

\$20,000,000 for Title X uranium and thorium reimbursements. The increase of \$45,250,000 includes \$11,000,000 for Paducah solid waste and stabilization to address the emerging problems of the soil and rubble piles; \$11,000,000 for Paducah nuclear facility D&D of the C-410 complex buildings; and \$23,250,000 for accelerated D&D of the K-25 and K-27 process buildings.

### SCIENCE

Appropriation, 2007 .....	\$3,797,294,000
Budget estimate, 2008 .....	4,397,876,000
Recommended, 2008 .....	4,514,082,000
Comparison:	
Appropriation, 2007 .....	+716,788,000
Budget estimate, 2008 .....	+116,206,000

The Science account funds the Department's work on high energy physics, nuclear physics, biological and environmental sciences, basic energy sciences, advanced scientific computing, maintenance of the laboratories physical infrastructure, fusion energy sciences, safeguards and security, workforce development for teachers and scientists, safeguards and security at Office of Science facilities, and science program direction.

The Committee is generally pleased with the Department's budget request for the Office of Science in fiscal year 2008. This request for a 15.8 percent increase is the major incremental increase planned within the overall 10-year doubling of funding for these activities in DOE. A critical element of this increase is the support it will provide for 3,500 more research personnel, including graduate students. This addresses a major concern for the future of the United States economy, namely the availability of highly educated scientists and engineers to support the technical innovations that drive economic growth.

The fiscal year 2008 request fully funds operating time at most existing DOE user facilities and equal or increased operating time at several others. The request supports investments in major new research facilities such as the International Thermonuclear Experimental Reactor, the Linac Coherent Light Source, and the 12 GeV upgrade to the Continuous Electron Beam Accelerator Facility, along with project engineering and design for the National Synchrotron Light Source II. U.S. scientific and technical leadership also is supported through the availability of advanced scientific computing facilities, and it is noteworthy that the Leadership Computing Facility at Oak Ridge National Laboratory is projected to achieve petaflop levels of performance before the end of fiscal year 2008.

The Committee has several areas of concern. First, despite the large increase in funding, insufficient funds are proposed to fulfill the various landlord functions of the Office of Science. The considerable backlog of World War II vintage buildings cluttering the Oak Ridge National Laboratory is an example. Second, growth in the estimated cost for the International Linear Collider (ILC) means that the schedule for this major high energy physics facility, which the United States aspires to host, will be delayed. Implementation of the Dark Energy Mission without further delay can provide significant intellectual progress on the question of dark energy

while further study is done on the ILC. Third, not all user facilities can be retained as new cutting-edge capabilities come on line, and some hard choices must be made. Fourth, while total funding for Fusion Energy Sciences increases significantly, the large increase to fund the U.S. contribution to the International Thermonuclear Energy Reactor (ITER) results in an increase to the domestic fusion research program that is only slightly above the rate of inflation and far smaller than the percentage increases for most other research areas. The Committee recommends some shifts in funding and priority from those proposed by the Administration to address these concerns.

The Committee is disturbed by the lack of energy research and development coordination across the Office of Science, the applied energy programs—Energy Efficiency and Renewable Energy, Nuclear Energy, Fossil Energy, and Electricity Delivery and Energy Reliability—and the extensive funding through Laboratory Directed Research and Development (LDRD). The Department is directed to establish effective coordination mechanisms across these research efforts. The Committee recommends that LDRD emphasize advanced energy technologies.

The Committee recommendation is \$4,514,082,000, an increase of \$116,206,000 from the budget request and \$716,788,000 over the fiscal year 2007 enacted level. The Committee disapproves of the transfer of certain security functions to the Office of Science from the Office of Security as proposed by the Department, and this removes funding for these functions from the Science budget. Funding for these functions is provided under Other Defense Activities.

#### HIGH ENERGY PHYSICS

The Committee recommends a total of \$782,238,000 for high energy physics, the same as the budget request. The Committee supports the requested increase in research and development activities, from \$30,000,000 to \$60,000,000, to prepare for the International Linear Collider (ILC), including detailed studies of possible U.S. sites for the ILC.

Over the past few years, the Committee has consistently supported the DOE/NASA Joint Dark Energy Mission (JDEM), a space probe to help answer the fundamental physics question of our time on the nature of the “dark energy” that constitutes the majority of the universe. Answering this question is among the top priorities of the physics community and of the Office of Science, and the Committee strongly believes that this initiative should move forward. DOE has done its part, developing the SuperNova Acceleration Probe (SNAP) as the DOE mission concept for JDEM. Unfortunately, NASA has failed to budget and program for launch services for JDEM. Furthering this delay, the Administration has set up a panel to decide which scientific mission should go first in NASA’s queue of after Einstein space science missions.

The situation with regard to JDEM raises critical science policy questions. Are scientific activities supported in the United States according to the missions and interests of different agencies or according to the technology involved? DOE support for JDEM is predicated on the science priorities of High Energy Physics. The Administration’s insistence that this mission be held hostage to NASA’s

mission agenda sends the clear signal that space science is the purview of NASA regardless of the scientific questions to be addressed. If space science is the special preserve of NASA within the U.S. Government, then all funding for such missions should be provided by NASA and the Dark Energy Mission should proceed on that basis with NASA providing the funding for all work at DOE national laboratories selected by NASA for participation.

The Committee notes that NASA funds ground-based telescopes and that NSF funds a particle accelerator. Therefore, use of space technology by DOE to accomplish a mission that is a priority for its high energy physics program should proceed regardless of its priority to another agency. The Committee directs the Department to select, using competitive procedures, a mission science team and approach as soon as possible and proceed with a dark energy mission with a launch in fiscal year 2013. As part of this, the Committee directs DOE to explore other launch options, including cooperative international approaches and the procurement of private launch services, to get the Dark Energy Mission into space. DOE is to proceed with its project implementation in compliance with Project Management Order 413.3. Additional funding in fiscal year 2008 for proceeding with the Dark Energy Mission should be no more than \$20,000,000 above the \$3,500,000 requested for work by the SNAP team and should be taken from other lower-priority areas within High Energy Physics.

The control level is at the High Energy Physics level.

#### NUCLEAR PHYSICS

The Committee recommendation for nuclear physics is \$471,319,000, the same as the budget request. The requested funding will support operations of the Thomas Jefferson National Accelerator Facility and the Relativistic Heavy Ion Collider. The requested funding will continue construction of the Electron Beam Ion Source at Brookhaven National Laboratory (project 07-SC-02) and the PED for the 12 GeV upgrade to the Continuous Electron Beam Accelerator Facility at the Thomas Jefferson National Accelerator Facility (project 06-SC-01).

The nuclear physics community has proposed a shift in its priorities for future facilities to provide rare isotope beams. Specifically, the fiscal year 2008 request includes \$4,000,000 for research and development activities aimed at development of rare isotope beam capabilities. The Rare Isotope Beams (RIB) will involve modifications to existing accelerators rather than the construction of a new Rare Isotope Accelerator (RIA). This approach is projected to achieve much of the science planned for RIA but at significantly reduced cost. The Committee commends the nuclear physics research community for its constructive approach.

#### BIOLOGICAL AND ENVIRONMENTAL RESEARCH

The Committee notes that this area of the Office of Science encompasses two distinct research efforts: using biology to address energy production and environmental remediation and a combination of climate and ecosystem modeling, field research, and radiation monitoring as part of the Climate Change Research Program.

Funding is provided in separate subaccounts for these two efforts and this practice should be used in future fiscal years.

#### BIOLOGICAL RESEARCH

The Committee recommendation for Biological Research is \$423,773,000, an increase of \$30,000,000 above the budget request. The increase is provided for the Life Sciences component of Biological Research and is to be used to expand research efforts to develop new strategies for biofuels and sequestration of carbon, both important in addressing climate change. All of the added funds must be awarded competitively in solicitations that include all sources—universities, the private sector, and government laboratories—on an equal basis.

The Committee applauds the use of genomics to address multiple areas associated with energy production including hydrogen and ethanol. The competitive selection of the Genomes to Life Bioenergy Research Centers is a major progressive step, and the Committee hopes that the Department will not confine its research in this area to just a few major centers but will complement these centers with an extensive program of competitive research grants to university, government laboratory and for-profit and not-for-profit private sector researchers.

#### CLIMATE CHANGE RESEARCH

The Committee recommendation for Climate Change Research is \$158,124,000, an increase of \$20,000,000 above the budget request. The increase is provided for enhanced climate modeling to take advantage of the advanced computing resources of the Department. The Committee is providing this increase to accelerate progress toward horizontal spatial resolutions of 10 kilometers. When this finer resolution is achieved, models should resolve local phenomena that punctuate the climate, such as severe storms with their intense precipitation and ability to transform the local landscape.

The Climate Change Research Program at DOE is a collection of small efforts within the overall, multi-agency effort to understand and better predict climate change. This approach may prove inefficient in terms of research management and coordination and will be successful only if the extensive coordination of the Climate Change Research Program across multiple agencies, which has been a hallmark of this effort since its inception in the late 1980s, is continued. Long-term, ground-based monitoring of the environment is generally the province of the National Oceanic and Atmospheric Administration (NOAA), while the long term ecological research sites are supported through the National Science Foundation (NSF). Climate modeling at DOE benefits from the Department's preeminence in scientific computing, but climate modeling is also done by groups sponsored by NSF, NOAA, and NASA. The Committee is concerned that with the static budget for Climate Change Research and the true intellectual excitement of the other research areas in the Office of Science, climate change research is not a priority nor a unique expertise of the Department. Given the need for detailed understanding and predictions at local and regional scales to guide responses to climate change, it is time for the Department to make this area a priority.

## BASIC ENERGY SCIENCES

The Committee recommendation for basic energy sciences is \$1,498,497,000, the same as the budget request and an increase of \$248,247,000 over the current fiscal year. For purposes of reprogramming during fiscal year 2008, the Department may allocate funding among all operating accounts within Basic Energy Sciences, consistent with the reprogramming guidelines outlined earlier in this report.

*Research.*—The Committee recommendation includes \$1,093,219,000 for materials sciences and engineering, and \$283,956,000 for chemical sciences, geosciences, and energy biosciences. The Committee recommendation funds operations of the five Nanoscale Science Research Centers, operations of the Advanced Light Source, the Advanced Photon Source, the National Synchrotron Light Source, the Stanford Synchrotron Radiation Laboratory, the Intense Pulsed Neutron Source, and the Manuel Lujan, Jr. Neutron Scattering Center at their full optimal numbers of hours, additional instrumentation for the recently-completed Spallation Neutron Source (SNS), and the science research portion (\$59,500,000) of the hydrogen initiative at the requested levels. Given the long-term nature of hydrogen as an energy transfer medium, with timescales for deployment similar to those for fusion energy, funding for hydrogen research in the Office of Science is particularly appropriate. The Committee previously directed the National Nuclear Security Administration to make available, from existing stocks, sufficient heavy water to meet SNS needs, and the Committee renews this direction for fiscal year 2008. Also included within this account is \$8,240,000 for the Experimental Program to Stimulate Competitive Research (EPSCoR), the same as the budget request.

Given the dismal operating record of the High Flux Isotope Reactor (HFIR) in fiscal year 2006 with 89.5% unscheduled downtime and the lack of major research accomplishments from its operation, the Committee will be watching to see that the steps taken by DOE to put HFIR back on track are successful.

*Construction.*—The Committee recommendation includes \$121,322,000 for Basic Energy Sciences construction projects, the same as the requested amount. The Committee recommendation provides the requested funding of: \$51,356,000 to continue construction of the Linac Coherent Light Source (05-R-320) at the Stanford Linear Accelerator Center; \$366,000 to complete construction of the Center for Functional Nanomaterials (05-R-321) at Brookhaven National Laboratory; \$45,000,000 for continued project engineering and design of the National Synchrotron Light Source II (07-SC-06) at Brookhaven National Laboratory; \$17,200,000 for construction of the Advanced Light Source User Support Building (08-SC-01) at Lawrence Berkeley National Laboratory; \$950,000 for PED of the Photon Ultrafast Laser Science (08-SC-10) and Engineering Building Renovation at the Stanford Linear Accelerator Center; and \$6,450,000 to begin renovation of the Photon Ultrafast Laser Science and Engineering Building Renovation (08-SC-11) at the Stanford Linear Accelerator Center.

Given the extremely poor record of the Department in correctly estimating and controlling costs for major projects, particularly construction, the Committee compliments the Office of Science for completing the Spallation Neutron Source almost on schedule and almost on budget.

#### ADVANCED SCIENTIFIC COMPUTING RESEARCH

The Committee recommendation is \$340,198,000, the same as the budget request and an increase of \$56,783,000 over the current fiscal year. The Committee commends the Office of Science and the Office of Advanced Scientific Computing Research for their efforts to provide cutting-edge capabilities to meet current scientific computational needs, and at the same time to extend the boundaries of that cutting edge into the next generation of high-performance scientific computers and supporting software. Perhaps no other area of research at the Department is so critical to sustaining U.S. leadership in science and technology, revolutionizing the way science is done, and improving research productivity.

#### FUSION ENERGY SCIENCES

The Committee recommendation for fusion energy sciences is \$427,850,000, the same as the budget request, and \$108,900,000 above the previous year reflecting the \$100,000,000 growth in the budget for the International Thermonuclear Experimental Reactor (ITER).

The Committee does not support funding for a new program in High Energy Density Physics and provides no funds for this research area. The Committee directs that the \$12,281,000 requested for High Energy Density Physics be used to increase funding for the following: \$7,500,000 for facility operations at the three U.S. user facilities—the DIII-D, Alcator C-Mod, and National Spherical Torus Experiment, \$1,500,000 for Theory, \$1,500,000 for materials research within Enabling R&D, and \$1,781,000 for Alternative Concept Experimental Research.

The Committee notes that major growth in support for ITER, with an additional increase in this support of \$54,500,000 planned for fiscal year 2009, is affecting the overall funding picture for Fusion Energy Sciences and for the Office of Science as a whole. When direct funding for ITER is excluded, Fusion Energy Sciences increases by just 3.8 percent and the increase requested for the Office of Science, while still large, is 13.4 percent rather than 15.8 percent. If delays in ITER associated with international cooperation reduce the amount that can be spent on ITER in fiscal year 2008, the Committee directs the Office of Fusion Energy Sciences to invest the funds made available in Theory, materials research within Enabling R&D, Alternative Concept Experimental Research and operating time at the three U.S. user facilities rather than retaining the money for ITER and carrying it over to future fiscal years.

#### SCIENCE LABORATORIES INFRASTRUCTURE

The Committee recommendation provides a total of \$151,806,000 for Science Laboratories Infrastructure, \$72,850,000 above the

budget request. The Committee supports the \$6,145,000 for the continued demolition of the Bevatron at Lawrence Berkeley National Laboratory. The \$35,000,000 requested for the Physical Sciences Facility at the Pacific Northwest National Laboratory (project 07-SC-05) is increased to \$100,000,000 and should be used for all needed buildings, including those proposed for third party development. None of these funds should be held in reserve so that the pending cleanup and closure of all but three critical facilities of the 300 Area at the Hanford site can proceed without further delay. Within available funds, the Committee directs the Department to continue to make Payments In Lieu of Taxes associated with Argonne National Laboratory and Brookhaven National Laboratory at the requested level of \$1,520,000. Given the \$325,000,000 backlog of science facilities currently in need of demolition or cleanup for reuse, reduction in funding for Excess Facilities Disposition is unwise. Accordingly, \$16,678,000 is provided for Excess Facilities Disposition, an increase of \$7,850,000 above the request.

The Committee is aware of significant legacy radioactive contamination at Argonne National Laboratory, and directs the Department to prepare an inventory of such contamination, including a determination of the parent programs responsible for such contamination, so that the Committee can apportion remediation costs fairly. This inventory is due to the Committee not later than November 30, 2007.

#### SAFEGUARDS AND SECURITY

The Committee recommends \$76,592,000, the same as the budget request, to meet safeguards and security requirements at Office of Science facilities.

#### SCIENCE WORKFORCE DEVELOPMENT

The Committee provides \$11,000,000 for workforce development for teachers and scientists in fiscal year 2008, the same as the requested amount. The Committee concurs with the proposed expansion of the laboratory science teacher professional development program. It is desirable that science teachers at the secondary level be enabled to be scientists who teach at the precollegiate level rather than teachers who happen to teach science. Teachers should be encouraged to involve their students in doing science rather than just reading about and reproducing well-established principles.

#### SCIENCE PROGRAM DIRECTION

The Committee recommendation is \$178,290,000 for Science program direction, \$6,644,000 below the budget request. This amount includes: \$104,193,000 for program direction at DOE field offices and \$74,097,000 for program direction at DOE headquarters. Funding for certain security functions proposed to be transferred to the Office of Science is removed from this budget and provided in the budget for the Office of Security in Other Defense Activities. The control level for fiscal year 2008 is at the program account level of Science Program Direction.

## FUNDING ADJUSTMENTS

The Committee recommendation includes an offset of \$5,605,000 for the safeguards and security charge for reimbursable work, as proposed in the budget request.

## NUCLEAR WASTE DISPOSAL

Appropriation, 2007 .....	\$99,206,000
Budget estimate, 2008 .....	202,454,000
Recommended, 2008 .....	202,454,000
Comparison:	
Appropriation, 2007 .....	+103,248,000
Budget estimate, 2008 .....	---

The Department of Energy requested a total of \$494,500,000 for work on the Yucca Mountain nuclear waste repository in fiscal year 2008, \$202,454,000 for Nuclear Waste Disposal and \$292,046,000 for Defense Nuclear Waste Disposal. According to the Department's testimony to the Committee, it will submit a License Application to the Nuclear Regulatory Commission in June 2008, and the funding requested is required to support that effort. The requested funds will be used for preparation of the License Application and activities to keep the site safe and secure.

In testimony before the Committee, the Department indicated that the best achievable schedule for opening the Yucca Mountain repository would be 2017. This schedule assumes that the Nuclear Regulatory Commission would complete its review and grant a construction license to DOE in 36 months. It also assumes no delay in the opening due to litigation. The Nuclear Regulatory Commission review may require 48 months and there could be significant delays due to litigation once a license is granted. Fines and other payments due to the failure of the U.S. Government to take custody and remove spent nuclear fuel from commercial reactor sites will continue for more than two decades following the opening of the repository, as there will be a considerable backlog of waste to be replaced. The government's liability for failure to remove spent nuclear fuel from reactor sites will grow to \$7 billion and delays in opening Yucca Mountain will increase this total liability by approximately \$500 million for each year of delay.

Onsite storage of spent nuclear fuel at operating commercial reactor sites is a manageable risk. A recent study by the American Physical Society concludes that moving spent fuel to an alternative interim storage site and then to Yucca Mountain does not make sense given the costs of moving the spent fuel twice and the fact that operating reactors will always have an inventory of spent fuel to be guarded and managed. The same conclusion does not hold true for spent fuel in storage at the nine decommissioned reactor sites as removal of the fuel from these sites would allow them to be completely closed. While the requirement that DOE take custody of spent fuel is a matter of law, testimony to the Committee last year pointed out that failure to take custody of the fuel undermines public confidence in the overall policy on spent fuel from commercial nuclear reactors. The Committee directs the Department to develop a plan to take custody of spent fuel currently stored at decommissioned reactor sites to both reduce costs that are ultimately borne by the taxpayer and demonstrate that DOE can



DEPARTMENT OF ENERGY  
 (AMOUNTS IN THOUSANDS)

	FY 2007 Enacted	FY 2008 Request	House Recommended
18000 Small Sites:			
18100 Argonne National Lab.....	10,726	2,437	2,437
18200 Brookhaven National Lab.....	28,860	23,689	33,689
18300 Idaho National Lab.....	7,000	5,400	5,400
18400 Consolidated Business Center:			
18500 California Site support.....	160	160	160
18600 Inhalation Toxicology Lab.....	3,358	427	427
18700 Lawrence Berkeley National Lab.....	1,710	---	---
18800 Stanford Linear Accelerator Center.....	5,720	5,900	5,900
18900 Energy Technology Engineering Center.....	16,000	13,000	20,000
19000 Los Alamos National Lab.....	1,025	1,905	1,905
19200 Moab.....	28,056	23,952	23,952
19400 Completed sites administration and support.....	14,599	1,200	1,200
19500 Subtotal, Consolidated Business Center.....	70,628	46,544	53,544
19600 Subtotal, small sites.....	117,214	78,080	95,080
19620 Legacy management.....	---	---	35,104
19700 TOTAL, NON-DEFENSE ENVIRONMENTAL CLEANUP.....	349,687	180,937	286,041
19800 URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING			
19900 FUND			
20000 Decontamination and decommissioning.....	536,806	553,509	598,759
20100 Uranium/thorium reimbursement.....	19,800	20,000	20,000
20400 TOTAL, UED&D FUND/URANIUM INVENTORY CLEANUP.....	556,606	573,509	618,759
20500 SCIENCE			
20600 High energy physics			
20700 Proton accelerator-based physics.....	374,733	389,672	389,672
20800 Electron accelerator-based physics.....	104,127	79,763	79,763
20900 Non-accelerator physics.....	59,865	72,430	72,430
21000 Theoretical physics.....	56,407	56,909	56,909
21100 Advanced technology R&D.....	156,654	183,464	183,464
21800 Total, High energy physics.....	751,786	782,238	782,238
21900 Nuclear physics.....	410,646	453,619	453,619
22000 Construction			
22100 07-SC-02 Electron beam ion source Brookhaven			
22200 National Laboratory, NY.....	5,000	4,200	4,200
22300 06-SC-01 Project engineering and design (PED)			
22400 12 GeV continuous electron beam accelerator			
22500 facility upgrade, Thomas Jefferson National			
22600 Accelerator facility (was project 07-SC-001),			
22700 Newport News, VA.....	7,000	13,500	13,500
22800 06-SC-02 Project engineering and design (PED),			
22900 Electron beam ion source, Brookhaven National			
23000 Laboratory, Upton, NY.....	120	---	---
23100 Total, Nuclear physics.....	422,766	471,319	471,319
23200 Biological and environmental research			
23300 Biological research.....	349,097	393,773	423,773
23400 Climate change research.....	134,398	138,124	158,124
23600 Total, Biological and environmental research.....	483,495	531,897	581,897

DEPARTMENT OF ENERGY  
 (AMOUNTS IN THOUSANDS)

	FY 2007 Enacted	FY 2008 Request	House Recommended
23700 Basic energy sciences			
23800 Research			
23900 Materials sciences and engineering research.....	898,481	1,093,219	1,093,219
24000 Chemical sciences, geosciences and energy			
24100 biosciences.....	226,740	283,956	283,956
24200 Subtotal, Research.....	1,125,221	1,377,175	1,377,175
24300 Construction			
24400 08-SC-01 Advanced light source (ALS) user support			
24500 building, LBNL, CA.....	---	17,200	17,200
24600 08-SC-10 Project engineering and design (PED)			
24700 Photon ultrafast laser science and engineering			
24800 (PULSE) building renovation, SLAC, CA.....	---	950	950
24900 08-SC-11 Photon ultrafast laser science and			
25000 engineering (PULSE) building renovation,			
25100 SLAC, CA.....	---	6,450	6,450
25200 07-SC-06 Project engineering and design (PED)			
25300 National Synchrotron light source II (NSLS-II)..	3,000	45,000	45,000
25400 07-SC-12 Project engineering and design (PED)			
25500 Advanced light source user building, LBNL.....	1,500	---	---
25600 05-R-320 LINAC coherent light source (LCLS).....	101,000	51,356	51,356
25700 05-R-321 Center for functional nanomaterials (BNL)	18,864	366	366
25800 04-R-313 The molecular foundry (LBNL).....	257	---	---
25900 03-SC-002 Project engineering & design (PED) SLAC.	161	---	---
26200 03-R-313 Center for Integrated Nanotechnology.....	247	---	---
26500 Subtotal, Construction.....	125,029	121,322	121,322
26600 Total, Basic energy sciences.....	1,250,250	1,498,497	1,498,497
26800 Advanced scientific computing research.....	283,415	340,198	340,198
26900 Fusion energy sciences program.....	318,950	427,850	427,850
27000 Science laboratories infrastructure			
27100 Laboratories facilities support			
27200 Infrastructure support.....	1,520	1,520	1,520
27400 Construction			
27500 07-SC-05 Physical science facilities, PNNL.....	10,000	---	---
27600 07-SC-04 Science laboratories infrastructure			
27700 project engineering and design (PED).....	8,908	---	---
28000 03-SC-001 Science laboratories infrastructure			
28100 MEL-001 Multiprogram energy laboratory			
28200 infrastructure projects, various locations....	10,131	63,529	128,529
28300 Subtotal, Construction.....	29,039	63,529	128,529
28400 Subtotal, Laboratories facilities support.....	30,559	65,049	130,049
28500 Oak Ridge landlord.....	5,079	5,079	5,079
28600 Excess facilities disposal.....	6,348	8,828	16,678

DEPARTMENT OF ENERGY  
(AMOUNTS IN THOUSANDS)

	FY 2007 Enacted	FY 2008 Request	House Recommended
28700 Total, Science laboratories infrastructure.....	41,986	78,956	151,806
28800 Safeguards and security.....	75,830	76,592	76,592
28900 Workforce development for teachers and scientists.....	7,952	11,000	11,000
29000 Science program direction			
29100 Field offices.....	95,716	104,193	104,193
29200 Headquarters.....	70,753	80,741	74,097
29400 Total, Science program direction.....	166,469	184,934	178,290
29600 Subtotal, Science.....	3,802,899	4,403,481	4,519,687
29800 Less security charge for reimbursable work.....	-5,605	-5,605	-5,605
29900 TOTAL, SCIENCE.....	3,797,294	4,397,876	4,514,082
30000 NUCLEAR WASTE DISPOSAL			
30100 Repository program.....	33,566	127,780	127,780
30300 Program direction.....	65,640	74,674	74,674
30600 TOTAL, NUCLEAR WASTE DISPOSAL.....	99,206	202,454	202,454
30620 ENVIRONMENT, SAFETY AND HEALTH			
30640 Office of Environment, Safety and Health (non-defense)	---	---	9,494
30660 Program direction.....	---	---	22,131
30680 TOTAL, ENVIRONMENT, SAFETY AND HEALTH.....	---	---	31,625
30690 Innovative Technology Loan Guarantee Program			
30695 administrative operations.....	---	8,390	---
30700 DEPARTMENTAL ADMINISTRATION			
30800 Administrative operations			
30900 Salaries and expenses			
31000 Office of the Secretary.....	5,429	5,787	5,787
31100 Board of contract appeals.....	147	---	---
31200 Chief financial officer.....	38,044	40,260	40,260
31300 Management.....	54,161	63,939	60,725
31400 Human capital management.....	22,107	28,161	28,161
31500 Chief information officer.....	39,172	47,502	47,502
31600 Congressional and intergovernmental affairs.....	4,813	4,762	4,762
31700 Economic impact and diversity.....	5,477	5,649	5,649
31800 General counsel.....	23,202	30,076	27,086
32000 Policy and international affairs.....	15,054	18,948	18,948
32100 Public affairs.....	4,493	3,860	3,880
32200 Loan guarantee office.....	7,000	---	2,390
32300 Subtotal, Salaries and expenses.....	219,099	248,944	245,130
32400 Program support			
32500 Minority economic impact.....	677	834	834
32600 Policy analysis and system studies.....	389	625	625
32700 Environmental policy studies.....	558	531	531
32800 Climate change technology program (prog. supp)....	501	1,066	1,066
32900 Cybersecurity and secure communications.....	43,075	35,184	35,184
33000 Corporate management information program.....	22,825	28,421	28,421

Project Name	Committee Recommendation
<b>Science</b>	
AAMURI Integrated Environmental Research and Services (AL)	\$500,000
Advanced Cellular and Biomolecular Imaging (PA)	500,000
Advanced Laboratory Technology Initiative (NJ)	500,000
Albright College Science Facilities (PA)	350,000
Alliance for NanoHealth (TX)	750,000
Belmont Bay Science Center (VA)	250,000
Bennett College Science and Technology facility (NC)	1,000,000
Berkshire Environmental Resources Center (MA)	250,000
Boston College Institute for Integrated Sciences (MA)	1,000,000
Bronx Community College Sustainable Energy Center (NY)	300,000
Bulk Production of Metallic Glass (OH)	500,000
Cardiac Catheterization Research and Equipment (TX)	750,000
Cheyney University STEM education infrastructure (PA)	1,250,000
Chicago Public Schools Science Laboratory Enhancement (IL)	1,000,000
Chicago State University Research (IL)	1,000,000
Children's Oncology Group Childhood Cancer Research (TX)	200,000
Coe College Scientific Instrumentation (IA)	900,000
Columbus Children's Hospital Imaging Equipment (OH)	1,000,000
Decision Support Tools for Complex Analysis (OH)	2,000,000
DePaul University Interdisciplinary Science and Technology (IL)	1,250,000
Eastern Kentucky University Chemical Research Instrumentation (KY)	300,000
Eckerd College Science Center (FL)	2,000,000
Emmanuel College Center for Science Partnership (MA)	500,000
Energy efficiency through the NY Industrial Retention Network (NY)	500,000
Environmental System Center at Syracuse University (NY)	750,000
Fordham University Regional Science Center (NY)	700,000
Geothermal Demonstration Project (OH)	500,000
Geothermal System at Sherman Hospital in Elgin, IL (IL)	1,000,000
Germantown Biotechnology Project (MD)	1,500,000
Good Samaritan Hospital Specialty Cancer Center (OH)	400,000
Green Building Technologies for Lakeview Museum (IL)	200,000
Green Energy Xchange (NC)	840,000
Gulf of Maine Research Institute lab upgrades (ME)	750,000
Harney Science Center Equipment (CA)	500,000
Hofstra University Center for Condensed Matter Research (NY)	550,000
Imaging and Oncology Equipment at UVSC (UT)	750,000
Indiana Wesleyan University School of Nursing (IN)	250,000
Inland Northwest Research Alliance (INRA) Water Research (WA)	1,500,000
Institute for Collaborative Sciences Research (FL)	400,000
Jacksonville University Marine Science Research Institute (FL)	500,000
KUMC Tele-Oncology Network (KS)	300,000
Lake Granbury and Lake Whitney Assessment (TX)	500,000
Lapeer Regional Medical Center CT Simulator (MI)	400,000
Levine Children's Hospital CT Scanner (NC)	1,000,000

Project Name	Committee Recommendation
<b>Science continued</b>	
Lightweight Power Supply Development (PA)	500,000
Logan Cancer Center Equipment and Technology (UT)	1,000,000
Loma Linda University Medical College Radiation Protection Program (CA)	2,000,000
Louisville Science Center (KY)	150,000
Luther College Science Building renovation project (IA)	750,000
Marshall Fund Minority Energy Science Initiative (MD)	1,000,000
Mathematics, Science and Technology Research and Training Lab project (PA)	2,500,000
Memorial Health System, Springfield, Illinois (IL)	500,000
Memorial Hermann Baptist Hospital Orange--1.5T MRI (TX)	600,000
Nanosystems Initiative at the University of Rochester (NY)	1,000,000
Nanotechnology Research Internships in Illinois (IL)	500,000
Neuroscience Laboratory, Dominican University (IL)	300,000
New Mexico Center for Isotopes in Medicine (NM)	750,000
New School University Green Building (NY)	2,000,000
Notre Dame Innovation Park (IN)	784,000
Nutley Energy Efficient Elementary Schools (NJ)	500,000
Perry Memorial Hospital PACS System (IL)	350,000
Phase II Design and Const. of Sage Hall Science (FL)	500,000
Pikeville Medical Center, Kentucky (KY)	500,000
Pioneer Valley Life Sciences Initiative (MA)	1,000,000
Proton Beam Therapy (WA)	750,000
Purdue Calumet Inland Water Institute (IN)	500,000
Purdue Technology Center (IN)	2,000,000
Rockland Community College Science Laboratory (NY)	500,000
Roosevelt University Biology Laboratory Equipment (IL)	700,000
Seton Hall University Science and Technology Center (NJ)	1,000,000
South Carolina Lambda Rail Computer Network Portal (SC)	1,200,000
South County Nature Preserve, Irvington, NY (NY)	250,000
St. Clare's Hospital (NJ)	500,000
St. Joseph's University Science Center Equipment (PA)	800,000
St. Rose Dominican Hospitals Sienna Trauma Center (NV)	500,000
St. Thomas University - CORTE (FL)	250,000
Sustainable Biofuels Development Center (CO)	350,000
Technology for print disabled students (FL)	1,200,000
Texas Center for Advanced Science Competitiveness and Modeling (TX)	750,000
The Methanol Economy (CA)	2,000,000
UMASS Integrative Science Building (MA)	2,000,000
University of Dubuque, Environmental Science Center (IA)	1,000,000
University of North Carolina Collaborative Initiative in Biomedical Imaging (NC)	1,000,000
University of Saint Francis Science Center (IN)	721,000
University of Southern Indiana Engineering Equipment (IN)	750,000
Urban Research Center and Greenhouse, Brooklyn (NY)	500,000
USA Cancer Institute Oncology Medical Record System (AL)	500,000
Wake Forest University Research on alternatives to transplantation (NC)	500,000

Project Name	Committee Recommendation
<b>Science continued</b>	
Westminster College Science Center (UT)	400,000
Xavier University Science Equipment (OH)	500,000
<b>Weapons Activities</b>	
Advanced Engineering Environment at Sandia Laboratory (CA, MA)	\$1,500,000
CIMTRAK Cyber Security (IN)	1,000,000
Interagency advanced computing research, equipment and facilities at NextEdge Technology Park (OH)	2,000,000
Kansas City Plant Multi-Disciplined Integrated Collaboration (MO)	1,000,000
Laboratory for Advanced Laser-Target Interactions (OH)	2,000,000
Northwest Indiana Computational Grid (IN)	6,000,000
Secure Wireless Devices and Sensors (IN)	250,000
Technical Product Data Initiative (OH)	1,000,000
<b>Defense Nuclear Nonproliferation</b>	
George Mason University Center for Biodefense and Infectious Disease Research (VA)	\$3,000,000
Nuclear Security Science and Policy Institute, Texas A&M (TX)	2,000,000
Offshore Detection Integrated System (OH)	1,000,000
<b>Office of the Administrator (NNSA)</b>	
ACE program at Maricopa Community Colleges (AZ)	\$1,000,000
Morehouse College Energy Science Research and Education Initiative (GA)	2,000,000
South Carolina HBCU Math and Science Initiative (SC)	10,500,000
<b>Defense Environmental Cleanup</b>	
International Alternative Cleanup Technology Agreement (PA, SC)	\$5,000,000
Western Environmental Technology Office (MT)	2,000,000
<b>Construction, Rehabilitation, Operation and Maintenance, Western Area Power Administration</b>	
Colorado River Transmission Line (AZ)	\$3,000,000