

sioning Fund includes a portion of the funds necessary to provide for winterization and cold standby at the Portsmouth plant; the balance of the funds are provided under Other Uranium Activities. The net increase over the budget request, \$30,000,000 in consideration of the shift of DUF6 activities to Other Uranium Activities, is to be divided with \$10,000,000 to the Paducah site and \$20,000,000 to the East Tennessee Technology Park.

The Committee recommendation includes the requested amount, \$1,000,000, for uranium and thorium reimbursements as authorized by Title X of the Energy Policy Act of 1992. Because of significantly increased funding for this activity in fiscal year 2001, the Department indicates that the backlog of reimbursements has been eliminated and \$1,000,000 will be sufficient for anticipated claims in fiscal year 2002.

Other Uranium Activities.—The Committee recommendation is \$120,784,000, an increase of \$10,000,000 over the budget request. This \$10,000,000 reflects the transfer of DUF6 activities from the Uranium Enrichment Decontamination and Decommissioning Fund subaccount to the Other Uranium Activities subaccount. In addition to funds for the DUF6 conversion project at Portsmouth and Paducah, the Other Uranium Activities subaccount includes maintenance of enrichment facilities and inventories, financial liabilities arising prior to the privatization of the United States Enrichment Corporation, and the balance of the winterization and cold standby activities for the Portsmouth plant. These are funded at the Administration's requested levels: \$99,000,000 for maintenance of facilities and inventories, including the winterization/cold standby work at Portsmouth; \$11,784,000 for pre-existing liabilities; and \$10,000,000 for the DUF6 conversion facilities (transferred from the Uranium Enrichment Decontamination and Decommissioning Fund).

SCIENCE

Appropriation, 2001	\$3,180,341,000
Budget Estimate, 2002	3,159,890,000
Recommended, 2002	3,166,395,000
Comparison:	
Appropriation, 2001	– 13,946,000
Budget Estimate, 2002	+6,505,000

The Science account funds the Department's work on high energy physics, nuclear physics, biological and environmental sciences, basic energy sciences, advanced scientific computing, energy research analyses, facilities support for the multiprogram energy laboratories, fusion energy sciences, safeguards and security, and program direction. The Committee is very supportive of most of the research conducted by the Department's Office of Science, but funding constraints preclude significant increases this fiscal year. The Committee recommendation is \$3,166,395,000, an increase of \$6,505,000 over the budget request and \$13,946,000 less than the fiscal year 2001 funding level.

HIGH ENERGY PHYSICS

The Committee recommends \$716,100,000 for high energy physics, the same as the budget request and \$10,030,000 less than fiscal year 2001.

Research and technology.—The Committee recommendation for research and technology in high energy physics is \$247,870,000, the same as the budget request and \$13,150,000 more than provided in fiscal year 2001.

Facility operations.—The Committee recommends \$456,830,000 for facility operations, the same as the budget request and \$2,180,000 less than fiscal year 2001. This amount includes \$244,739,000 for Fermilab and \$125,078,000 for the Stanford Linear Accelerator Center to provide for full operation of these facilities.

Construction.—The Committee recommendation for construction of the Neutrinos at the Main Injector project at Fermilab is \$11,400,000, the same as the budget request.

NUCLEAR PHYSICS

The Committee recommendation for nuclear physics is \$361,510,000, \$1,000,000 more than the budget request, but \$8,380,000 less than provided in fiscal year 2001. Additional funds are provided for university research in nuclear physics.

BIOLOGICAL AND ENVIRONMENTAL RESEARCH

The Committee recommendation for biological and environmental research is \$445,880,000, an increase of \$2,910,000 over the budget request but \$55,380,000 less than in fiscal year 2001.

This amount includes \$19,470,000, the same as the budget request, to continue the Microbial Cell Project and to initiate the Genomes to Life program. The National Institute for Global Environmental Change (NIGEC), which is integrated throughout the Environmental Processes subaccount, is funded at the requested funding level of \$8,763,000.

Joint Genome Institute.—The Committee recommendation provides the requested amount for the Joint Genome Institute, \$57,200,000. The Committee encourages the Joint Genome Institute to utilize its sequencing capacity to provide sequences and draft sequences of the gene-rich regions of plant and microbial organisms of economic importance to agriculture, such as corn, wheat, and plant pathogens.

Construction.—The Committee recommendation includes \$11,405,000, an increase of \$1,405,000 over the budget request, to complete the construction of the Laboratory for Comparative Functional Genomics at the Oak Ridge National Laboratory. The total project cost for this facility is only \$14,420,000. By completing construction in two rather than three fiscal years, this will enable beneficial occupancy of the new facility in May 2003 instead of May 2004. This accelerated project completion will save the costs of utilities and maintenance for the old facility, plus the site usage fee at the Y-12 site, yielding a total net savings to the Federal government of approximately \$800,000.

BASIC ENERGY SCIENCES

The Committee recommendation for basic energy sciences is \$1,006,705,000, \$2,000,000 more than the budget request and a reduction of \$6,665,000 from fiscal year 2001. For purposes of reprogramming during fiscal year 2002, the Department may allocate funding among all operating accounts within basic energy sciences.

Spallation Neutron Source.—The Committee recommends the requested amount for construction of the Spallation Neutron Source (SNS), \$276,300,000. This represents an increase of \$16,800,000 compared to fiscal year 2001. The Committee appreciates the recent improvements made in the management of this project, but cautions the Department to maintain a close watch on the various components of the SNS being produced by other national laboratories.

Intense Pulsed Neutrino Facility.—The Committee recognizes the value of such a facility in conjunction with the Spallation Neutron Source, but budget constraints preclude funding an intense pulsed neutrino facility in fiscal year 2002.

Nanoscale Science Research.—The Committee supports the creation of several regional nanoscale science research centers consistent with the September 1999 recommendations of the Interagency Working Group on Nanoscience, Engineering and Technology of the National Science and Technology Council. The Committee also supports the efforts of the Department to seek the active involvement of the academic community in the development of these centers. However, the Committee reminds the Department that its efforts to involve universities must reach broadly and openly rather than selectively. Consistent with existing policies for current user facilities, discussions regarding the characteristics and equipment to be provided in these planned nanoscience user facilities should be open to all U.S. universities via published notice, workshops, and other formal mechanisms. The external users of the Department's resources must be determined through the competitive peer-review process. Any partnership arrangements between the involved national laboratories and academic institutions, or any other non-federal partners, must follow procedures to ensure full and open competition, as required by section 309 of this Act.

The Committee recommendation includes \$3,000,000 to initiate project engineering and design (PED) for three nanoscale science research centers in fiscal year 2002. This is a reduction of \$1,000,000 from the budget request of \$4,000,000. Any additional centers should be requested as part of the fiscal year 2003 budget request. The detailed budget justification for fiscal year 2003 should also provide more accurate cost estimates for the three centers receiving PED funds in fiscal year 2002. The Committee expects the Department to maintain tight cost and schedule controls on these three facilities.

The additional \$3,000,000 included over the budget request is to be made available for university research in nanoscale science and engineering.

Experimental Program to Stimulate Competitive Research (EPSCoR).—The Committee recommendation includes \$10,000,000

within available funds for EPSCoR, an increase of \$2,315,000 over the budget request and \$3,185,000 over fiscal year 2001.

ADVANCED SCIENTIFIC COMPUTING RESEARCH

The Committee recommendation is \$163,050,000, the same as the budget request and \$6,950,000 less than the funding in fiscal year 2001. The Committee is supportive of the objectives of the Advanced Scientific Computing Research (ASCR) program, but is concerned that the effort not duplicate the work already being done on the defense side of the Department in the Advanced Scientific Computing Initiative (ASCI). The Department should submit a report not later than December 31, 2001, that specifically outlines the differences between the objectives and current and proposed work activities of ASCR and ASCI. The Department is also directed to maximize the involvement of universities in the ASCR program, so that both the Department and the academic community can share in the latest technology developments in this field.

ENERGY RESEARCH ANALYSES

The Committee recommendation for energy research analyses is \$1,000,000, the same as the budget request and the fiscal year 2001 funding level.

MULTI-PROGRAM ENERGY LABORATORIES FACILITIES SUPPORT

The multi-program energy laboratories facilities support program provides funding to support the infrastructure at the five multi-program national laboratories under the direction of the Office of Science. This program also provides funding for landlord costs for the centralized Oak Ridge Operations Office. The Committee recommendation is \$30,175,000, the same as the budget request but \$3,755,000 less than in fiscal year 2001. This amount includes the requested funds of \$3,183,000 for project engineering design for three new projects: Phase I of the mechanical and control systems upgrade at Argonne National Laboratory—East, laboratory systems upgrades at Pacific Northwest National Laboratory, and the research support center at Oak Ridge National Laboratory (project 02-SC-001). Also included is \$18,613,000, the same as the budget request, for various infrastructure improvement projects at the five multi-program national laboratories (project MEL-001).

FUSION ENERGY SCIENCES

The Committee recommendation for fusion energy sciences is \$248,495,000, \$6,505,000 less than the fiscal year 2001 funding level but the same as the amended budget request. The Committee concurs with the National Energy Policy's assessment of the potential for fusion energy, but funding constraints prevent additional research funding at this time. The Committee has also provided \$25,000,000 in the inertial confinement fusion program for high average power lasers which is complementary to the work performed in fusion energy sciences.

FACILITIES AND INFRASTRUCTURE

The Committee has provided \$10,000,000 for a new Facilities and Infrastructure program to improve the facilities and infrastructure at the Department's science laboratories. The Administration's budget proposal included no funding for this program. These funds should be used to reduce the backlog of maintenance and infrastructure upgrades and dispose of excess facilities.

The Committee is aware of the need for funding a facilities and infrastructure program, but is concerned the Department does not have in place a facilities management structure to ensure the funds are used to address those items which will have the greatest impact on reducing long-term costs and risk. The Department is to provide a semi-annual report to the Committee on the status of the facilities and infrastructure program. The report should include the current priority list of proposed facilities and infrastructure projects including cost and schedule requirements. For each site, the report is to include: a current ten-year site plan that demonstrates the reconfiguration of its facilities and infrastructure to meet its missions and to address its long-term operational costs and return on investment; the current budget for all facilities and infrastructure funding in this program as well as all funding for maintenance and infrastructure upgrades funded through other parts of the budget; and the current status of each facilities and infrastructure project compared to the original baseline cost, schedule, and scope.

The Committee directs that at least 25 percent of the facilities and infrastructure funding be used to dispose of excess facilities that will provide the greatest impact on reducing long-term costs and risk. New and innovative decontamination and decommissioning (D&D) practices must be implemented to reduce costs and expedite site cleanups. There are clearly savings to be realized throughout the complex as evidenced by a recent contractor innovation at the Rocky Flats site that reduced the cost of D&D for a building from an estimated \$3,500,000 using existing DOE practices and procedures to approximately \$700,000 using commercial practices. Potential cost savings of this magnitude have also been identified at other sites through the use of standard commercial practices for D&D.

SAFEGUARDS AND SECURITY

Beginning in fiscal year 2001, the cost of safeguards and security activities at the multi-program and single-purpose science laboratories are now direct funded in the Science appropriation. The Committee recommends \$55,412,000, the same as the budget request and \$5,594,000 more than fiscal year 2001.

PROGRAM DIRECTION

The Committee recommendation is \$134,980,000, a reduction of \$4,265,000 from fiscal year 2001 and \$7,405,000 less than the amended budget request. The control level for fiscal year 2002 is at the program account level of program direction.

DEPARTMENT OF ENERGY (IN THOUSANDS OF DOLLARS)

	FY 2001 ENACTED	BUDGET ESTIMATE	HOUSE ALLOWANCE
URANIUM FACILITIES MAINTENANCE AND REMEDIATION			
Uranium Enrichment Decontamination and Decommissioning Fund			
Decontamination and decommissioning.....	273,038	241,641	271,641
Uranium/thorium reimbursement.....	72,000	1,000	1,000
Depleted UF6 conversion project.....	---	10,000	---
Total, Uranium enrichment D&D fund.....	345,038	252,641	272,641
Other Uranium Activities			
Maintenance of facilities and inventories.....	29,193	99,000	99,000
Pre-existing liabilities.....	11,330	11,784	11,784
Depleted UF6 conversion project.....	21,877	---	10,000
Total, Other uranium activities.....	62,400	110,784	120,784
Reduction for safeguards and security.....	-14,071	---	---
Across-the-board cut (.22%) (P.L. 106-554).....	-865	---	---
TOTAL, URANIUM FACILITIES MAINTENANCE AND REMEDATION.....	392,502	363,425	393,425
SCIENCE			
High energy physics			
Research and technology.....	234,720	247,870	247,870
Facility operations.....			
Construction			
00-G-307 SLAC office building.....	5,200	---	---
99-G-306 Wilson hall safety improvements, Fermilab.....	4,200	---	---
98-G-304 Neutrinos at the main injector, Fermilab.....	23,000	11,400	11,400
Subtotal, Construction.....	32,400	11,400	11,400
Subtotal, Facility operations.....	491,410	468,230	468,230
Total, High energy physics.....	726,130	716,100	716,100
Nuclear physics.....			
	369,890	360,510	361,510
Biological and environmental research.....			
Construction			
01-E-300 Laboratory for Comparative and Functional Genomics, ORNL.....	2,500	10,000	11,405
Total, Biological and environmental research.....	501,260	442,970	445,880
Basic energy sciences			
Materials sciences.....	456,111	434,353	437,353
Chemical sciences.....	223,229	218,714	218,714
Engineering and geosciences.....	40,816	38,938	38,938
Energy biosciences.....	33,714	32,400	32,400
Construction			
02-SC-002 Project engineering and design (VL).....	---	4,000	3,000
99-E-334 Spallation neutron source (ORNL).....	259,500	276,300	276,300
Subtotal, Construction.....	259,500	280,300	279,300
Total, Basic energy sciences.....	1,013,370	1,004,705	1,006,705
Advanced scientific computing research.....	170,000	163,050	163,050
Energy research analyses.....	1,000	1,000	1,000
Multiprogram energy labs - facility support			
Infrastructure support.....	1,160	1,020	1,020

DEPARTMENT OF ENERGY (IN THOUSANDS OF DOLLARS)

	FY 2001 ENACTED	BUDGET ESTIMATE	HOUSE ALLOWANCE
Oak Ridge landlord.....	10,711	7,359	7,359
Construction			
MEL-001 Multiprogram energy laboratory infrastructure projects, various locations.....	22,059	18,613	18,613
02-SC-001 Multiprogram energy laboratories, project engineering design, various locations.....	---	3,183	3,183
Subtotal, Construction.....	22,059	21,796	21,796
Total, Multiprogram energy labs - fac. support....	33,930	30,175	30,175
Fusion energy sciences program.....	255,000	248,495	248,495
Facilities and infrastructure.....	---	---	10,000
Safeguards and security.....	49,818	55,412	55,412
Program direction			
Field offices.....	83,307	64,400	60,700
Headquarters.....	51,438	73,525	69,820
Science education.....	4,500	4,460	4,460
Total, Program direction.....	139,245	142,385	134,980
Subtotal, Science.....	3,259,643	3,164,802	3,173,307
Across-the-board cut (.22%) (P.L. 106-554).....	-7,011	---	---
General reduction.....	-34,047	---	-2,000
Reduction for safeguards and security.....	-38,244	---	---
Less security charge for reimbursable work.....	---	-4,912	-4,912
TOTAL, SCIENCE.....	3,180,341	3,159,890	3,166,395
NUCLEAR WASTE DISPOSAL			
Repository program.....	135,200	70,577	69,540
Program direction.....	62,800	64,402	63,460
Across-the-board cut (.22%) (P.L. 106-554).....	-420	---	---
Reduction for safeguards and security.....	-6,926	---	---
TOTAL, NUCLEAR WASTE DISPOSAL.....	190,654	134,979	133,000
DEPARTMENTAL ADMINISTRATION			
Administrative operations			
Salaries and expenses			
Office of the Secretary.....	5,000	4,700	4,700
Board of contract appeals.....	878	911	911
Chief financial officer.....	32,148	36,464	29,000
Contract reform and privatization.....	2,500	---	---
Engineering and project management.....	---	---	7,600
Congressional and intergovernmental affairs.....	5,000	5,478	5,000
Economic impact and diversity.....	5,126	5,230	5,126
General counsel.....	22,724	23,058	22,724
International affairs.....	8,500	8,481	8,481
Management and administration.....	77,800	76,392	71,500
Policy office.....	6,600	6,649	6,600
Public affairs.....	3,900	4,581	3,900
Subtotal, Salaries and expenses.....	170,176	171,944	165,542
Program support			
Minority economic impact.....	1,500	1,498	1,200
Policy analysis and system studies.....	422	420	400
Environmental policy studies.....	1,000	919	600
Corporate management information program.....	12,000	---	---
Subtotal, Program support.....	14,922	2,837	2,200
Total, Administrative operations.....	185,098	174,781	167,742