuclear Counterterrorism Incident Response (Homeland Security) ^a			
Emergency Response (Homeland Security) ^a	135,429	136,185	150,043
National Technical Nuclear Forensics (Homeland Security) ^a	11,446	11,589	11,694
Emergency Management (Homeland Security) ^a	7,494	7,153	6,629
Operations Support (Homeland Security) ^a	8,488	8,691	8,799
International Emergency Management and Cooperation	6,986	7,129	7,139
Nuclear Counterterrorism (Homeland Security) ^a	62,660	50,222	63,248
Total, Nuclear Counterterrorism Incident Response	232,503	220,969	247,552

Out-Year Target Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

⁴ Office of Management and Budget (OMB) Homeland Security designation.

Facilities and Infrastructure Recapitalization Program

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Facilities and Infrastructure Recapitalization Program			
Operations and Maintenance (O&M)			
Recapitalization	77,160	81,720	0
Infrastructure Planning	6,494	9,400	0
Facility Disposition	9,920	5,000	0
Total, O&M Facilities and Infrastructure Recapitalization Program	93,574	96,120	0

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Site Stewardship

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Site Stewardship			
Operations and Maintenance			
Environmental Projects and Operations	41,970	45,191	46,978
Energy Modernization and Investment Program	6,618	0	10,262
Nuclear Materials Integration	41,169	33,390	18,963
Corporate Project Management	0	0	13,798
Total, Operations and Maintenance	89,757	78,581	90,001
Construction	14,970	0	0
Total, Site Stewardship	104,727	78,581	90,001

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Defense Nuclear Security
Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Defense Nuclear Security			
Operations and Maintenance (Homeland Security)			
Protective Forces	414,166	418,758	341,676
Physical Security Systems	73,794	82,783	98,267
Information Security	25,943	30,117	34,237
Personnel Security	30,913	37,285	37,781
Materials Control and Accountability	35,602	34,592	34,484
Program Management	78,183	75,595	96,840
Technology Deployment, Physical Security	7,225	4,797	0
Total, Operations and Maintenance (Homeland Security)	665,826	683,927	643,285
Construction (Homeland Security)	51,896	11,752	0
Total, Defense Nuclear Security	717,722	695,679	643,285

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Cyber Security

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Cyber Security (Homeland Security)			
Infrastructure Program	97,735	107,374	0
Enterprise Secure Computing	21,500	14,000	0
Technology Application Development	4,996	4,996	0
Total, Cyber Security	124,231	126,370	0

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

NNSA CIO Activities

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
NNSA CIO Activities			
Cyber Security (Homeland Security)			
Infrastructure Program	0	0	111,022
Technology Application Development ^a	0	0	0
Enterprise Secure Computing (Homeland Security)	0	0	14,000
Federal Unclassified Information Technology	0	0	30,000
Total, NNSA CIO Activities	0	0	155,022

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

⁵ In FY 2011 and FY 2012 Technology Application Development is reflected in the Cyber Security program. In FY 2013 funds supporting Technology Application Development were realigned to infrastructure for higher priority requirements. Technology Application initiatives are to be supported in the outyears.

National Security Applications
Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Total, National Security Applications	0	10,000	18,248
Total, Science, Technology and Engineering Capability	19,794	0	0

Out-Year Funding Profile by Subprogram and Activity

The outyear numbers for Weapons Activities do not reflect programmatic requirements. Rather, they are an extrapolation of the FY 2013 request based on rates of inflation in the Budget Control Act of 2011. The Administration will develop outyear funding levels based on actual programmatic requirements at a later date.

Defense Nuclear Nonproliferation
Overview
Appropriation Summary by Program

(dollars in thousands)

	FY 2011 Current	FY 2012 Enacted ^a	FY 2013 Request
Defense Nuclear Nonproliferation			
Nonproliferation and Verification Research and Development	355,407	354,150	548,186
SBIR/STTR [Non-Add]	[5,579]	[6,245]	[11,727]
Nonproliferation and International Security	147,494	153,594	150,119
International Nuclear Materials Protection and Cooperation ^b	578,633	569,927	311,000
Fissile Materials Disposition	802,198	685,386	921,305
Global Threat Reduction Initiative ^b	444,689	498,000	466,021
Legacy Contractor Pensions	0	55,823	62,000
Subtotal of Defense Nuclear Nonproliferation	2,328,421	2,316,880	2,458,631
Use of Prior Year Balances	-2,050	0	0
Rescission of Prior Year Balances	-45,000	-21,000	0
Total, Defense Nuclear Nonproliferation	2,281,371	2,295,880	2,458,631

Out-Year Appropriation Summary by Program

(dollars in thousands)

	FY 2014 Request	FY 2015 Request	FY 2016 Request	FY 2017 Request
Defense Nuclear Nonproliferation				
Nonproliferation and Verification Research and Development	412,622	420,344	428,417	437,719
Nonproliferation and International Security	156,363	167,070	173,718	177,490
International Nuclear Materials Protection and Cooperation ^b	282,628	288,026	293,870	300,171
Fissile Materials Disposition	950,000	960,000	975,000	996,170
Global Threat Reduction Initiative ^b	485,775	494,866	504,371	515,322
Legacy Contractor Pensions	63,138	64,320	65,555	66,978
Total, Defense Nuclear Nonproliferation	2,350,526	2,394,626	2,440,931	2,493,850

⁶ FY 2012 Enacted reflects rescission of \$7.4 million associated with savings from the contractor pay freeze.

⁷ FY 2011 total includes international contributions for INMP&C of \$300,000 from South Korea, \$117,000 from the United Kingdom of Great Britain, \$512,076 from Norway, \$540,602 from New Zealand, and \$5,169,026 from Canada. International contributions for GTRI include \$8,207,791 from Canada, and \$499,970 from the Netherlands.

Nonproliferation and Verification Research and Development

Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Nonproliferation and Verification Research and Development			
Proliferation Detection (PD)	229,427	222,150	240,536
Homeland Security-Related Proliferation Detection [Non-Add]	[50,000]	[50,000]	[50,000]
Nuclear Detonation Detection (NDD)	125,980	132,000	157,650
Domestic Uranium Enrichment RD&D	0	0	150,000
SBIR/STTR ^a [Non-Add]	0	[6,245]	[11,727]
Total, Nonproliferation and Verification R&D	355,407	354,150	548,186

Out-Year Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2014 Request	FY 2015 Request	FY 2016 Request	FY 2017 Request
Nonproliferation and Verification Research and Development				
Proliferation Detection (PD)	248,312	252,955	257,790	263,369
Homeland Security-Related Proliferation Detection [Non-Add]	[50,000]	[50,000]	[50,000]	[50,000]
Nuclear Detonation Detection (NDD)	164,310	167,389	170,627	174,350
Domestic Uranium Enrichment RD&D	0	0	0	0
SBIR/STTR [Non-Add]	[8,446]	[8,941]	[9,598]	[10,461]
Total, Nonproliferation and Verification R&D	412,622	420,344	428,417	437,719

^a FY 2011 current appropriation reflects the \$5,579 thousand transferred out of the DNN appropriation for SBIR/STTR.

**Nonproliferation and International Security
Funding Profile by Subprogram and Activity⁹**

(Dollars in Thousands)

	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Nonproliferation and International Security			
Dismantlement and Transparency	49,207	0	0
Global Security Engagement and Cooperation	47,289	0	0
International Regimes and Agreements	39,824	0	0
Treaties and Agreements	11,174	0	0
Nuclear Safeguards and Security	0	54,897	54,723
Nuclear Controls	0	47,444	45,420
Nuclear Verification	0	39,969	40,566
Nonproliferation Policy	0	11,284	9,410
Total, Nonproliferaiton and International Security	147,494	153,594	150,119

Out-Year Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2014 Request	FY 2015 Request	FY 2016 Request	FY 2017 Request
Nonproliferation and International Security				
Dismantlement and Transparency	0	0	0	0
Global Security Engagement and Cooperation	0	0	0	0
International Regimes and Agreements	0	0	0	0
Treaties and Agreements	0	0	0	0
Nuclear Safeguards and Security	56,999	60,902	63,326	64,701
Nuclear Controls	47,309	50,549	52,560	53,701
Nuclear Verification	42,253	45,147	46,943	47,962
Nonproliferation Policy	9,802	10,472	10,889	11,126
Total, Nonproliferaiton and International Security	156,363	167,070	173,718	177,490

⁹ The Nonproliferation and International Security Program implemented a budget structure change starting in FY 2012. The structure change created a more efficient and clearer program organization with activities aligned along functional lines that reflect U.S. nonproliferation priorities and initiatives. The new structure depicts more clearly the alignment of people, technology, and resources to meet and implement nuclear nonproliferation objectives.

**International Nuclear Materials Protection and Cooperation
Funding Profile by Subprogram and Activity**

	(Dollars in Thousands)		
	FY 2011	FY 2012	FY 2013
	Current	Enacted	Request
International Nuclear Materials Protection and Cooperation			
Navy Complex	34,332	33,664	39,860
Strategic Rocket Forces/12th Main Directorate	51,359	59,105	8,300
Weapons Material Protection ^a	93,318	80,735	46,975
Civilian Nuclear Sites	53,027	59,117	60,092
Material Consolidation and Conversion	13,867	14,306	17,000
National Infrastructure and Sustainability Program ^b	60,928	60,928	46,199
Second Line of Defense	265,163	262,072	92,574
International Contributions ^c	6,639	0	0
Total, International Nuclear Materials Protection and Cooperation	578,633	569,927	311,000

Out-Year Funding Profile by Subprogram and Activity

	(Dollars in Thousands)			
	FY 2014	FY 2015	FY 2016	FY 2017
	Request	Request	Request	Request
International Nuclear Materials Protection and Cooperation				
Navy Complex	39,742	39,767	39,843	39,823
Strategic Rocket Forces/12th Main Directorate	14,300	14,300	14,300	14,300
Weapons Material Protection ^a	54,857	54,882	54,958	54,938
Civilian Nuclear Sites	59,972	59,997	60,074	60,053
Material Consolidation and Conversion	20,000	20,000	20,000	20,000
National Infrastructure and Sustainability Program ^b	46,081	46,106	46,182	46,162
Second Line of Defense	47,676	52,974	58,513	64,895
Total, International Nuclear Materials Protection and Cooperation	282,628	288,026	293,870	300,171

^a Weapons Material Protection was formerly known as Rosatom Weapons Complex.

^b National Infrastructure and Sustainability was formerly known as National Programs and Sustainability.

^c FY 2011 total includes international contributions of \$300,000 from South Korea, \$117,000 from the United Kingdom of Great Britain, \$512,076 from Norway, \$540,602 from New Zealand, and \$5,169,026 from Canada.

**Fissile Materials Disposition
Funding Profile by Subprogram and Activity**

(Dollars in Thousands)

FY 2011 Current	FY 2012 Enacted	FY 2013 Request
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Fissile Materials Disposition

U.S. Surplus Fissile Materials Disposition

Operations and Maintenance (O&M)

U.S. Plutonium Disposition

200,400 205,632 498,979

U.S. Uranium Disposition

25,985 26,000 29,736

Subtotal, O&M

226,385 231,632 528,715

Construction

575,788 452,754 388,802

Total, U.S. Surplus Fissile Materials Disposition

802,173 684,386 917,517

Russian Surplus Fissile Materials Disposition

Russian Materials Disposition

25 1,000 3,788

Total, Fissile Materials Disposition

802,198 685,386 921,305

Out-Year Funding Profile by Subprogram and Activity

(Dollars in Thousands)

FY 2014 Request	FY 2015 Request	FY 2016 Request	FY 2017 Request
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Fissile Materials Disposition

U.S. Surplus Fissile Materials Disposition

Operations and Maintenance (O&M)

U.S. Plutonium Disposition

793,506 908,906 930,967 957,881

U.S. Uranium Disposition

30,058 33,546 33,453 30,514

Subtotal, O&M

823,564 942,452 964,420 988,395

Construction

118,661 9,773 2,805 0

Total, U.S. Surplus Fissile Materials Disposition

942,225 952,225 967,225 988,395

Russian Surplus Fissile Materials Disposition

Russian Materials Disposition

7,775 7,775 7,775 7,775

Total, Fissile Materials Disposition

950,000 960,000 975,000 996,170

**Global Threat Reduction Initiative (GTRI)
Funding Profile by Subprogram and Activity**

(Dollars in Thousands)			
	FY 2011 Current	FY 2012 Enacted	FY 2013 Request
Global Threat Reduction Initiative			
Highly Enriched Uranium (HEU) Reactor Conversion	100,968	148,269	161,000
Nuclear and Radiological Material Removal			
Russian-Origin Nuclear Material Removal	159,031	147,000	102,000
U.S.-Origin Nuclear Material Removal	4,420	9,000	5,000
Gap Nuclear Material Removal	9,289	45,731	61,000
Emerging Threats Nuclear Material Removal	8,768	5,000	5,000
International Radiological Material Removal	20,660	20,000	8,000
Domestic Radiological Material Removal (Homeland Security) ^a	19,128	20,000	19,000
Subtotal, Nuclear and Radiological Material Removal	221,296	246,731	200,000
Nuclear and Radiological Material Protection			
BN-350 Nuclear Material Protection	1,840	2,000	0
International Material Protection	46,573	50,000	50,000
Domestic Material Protection (Homeland Security) ^a	65,304	51,000	55,021
Subtotal, Nuclear and Radiological Material Protection	113,717	103,000	105,021
International Contributions^b	8,708	0	0
Total, Global Threat Reduction Initiative	444,689	498,000	466,021

¹¹ Office of Management and Budget (OMB) Homeland Security designation.

^b International contributions for GTRI include \$8,207,791 from Canada, and \$499,970 from the Netherlands.

Out-Year Funding Profile by Subprogram and Activity

(Dollars in Thousands)

	FY 2014 Request	FY 2015 Request	FY 2016 Request	FY 2017 Request
Global Threat Reduction Initiative				
Highly Enriched Uranium (HEU) Reactor Conversion	177,000	183,000	185,000	195,000
Nuclear and Radiological Material Removal				
Russian-Origin Nuclear Material Removal	100,000	100,000	100,000	95,000
U.S.-Origin Nuclear Material Removal	5,000	5,000	6,000	8,000
Gap Nuclear Material Removal	45,000	30,000	20,000	15,000
Emerging Threats Nuclear Material Removal	5,000	5,000	5,000	5,000
International Radiological Material Removal	20,000	20,000	20,000	20,000
Domestic Radiological Material Removal (Homeland Security) ^a	20,000	20,000	20,000	20,000
Subtotal, Nuclear and Radiological Material Removal	195,000	180,000	171,000	163,000
Nuclear and Radiological Material Protection				
BN-350 Nuclear Material Protection	0	0	0	0
International Material Protection	52,000	60,000	68,000	73,000
Domestic Material Protection (Homeland Security) ^a	61,775	71,866	80,371	84,322
Subtotal, Nuclear and Radiological Material Protection	113,775	131,866	148,371	157,322
Total, Global Threat Reduction Initiative	485,775	494,866	504,371	515,322

**Naval Reactors
Overview
Appropriation Summary by Program**

(dollars in thousands)

	FY 2011 Current	FY 2012 Enacted ^a	FY 2013 Request ^b
Naval Reactors			
Naval Reactors Operations and Maintenance (O&M)	914,071	0	0
Naval Reactors Operations and Infrastructure	0	358,300	366,961
Naval Reactors Development	0	421,000	418,072
S8G Prototype Refueling	0	99,500	121,100
OHIO Replacement Reactor Systems Development	0	121,300	89,700
Total, Naval Reactors O&M	914,071	1,000,100	995,833
Program Direction	39,920	40,000	43,212
Construction	32,535	39,900	49,590
Subtotal, Naval Reactors	986,526	1,080,000	1,088,635
Rescission of Prior Year Balances	-1,000	0	0
Total, Naval Reactors	985,526	1,080,000	1,088,635

Out-Year Appropriation Summary by Program

(dollars in thousands)

	FY 2014 Projection ^b	FY 2015 Projection ^b	FY 2016 Projection	FY 2017 Projection
Naval Reactors				
Naval Reactors Operations and Infrastructure	384,365	377,814	383,719	396,283
Naval Reactors Development	434,306	426,245	432,449	446,609
S8G Prototype Refueling ^c	123,327	125,522	127,760	130,054
OHIO Replacement Reactor Systems Development ^c	91,350	92,975	94,634	96,333
Program Direction	49,670	52,400	54,159	56,096
Construction	25,373	54,230	58,300	50,600
Total, Naval Reactors	1,108,391	1,129,186	1,151,021	1,175,975

^a The Conference Report of H.R. 2055 Military Construction and Veterans Affairs, and Related Agencies Appropriations Act, 2012 establishing new funding controls for Naval Reactors: Naval Reactors Operations and Infrastructure, Naval Reactors Development, S8G Prototype Refueling, and OHIO Replacement Reactor Systems Development.

^b FY 2013, FY 2014 and FY 2015 includes an allocation to Naval Reactors from the Department of Defense's (DoD) Research, Development, Testing and Evaluation (RDT&E) account entitled "NNSA PROGRAM SUPPORT". The amounts included for Naval Reactors from this DoD account are FY 2013 \$5.8 million; FY 2014, \$2.0 million; and FY 2015, \$0.9 million.

^c Due to the Budget Control Act of 2011 the outyear funding for S8G Prototype Refueling and OHIO Replacement Reactor Systems Development is under review and will be updated at a later date.