

## Safeguards and Security

### Funding Profile by Subprogram

(dollars in thousands)

	FY 2006 Current Appropriation	FY 2007 Request	FY 2008 Request
Safeguards and Security			
Protective Forces	31,292	33,050	33,050
Security Systems	8,038	6,615	6,615
Information Security	3,784	3,331	3,331
Cyber Security	15,876	18,070	18,070
Personnel Security	4,815	5,725	5,725
Material Control and Accountability	2,392	2,341	2,341
Program Management	7,433	7,460	7,460
Subtotal, Safeguards and Security	73,630	76,592	76,592
Less Security Charge for Reimbursable Work	-5,605	-5,605	-5,605
Total, Safeguards and Security	68,025 <sup>a</sup>	70,987	70,987

#### **Public Law Authorizations:**

Public Law 95-91, "Department of Energy Organization Act", 1977

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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<sup>a</sup> Total is reduced by \$687,000 for a rescission in accordance with P.L. 109-148, the Emergency Supplemental Act to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza, 2006.

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 classified and 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. The newly implemented Personal Identity Verification (PIV) program is also conducted under the Personnel Security activity. 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.

## Detailed Justification

(dollars in thousands)

FY 2006	FY 2007	FY 2008
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**Ames Laboratory**

**607                      570                      670**

The Ames Laboratory Safeguards and Security program coordinates planning, policy, implementation, and oversight in the areas of protective forces, security systems, cyber security, personnel security, material control and accountability, and program management. 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 in the amount of \$26,000.

**Argonne National Laboratory**

**8,570                      8,462                      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. Program activities include protective forces, security systems, information security, cyber security, personnel security, material control and accountability, and program management. These activities ensure that the facility, personnel, and assets remain safe from potential threats. Reimbursable work is included in the numbers above in the amount of \$388,000.

**Brookhaven National Laboratory**

**11,229                      10,967                      10,967**

The Brookhaven National Laboratory (BNL) Safeguards and Security program activities are focused on protective forces, security systems, information security, cyber security, personnel security, material control and accountability, and program management. 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 in the amount of \$806,000.

**Fermi National Accelerator Laboratory**

**3,043                      3,221                      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. Other Safeguards and Security program functions include security systems, cyber security, material control and accountability, and program management.

**Lawrence Berkeley National Laboratory**

**4,743                      4,981                      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, cyber security, personnel security, material control and accountability of special nuclear material, and program management. Reimbursable work is included in the numbers above in the amount of \$830,000.

(dollars in thousands)

FY 2006	FY 2007	FY 2008
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**Oak Ridge Institute for Science and Education**

**1,359**

**1,489**

**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. Program activities include security systems, information security, cyber security, personnel security, and program management. 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. Since the inventory is static, it is accounted for under program management. Reimbursable work is included in the numbers above in the amount of \$319,000.

**Oak Ridge National Laboratory**

**9,219**

**8,396**

**8,396**

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. 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. Reimbursable work is included in the numbers above in the amount of \$1,945,000.

**Oak Ridge Office**

**15,981**

**17,635**

**17,635**

The Oak Ridge Office Safeguards and Security program provides for contractor protective forces for ORNL, including protection of a Category I special nuclear material facility, Building 3019 (\$12,304,000). In addition, protective forces are provided for the Federal Office Building complex, and other activities including security systems, information security, cyber security, and personnel security are supported.

**Office of Scientific and Technical Information**

**305**

**340**

**340**

The Office of Scientific and Technical Information's 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. Safeguards and Security program activities include protective forces, security systems, cyber security, and program management.

**Pacific Northwest National Laboratory**

**10,285**

**10,993**

**10,993**

The Pacific Northwest National Laboratory (PNNL) Safeguards and Security program consists of physical security systems, information security, cyber security, personnel security, material control and accountability, and program management. 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 in the amount of \$1,222,000.

**Princeton Plasma Physics Laboratory**

**1,919**

**1,953**

**2,053**

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

(dollars in thousands)

FY 2006	FY 2007	FY 2008
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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. Program activities include protective forces, security systems, cyber security, and program management. Reimbursable work is included in the numbers above in the amount of \$54,000.

**Stanford Linear Accelerator Center** 2,377      2,437      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. Reimbursable work is included in the numbers above in the amount of \$15,000.

**Thomas Jefferson National Accelerator Facility** 1,231      1,311      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 security systems, cyber security, and program management.

**All Other** 2,762      3,837      3,637

Funding supports the continuation and management of a consistent cyber security approach across the Office of Science laboratory complex, and other safeguards and security program management needs.

<b>Subtotal, Safeguards and Security</b>	<b>73,630</b>	<b>76,592</b>	<b>76,592</b>
<b>Less Security Charge for Reimbursable Work</b>	<b>-5,605</b>	<b>-5,605</b>	<b>-5,605</b>
<b>Total, Safeguards and Security</b>	<b>68,025</b>	<b>70,987</b>	<b>70,987</b>

### Detailed Funding Schedule

(dollars in thousands)

	FY 2006	FY 2007	FY 2008
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Ames Laboratory

Protective Forces	152	152	152
Security Systems	40	40	40
Cyber Security	337	300	400
Personnel Security	33	33	33
Material Control and Accountability	5	5	5
Program Management	40	40	40
<b>Total, Ames Laboratory</b>	<b>607</b>	<b>570</b>	<b>670</b>

Argonne National Laboratory

Protective Forces	3,000	3,000	3,000
Security Systems	944	744	744
Information Security	350	350	350
Cyber Security	1,598	1,840	1,840
Personnel Security	1,070	1,070	1,070

(dollars in thousands)

	FY 2006	FY 2007	FY 2008
Material Control and Accountability	980	830	830
Program Management	628	628	628
<b>Total, Argonne National Laboratory</b>	<b>8,570</b>	<b>8,462</b>	<b>8,462</b>
<b>Brookhaven National Laboratory</b>			
Protective Forces	5,654	5,999	5,999
Security Systems	1,383	939	939
Information Security	656	527	527
Cyber Security	2,109	2,170	2,170
Personnel Security	335	234	234
Material Control and Accountability	392	498	498
Program Management	700	600	600
<b>Total, Brookhaven National Laboratory</b>	<b>11,229</b>	<b>10,967</b>	<b>10,967</b>
<b>Fermi National Accelerator Laboratory</b>			
Protective Forces	1,831	1,781	1,781
Security Systems	382	382	382
Cyber Security	672	900	900
Material Control and Accountability	38	38	38
Program Management	120	120	120
<b>Total, Fermi National Accelerator Laboratory</b>	<b>3,043</b>	<b>3,221</b>	<b>3,221</b>
<b>Lawrence Berkeley National Laboratory</b>			
Protective Forces	1,798	1,578	1,578
Security Systems	460	790	790
Cyber Security	1,877	2,020	2,020
Personnel Security	69	9	9
Material Control and Accountability	24	14	14
Program Management	515	570	570
<b>Total, Lawrence Berkeley National Laboratory</b>	<b>4,743</b>	<b>4,981</b>	<b>4,981</b>
<b>Oak Ridge Institute for Science and Education</b>			
Protective Forces	267	314	314
Security Systems	100	102	102
Information Security	143	142	142
Cyber Security	410	520	520
Personnel Security	118	100	100
Program Management	321	311	311
<b>Total, Oak Ridge Institute for Science and Education</b>	<b>1,359</b>	<b>1,489</b>	<b>1,489</b>

(dollars in thousands)

	FY 2006	FY 2007	FY 2008
<b>Oak Ridge National Laboratory</b>			
Security Systems	3,199	2,466	2,466
Information Security	369	346	346
Cyber Security	2,160	2,290	2,290
Personnel Security	1,241	1,145	1,145
Material Control and Accountability	434	458	458
Program Management	1,816	1,691	1,691
<b>Total, Oak Ridge National Laboratory</b>	<b>9,219</b>	<b>8,396</b>	<b>8,396</b>
<b>Oak Ridge Office</b>			
Protective Forces	14,998	16,644	16,644
Security Systems	228	157	157
Information Security	463	105	105
Cyber Security	—	350	350
Personnel Security	292	379	379
<b>Total, Oak Ridge Office</b>	<b>15,981</b>	<b>17,635</b>	<b>17,635</b>
<b>Office of Scientific and Technical Information</b>			
Protective Forces	15	15	15
Security Systems	30	30	30
Cyber Security	235	270	270
Program Management	25	25	25
<b>Total, Office of Scientific and Technical Information</b>	<b>305</b>	<b>340</b>	<b>340</b>
<b>Pacific Northwest National Laboratory</b>			
Security Systems	1,073	830	830
Information Security	1,803	1,861	1,861
Cyber Security	2,480	2,110	2,110
Personnel Security	1,657	2,755	2,755
Material Control and Accountability	519	498	498
Program Management	2,753	2,939	2,939
<b>Total, Pacific Northwest National Laboratory</b>	<b>10,285</b>	<b>10,993</b>	<b>10,993</b>
<b>Princeton Plasma Physics Laboratory</b>			
Protective Forces	955	975	975
Security Systems	33	33	33
Cyber Security	586	620	720
Program Management	345	325	325
<b>Total, Princeton Plasma Physics Laboratory</b>	<b>1,919</b>	<b>1,953</b>	<b>2,053</b>

(dollars in thousands)

	FY 2006	FY 2007	FY 2008
<b>Stanford Linear Accelerator Center</b>			
Protective Forces	1,797	1,897	1,897
Security Systems	64	—	—
Cyber Security	516	540	540
<b>Total, Stanford Linear Accelerator Center</b>	<b>2,377</b>	<b>2,437</b>	<b>2,437</b>
<b>Thomas Jefferson National Accelerator Facility</b>			
Protective Forces	695	695	695
Security Systems	102	102	102
Cyber Security	360	440	440
Program Management	74	74	74
<b>Total, Thomas Jefferson National Accelerator Facility</b>	<b>1,231</b>	<b>1,311</b>	<b>1,311</b>
<b>All Other</b>			
Protective Forces	130	—	—
Cyber Security	2,536	3,700	3,500
Program Management	96	137	137
<b>Total, All Other</b>	<b>2,762</b>	<b>3,837</b>	<b>3,637</b>
<b>Subtotal, Safeguards and Security</b>	<b>73,630</b>	<b>76,592</b>	<b>76,592</b>
Less Security Charge for Reimbursable Work	-5,605	-5,605	-5,605
<b>Total, Safeguards and Security</b>	<b>68,025</b>	<b>70,987</b>	<b>70,987</b>

### Explanation of Funding Changes

FY 2008 vs. FY 2007 (\$000)
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#### Ames Laboratory

The increase in cyber security will improve tool sets and firewalls and provide some additional funds to protect personal identifiable information on the site's network. +100

#### Princeton Plasma Physics Laboratory

The increase in cyber security will improve tool sets and firewalls and provide some additional funds to protect personal identifiable information on the site's network. +100

#### All Other

The decrease in FY 2008 headquarters funding represents an increased allocation of cyber security funding to SC Laboratories. -200

#### Total Funding Change, Safeguards and Security

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## Capital Operating Expenses and Construction Summary

### Capital Operating Expenses

(dollars in thousands)

	FY 2006	FY 2007	FY 2008
General Plant Projects	1,278	—	—
Capital Equipment	223	—	—
Total, Capital Operating Expenses	1,501	—	—