

Excessive carryover balances.—The conferees strongly endorse the concerns expressed in the House report and direct that the Department allocate the prior year balance adjustment to programs with consideration given to which programs have available carryover funds. The conferees direct that the Department allocate new budget authority for solar and renewable programs after making an adjustment which reflects a careful analysis of each program's share of carryover balances.

Executive Order 12902.—The conference agreement includes the Senate recommendation that the assessment and report be done by the Office of Management and Budget (OMB).

NUCLEAR ENERGY

University reactor fuel assistance and support.—The recommendation is \$7,000,000, a \$3,000,000 increase over the current fiscal year. The Department is directed to include appropriate laboratories, industry groups and universities in this program. The conference agreement provides \$2,200,000 for the core university reactor peer-reviewed Nuclear Engineering Education Research (NEER) program. None of the funds are to be provided to industry and no less than \$5,000,000 is to be made available to universities participating in this program.

Termination costs.—The conference agreement includes \$77,035,000, including a total of \$33,000,000 for electrometallurgical-related activities. An additional \$12,000,000 is provided for nuclear technology research and development in Other Defense Activities. The conference agreement does not include the Senate recommendation to provide \$3,000,000 for the advanced light water reactor program. The conference agreement includes the Senate reduction to the budget request, \$1,500,000, for management studies and evaluations.

Isotope support.—The conference agreement recommendation for isotope support shall include funds for isotope production and distribution including alpha-emitter production, chemistry research and preclinical studies.

Program direction.—The conference agreement combines the separate program direction lines in the uranium, isotope support and other nuclear energy programs. The amount provided, \$21,000,000, is \$5,110,000 more than the amount provided by the House and \$3,066,000 less than the comparable amount in the budget request.

ENVIRONMENT, SAFETY AND HEALTH

The conference agreement includes \$66,050,000, of which \$23,550,000 is provided for program direction. The conferees have provided a more balanced distribution of the program direction funding by providing an additional \$20,000,000 in the defense environment, safety and health program.

MAGNETIC FUSION ENERGY

The conferees have adopted the Senate title for this program. The conference agreement provides \$232,000,000 which includes

\$2,000,000 for fusion irradiation activities currently funded under the domestic nuclear energy program.

FUNDING ADJUSTMENTS

The conference agreement includes a \$31,535,000 adjustment reflecting availability of prior year balances, an increase of \$13,000,000 to the adjustment recommended by the House. The Department is directed to evaluate availability of prior year balances and allocate this reduction based on that evaluation.

NON-DEFENSE ENVIRONMENTAL MANAGEMENT

The conference agreement appropriates \$497,059,000 instead of \$497,619,000 as proposed by the House and \$664,684,000 as proposed by the Senate. The conferees have agreed to transfer the Formerly Utilized Sites Remedial Action Program (FUSRAP) to the Corps of Engineers, and funding for this program is contained in Title I of the bill.

The conferees direct the Department of Energy to assess the cost of decommissioning the Southwest Experimental Fast Oxide Reactor site in Arkansas and provide a report to the Committees on Appropriations by September 30, 1998. The conferees further acknowledge the purpose of the Integrated Petroleum Environmental Consortium, but do not believe this initiative properly falls within the jurisdiction of the Energy and Water Development Appropriations Subcommittees.

The conference agreement funds the University Research Program in Robotics at a level of \$4,000,000 in the Defense Environmental Restoration and Waste Management appropriation account.

The conferees are aware that Advanced Nuclear & Medical Systems Inc. (ANMS) which had been the principal proponent for delaying the deactivation and decommissioning of the Fast Flux Test Facility (FFTF) at Richland, Washington, has withdrawn its proposal to convert the FFTF for tritium and medical isotope production. On the basis of the original proposal, the Department has delayed until December 1998 a decision to shut down the reactor, increasing the costs to the government of maintaining the reactor in a standby condition. The conferees direct the Department to make a determination on the continued standby status of the FFTF as part of the fiscal year 1999 budget submission.

URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING FUND

The conference agreement appropriates \$220,200,000 as proposed by the House instead of \$230,000,000 as proposed by the Senate. The conference agreement retains bill language proposed by the House providing funds for the uranium and thorium reimbursement program, and increases the funding level of \$40,000,000. The conferees agree with the House proposed reporting requirements.

SCIENCE

The conference agreement includes \$2,235,708,000, \$28,076,000 more than House and \$12,631,000 more than the comparable Senate amount.

High energy physics.—The conference agreement provides \$680,035,000 for high energy physics. This is the amount provided by the House and represents a \$5,000,000 increase over the amount requested by the Administration.

Nuclear physics.—The conference agreement provides \$320,925,000 for nuclear physics. This is the amount provided by the House and represents a \$5,000,000 increase over the amount requested by the Administration.

BIOLOGICAL AND ENVIRONMENTAL RESEARCH

The conferees support the peer-reviewed nuclear medicine research program in biological imaging at the University of California Los Angeles and strongly encourage the Department to fully fund that research in fiscal year 1998.

The Department of Energy will initiate and carry out a rigorous, peer-reviewed research program that will apply the molecular level knowledge gained from the Department's human genome and structural biology research to ascertain the effects on levels ranging from cells to whole organisms that arise from low-dose-rate exposures to energy and defense-related insults (such as radiation and chemicals). By providing a scientific basis for determining the effects of low-dose exposure, this program will lead to reductions in the uncertainties inherent in current calculations and the development of new, more reliable risk management methods. The ultimate goal is adequate, cost effective health protection for workers and the public from radiation, chemicals and waste clean-up that is commensurate with actual risks.

The conferees have included \$3,000,000 for this effort in fiscal year 1998 and direct the Department to develop a multi-year program plan, including budgets, for the subsequent ten years.

The conference agreement includes \$4,000,000 to upgrade a nuclear radiation center to accommodate boron neutron capture therapy (BNCT) research in conjunction with the University of California—Davis. BNCT is the selective irradiation of tissue for treatment of inoperable brain tumors. The conference agreement also includes \$7,500,000 for design, planning and construction of an expansion of the Medical University of South Carolina's cancer research center. This addition will provide research and treatment areas for the utilization of Positron Emission Tomography, using metabolic bio-markers, a ribozyme-based gene therapy. The conferees are aware of the high rate of cancer nationwide, the need to translate basic bio-marker research to direct application, and the need for expansion of this facility. The conferees have provided \$3,000,000 to develop proton scanning technology. This effort utilizes the existing proton therapy capabilities at the Proton Cancer Treatment Center at Loma Linda Medical Center in California in cooperation with the Fermi National Accelerator Laboratory. This effort will expand the use of this superior radiation treatment, enabling more precise, safe, and effective treatment of breast, lung and

other cancers, without disabling side effects. The conference agreement also includes \$3,000,000 for cancer treatment efforts included in the Medical Research Initiative at the University of Rochester Medical Center.

The conference agreement includes \$2,000,000 for Englewood Hospital in New Jersey which employs a condensed diagnosis process in its breast cancer treatment program. The conference agreement also includes \$10,000,000 for the Northeast Regional Cancer Institute for innovative research that supports the Department's exploration of microbial genetics. The Department will benefit from the Institute's unique assets to pursue medical research related to the Human Genome Project. Also, recent breakthrough findings indicate that there is a third form of life, the Archaea, whose unique properties allow them to flourish under extreme conditions. Understanding the genetic basis of these properties promises to lead to diverse applications and public benefit. The Department has played an early and leading role in supporting this research. This new collaboration will expand the Department's exploration of the science and applications of these results for its energy, environmental, and health effects missions. The conference agreement also includes \$2,500,000 for design, planning and construction of a science and engineering center at Highlands University in Las Vegas, New Mexico.

Human Genome Project.—The conference agreement does not include House language opposing the increase proposed in the budget request to evaluate ethical, legal and social implications of genome research.

National Institute for Global and Environmental Change (NIGEC).—The conference agreement includes \$8,200,000, the amount provided in the budget request.

BASIC ENERGY SCIENCES

Experimental Program to Stimulate Competitive Research (EPSCoR).—The conference agreement includes \$7,000,000, the amount provided in the budget request.

OTHER ENERGY RESEARCH

Computational and technology research.—The conference agreement does not include House language regarding the transfer of funds to the fusion program, nor the Senate language regarding computer equipment for the Institute for Computational Chemistry and Molecular Modeling.

University and science education.—The conference agreement does not include the Senate proposal to provide \$10,000,000 for this program.

NUCLEAR WASTE DISPOSAL FUND

The conference agreement appropriates \$160,000,000 as proposed by both the House and the Senate, including \$4,000,000 to be made available to the Nuclear Regulatory Commission for multi-purpose canister licensing, as proposed by the Senate. The agreement includes no funding for the State of Nevada as proposed by the House, instead of \$1,500,000 as proposed by the Senate. The

Department of Energy (in thousands)

	Budget Estimate	Conference
Termination costs.....	76,035	77,035
Uranium programs.....	79,135	61,600
Construction		
98-U-200 depleted UF6 cylinder storage yards, Paducah, KY.....	400	400
96-U-201 depleted UF6 cylinder storage yards, Paducah, KY.....	6,000	2,600
Subtotal, Construction.....	6,400	3,000
Total, Uranium programs.....	85,535	64,600
Isotope support.....	21,704	16,000
Program direction.....	16,700	21,000
TOTAL, NUCLEAR ENERGY.....	311,877	243,060
ENVIRONMENT, SAFETY AND HEALTH		
Environment, safety and health.....	62,731	42,500
Program direction.....	46,185	23,550
TOTAL, ENVIRONMENT, SAFETY AND HEALTH.....	108,916	66,050
ENERGY RESEARCH		
Fusion energy sciences program.....	225,000	232,000
ENERGY SUPPORT ACTIVITIES		
Technical information management program.....	2,427	1,600
Program direction.....	8,560	7,500
Construction.....	1,000	1,000
Total, Technical information management program.....	11,987	10,100
Field offices and management.....	100,233	95,000
TOTAL, ENERGY SUPPORT ACTIVITIES.....	112,220	105,100
Subtotal, Energy supply.....	1,102,713	992,476
Renewable energy research program.....	---	-44,304
Use of prior year balances.....	-18,535	-31,535
General reduction for contractor training.....	---	-9,830
TOTAL, ENERGY SUPPLY 1/.....	1,084,178	906,807
(Energy asset acquisitions).....	(15,322)	---
(Energy supply, research and development).....	(1,068,856)	(906,807)
NON-DEFENSE ENVIRONMENTAL MANAGEMENT		
Environmental restoration.....	457,625	275,000
Waste management.....	153,004	153,004
Construction		
94-E-502 Bethel Valley federal facility agreement upgrades, ORNL.....	1,900	1,900
93-E-900 Long-term storage of TMI-2 fuel, INEL....	397	397
Subtotal, Construction.....	2,297	2,297
Total, Waste management.....	155,301	155,301
Nuclear materials and facilities stabilization.....	71,758	71,758
Subtotal, Non-defense environmental management....	684,684	502,059
General reduction.....	---	-5,000
TOTAL, NON-DEFENSE ENVIRONMENTAL MANAGEMENT.....	684,684	497,059

Department of Energy (in thousands)

	Budget Estimate	Conference
URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING FUND		
Decontamination and Decommissioning Fund.....	248,788	220,200
SCIENCE		
High energy physics		
Research and technology.....	205,240	210,240
Facility operations.....	418,945	418,945
Construction		
98-G-304 Neutrinos at the main injector, Fermilab.....	5,500	5,500
98-G-305 C-Zero area experimental hall, Fermilab.....	5,000	5,000
97-G-303 Master substation upgrade, SLAC.....	9,400	9,400
92-G-302 Fermilab main injector, Fermilab.....	30,950	30,950
Subtotal, Construction.....	50,850	50,850
Subtotal, Facility operations.....	469,795	469,795
Total, High energy physics.....	675,035	680,035
Nuclear physics.....	256,525	261,525
Construction		
91-G-300 Relativistic heavy ion collider, BNL.....	59,400	59,400
Total, Nuclear physics.....	315,925	320,925
Biological and environmental research.....	376,710	406,710
Basic energy sciences		
Materials sciences.....	392,475	392,475
Chemical sciences.....	199,933	199,933
Engineering and geosciences.....	41,371	41,371
Energy biosciences.....	27,461	27,461
Construction		
96-E-300 Combustion research facility, Phase II, SNL/L.....	7,000	7,000
Total, Basic energy sciences.....	668,240	668,240
Other energy research		
Computational and technology research.....	175,907	150,907
Energy research analyses.....	1,500	1,500
Program direction.....	30,600	---
Multiprogram energy labs - facility support		
Multiprogram general purpose facilities		
Construction		
ME-L-001 Multiprogram energy laboratory infrastructure projects, various locations 1/.	7,259	7,259
95-E-301 Central heating plant rehabilitation, Phase I (ANL).....	3,442	3,442
94-E-363 Roofing improvements (ORNL).....	4,000	4,000
Subtotal, Multiprogram gen. purpose facilities	14,701	14,701
Environment, safety and health		
Construction		
96-E-333 Multiprogram energy laboratories upgrades, various locations.....	5,273	5,273
95-E-307 Fire safety imp. III (ANL).....	718	718
95-E-308 Sanitary system mods. II (BNL).....	568	568
Subtotal, Environment, safety and health.....	6,559	6,559
Subtotal, Multiprogram energy labs - fac. suppor	21,260	21,260
Total, Other energy research.....	229,267	173,667

Department of Energy (in thousands)

	Budget Estimate	Conference
Program direction.....	10,200	37,600
Subtotal, Science.....	2,275,377	2,287,177
Use of prior year SSC balances.....	-15,000	-35,000
Use of other prior year balances.....	---	-13,800
General reduction for contractor training.....	---	-2,669
TOTAL, SCIENCE.....	2,260,377	2,235,708
(Science asset acquisitions).....	(138,510)	---
(Science).....	(2,121,867)	(2,235,708)
DEPARTMENTAL ADMINISTRATION		
Administrative operations		
Office of the Secretary - salaries and expenses.....	2,850	2,500
General management - personnel compensation and benefits.....	104,530	101,695
General management - other expenses.....	77,356	73,000
Program support		
Minority economic impact.....	2,320	1,650
Policy analysis and system studies.....	2,096	500
Consumer affairs.....	40	40
Public affairs.....	50	50
Environmental policy studies.....	2,500	1,750
Scientific and technical training.....	800	500
Information management.....	8,000	6,000
Subtotal, Program support.....	15,806	10,490
Total, Administrative operations.....	200,542	187,685
Cost of work for others.....	32,062	32,062
Subtotal, Departmental Administration.....	232,604	219,747
Use of prior year balances and other adjustments.....	---	-1,000
Total, Departmental administration (gross).....	232,604	218,747
Miscellaneous revenues.....	-131,330	-131,330
TOTAL, DEPARTMENTAL ADMINISTRATION (net).....	101,274	87,417
OFFICE OF INSPECTOR GENERAL		
Office of Inspector General.....	29,499	27,500
ATOMIC ENERGY DEFENSE ACTIVITIES		
WEAPONS ACTIVITIES		
Stockpile stewardship		
Core stockpile stewardship.....	1,158,290	1,288,290
Construction		
97-D-102 Dual-axis radiographic hydrotest facility, LANL, Los Alamos, NM.....	46,300	46,300
96-D-102 Stockpile stewardship facilities revitalization, Phase VI, various locations 1/..	51,106	19,810
96-D-103 ATLAS, Los Alamos National Laboratory 1/.....	19,800	13,400
96-D-104 Process and environmental technology Laboratory, SNL 1/.....	29,820	---
96-D-105 Contained firing facility addition, LLNL 1/.....	26,000	19,300
Subtotal, Construction.....	173,026	98,810
Subtotal, Core stockpile stewardship.....	1,331,316	1,387,100
Inertial fusion.....	217,000	217,000
Construction		
96-D-111 National ignition facility, TBD 1/.....	876,400	197,800
Subtotal, Inertial fusion.....	1,093,400	414,800