

Safeguards and Security

Funding Profile by Subprogram

(dollars in thousands)

	FY 2003 Comparable Appropriation	FY 2004 Original Appropriation	FY 2004 Adjustments	FY 2004 Comparable Appropriation	FY 2005 Request
Safeguards and Security					
Protective Forces.....	27,951	27,003	0	27,003	32,353
Security Systems.....	9,319	4,664	+809 ^a	5,473	7,836
Information Security.....	5,266	970	+1,671 ^a	2,641	2,794
Cyber Security	13,593	11,551	+2,066 ^{ab}	13,617	15,823
Personnel Security	4,397	2,369	+2,615 ^a	4,984	5,439
Material Control and Accountability.....	2,076	2,060	+478 ^a	2,538	2,521
Program Management.....	4,275	3,270	+2,802 ^a	6,072	6,549
Subtotal, Safeguards and Security	66,877	51,887	+10,441	62,328	73,315
Less Security Charge for Reimbursable Work.....	-5,605	-4,383	-1,215 ^a	-5,598	-5,605
Total, Safeguards and Security	61,272 ^c	47,504	+9,226	56,730	67,710

Public Law Authorizations:

Public Law 95-91, "Department of Energy Organization Act"

Public Law 103-62, "Government Performance and Results Act of 1993"

Mission

The mission of the Office of Science (SC) Safeguards and Security program is to ensure appropriate levels of protection against: unauthorized access, theft, diversion, loss of custody or destruction of Department of Energy (DOE) assets and hostile acts that may cause adverse impacts on fundamental science, national security or the health and safety of DOE and contractor employees, the public or the environment.

^a Includes \$9,506,000 for the transfer in FY 2005 of the Pacific Northwest Site Office safeguards and security activities from the Office of Environmental Management, as follows: Security Systems (\$809,000); Information Security (\$1,671,000); Cyber Security (\$2,346,000); Personnel Security (\$2,615,000); Material Control and Accountability (\$478,000); Program Management (\$2,802,000); and Less Security Charge for Reimbursable Work (\$-1,215,000).

^b Excludes \$280,274 for a rescission in accordance with the Consolidated Appropriations Act, 2004, as reported in conference report H.Rpt. 108-401, dated November 25, 2003.

^c Excludes \$286,748 rescinded in accordance with the Consolidated Appropriations Resolution, FY 2003. Includes \$4,342,749 for the Emergency Wartime Supplemental Appropriations for FY 2003, \$3,607,000 for the transfer of safeguards and security activities from Science Program Direction in FY 2004 and \$9,494,000 for the transfer of the Pacific Northwest Site Office safeguards and security activities from the Office of Environmental Management in FY 2005.

Benefits

The benefit of the Safeguards and Security program is that it provides sufficient protection of DOE assets and resources, thereby allowing the programmatic missions of the Department to be conducted in an environment that is secure based on the unique needs of each site. This Integrated Safeguards and Security Management (ISSM) strategy encompasses a graded approach that enables each facility to design its security protection program to meet the facility-specific threat scenario.

The following is a brief description of the types of activities performed:

Protective Forces

The Protective Forces activity provides for security guards or security police officers and equipment, training and maintenance needed to effectively carry out the protection tasks during normal and increased or emergency security conditions (SECON). This request is adequate for up to 60 days of heightened security at the SECON 2 level.

Security Systems

The Security Systems activity provides for equipment to protect vital security interests and government property per the local threat. Equipment and hardware include fences, barriers, lighting, sensors, entry control devices, etc.

Information Security

The Information Security activity ensures that materials and documents that may contain classified or "Official Use Only" (OUO) information are accurately and consistently identified; properly reviewed for content; appropriately marked and protected from unauthorized disclosure; and ultimately destroyed in an appropriate manner.

Cyber Security

The Cyber Security activity ensures that OUO information that is electronically processed or transmitted is properly identified and protected, and that all electronic systems have an appropriate level of infrastructure reliability and integrity. This involves perimeter protection, intrusion detection, firewall protection and user authentication. Cyber security also includes enhancements in network traffic logging and monitoring, risk assessments, and improvements in incident response. It provides for the development of virtual private networks and added security for remote login and wireless connections.

Personnel Security

The Personnel Security activity includes security clearance programs, employee security education, and visitor control. Employee education and awareness is accomplished through initial, refresher and termination briefings, computer based training, special workshops, publications, signs, and posters.

Material Control and Accountability

The Material Control and Accountability activity provides for the control and accountability of special nuclear materials, including training of personnel for assessing the amounts of material involved in packaged items, process systems and wastes. Additionally, this activity provides the programmatic mechanism to ensure that theft, diversion or operational loss of special nuclear material does not occur. Also included is protection for on-site and off-site transport of special nuclear materials.

Program Management

The Program Management activity includes policy oversight and development and updating of security plans, assessments and approvals to determine if assets are at risk. Also encompassed are contractor management and administration, training, planning and integration of security activities into facility operations.

Detailed Justification

(dollars in thousands)

	FY 2003	FY 2004	FY 2005
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Ames Laboratory **395** **409** **505**

The Ames Laboratory Safeguards and Security program coordinates planning, policy, implementation and oversight in the areas of security systems, protective forces, personnel security, material control and accountability, and cyber security. A protective force is maintained to provide protection of personnel, equipment, and property from acts of theft, vandalism, and sabotage through facility walk-through, monitoring of electronic alarm systems, and emergency communications. The increased funding for FY 2005 is primarily for cyber security. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$26,000.

Argonne National Laboratory **7,680** **7,651** **9,784**

The Argonne National Laboratory Safeguards and Security program provides protection of nuclear materials, classified matter, government property, and other vital assets from unauthorized access, theft, diversion, sabotage, espionage, and other hostile acts that may cause risks to national security, the health and safety of DOE and contractor employees, the public, or the environment. Other program activities include security systems, material control and accountability, information security, and personnel security. In addition, a protective force is maintained. These activities ensure that the facility, personnel, and assets remain safe from potential threats. An increase in funding for FY 2005 will enable continued expansion of access control systems and improve the reliability of surveillance systems, cyber security, and foreign visit processing. Enhancements to the physical security systems will help reduce some of the reliance on protective force coverage. Increase also supports requirements of the revised Design Basis Threat (DBT). Reimbursable work is included in the numbers above; the amount for FY 2005 is \$388,000.

Brookhaven National Laboratory **10,929** **10,756** **11,342**

The Brookhaven National Laboratory (BNL) Safeguards and Security program activities are focused on protective forces, cyber security, physical security, and material control and accountability. BNL operates a transportation division to move accountable nuclear materials around the site. Material control and accountability efforts focus on accurately accounting for and protecting the site’s special nuclear materials. The increase in funding for FY 2005 is associated primarily with the cyber security risk management and self-assessment programs, and projected maintenance of elevated SECON levels. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$806,000.

(dollars in thousands)

FY 2003	FY 2004	FY 2005
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Fermi National Accelerator Laboratory **2,805** **2,837** **3,067**

The Fermi National Accelerator Laboratory Safeguards and Security program efforts are directed at maintaining protective force staffing and operations to protect personnel and the facility, and toward continuing the security systems, and material control and accountability programs to accurately account for and protect the facility's special nuclear materials.

Lawrence Berkeley National Laboratory **4,649** **4,689** **5,165**

The Lawrence Berkeley National Laboratory Safeguards and Security program provides physical protection of personnel and laboratory facilities. This is accomplished with protective forces, security systems, personnel security, and material control and accountability of special nuclear material. The increased funding for FY 2005 is primarily for projected maintenance of elevated SECON levels and enhanced cyber security. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$830,000.

Oak Ridge Institute for Science and Education **1,250** **1,254** **1,410**

The Oak Ridge Institute for Science and Education (ORISE) Safeguards and Security program provides physical protection/protective force services by employing unarmed security officers. The facilities are designated as property protection areas for the purpose of protecting government owned assets. In addition to the government owned facilities and personal property, ORISE possesses small quantities of nuclear materials that must be protected. The increased funding for FY 2005 is primarily for enhanced cyber security and program management needs. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$319,000.

Oak Ridge National Laboratory **9,433** **6,894** **8,713**

The Oak Ridge National Laboratory (ORNL) Safeguards and Security program includes security systems, information security, cyber security, personnel security, material control and accountability, and program management. Program planning functions at the Laboratory provide for short- and long-range strategic planning, and site safeguards and security plans associated with both the protection of security interests and preparations for contingency operations. Additionally, ORNL is responsible for providing overall laboratory policy direction and oversight in the security arena; for conducting recurring programmatic self-assessments; and for identifying, tracking, and obtaining closure on findings or deficiencies noted during inspections, surveys, or assessments of safeguards and security programs. The funding increase is primarily for cyber security to support monitoring and response for intrusions, malicious code and vulnerabilities; and for program management to provide training/professional development and to improve vulnerability assessments and radiological/toxicological sabotage assessments. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$1,945,000.

Oak Ridge Operations Office **11,593** **11,688** **15,872**

The Oak Ridge Operations Office Safeguards and Security program provides for contractor protective forces for the Oak Ridge National Laboratory. This includes protection of a Category I special nuclear material facility, Building 3019 (\$11,060,000), the Spallation Neutron Source (\$550,000) facility, and the Federal Office Building complex (\$3,808,000). Other small activities include security systems, information security, and personnel security (\$454,000). The FY 2005

(dollars in thousands)

FY 2003	FY 2004	FY 2005
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increase is for protective force requirements associated with projected maintenance of elevated SECON levels and requirements of the revised DBT.

Office of Scientific and Technical Information..... 265 60 590

The Office of Scientific and Technical Information's (OSTI) mission is to collect, preserve, disseminate, and leverage the scientific and technical information resources of DOE to expand the knowledge base of science and technology and facilitate scientific discovery and application. Its safeguards and security funding priorities are to meet requirements of the revised DBT, for protective forces, security systems designed to protect information, and enhanced cyber security in FY 2005. The majority of the increase in FY 2005 is needed to implement the revised DBT. It will provide a main entrance security policy officer (1.5 Full Time Equivalent) at OSTI (\$150,000) and the installation of badge readers, cameras, updated video surveillance, and vehicle barriers at OSTI (\$180,000). In addition, it will provide additional funds needed to implement required cyber security enhancements (\$200,000) to protect against intrusions and ensure reliability, integrity and confidentiality of the networks.

Pacific Northwest National Laboratory 10,716 10,721 11,070

The Pacific Northwest National Laboratory (PNNL) Safeguards and Security program consists of program management, physical security systems, information security, cyber security, personnel security, and material control and accountability. These program elements work together in conjunction with a counterintelligence program and an export control program to ensure appropriate protection and control of laboratory assets while ensuring that PNNL remains appropriately accessible to visitors for technical collaboration. As part of the organizational restructuring of PNNL from an Environmental Management (EM) Site to an SC Site, a Pacific Northwest Site Office (PNSO) is being established. Funding for protective force operations remains the responsibility of EM. Projected increase for FY 2005 is primarily focused on personnel security. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$1,222,000.

Princeton Plasma Physics Laboratory 3,489 1,855 1,945

The Princeton Plasma Physics Laboratory Safeguards and Security program provides for protection of government property and other vital assets from unauthorized access, theft, diversion, sabotage, or other hostile acts. These activities result in reduced risk to national security and the health and safety of DOE and contractor employees, the public, and the environment. The FY 2005 increase is for protective force requirements associated with projected maintenance of elevated SECON levels. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$54,000.

Stanford Linear Accelerator Center 2,211 2,207 2,341

The Stanford Linear Accelerator Center Safeguards and Security program focuses on reducing the risk to DOE national facilities and assets. The program consists primarily of protective forces and cyber security program elements. The FY 2005 increase is for protective force requirements associated with projected maintenance of elevated SECON levels. Reimbursable work is included in the numbers above; the amount for FY 2005 is \$15,000.

(dollars in thousands)

	FY 2003	FY 2004	FY 2005
Thomas Jefferson National Accelerator Facility	1,132	972	1,174
The Thomas Jefferson National Accelerator Facility has a guard force that provides 24-hour services for the accelerator site and after-hours property protection security for the entire site. Other security programs include cyber security, program management, and security systems. The FY 2005 increase is for cyber security and protective force requirements associated with projected maintenance of elevated SECON levels.			
All Other	330	335	337
This funding provides for program management needs for SC and for the Presidential E-Gov initiative of SAFECOM.			
Subtotal, Safeguards and Security	66,877	62,328	73,315
Less Security Charge for Reimbursable Work	-5,605	-5,598	-5,605
Total, Safeguards and Security	61,272	56,730	67,710

Detailed Funding Schedule

(dollars in thousands)

	FY 2003	FY 2004	FY 2005	\$ Change	% Change
Ames Laboratory					
Protective Forces.....	143	143	157	+14	+9.8%
Security Systems.....	33	24	34	+10	+41.7%
Cyber Security	141	148	227	+79	+53.4%
Personnel Security	39	42	35	-7	-16.7%
Material Control and Accountability	7	7	8	+1	+14.3%
Program Management.....	32	45	44	-1	-2.2%
Total, Ames Laboratory	395	409	505	+96	+23.5%
Argonne National Laboratory					
Protective Forces.....	3,197	3,209	2,700	-509	-15.9%
Security Systems.....	422	455	2,155	+1,700	+373.6%
Information Security.....	299	211	294	+83	+39.3%
Cyber Security	1,775	1,744	2,012	+268	+15.4%
Personnel Security	960	904	1,067	+163	+18.0%
Material Control and Accountability	688	796	940	+144	+18.1%
Program Management.....	339	332	616	+284	+85.5%
Total, Argonne National Laboratory	7,680	7,651	9,784	+2,133	+27.9%
Brookhaven National Laboratory					
Protective Forces.....	6,706	6,146	6,739	+593	+9.6%
Security Systems.....	881	577	658	+81	+14.0%

(dollars in thousands)

	FY 2003	FY 2004	FY 2005	\$ Change	% Change
Information Security.....	121	131	116	-15	-11.5%
Cyber Security.....	2,247	2,270	2,664	+394	+17.4%
Personnel Security.....	53	49	29	-20	-40.8%
Material Control and Accountability.....	320	742	522	-220	-29.6%
Program Management.....	601	841	614	-227	-27.0%
Total, Brookhaven National Laboratory.....	10,929	10,756	11,342	+586	+5.4%
Fermi National Accelerator Laboratory					
Protective Forces.....	1,538	1,700	1,656	-44	-2.6%
Security Systems.....	456	246	320	+74	+30.1%
Cyber Security.....	640	780	910	+130	+16.7%
Material Control and Accountability.....	69	49	70	+21	+42.9%
Program Management.....	102	62	111	+49	+79.0%
Total, Fermi National Accelerator Laboratory.....	2,805	2,837	3,067	+230	+8.1%
Lawrence Berkeley National Laboratory					
Protective Forces.....	1,430	1,392	1,578	+186	+13.4%
Security Systems.....	860	942	790	-152	-16.1%
Cyber Security.....	1,915	1,955	2,339	+384	+19.6%
Personnel Security.....	11	11	9	-2	-18.2%
Material Control and Accountability.....	19	38	14	-24	-63.2%
Program Management.....	414	351	435	+84	+23.9%
Total, Lawrence Berkeley National Laboratory.....	4,649	4,689	5,165	+476	+10.2%
Oak Ridge Institute for Science and Education					
Protective Forces.....	279	288	297	+9	+3.1%
Security Systems.....	94	100	71	-29	-29.0%
Information Security.....	123	139	108	-31	-22.3%
Cyber Security.....	374	420	541	+121	+28.8%
Personnel Security.....	107	108	112	+4	+3.7%
Program Management.....	273	199	281	+82	+41.2%
Total, Oak Ridge Institute for Science and Education.....	1,250	1,254	1,410	+156	+12.4%
Oak Ridge National Laboratory					
Security Systems.....	3,676	1,865	2,466	+601	+32.2%
Information Security.....	378	392	411	+19	+4.8%
Cyber Security.....	2,580	1,978	2,657	+679	+34.3%
Personnel Security.....	1,087	972	1,095	+123	+12.7%
Material Control and Accountability.....	486	428	458	+30	+7.0%
Program Management.....	1,226	1,259	1,626	+367	+29.2%
Total, Oak Ridge National Laboratory.....	9,433	6,894	8,713	+1,819	+26.4%

(dollars in thousands)

	FY 2003	FY 2004	FY 2005	\$ Change	% Change
Oak Ridge Operations Office					
Protective Forces.....	11,097	11,174	15,418	+4,244	+38.0%
Security Systems.....	63	134	68	-66	-49.3%
Information Security.....	129	97	99	+2	+2.1%
Personnel Security	304	283	287	+4	+1.4%
Total, Oak Ridge Operations Office	11,593	11,688	15,872	+4,184	+35.8%
Office of Scientific and Technical Information					
Protective Forces.....	0	25	175	+150	+600.0%
Security Systems.....	90	35	215	+180	+514.3%
Cyber Security	175	0	200	+200	N/A
Total, Office of Scientific and Technical Information	265	60	590	+530	+883.3%
Pacific Northwest National Laboratory					
Security Systems.....	879	809	886	+77	+9.5%
Information Security.....	4,216	1,671	1,766	+95	+5.7%
Cyber Security	2,290	2,346	2,404	+58	+2.5%
Personnel Security	1,836	2,615	2,805	+190	+7.3%
Material Control and Accountability	487	478	509	+31	+6.5%
Program Management.....	1,008	2,802	2,700	-102	-3.6%
Total, Pacific Northwest National Laboratory.....	10,716	10,721	11,070	+349	+3.3%
Princeton Plasma Physics Laboratory					
Protective Forces.....	1,209	905	1,260	+355	+39.2%
Security Systems.....	1,633	113	33	-80	-70.8%
Cyber Security	490	775	612	-163	-21.0%
Program Management.....	157	62	40	-22	-35.5%
Total, Princeton Plasma Physics Laboratory	3,489	1,855	1,945	+90	+4.9%
Stanford Linear Accelerator Center					
Protective Forces.....	1,781	1,606	1,829	+223	+13.9%
Security Systems.....	26	0	0	0	0.0%
Cyber Security	404	601	512	-89	-14.8%
Total, Stanford Linear Accelerator Center	2,211	2,207	2,341	+134	+6.1%
Thomas Jefferson National Accelerator Facility					
Protective Forces.....	571	415	544	+129	+31.1%
Security Systems.....	206	173	140	-33	-19.1%
Cyber Security	270	308	453	+145	+47.1%

(dollars in thousands)

	FY 2003	FY 2004	FY 2005	\$ Change	% Change
Program Management.....	85	76	37	-39	-51.3%
Total, Thomas Jefferson National Accelerator Facility.....	1,132	972	1,174	+202	+20.8%
All Other					
Cyber Security	292	292	292	0	0.0%
Program Management.....	38	43	45	+2	+4.7%
Total, All Other.....	330	335	337	+2	+0.6%
Subtotal, Safeguards and Security	66,877	62,328	73,315	+10,987	+17.6%
Less Security Charge for Reimbursable Work.....	-5,605	-5,598	-5,605	-7	-0.1%
Total, Safeguards and Security.....	61,272	56,730	67,710	+10,980	+19.3%

Explanation of Funding Changes

FY 2005 vs. FY 2004 (\$000)

Ames Laboratory

The increased funding is primarily in cyber security. Increases are also provided in the areas of protective forces and security systems with minor adjustments in the other elements. +96

Argonne National Laboratory

Increases mainly are associated with security systems requirements, cyber security, personnel security needs, and for program management. These increases will: enable continued expansion of access control systems, network monitoring and security for wireless connections; improve the reliability of surveillance systems to help meet the revised DBT requirements; support revisions to vulnerability assessments in support of revised DBT; and support full implementation of a compliant foreign visits and assignments program. +2,133

Brookhaven National Laboratory

The increase is associated primarily with the cyber security risk management and self-assessment programs, and projected maintenance of elevated SECON levels. Adjustments to other elements are made to reflect the latest priorities. +586

Fermi National Accelerator Laboratory

Limited funding increases are being applied to the security systems and cyber security activities. +230

FY 2005 vs. FY 2004 (\$000)

Lawrence Berkeley National Laboratory

The increased funding is primarily for cyber security. Also, projected maintenance of elevated SECON levels result in increased protective force funding +476

Oak Ridge Institute for Science and Education

The increased funding is primarily for cyber security. The enhancements are needed to address identified vulnerabilities to sensitive information. +156

Oak Ridge National Laboratory

The funding increase is primarily for security systems to replace limited critical system components or equipment as necessary and to meet the revised DBT requirements; cyber security to support monitoring and response for intrusions, malicious code and vulnerabilities; and for program management to provide training/professional development and to improve vulnerability assessments and radiological/toxicological sabotage assessments.. +1,819

Oak Ridge Operations Office

The funding increase is primarily for protective force requirements associated with Building 3019 and the Spallation Neutron Source facility. Consideration is also given to projected maintenance of elevated SECON levels and to meet requirements of the DBT..... +4,184

Office of Scientific and Technical Information

The funding increase is reflected in cyber security for required enhancements primarily for classified archived data and in security systems and protective forces for requirements of the revised DBT. +530

Pacific Northwest National Laboratory

Increases are associated primarily with cyber security, information security and personnel security. The increases will enable continued self-assessment activities, full implementation of ISSM, protection of national security and nonproliferation classified information and provide adequate support for the Foreign Visits and Assignments program. +349

Princeton Plasma Physics Laboratory

The increase is for protective force requirements associated with projected maintenance of elevated SECON levels, partially offset by reductions to the other elements. +90

FY 2005 vs. FY 2004 (\$000)

Stanford Linear Accelerator Center

The increase is for protective force requirements associated with projected maintenance of elevated SECON levels, partially offset by a reduction in cyber security. +134

Thomas Jefferson National Accelerator Facility

The increase is for the cyber security program and protective force requirements associated with projected maintenance of elevated SECON levels. Adjustments to the other elements are made to reflect the latest priorities..... +202

All Other

Minor adjustment for program management needs +2

Subtotal Funding Change, Safeguards and Security +10,987

Less Security Charge for Reimbursable Work..... -7

Total Funding Change, Safeguards and Security +10,980

Capital Operating Expenses & Construction Summary

Capital Operating Expenses

(dollars in thousands)

	FY 2003	FY 2004	FY 2005	\$ Change	% Change
General Plant Projects	1,600	0	0	0	0.0%
Capital Equipment	1,297	102	104	+2	+2.0%
Total, Capital Operating Expenses	2,897	102	104	+2	+2.0%