

erated cleanup for the Paducah site, the conference agreement restores the \$26,122,000 reduction proposed by the House. The conference agreement also includes a reduction of \$3,640,000 for Oak Ridge cleanup activities as requested by the Department.

The conferees provide \$51,000,000 for uranium and thorium reimbursements, the same as the requested amount.

#### SCIENCE

The conference agreement provides \$3,451,700,000 instead of \$3,480,180,000 as proposed by the House and \$3,360,435,000 as proposed by the Senate. The conference agreement does not include language specifying funding allocations as contained in the House and Senate reports. The conferees encourage the Department to request sufficient funds for the Office of Science in fiscal year 2005 to increase operating time, enhance user support, and upgrade essential equipment at the Department's Science user facilities.

The conferees reiterate their support for broader participation by universities in DOE's research programs, including existing user facilities and potential new user facilities. The conferees are aware of the Office of Science's strategy for future facilities. Where existing facilities provide capabilities critical to a new user facility, collocation is appropriate; where this is not the case, the location of new user facilities should be openly competed. Regardless of location, broad participation in design by staff from national laboratories, user faculty from universities, and industrial investigators and groups should be sought. All these user groups must have access to these capabilities on a competitive basis.

*High energy physics.*—The conference agreement provides \$725,478,000 for high energy physics research, the same as the budget request. The conference agreement also includes the requested amount, \$12,500,000, for construction of the Neutrinos at the Main Injector project at Fermilab. The conferees recognize the efforts by Fermilab, the Office of Science, and the other Science laboratories on the challenges posed by the Tevatron luminosity upgrade. The conferees encourage the Department to accelerate progress on the Supernova/Accelerator Probe (SNAP).

*Nuclear physics.*—The conference agreement provides \$391,930,000 for nuclear physics, \$2,500,000 over the budget request. The additional funds are provided for research and development and preconceptual design activities in support of the Rare Isotope Accelerator. The conferees encourage the Department to increase operational time for the Continuous Electron Beam Accelerator Facility at the Thomas Jefferson National Accelerator Facility and to move forward expeditiously with the 12GeV upgrade for this facility.

*Biological and environmental research.*—The conference agreement includes \$592,000,000 for biological and environmental research, an increase of \$92,465,000 over the budget request. The conference agreement provides an additional \$5,000,000 for the Genomes to Life program, an additional \$2,000,000 for the Environmental Molecular Sciences Laboratory, and \$5,000,000 to develop new molecular imaging probes. The conference agreement provides the requested amounts of \$7,776,000 for the Savannah

River Ecology Laboratory and \$17,496,000 for low dose radiation research.

The conference agreement provides \$250,000 for surgical robotics research at the Keck Cancer Center with the Cleveland Clinic; \$250,000 for the Genomics Laboratory at SUNY-Oneonta; \$750,000 for the San Antonio Cancer Therapy and Research Center; \$250,000 for the University of South Alabama Cancer Center; \$250,000 for the University of South Carolina study of groundwater contamination; \$750,000 for the Jacksonville University Environmental Science Center; \$750,000 for the St. Joseph Hospital technology upgrade in California; \$250,000 for green power technology development at Grand Valley State University; \$750,000 to upgrade the Drew University Hall of Science in New Jersey; \$750,000 to upgrade the Pahrump Medical Center; \$750,000 to upgrade the Grover C. Dils Medical Center; \$7,500,000 for the Judson College library, academic and service center; \$500,000 for the T3 MRI for St. Jude's Children Research Hospital in Tennessee; \$250,000 for Ohio State University for environmental research in cooperation with Earth University; \$5,000,000 for the Community Improvement Corporation of Springfield-Clark County for a computing and data management center; \$750,000 for the Mercer University Critical Personnel Development Program; \$750,000 for the Michigan Research Institute life sciences research; \$750,000 for the University of Arizona Institute for Biomedical Science and Biotechnology; \$250,000 for the St. Francis Medical Center Rapid Treatment Unit in Illinois; \$300,000 for the Boulder City Hospital Emergency Room Expansion; \$750,000 for the National Childhood Cancer Foundation; \$750,000 for functional genomics research by the University of Kentucky and the University of Alabama; \$750,000 for the Rensselaer Polytech Center for Quantitative Bioscience; \$750,000 for the Western Carolinas Biotechnology Initiative; \$750,000 for the Vanguard University Science Center; \$750,000 for the Syracuse University Environmental Systems Center; \$750,000 for the University of Tennessee Climate Change Research Initiative; and \$300,000 for the Eckerd College Science Center.

The conference agreement includes \$500,000 for the Biomedical Engineering Laboratory at the Center for Biomedical Engineering in Louisiana; \$150,000 for the Derby Center for Science and Mathematics at Lyon College; \$500,000 for the Experimental Medicine Program at the Dana Farber Cancer Institute; \$500,000 for the Clafin University Science Center; \$500,000 for the Life Sciences Facility, Tennessee State University; \$1,000,000 for the Rush-Presbyterian-St. Luke's Medical Center; \$1,000,000 for the Carnegie Mellon University Green Chemistry Project; \$500,000 for the College of Mount St. Vincent Science Hall; \$500,000 for the Urban Education Research Center in Pennsylvania; \$500,000 for genomics research at Indiana University; \$1,000,000 for the Illinois Museum of Science and Industry; \$1,000,000 for the Georgia State University Science Research & Teaching Lab; \$1,000,000 for the Northwestern University Institute of Bioengineering and Nanoscience in Medicine; \$500,000 for the Nuclear Resonance Mass Spectrometer at the University of Massachusetts Medical School; \$500,000 for St. Joseph Hospital in Arizona; \$500,000 for Comparative Functional Genomics at New York University; \$1,000,000 for

Augsburg College; \$1,000,000 for the Bronx Community Center for Sustainable Energy; \$1,000,000 for the Carolinas Medical Center; \$1,000,000 for the Michigan Technology Center for Nanostructure and Light Weight Materials; \$500,000 for the Tri-State University Technology Center; \$2,000,000 for the Notre Dame Multi-Discipline Engineering Center; and \$1,000,000 for the University of Southern California Center for Excellence in Neurogenetics.

The conference agreement includes \$10,000,000 for the Mental Illness and Neuroscience Discovery Institute; \$2,000,000 for the University of New Mexico medical building; \$2,500,000 for the University of Northern Iowa building design and engineering; \$500,000 for the University of Dubuque Environmental Science Center; \$750,000 for the University of Missouri Cancer Center; \$1,000,000 for the Earth University Foundation in Georgia; \$750,000 for material research for energy security in Idaho; \$750,000 for advanced bioreactor technology development in Montana; \$1,000,000 for the CHP project at Mississippi State University; \$1,000,000 for the University of Alabama-Huntsville Climate Action Project; \$500,000 for the Hackensack medical building in New Jersey; \$750,000 for the Middletown Regional Hospital in Ohio; \$1,000,000 for Clean Energy Research at the University of Delaware; and \$500,000 for the Center for Advanced Research in Texas.

The conference agreement includes \$750,000 for the Swedish American Regional Cancer Center; \$250,000 for the Cancer Center at Edward Hospital; \$500,000 for the Morgan State University Center for Environmental Toxicology; \$1,000,000 for Digitalization of the Cardiac Cath Lab at the University Medical Center of Southern Nevada; \$1,000,000 for Mega Voltage Cargo Imaging Development Applications for the Nevada Test Site; \$1,000,000 for the Nevada Cancer Institute; \$1,500,000 for a Structural Biology Research Center at the Hauptman-Woodward Medical Research Institute; \$2,000,000 for the University of Buffalo Center of Excellence in Bioinformatics; \$1,000,000 for the Huntsman Cancer Institute; \$250,000 for the St. Francis Hospital Emergency Services Department; \$300,000 for the Christiana Comprehensive Cancer Initiative; \$500,000 for the University of Massachusetts at Boston Multidisciplinary Research Facility and Library; \$400,000 for the Robert Wood Johnson University Hospital; \$100,000 for the Hackensack University Medical Center; \$1,000,000 for the Coastal Research Center at the Medical University of South Carolina; \$500,000 for the Mary Bird Perkins Cancer Center; \$750,000 for the Tahoe Center for Environmental Sciences; \$500,000 for Adventist Health Care; \$1,000,000 for the Environmental Control and Life Support Project; \$1,000,000 for the Southern California Water Education Center; \$1,000,000 for the University of Nevada-Reno to conduct nuclear waste repository research in the areas of materials evaluation, fundamental studies on degradation mechanisms, alternate materials and design, and computational and analytical modeling; \$1,000,000 for the Research Foundation at the University of Nevada-Las Vegas to conduct safety and risk analyses, simulation and modeling, systems planning, and operations and management to support radioactive and hazardous materials transportation; \$1,000,000 for the Research Foundation at the University of Nevada-Las Vegas to assess earthquake hazards and seismic risk in

Southern Nevada; \$1,000,000 for the University of Nevada-Reno to expand the earthquake engineering and simulation facility; and \$100,000 for the Space Grant Consortium at the Desert Research Institute.

*Basic energy sciences.*—The conference agreement includes \$1,016,575,000 for basic energy sciences, an increase of \$8,000,000 over the budget request. The conference agreement includes \$575,711,000 for materials sciences and engineering research, and \$220,914,000 for chemical sciences, geosciences, and energy biosciences. The additional \$8,000,000 for materials sciences and engineering research is to support additional nanoscience research at existing user facilities and the new nanoscale science research centers. For purposes of reprogramming in fiscal year 2004, the Department may reallocate funding among all operating accounts within Basic Energy Sciences.

The conference agreement provides the requested amounts of \$124,600,000 for construction of the Spallation Neutron Source (99-E-334); \$35,000,000 for the Molecular Foundry (94-R-313); \$29,850,000 for the Center for Integrated Nanotechnologies (04-R-313); \$20,000,000 for the Center for Nanophase Materials Sciences (03-R-312); \$7,500,000 for project engineering and design (PED) for the Linac Coherent Light Source (03-SC-002); and \$3,000,000 for the Center for Functional Nanomaterials (02-SC-002). The conference agreement also provides the request of \$7,673,000 for the Experimental Program to Stimulate Competitive Research (EPSCoR).

*Advanced scientific computing research.*—The conference agreement includes \$203,490,000 for advanced scientific computing research (ASCR), an increase of \$30,000,000 over the budget request. The conferees provide these additional funds for the Department to acquire additional advanced computing capability to support existing users in the near term and to initiate longer-term research and development on next generation computer architectures. The conferees expect that, to the maximum extent practicable, these funds will be awarded among various technologies, laboratories, universities, and private sector suppliers using a merit-based, competitive process. The conferees support the High End Computing Revitalization Task Force established by the Office of Science and Technology Policy, and expect the Department to participate fully in this inter-agency effort.

*Science laboratories infrastructure.*—The conference agreement provides \$54,590,000 for science laboratories infrastructure, including an additional \$10,000,000 to correct safety deficiencies at Science laboratories for the purpose described in the House report, and \$1,000,000 additional for excess facilities disposal for the 88-inch cyclotron at Lawrence Berkeley National Laboratory. From within available funds, the conferees expect the Department to provide not less than \$15,600,000 to meet infrastructure needs at Oak Ridge National Laboratory.

The conferees support the ongoing effort to determine realistic costs for the transition to external regulation, and adopt the House-recommended date of May 31, 2004, for completion of the safety compliance audits and associated costs estimates for the ten Science laboratories. The conferees also support the House direc-

tion to the Department to begin budgeting for the necessary corrective actions beginning in fiscal year 2005.

The conference agreement provides the requested amounts of \$1,520,000 for infrastructure support, \$5,079,000 for Oak Ridge landlord costs, \$29,936,000 for construction of various infrastructure projects (MEL-001), and \$2,000,000 for project MEL-001-36 at the Stanford Linear Accelerator Center under Science Laboratories Infrastructure Project Engineering Design (04-SC-001).

*Fusion energy sciences.*—The conference agreement includes \$264,110,000 for fusion energy sciences, an increase of \$6,800,000 over the budget request. The budget request proposed \$12,000,000 for the International Thermonuclear Experimental Reactor (ITER), but did so by displacing \$10,800,000 of ongoing domestic fusion research. The conference agreement provides \$8,000,000 for ITER activities in fiscal year 2004, and restores \$6,800,000 to domestic fusion research. The conferees strongly caution the Department against submitting any future budget requests for ITER that are funded at the expense of domestic research.

*Safeguards and security.*—The conference agreement includes \$51,887,000 for safeguards and security activities at laboratories and facilities managed by the Office of Science. The additional \$3,760,000 over the budget request represents the costs for safeguards and security support contracts that were transferred out of Science Program Direction into this subaccount.

*Science workforce development.*—The conference agreement provides the requested amount of \$6,470,000 for science workforce development. The conferees advise the Department to apply the Laboratory Science Teacher Professional Development initiative to all five multiprogram Science laboratories rather than just to one laboratory. The conferees also encourage the Department to provide funds and technical expertise for high school students to participate in the 2004 For Inspiration and Recognition of Science and Technology (FIRST) Robotics competition. FIRST has proven to be a valuable program to introduce and mentor students in math and science.

*Science program direction.*—The conference agreement includes \$147,053,000 for science program direction. This amount includes \$80,102,000 for field offices, \$58,217,000 for headquarters, \$7,714,000 for the Technical Information Management program, and \$1,020,000 for Energy Research Analyses. The control level for fiscal year 2004 is at the program account level of Science Program Direction.

*Funding adjustments.*—The conference agreement includes an offset of \$4,383,000 for the safeguards and security charge for reimbursable work, as proposed in the budget request. The conference agreement also includes the use of \$10,000,000 of prior year balances.

#### NUCLEAR WASTE DISPOSAL

The conference agreement provides \$190,000,000 for Nuclear Waste Disposal, instead of \$335,000,000 as proposed by the House and \$140,000,000 as proposed by the Senate. When combined with the \$390,000,000 appropriated from the Defense Nuclear Waste

DEPARTMENT OF ENERGY  
(Amounts in thousands)

	Budget Request	Conference
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NON-DEFENSE SITE ACCELERATION COMPLETION		
Accelerated completions, 2006.....	48,677	48,677
Accelerated completions, 2012.....	119,750	119,750
Accelerated completions, 2035.....	2,448	4,948
Subtotal, Non-defense Site Acceleration Completion	170,875	173,375
	=====	=====
Use of prior year balances.....	---	-10,000
	=====	=====
TOTAL, NON-DEFENSE SITE ACCELERATION COMPLETION...	170,875	163,375
	=====	=====
URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING FUND		
Decontamination and decommissioning.....	367,124	365,484
Uranium/thorium reimbursement.....	51,000	51,000
	=====	=====
TOTAL, URANIUM ENRICHMENT D&D FUND.....	418,124	416,484
	=====	=====
NON-DEFENSE ENVIRONMENTAL SERVICES		
Community and regulatory support.....	1,034	1,034
Environmental cleanup projects.....	43,842	43,842
Office of Legacy Management (non-defense).....	---	28,347
Non-closure environmental activities.....	160,445	177,445
Construction		
02-U-101 Depleted uranium hexafluoride conversion project, Paducah, KY and Portsmouth, OH.....	86,800	98,800
Total, Non-closure environmental activities.....	247,245	276,245
	-----	-----
Subtotal, Non-defense Environmental Services.....	292,121	349,468
	=====	=====
Use of prior year balances.....	---	-10,000
	=====	=====
TOTAL, NON-DEFENSE ENVIRONMENTAL SERVICES.....	292,121	339,468
	=====	=====
SCIENCE		
High energy physics		
Proton accelerator-based physics.....	399,494	399,494
Electron accelerator-based physics.....	159,486	159,486
Non-accelerator physics.....	43,000	43,000
Theoretical physics.....	42,256	42,256
Advanced technology R&D.....	81,242	81,242
Subtotal,.....	725,478	725,478
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Construction		
98-G-304 Neutrinos at the main injector, Fermilab.....	12,500	12,500
Total, High energy physics.....	737,978	737,978
	-----	-----
Nuclear physics.....	389,430	391,930
Biological and environmental research.....	499,535	592,000

DEPARTMENT OF ENERGY  
 (Amounts in thousands)

	Budget Request	Conference
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Basic energy sciences		
Research		
Materials sciences and engineering research.....	567,711	575,711
Chemical sciences, geosciences and energy biosciences.....	220,914	220,914
Subtotal, Research.....	788,625	796,625
Construction		
04-R-313-Nanoscale science research center, the molecular foundry.....	35,000	35,000
04-R-313 Nanoscale science research center, the center for integrated nontechnologies, SNL/LASL...	29,850	29,850
03-SC-002 Project engineering & design (PED) SLAC.	7,500	7,500
03-R-312 Center for nanophase materials sciences, ORNL.....	20,000	20,000
02-SC-002 Project engineering and design (VL)....	3,000	3,000
99-E-334 Spallation neutron source (ORNL).....	124,600	124,600
Subtotal, Construction.....	219,950	219,950
Total, Basic energy sciences.....	1,008,575	1,016,575
Advanced scientific computing research.....	173,490	203,490
Science laboratories infrastructure		
Infrastructure support.....	1,520	1,520
Oak Ridge landlord.....	5,079	5,079
Excess facilities disposal.....	5,055	6,055
Safety-related corrective actions.....	---	10,000
Construction		
04-SC-001 Project engineering and design (PED), various locations.....	2,000	2,000
MEL-001 Multiprogram energy laboratory infrastructure projects, various locations.....	29,936	29,936
Subtotal, Construction.....	31,936	31,936
Total, Science laboratories infrastructure.....	43,590	54,590
Fusion energy sciences.....	257,310	264,110
Safeguards and security.....	48,127	51,887
Science workforce development.....	6,470	6,470
Science program direction		
Field offices.....	83,802	80,102
Headquarters.....	58,217	58,217
Technical information management program.....	7,774	7,714
Energy research analyses.....	1,020	1,020
Total, Science program direction.....	150,813	147,053
Subtotal, Science.....	3,315,318	3,466,083
	=====	=====

DEPARTMENT OF ENERGY  
(Amounts in thousands)

	Budget Request	Conference
General reduction/use of prior year balances.....	---	-10,000
Less security charge for reimbursable work.....	-4,383	-4,383
	=====	=====
TOTAL, SCIENCE.....	3,310,935	3,451,700
	=====	=====
NUCLEAR WASTE DISPOSAL		
Repository program.....	85,830	109,830
Program direction.....	75,170	80,170
	=====	=====
TOTAL, NUCLEAR WASTE DISPOSAL.....	161,000	190,000
	=====	=====
DEPARTMENTAL ADMINISTRATION		
Administrative operations		
Salaries and expenses		
Office of the Secretary.....	4,624	4,251
Board of contract appeals.....	653	653
Chief information officer.....	42,214	35,000
Congressional and intergovernmental affairs.....	4,724	4,449
Economic impact and diversity.....	4,701	4,701
General counsel.....	22,879	20,000
Office of Management, Budget and Evaluation.....	104,210	104,210
Policy and international affairs.....	17,777	13,822
Public affairs.....	4,465	3,854
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Subtotal, Salaries and expenses.....	206,247	190,940
Program support		
Minority economic impact.....	1,400	1,192
Policy analysis and system studies.....	1,000	397
Energy security and assurance.....	2,000	---
Environmental policy studies.....	1,500	569
Cybersecurity and secure communications.....	26,432	26,432
Corporate management information program.....	37,632	24,000
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Subtotal, Program support.....	69,964	52,590
	-----	-----
Total, Administrative operations.....	276,211	243,530
Cost of work for others.....	75,095	69,682
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Subtotal, Departmental Administration.....	351,306	313,212
	=====	=====
Use of prior year balances and other adjustments.....	---	-10,000
Funding from other defense activities.....	-25,000	-86,679
	-----	-----
Total, Departmental administration (gross).....	326,306	216,533
	=====	=====
Miscellaneous revenues.....	-146,668	-123,000
	=====	=====
TOTAL, DEPARTMENTAL ADMINISTRATION (net).....	179,638	93,533
	=====	=====
OFFICE OF INSPECTOR GENERAL		
Office of Inspector General.....	39,462	39,462
	=====	=====
TOTAL, OFFICE OF INSPECTOR GENERAL.....	39,462	39,462