Safeguards and Security

Funding Profile by Subprogram

(dollars in thousands)

	FY 2005 Current Appropriation	FY 2006 Original Appropriation	FY 2006 Adjustments	FY 2006 Current Appropriation	FY 2007 Request
Safeguards and Security					
Protective Forces....................................	27,485	29,010	—	29,010	33,050
Security Systems....................................	10,495	11,030	—	11,030	6,615
Information Security	3,403	3,331	—	3,331	3,331
Cyber Security	15,708	15,571	-156[a]	15,415	18,070
Personnel Security	4,961	5,777	-531[a]	5,246	5,725
Material Control and Accountability.......	2,363	2,385	—	2,385	2,341
Program Management.............................	8,358	7,213	—	7,213	7,460
Subtotal, Safeguards and Security................	72,773	74,317	-687	73,630	76,592
Less Security Charge for Reimbursable Work	-5,605	-5,605	—	-5,605	-5,605
Total, Safeguards and Security	67,168[b]	68,712	-687	68,025	70,987

Public Law Authorizations:
Public Law 95-91, "Department of Energy Organization Act"
Public Law 103-62, "Government Performance and Results Act of 1993"
Public Law 109-58, "Energy Policy Act of 2005"

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.

The SC Program Goals will be accomplished not only through the efforts of the direct (GPRA unit) programs, but with additional efforts from programs which support the GPRA units in carrying out their mission. The Safeguards and Security program performs the following function in support of the overall SC mission: providing protection of employees, facilities and systems in a manner consistent with the security conditions.

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 strategy encompasses a graded approach that enables each facility to design its security protection program to meet the facility-specific threat scenario.

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[a] Reflects a rescission in accordance with P.L. 109-148, the Emergency Supplemental Appropriations Act to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza, 2006.
[b] Total is reduced by $542,000 for a rescission in accordance with P.L. 108-447, the Consolidated Appropriations Act, 2005.

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, and 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 Office of Science is participating in a joint Cyber Security Assistance Team (CSAT) program with the Office of the Chief Information Officer and the Office of Security and Safety Performance Assurance to improve the Federal and laboratory cyber security posture. This program has established standardized templates and approaches for the laboratories, established a testing baseline, and identified vulnerabilities (gaps) that must be mitigated. In FY 2006, each site will have the initial assistance visit completed at a minimum. FY 2007 will be dedicated to the second and third visits. The gaps already identified from the site visits performed include securing wireless infrastructure, implementing standard configuration controls on all computing devices, implementing an enterprise asset management tool, as well as the need to test all management, operational and technical controls in accordance with the National Institute of Standards and Technology (NIST) SP800-53A "Recommended Security Controls for Federal Information Systems." Funding in FY 2007 is increased by $2,655,000 to begin to fill the significant gaps at the laboratories.

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- 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.

Significant Program Shifts

The FY 2007 request for Safeguards and Security includes full funding necessary to protect people and property at the 2003 Design Basis Threat (DBT) level. Security Systems decreases primarily due to funding provided in FY 2006 for 2003 DBT requirements at Oak Ridge National Laboratory for one time upgrades and improvements of entry points; in FY 2007, the focus and funding shifts to Protective Forces. Cyber Security increases in FY 2007 in response to a more dynamic threat situation and the promulgation of new NIST requirements which are statutorily required by the Federal Information Security Management Act (FISMA).

Detailed Justification

	(dollars in thousands)		
	FY 2005	FY 2006	FY 2007
Ames Laboratory	**505**	**507**	**570**

The Ames Laboratory Safeguards and Security program coordinates planning, policy, implementation, and oversight in the areas of security systems, protective forces, personnel security, and material control and accountability. Increased funding is also included for cyber security activities in FY 2007. 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. Reimbursable work is included in the numbers above; the amount for FY 2007 is $26,000.

Argonne National Laboratory	**8,671**	**8,570**	**8,462**

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 protective forces, security systems, material control and accountability, information security, and personnel security. Increased funding is also included for cyber security activities in FY 2007. These activities ensure that the facility, personnel, and assets remain safe from potential threats. Reimbursable work is included in the numbers above; the amount for FY 2007 is $388,000.

Brookhaven National Laboratory	**11,335**	**11,229**	**10,967**

The Brookhaven National Laboratory (BNL) Safeguards and Security program activities are focused on protective forces, physical security, material control and accountability, and cyber security. 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. Reimbursable work is included in the numbers above; the amount for FY 2007 is $806,000.

Fermi National Accelerator Laboratory	**3,015**	**2,893**	**3,221**

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. Increased funding is also included for cyber security activities in FY 2007.

Lawrence Berkeley National Laboratory **5,733** **4,723** **4,981**

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. Increased funding is also included for cyber security activities in FY 2007. Reimbursable work is included in the numbers above; the amount for FY 2007 is $830,000.

Oak Ridge Institute for Science and Education **1,403** **1,359** **1,489**

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. Also, there is a cyber security program, for which increased funding is requested in FY 2007. Reimbursable work is included in the numbers above; the amount for FY 2007 is $319,000.

Oak Ridge National Laboratory **11,891** **9,461** **8,396**

The Oak Ridge National Laboratory (ORNL) Safeguards and Security program includes security systems, information security, personnel security, material control and accountability, and program management. Increased funding is also included for cyber security activities in FY 2007. Protective force resources for ORNL, including those to protect the national U233 Vault at Building 3019, are funded within the Oak Ridge Office. 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. A decrease in security systems is the result of funding provided in FY 2006 for the 2003 DBT for one time upgrades and improvements of entry points and in FY 2007 this focus has shifted to protective forces funded by Oak Ridge Office. Reimbursable work is included in the numbers above; the amount for FY 2007 is $1,945,000.

Oak Ridge Office **12,418** **15,872** **17,635**

The Oak Ridge Office Safeguards and Security program provides for contractor protective forces for ORNL. This includes protection of a Category I special nuclear material facility, Building 3019 ($12,304,000), the Spallation Neutron Source facility ($550,000), and the Federal Office Building complex ($3,808,000). Other small activities include security systems, information security, and personnel security ($623,000). Also, cyber security is funded at $350,000. The majority of the increase in FY 2007 is for protective forces to meet the FY 2003 DBT requirements at Building 3019; a corresponding decrease is taken in security systems for Oak Ridge Office and Oak Ridge National Laboratory.

Office of Scientific and Technical Information **444** **235** **340**

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.

	(dollars in thousands)		
	FY 2005	FY 2006	FY 2007
Pacific Northwest National Laboratory............................	**11,133**	**10,044**	**10,993**

The Pacific Northwest National Laboratory (PNNL) Safeguards and Security program consists of program management, physical security systems, information security, personnel security, and material control and accountability. Increased funding is also included for cyber security activities in FY 2007. 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. Funding for protective force operations remains the responsibility of the Office of Environmental Management. Reimbursable work is included in the numbers above; the amount for FY 2007 is $1,222,000.

Princeton Plasma Physics Laboratory................................	**1,938**	**1,819**	**1,953**

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 cyber security program is requesting additional funds in FY 2007. Reimbursable work is included in the numbers above; the amount for FY 2007 is $54,000.

Stanford Linear Accelerator Center.....................................	**2,335**	**2,377**	**2,437**

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 for which both areas are requesting increases. Reimbursable work is included in the numbers above; the amount for FY 2007 is $15,000.

Thomas Jefferson National Accelerator Facility.............	**1,468**	**1,231**	**1,311**

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 program management and security systems. Increased funding is also included for cyber security activities in FY 2007.

All Other	**484**	**3,310**	**3,837**

Funding supports the development and management of a consistent cyber security approach across the Office of Science laboratory complex, including coordination of the CSAT visits. This funding also provides for Safeguards and Security program management needs for SC and for the Presidential E-Gov initiative of SAFECOM.

Subtotal, Safeguards and Security	**72,773**	**73,630**	**76,592**
Less Security Charge for Reimbursable Work	-5,605	-5,605	-5,605
Total, Safeguards and Security	**67,168**	**68,025**	**70,987**

Detailed Funding Schedule

	FY 2005	FY 2006	FY 2007
Ames Laboratory			
Protective Forces	157	152	152
Security Systems	34	40	40
Cyber Security	227	237	300
Personnel Security	35	33	33
Material Control and Accountability	8	5	5
Program Management	44	40	40
Total, Ames Laboratory	505	507	570
Argonne National Laboratory			
Protective Forces	2,700	3,000	3,000
Security Systems	1,098	944	744
Information Security	294	350	350
Cyber Security	1,956	1,598	1,840
Personnel Security	1,067	1,070	1,070
Material Control and Accountability	940	980	830
Program Management	616	628	628
Total, Argonne National Laboratory	8,671	8,570	8,462
Brookhaven National Laboratory			
Protective Forces	5,793	5,999	5,999
Security Systems	994	1,368	939
Information Security	545	527	527
Cyber Security	2,664	2,109	2,170
Personnel Security	290	234	234
Material Control and Accountability	392	392	498
Program Management	657	600	600
Total, Brookhaven National Laboratory	11,335	11,229	10,967
Fermi National Accelerator Laboratory			
Protective Forces	1,656	1,681	1,781
Security Systems	425	382	382
Cyber Security	758	672	900
Material Control and Accountability	45	38	38
Program Management	131	120	120
Total, Fermi National Accelerator Laboratory	3,015	2,893	3,221

	(dollars in thousands)		
	FY 2005	FY 2006	FY 2007
Lawrence Berkeley National Laboratory			
Protective Forces	1,645	1,578	1,578
Security Systems	1,244	790	790
Cyber Security	2,207	1,857	2,020
Personnel Security	76	9	9
Material Control and Accountability	22	14	14
Program Management	539	475	570
Total, Lawrence Berkeley National Laboratory	5,733	4,723	4,981
Oak Ridge Institute for Science and Education			
Protective Forces	297	314	314
Security Systems	71	102	102
Information Security	108	142	142
Cyber Security	534	390	520
Personnel Security	112	100	100
Program Management	281	311	311
Total, Oak Ridge Institute for Science and Education	1,403	1,359	1,489
Oak Ridge National Laboratory			
Security Systems	5,055	3,761	2,466
Information Security	411	346	346
Cyber Security	2,466	2,160	2,290
Personnel Security	1,095	1,145	1,145
Material Control and Accountability	458	458	458
Program Management	2,406	1,591	1,691
Total, Oak Ridge National Laboratory	11,891	9,461	8,396
Oak Ridge Office			
Protective Forces	11,964	12,804	16,644
Security Systems	68	2,584	157
Information Security	99	105	105
Cyber Security	—	—	350
Personnel Security	287	379	379
Total, Oak Ridge Office	12,418	15,872	17,635
Office of Scientific and Technical Information			
Protective Forces	25	15	15
Security Systems	215	30	30

	(dollars in thousands)		
	FY 2005	FY 2006	FY 2007
Cyber Security..	204	165	270
Program Management	—	25	25
Total, Office of Scientific and Technical Information..	444	235	340
Pacific Northwest National Laboratory			
Security Systems	788	830	830
Information Security...	1,946	1,861	1,861
Cyber Security..	2,698	1,640	2,110
Personnel Security..	1,999	2,276	2,755
Material Control and Accountability	498	498	498
Program Management	3,204	2,939	2,939
Total, Pacific Northwest National Laboratory	11,133	10,044	10,993
Princeton Plasma Physics Laboratory			
Protective Forces..	910	975	975
Security Systems	63	33	33
Cyber Security..	605	486	620
Program Management	360	325	325
Total, Princeton Plasma Physics Laboratory.................................	1,938	1,819	1,953
Stanford Linear Accelerator Center			
Protective Forces..	1,829	1,797	1,897
Security Systems	—	64	—
Cyber Security..	506	516	540
Total, Stanford Linear Accelerator Center	2,335	2,377	2,437
Thomas Jefferson National Accelerator Facility			
Protective Forces..	509	695	695
Security Systems	440	102	102
Cyber Security..	447	360	440
Program Management	72	74	74
Total, Thomas Jefferson National Accelerator Facility	1,468	1,231	1,311
All Other			
Cyber Security	436	3,225	3,700
Program Management	48	85	137
Total, All Other	484	3,310	3,837
Subtotal, Safeguards and Security	72,773	73,630	76,592
Less Security Charge for Reimbursable Work	-5,605	-5,605	-5,605
Total, Safeguards and Security..................................	67,168	68,025	70,987

Explanation of Funding Changes

	FY 2007 vs. FY 2006 ($000)

Ames Laboratory

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section. .... +63

Argonne National Laboratory

The decrease in security systems is the result of one-time funded items provided in FY 2006 in support of the 2003 Design Basis Threat (DBT), which is partially offset by an increase in cyber security to achieve a FISMA compliant approach to computer security. .... -108

Brookhaven National Laboratory

Decrease in FY 2007 primarily results from one-time costs provided for security systems in FY 2006. .... -262

Fermi National Accelerator Laboratory

Increase in FY 2007 primarily supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section. Also, there is an increase in protective forces for development and implementation of increased training. .... +328

Lawrence Berkeley National Laboratory

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section. There is also an increase in program management for security assessments of the biological assets. .... +258

Oak Ridge Institute for Science and Education

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section. .... +130

Oak Ridge National Laboratory

The decrease in security systems is the result of funding provided in FY 2006 for upgrades and improvements of entry points. There is a slight increase in program management for performing a vulnerability assessment for the National U233 vault in Building 3019. Also, an increase in cyber security supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section. .... -1,065

Oak Ridge Office

The funding increase primarily supports additional protective force needs at the National U233 vault in Building 3019 in order to comply with the FY 2003 DBT. There is also a significant decrease in security systems due to one time costs in FY 2006 for the 2003 DBT. There is an increase in cyber security to support the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section.	+1,763

Office of Scientific and Technical Information

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section.	+105

Pacific Northwest National Laboratory

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section. Also, Personnel Security continues to increase for clearances, badging, and visitor transactions.	+949

Princeton Plasma Physics Laboratory

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section.	+134

Stanford Linear Accelerator Center

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section. Also, there is an increase in protective forces for development and implementation of increased training, and a slight decrease in security systems for one-time costs in FY 2006.	+60

Thomas Jefferson National Accelerator Facility

Increase in FY 2007 supports the resources needed to achieve a FISMA compliant approach to computer security, as described in the Cyber Security section.	+80

All Other

The increase in FY 2007 is primarily for the continuation of the CSAT visits and the closing of vulnerabilities discovered during this process.	+527
Total Funding Change, Safeguards and Security	**+2,962**

Capital Operating Expenses and Construction Summary

Capital Operating Expenses

	(dollars in thousands)		
	FY 2005	FY 2006	FY 2007
General Plant Projects	1,300	320	—
Capital Equipment	1,813	651	—
Total, Capital Operating Expenses	3,113	971	—

Science/Safeguards and Security/Capital
Operating Expenses and Construction Summary   **FY 2007 Congressional Request**

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