106TH CONGRESS H. R. 1655

AN ACT

To authorize appropriations for fiscal years 2000 and 2001 for the civilian energy and scientific research, development, and demonstration and related commercial application of energy technology programs, projects, and activities of the Department of Energy, and for other purposes.

106TH CONGRESS 1ST SESSION H.R. 1655

AN ACT

To authorize appropriations for fiscal years 2000 and 2001 for the civilian energy and scientific research, development, and demonstration and related commercial application of energy technology programs, projects, and activities of the Department of Energy, and for other purposes. Be it enacted by the Senate and House of Representa tives of the United States of America in Congress assembled,

3 SECTION 1. SHORT TITLE.

4 This Act may be cited as the "Department of Energy
5 Research, Development, and Demonstration Authorization
6 Act of 1999".

7 SEC. 2. DEFINITIONS.

8 For the purposes of this Act, the term—

9 (1) "Department" means the Department of10 Energy; and

11 (2) "Secretary" means the Secretary of Energy.
12 SEC. 3. AUTHORIZATION OF APPROPRIATIONS.

13 (a) ENERGY SUPPLY.—There are authorized to be

14 appropriated to the Secretary for Energy Supply civilian 15 energy and scientific research, development, and demonstration and related commercial application of energy 16 technology operation and maintenance and construction 17 programs, projects, and activities for which specific sums 18 19 authorized under other authority of law are not 20 \$482,266,000 for fiscal year 2000 and \$504,595,630 for 21 fiscal year 2001, to remain available through the end of 22 fiscal year 2002, of which—

(1) \$366,524,000 for fiscal year 2000 and
\$377,339,630 for fiscal year 2001 shall be for Solar
and Renewable Resources Technologies, including—

1	(A) $$5,500,000$ for fiscal year 2000 and
2	\$5,665,000 for fiscal year 2001 for Solar Build-
3	ing Technology Research;
4	(B) \$93,309,000 for fiscal year 2000 and
5	\$96,108,270 for fiscal year 2001 for Photo-
6	voltaic Energy Systems;
7	(C) \$18,850,000 for fiscal year 2000 and
8	\$19,415,500 for fiscal year 2001 for Concen-
9	trating Solar Power, of which \$2,000,000 for
10	fiscal year 2000 and \$3,000,000 for fiscal year
11	2001 shall be for experimental beamed power
12	technology demonstrations;
13	(D) \$92,391,000 for fiscal year 2000 and
14	\$95,162,730 for fiscal year 2001 for Biopower/
15	Biofuels Energy Systems;
16	(E) \$45,600,000 for fiscal year 2000 and
17	\$46,968,000 for fiscal year 2001 for Wind En-
18	ergy Systems;
19	(F) \$4,000,000 for fiscal year 2000 and
20	\$4,120,000 for fiscal year 2001 for the Renew-
21	able Energy Production Incentive Program;
22	(G) \$6,000,000 for fiscal year 2000 and
23	\$6,000,000 for fiscal year 2001 for the Inter-
24	national Solar Energy Program;

1	(H) \$3,900,000 for fiscal year 2000 and
2	\$4,017,000 for fiscal year 2001 for the Na-
3	tional Renewable Energy Laboratory;
4	(I) $$33,500,000$ for fiscal year 2000 and
5	\$35,000,000 for fiscal year 2001 for Geo-
6	thermal, of which \$4,000,000 for fiscal year
7	2000 and \$4,615,000 for fiscal year 2001 shall
8	be derived from amounts otherwise authorized
9	under this subsection, from savings resulting
10	from reductions in contractor travel pursuant to
11	section $10(d)$;
12	(J) \$7,000,000 for fiscal year 2000 and
13	\$7,210,000 for fiscal year 2001 for Hydro-
14	power;
15	(K) \$41,303,000 for fiscal year 2000 and
16	\$42,542,000 for fiscal year 2001 for Electric
17	Energy Systems and Storage; and
18	(L) $$19,171,000$ for fiscal year 2000 and
19	\$19,746,130 for fiscal year 2001 for Program
20	Direction; and
21	(2) \$115,742,000 for fiscal year 2000 and
22	\$127,256,000 for fiscal year 2001 shall be for Nu-
23	clear Energy, including—

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1	(A) \$37,000,000 for fiscal year 2000 and
2	\$37,000,000 for fiscal year 2001 for Advanced
3	Radioisotope Power Systems;
4	(B) \$6,070,000 for fiscal year 2000 and
5	\$6,070,000 for fiscal year 2001 for Test Reac-
6	tor Area Landlord operation and maintenance;
7	(C) \$1,430,000 for fiscal year 2000 and
8	\$1,944,000 for fiscal year 2001 for construction
9	of Project 99–E–200, Test Reactor Area Elec-
10	tric Utility Upgrade, Idaho National Engineer-
11	ing and Environmental Laboratory;
12	(D) \$1,500,000 for fiscal year 2000 and
13	\$2,500,000 for fiscal year 2001 for construction
14	of Project 95–E–201, Test Reactor Area Fire
15	and Life Safety Improvements, Idaho National
16	Engineering and Environmental Laboratory;
17	(E) \$13,500,000 for fiscal year 2000 and
18	\$16,000,000 for fiscal year 2001 for University
19	Reactor Fuel Assistance and Support;
20	(F) $$5,000,000$ for fiscal year 2000 and
21	\$7,500,000 for fiscal year 2001 for Nuclear
22	Energy Plant Optimization;
23	(G) \$30,000,000 for fiscal year 2000 and
24	\$35,000,000 for fiscal year 2001 for the Nu-
25	clear Energy Research Initiative; and

(H) \$21,242,000 for fiscal year 2000 and
 \$21,242,000 for fiscal year 2001 for Program
 Direction.

4 (b) SCIENCE.—There are authorized to be appro-5 priated to the Secretary for Science scientific and civilian energy research, development, and demonstration oper-6 7 ation and maintenance and construction programs, 8 projects, and activities for which specific sums are not au-9 thorized under other authority of law \$2,657,761,000 for 10 fiscal year 2000 and \$2,691,465,000 for fiscal year 2001, to remain available until expended, of which-11

(1) \$715,090,000 for fiscal year 2000 and
\$753,110,000 for fiscal year 2001 shall be for High
Energy Physics, including—

(A) \$235,190,000 for fiscal year 2000 and
\$246,950,000 for fiscal year 2001 for High Energy Physics Research and Technology;

(B) \$451,200,000 for fiscal year 2000 and
\$473,760,000 for fiscal year 2001 for High Energy Physics Facility Operations;

21 (C) \$2,000,000 for fiscal year 2000 and
22 \$5,200,000 for fiscal year 2001 for construction
23 of Project 00–G–307, Research Office Building,
24 Stanford Linear Accelerator Center;

1	(D) $$4,700,000$ for fiscal year 2000 and
2	\$4,200,000 for fiscal year 2001 for construction
3	of Project 99–G–306, Wilson Hall Safety Im-
4	provements Project, Fermi National Accelerator
5	Laboratory; and
6	(E) $$22,000,000$ for fiscal year 2000 and
7	\$23,000,000 for fiscal year 2001 for construc-
8	tion of Project 98–G–304, Neutrinos at the
9	Main Injector, Fermi National Accelerator Lab-
10	oratory;
11	(2) \$357,714,000 for fiscal year 2000 and
12	\$375,600,000 for fiscal year 2001 shall be for Nu-
13	clear Physics;
14	(3) \$413,674,000 for fiscal year 2000 and
15	\$434,357,000 for fiscal year 2001 shall be for Bio-
16	logical and Environmental Research;
17	(4) \$698,800,000 for fiscal year 2000 and
18	\$733,740,000 for fiscal year 2001 shall be for Basic
19	Energy Sciences, including—
20	(A) \$405,390,000 for fiscal year 2000 and
21	\$425,660,000 for fiscal year 2001 for Materials
22	Sciences Research and Facilities Operations;
23	(B) $$217,179,000$ for fiscal year 2000 and
24	\$228,038,000 for fiscal year 2001 for Chemical
25	Sciences Research and Facilities Operations;

1	(C) \$18,820,000 for fiscal year 2000 and
2	\$19,761,000 for fiscal year 2001 for Engineer-
3	ing Research;
4	(D) \$26,056,000 for fiscal year 2000 and
5	\$27,359,000 for fiscal year 2001 for Geo-
6	sciences Research; and
7	(E) \$31,355,000 for fiscal year 2000 and
8	\$32,923,000 for fiscal year 2001 for Energy
9	Biosciences;
10	(5) \$31,474,000 for fiscal year 2000 and
11	\$32,333,000 for fiscal year 2001 shall be for Com-
12	putational and Technology Research, including—
13	(A) $$17,174,000$ for fiscal year 2000 and
14	\$18,033,000 for fiscal year 2001 for Mathe-
15	matical, Information, and Computational
16	Sciences; and
17	(B) \$14,300,000 for fiscal year 2000 and
18	\$14,300,000 for fiscal year 2001 for Labora-
19	tory Technology Research;
20	(6) \$1,000,000 for fiscal year 2000 and
21	\$1,000,000 for fiscal year 2001 shall be for Energy
22	Research Analysis;
23	(7) \$22,309,000 for fiscal year 2000 and
24	\$23,425,000 for fiscal year 2001 shall be for Multi-
25	program Energy Laboratories—Facility Support;

1	(8) \$250,000,000 for fiscal year 2000 and
2	\$275,000,000 for fiscal year 2001 shall be for Fu-
3	sion Energy Sciences, including \$13,600,000 for fis-
4	cal year 2000 and \$19,400,000 for fiscal year 2001
5	for Tokamak Fusion Test Reactor Decontamination
6	and Decommissioning;
7	(9) \$49,800,000 for fiscal year 2000 and
8	\$49,800,000 for fiscal year 2001 shall be for Science
9	Program Direction;
10	(10) \$17,900,000 for fiscal year 2000 and
11	\$13,100,000 for fiscal year 2001 shall be for Spall-
12	ation Neutron Source research and development;
13	and
14	(11) \$100,000,000 for fiscal year 2000 shall be
15	for construction of Project 99–E–334, Spallation
16	Neutron Source, Oak Ridge National Laboratory,
17	Oak Ridge, Tennessee.
18	(c) Fossil Energy Research and Develop-
19	MENT.—There are authorized to be appropriated to the
20	Secretary for Fossil Energy Research and Development ci-
21	vilian energy and scientific research, development, and
22	demonstration and related commercial application of en-
23	ergy technology operation and maintenance programs,
24	projects, and activities for which specific sums are not au-
25	thorized under other authority of law \$397,564,000 for

1	fiscal year 2000 and \$427,102,000 for fiscal year 2001,
2	to remain available through the end of fiscal year 2002,
3	of which—
4	(1) \$126,609,000 for fiscal year 2000 and
5	\$126,614,000 for fiscal year 2001 shall be for Coal,
6	including-
7	(A) \$5,250,000 for fiscal year 2000 and
8	\$5,407,000 for fiscal year 2001 for Coal Prepa-
9	ration;
10	(B) \$1,641,000 for fiscal year 2000 for
11	Direct Liquefaction;
12	(C) $$6,659,000$ for fiscal year 2000 and
13	\$6,859,000 for fiscal year 2001 for Indirect
14	Liquefaction;
15	(D) \$2,200,000 for fiscal year 2000 and
16	\$2,310,000 for fiscal year 2001 for Advanced
17	Clean Fuels Research Advanced Research and
18	Environmental Technology;
19	(E) \$3,000,000 for fiscal year 2000 for
20	Advanced Pulverized Coal-Fired Powerplant;
21	(F) $$7,010,000$ for fiscal year 2000 and
22	\$7,220,000 for fiscal year 2001 for Indirect
23	Fired Cycle;

1	(G) $$38,661,000$ for fiscal year 2000 and
2	\$39,821,000 for fiscal year 2001 for High-Effi-
3	ciency-Integrated Gasification Combined Cycle;
4	(H) \$15,077,000 for fiscal year 2000 and
5	\$15,529,000 for fiscal year 2001 for High-Effi-
6	ciency Pressurized Fluidized Bed;
7	(I) $$23,864,000$ for fiscal year 2000 and
8	\$25,057,000 for fiscal year 2001 for Advanced
9	Clean/Efficient Power Systems Advanced Re-
10	search and Environmental Technology; and
11	(J) $$23,247,000$ for fiscal year 2000 and
12	\$24,410,000 for fiscal year 2001 for Advanced
13	Research and Technology Development;
14	(2) \$50,574,000 for fiscal year 2000 and
15	\$52,091,000 for fiscal year 2001 shall be for Oil
16	Technology, including—
17	(A) \$31,720,000 for fiscal year 2000 and
18	\$32,671,000 for fiscal year 2001 for Explo-
19	ration and Production Supporting Research;
20	(B) \$8,034,000 for fiscal year 2000 and
21	\$8,275,000 for fiscal year 2001 for Recovery
22	Field Demonstrations; and
23	(C) \$10,820,000 for fiscal year 2000 and
24	\$11,145,000 for fiscal year 2001 for Oil Tech-
25	nology Effective Environmental Protection;

1	(3) \$107,916,000 for fiscal year 2000 and
2	\$108,831,000 for fiscal year 2001 shall be for Gas,
3	including—
4	(A) \$14,932,000 for fiscal year 2000 and
5	\$15,380,000 for fiscal year 2001 for Natural
6	Gas Research Exploration and Production;
7	(B) \$1,030,000 for fiscal year 2000 and
8	\$1,061,000 for fiscal year 2001 for Natural
9	Gas Research Delivery and Storage;
10	(C) \$41,808,000 for fiscal year 2000 and
11	\$41,808,000 for fiscal year 2001 for Natural
12	Gas Research Advanced Turbine Systems;
13	(D) $$9,330,000$ for fiscal year 2000 and
14	\$9,610,000 for fiscal year 2001 for Natural
15	Gas Research Emerging Processing Technology
16	Applications;
17	(E) $$3,108,000$ for fiscal year 2000 and
18	\$3,201,000 for fiscal year 2001 for Natural
19	Gas Effective Environmental Protection;
20	(F) $$1,260,000$ for fiscal year 2000 and
21	\$1,323,000 for fiscal year 2001 for Fuel Cells
22	Advanced Research; and
23	(G) $$36,449,000$ for fiscal year 2000 and
24	\$36,449,000 for fiscal year 2001 for Fuel Cells
25	Systems;

1	(4) \$71,114,000 for fiscal year 2000 and
2	\$72,796,000 for fiscal year 2001 shall be for Pro-
3	gram Direction and Management Support, includ-
4	ing-
5	(A) \$15,049,000 for fiscal year 2000 and
6	\$15,049,000 for fiscal year 2001 for Head-
7	quarters Program Direction; and
8	(B) \$56,065,000 for fiscal year 2000 and
9	\$57,747,000 for fiscal year 2001 for Energy
10	Technology Center Program Direction;
11	(5) \$2,000,000 for fiscal year 2000 and
12	\$2,060,000 for fiscal year 2001 shall be for GP–F–
13	100, Plant and Capital Equipment, at Energy Tech-
14	nology Center sites;
15	(6) \$7,148,000 for fiscal year 2000 and
16	\$7,537,000 for fiscal year 2001 shall be for Cooper-
17	ative Research and Development;
18	(7) \$2,173,000 for fiscal year 2000 and
19	\$2,173,000 for fiscal year 2001 shall be for Fuels
20	Conversion, Natural Gas, and Electricity;
21	(8) \$5,000,000 for fiscal year 2000 and
22	\$5,000,000 for fiscal year 2001 shall be for Ad-
23	vanced Metallurgical Processes; and
24	(9) \$25,000,000 for fiscal year 2000 and
25	\$50,000,000 for fiscal year 2001 shall be for a Fos-

1 sil Energy Science Initiative to be managed by the 2 Assistant Secretary for Fossil Energy in consulta-3 tion with the Director of the Office of Science, for 4 grants to be competitively awarded and subject to 5 peer review for research relating to fossil energy. 6 The Secretary shall submit to the Committee on 7 Science and the Committee on Appropriations of the 8 House of Representatives, and to the Committee on 9 Energy and Natural Resources and the Committee 10 on Appropriations of the Senate, an annual report 11 on the activities of the Fossil Energy Science Initia-12 tive, including a description of the process used to 13 award the funds and an explanation of how the re-14 search relates to fossil energy.

15 (d) ENERGY CONSERVATION RESEARCH AND DEVEL-OPMENT.—There are authorized to be appropriated to the 16 Secretary for Energy Conservation Research and Develop-17 ment civilian energy and scientific research, development, 18 and demonstration and related application of energy tech-19 20nology operation and maintenance programs, projects, and 21 activities for which specific sums are not authorized under 22 other authority of law \$577,915,000 for fiscal year 2000 23 and \$619,502,480 for fiscal year 2001, to remain available 24 through the end of fiscal year 2002, of which—

1	(1) \$246,999,000 for fiscal year 2000 and
2	\$254,409,000 for fiscal year 2001 shall be for the
3	Transportation Sector, including—
4	(A) \$168,080,000 for fiscal year 2000 and
5	\$173,122,400 for fiscal year 2001 for Vehicle
6	Technology Research and Development;
7	(B) \$23,500,000 for fiscal year 2000 and
8	\$24,205,000 for fiscal year 2001 for Fuels Uti-
9	lization Research and Development, of which
10	\$2,500,000 for fiscal year 2000 and \$2,750,000
11	for fiscal year 2001 shall be for biodiesel fuel
12	research and development;
13	(C) \$7,000,000 for fiscal year 2000 and
14	\$7,210,000 for fiscal year 2001 for Technology
15	Deployment;
16	(D) \$38,599,000 for fiscal year 2000 and
17	\$39,757,000 for fiscal year 2001 for Materials
18	Technology; and
19	(E) $$9,820,000$ for fiscal year 2000 and
20	\$10,114,600 for fiscal year 2001 for Manage-
21	ment and Planning;
22	(2) \$171,000,000 for fiscal year 2000 and
23	\$176,130,000 for fiscal year 2001 shall be for the
24	Industry Sector, including—

1	(A) \$74,000,000 for fiscal year 2000 and
2	\$76,220,000 for fiscal year 2001 for Industries
3	of the Future (Specific);
4	(B) \$87,600,000 for fiscal year 2000 and
5	\$90,228,000 for fiscal year 2001 for Industries
6	of the Future (Crosscutting); and
7	(C) \$9,400,000 for fiscal year 2000 and
8	\$9,682,000 for fiscal year 2001 for Manage-
9	ment and Planning;
10	(3) \$92,116,000 for fiscal year 2000 and
11	\$94,879,480 for fiscal year 2001 shall be for the
12	Building Technology, State and Community Sector
13	(nongrants), including—
14	(A) \$62,018,000 for fiscal year 2000 and
15	\$63,878,540 for fiscal year 2001 for Building
16	Research; and
17	(B) \$30,098,000 for fiscal year 2000 and
18	\$31,000,940 for fiscal year 2001 for Building
19	Technology Assistance (nongrants);
20	(4) \$42,800,000 for fiscal year 2000 and
21	\$44,084,000 for fiscal year 2001 shall be for Policy
22	and Management; and
23	(5) \$25,000,000 for fiscal year 2000 and
24	\$50,000,000 for fiscal year 2001 shall be for an En-
25	ergy Efficiency Science Initiative to be managed by

1 the Assistant Secretary for Energy Efficiency and 2 Renewable Energy in consultation with the Director of the Office of Science, for grants to be competi-3 4 tively awarded and subject to peer review for re-5 search relating to energy efficiency. The Secretary 6 shall submit to the Committee on Science and the 7 Committee on Appropriations of the House of Rep-8 resentatives, and to the Committee on Energy and 9 Natural Resources and the Committee on Appropria-10 tions of the Senate, an annual report on the activi-11 ties of the Energy Efficiency Science Initiative, in-12 cluding a description of the process used to award 13 the funds and an explanation of how the research re-14 lates to energy efficiency.

(e) ADDITIONAL AUTHORIZATION.—The Secretary
shall designate \$2,000,000 of the amounts authorized by
this section for each fiscal year for biometric technology
security, including Iris Recognition Technology.

 19
 SEC. 4. GAS HYDRATE ENERGY AND SCIENTIFIC AND ENVI

 20
 RONMENTAL RESEARCH AND DEVELOPMENT

 21
 DDOGD AND

21 **PROGRAM.**

(a) IN GENERAL.—Not later than 180 days after the
date of enactment of this Act, the Secretary, acting
through the Assistant Secretary for Fossil Energy, shall

commence a program of gas hydrate energy and scientific
 and environmental research and development.

3 (b) GRANTS, CONTRACTS, COOPERATIVE AGREE4 MENTS, INTERAGENCY FUNDS TRANSFER AGREEMENTS,
5 AND FIELD WORK PROPOSALS.—

6 (1)ASSISTANCE.—The Secretary, acting 7 through the Assistant Secretary for Fossil Energy, 8 may award grants or contracts to, or enter into co-9 operative agreements with, institutions of higher 10 education and industrial enterprises to conduct en-11 ergy and scientific and environmental research, de-12 velopment, and demonstration programs on gas hy-13 drate.

14 (2)PEER REVIEW.—Funds made available 15 under paragraph (1) for initiating contracts, grants, 16 cooperative agreements, interagency funds transfer 17 agreements, and field work proposals shall be made 18 available based on a competitive selection process 19 and a peer review of proposals. Exceptions shall be 20 considered on a case-by-case basis, and reported by 21 the Secretary, acting through the Assistant Sec-22 retary for Fossil Energy, to the Committee on 23 Science of the House of Representatives and the 24 Committee on Energy and Natural Resources of the 25 Senate 30 days prior to any such award.

1 (c) CONSULTATION.—The Secretary, acting through 2 the Assistant Secretary for Fossil Energy, may establish 3 an advisory panel consisting of experts from industry, in-4 stitutions of higher education, and other entities as the 5 Secretary considers appropriate, to assist in developing 6 recommendations and priorities for the gas hydrate re-7 search and development program carried out under sub-8 section (a).

9 (d) LIMITATIONS.—

10 (1) ADMINISTRATIVE EXPENSES.—Not more 11 than 5 percent of the amount made available to 12 carry out this section for a fiscal year may be used 13 by the Secretary, acting through the Assistant Sec-14 retary for Fossil Energy, for expenses associated 15 with the administration of the program carried out 16 under subsection (a).

(2) CONSTRUCTION COSTS.—None of the funds
made available to carry out this section may be used
for the construction of a new building or the acquisition, expansion, remodeling, or alteration of an existing building (including site grading and improvement and architect fees).

23 (e) DEFINITIONS.—For purposes of this section:

(1) CONTRACT.—The term "contract" means a
 procurement contract within the meaning of section
 6303 of title 31, United States Code.

4 (2) COOPERATIVE AGREEMENT.—The term "co5 operative agreement" means a cooperative agree6 ment within the meaning of section 6305 of title 31,
7 United States Code.

(3) GRANT.—The term "grant" means a grant 8 9 awarded under a grant agreement, within the mean-10 ing of section 6304 of title 31, United States Code. 11 (4) INSTITUTION OF HIGHER EDUCATION.—The 12 term "institution of higher education" means an in-13 stitution of higher education, within the meaning of 14 section 1201(a) of the Higher Education Act of 1965 15 (20 U.S.C. 1141(a)).

(f) AUTHORIZATION OF APPROPRIATIONS.—Of the
amounts authorized under section 3(c)(3), \$5,000,000 for
fiscal year 2000 and \$7,500,000 for fiscal year 2001 shall
be available for carrying out this section.

20 SEC. 5. NOTICE.

(a) REPROGRAMMING.—The Secretary may use for
any authorized activities of the Department under this
Act—

(1) up to the lesser of \$250,000 or 5 percent
of the total funding for a fiscal year of a civilian en-

ergy or scientific research, development, or dem onstration or related commercial application of en ergy technology program, project, or activity of the
 Department; or

(2) after the expiration of 60 days after trans-5 6 mitting to the Committee on Science and the Com-7 mittee on Appropriations of the House of Represent-8 atives, and to the Committee on Energy and Natural 9 Resources and the Committee on Appropriations of 10 the Senate, a report described in subsection (b), up 11 to 25 percent of the total funding for a fiscal year 12 of a civilian energy or scientific research, develop-13 ment, or demonstration or related commercial appli-14 cation of energy technology program, project, or ac-15 tivity of the Department.

(b) REPORT.—(1) The report referred to in subsection (a)(2) is a report containing a full and complete
statement of the action proposed to be taken and the facts
and circumstances relied upon in support of such proposed
action.

(2) In the computation of the 60-day period under
subsection (a)(2), there shall be excluded any day on
which either House of Congress is not in session because
of an adjournment of more than 3 days to a day certain.

(c) LIMITATIONS.—In no event may funds be used
 pursuant to subsection (a) for a program, project, or activ ity for which funding has been requested to the Congress
 but which has not been funded by the Congress.

5 (d) NOTICE OF REORGANIZATION.—The Secretary shall provide notice to the Committee on Science and the 6 7 Committee on Appropriations of the House of Representa-8 tives, and to the Committee on Energy and Natural Re-9 sources and the Committee on Appropriations of the Sen-10 ate, not later than 15 days before any major reorganization of any civilian energy or scientific research, develop-11 12 ment, or demonstration or related commercial application 13 of energy technology program, project, or activity of the Department. 14

15 (e) COPY OF REPORTS.—The Secretary shall provide copies to the Committee on Science and the Committee 16 on Appropriations of the House of Representatives, and 17 to the Committee on Energy and Natural Resources and 18 the Committee on Appropriations of the Senate, of any 19 20 report relating to the civilian energy or scientific research, 21 development, or demonstration or related commercial ap-22 plication of energy technology programs, projects, and ac-23 tivities of the Department prepared at the direction of any 24 committee of Congress.

23

1 SEC. 6. LIMITATION ON DEMONSTRATIONS.

(a) IN GENERAL.—The Department shall provide
funding for civilian energy or scientific or related commercial application of energy technology demonstration programs, projects, and activities only for technologies or
processes that can be reasonably expected to yield new,
measurable benefits to the cost, efficiency, or performance
of the technology or process.

9 (b) PARALLEX PROJECT.—The Secretary shall not, 10 as part of the test and demonstration Parallex Project, 11 select a route for the transportation of Mixed Oxide Fuel 12 from Los Alamos, New Mexico, to Chalk River, Canada, 13 without issuing a rule based on the record after an oppor-14 tunity for agency hearing.

15 SEC. 7. LIMITS ON GENERAL PLANT PROJECTS.

16 If, at any time during the construction of a civilian energy or scientific research, development, or demonstra-17 18 tion or related commercial application of energy tech-19 nology project of the Department for which no specific funding level is provided by law, the estimated cost (in-20 21 cluding any revision thereof) of the project exceeds 22 \$2,000,000, the Secretary may not continue such con-23 struction unless the Secretary has furnished a complete 24 report to the Committee on Science and the Committee on Appropriations of the House of Representatives, and 25 26 to the Committee on Energy and Natural Resources and •HR 1655 EH

the Committee on Appropriations of the Senate, explain ing the project and the reasons for the estimate or revi sion.

4 SEC. 8. LIMITS ON CONSTRUCTION PROJECTS.

5 (a) LIMITATION.—Except as provided in subsection (b), construction on a civilian energy or scientific research, 6 7 development, or demonstration or related commercial ap-8 plication of energy technology project of the Department 9 for which funding has been specifically provided by law 10 may not be started, and additional obligations may not be incurred in connection with the project above the au-11 12 thorized funding amount, whenever the current estimated 13 cost of the construction project exceeds by more than 10 percent the higher of— 14

(1) the amount authorized for the project, if the
entire project has been funded by the Congress; or
(2) the amount of the total estimated cost for
the project as shown in the most recent budget justification data submitted to Congress.

20 (b) NOTICE.—An action described in subsection (a)
21 may be taken if—

(1) the Secretary has submitted to the Committee on Science and the Committee on Appropriations of the House of Representatives, and to the
Committee on Energy and Natural Resources and

the Committee on Appropriations of the Senate, a
 report on the proposed actions and the cir cumstances making such actions necessary; and

4 (2) a period of 30 days has elapsed after the
5 date on which the report is received by the commit6 tees.

7 (c) EXCLUSION.—In the computation of the 30-day
8 period described in subsection (b)(2), there shall be ex9 cluded any day on which either House of Congress is not
10 in session because of an adjournment of more than 3 days
11 to a day certain.

(d) EXCEPTION.—Subsections (a) and (b) shall not
apply to any construction project which has a current estimated cost of less than \$2,000,000.

15 SEC. 9. AUTHORITY FOR CONCEPTUAL AND CONSTRUC16 TION DESIGN.

17 (a) REQUIREMENT FOR CONCEPTUAL DESIGN.—(1) 18 Subject to paragraph (2) and except as provided in para-19 graph (3), before submitting to Congress a request for 20 funds for a construction project that is in support of a 21 civilian energy or scientific research, development, or dem-22 onstration or related commercial application of energy 23 technology program, project, or activity of the Depart-24 ment, the Secretary shall complete a conceptual design for 25 that project.

(2) If the estimated cost of completing a conceptual
 design for a construction project exceeds \$750,000, the
 Secretary shall submit to Congress a request for funds for
 the conceptual design before submitting a request for
 funds for the construction project.

6 (3) The requirement in paragraph (1) does not apply
7 to a request for funds for a construction project, the total
8 estimated cost of which is less than \$2,000,000.

9 (b) AUTHORITY FOR CONSTRUCTION DESIGN.—(1) 10 The Secretary may carry out construction design (including architectural and engineering services) in connection 11 12 with any proposed construction project that is in support 13 of a civilian energy or scientific research, development, and demonstration or related commercial application of 14 15 energy technology program, project, or activity of the Department if the total estimated cost for such design does 16 not exceed \$250,000. 17

(2) If the total estimated cost for construction design
in connection with any construction project described in
paragraph (1) exceeds \$250,000, funds for such design
must be specifically authorized by law.

22 SEC. 10. LIMITS ON USE OF FUNDS.

23 (a) CONSTRUCTION OF SPALLATION NEUTRON
24 SOURCE PROJECT.—None of the funds authorized by sec25 tion 3(b)(11) may be obligated until—

1	(1) the Secretary certifies in writing to the
2	Committee on Science of the House of Representa-
3	tives and the Committee on Energy and Natural Re-
4	sources of the Senate that senior project manage-
5	ment positions for the project have been filled by
6	qualified individuals; and
7	(2) the Secretary provides the Committee on
8	Science and the Committee on Appropriations of the
9	House of Representatives, and the Committee on
10	Energy and Natural Resources and the Committee
11	on Appropriations of the Senate, with—
12	(A) a cost baseline and project milestones
13	for each major construction and technical sys-
14	tem activity, consistent with the overall cost
15	and schedule submitted with the Department's
16	fiscal year 2000 budget, that have been re-
17	viewed and certified by an independent entity,
18	outside the Department and having no financial
19	interest in the project, as the most cost-effective
20	way to complete the project;
21	(B) binding legal agreements that specify
22	the duties and obligations of each laboratory of
23	the Department in carrying out the project;
24	(C) a revised project management struc-
25	ture that integrates the staff of the collabo-

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1	rating laboratories working on the project
2	under a single project director, who shall have
3	direct supervisory responsibility over the car-
4	rying out of the duties and obligations de-
5	scribed in subparagraph (B); and
6	(D) official delegation by the Secretary of
7	primary authority with respect to the project to
8	the project director; and
9	(3) the Comptroller General reports to the Con-
10	gress, on the basis of available information, that the
11	tax reimbursements that the Comptroller General es-
12	timates the Department would pay to its contractors
13	as a cost of constructing the Spallation Neutron
14	Source at Oak Ridge National Laboratory in Ten-
15	nessee would be no more than the tax reimburse-
16	ments it would pay if the same project were con-
17	structed at the Lawrence Berkeley National Labora-
18	tory in California, the Argonne National Laboratory
19	in Illinois, the Los Alamos National Laboratory in
20	New Mexico, or the Brookhaven National Labora-
21	tory in New York.
22	The Secretary shall report on the Spallation Neutron
23	Source Project 99–E–334 annually, as part of the Depart-
24	mant's annual hudget submission including a description

24 ment's annual budget submission, including a description25 of the achievement of milestones, a comparison of actual

costs to estimated costs, and any changes in estimated
 project costs or schedule.

3 (b) INTERNATIONAL THERMONUCLEAR EXPERI-MENTAL REACTOR (ITER) ENGINEERING DESIGN AC-4 TIVITIES (EDA).—None of the funds authorized by this 5 Act may be used either directly or indirectly for United 6 7 States participation in International Thermonuclear Ex-8 perimental Reactor (ITER) Engineering Design Activities 9 (EDA).

10 (c) OFFICE OF SCIENCE.—None of the funds authorized by this Act may be used either directly or indirectly 11 to fund the salary of an individual holding the position 12 13 of Director or Deputy Director of the Office of Science, or Associate Director (except for the Office of Laboratory 14 15 Policy and the Office of Resource Management), or Director, Office of Planning and Analysis within the Depart-16 ment's Office of Science unless such individual holds a 17 postgraduate degree in science or engineering. 18

(d) TRAVEL.—Not more than 1 percent of the funds
authorized by this Act may be used either directly or indirectly to fund travel costs of the Department or travel
costs for persons awarded contracts or subcontracts by the
Department. As part of the Department's annual budget
request submission to the Congress, the Secretary shall
submit a report to the Committee on Science and the

Committee on Appropriations of the House of Representa tives, and to the Committee on Energy and Natural Re sources and the Committee on Appropriations of the Sen ate, that identifies—

- 5 (1) the estimated amount of travel costs by the
 6 Department and for persons awarded contracts or
 7 subcontracts by the Department for the fiscal year
 8 of such budget submission, as well as for the 2 pre9 vious fiscal years;
- 10 (2) the major purposes for such travel; and
- 11 (3) the sources of funds for such travel.

12 (e) TRADE ASSOCIATIONS.—No funds authorized by 13 this Act may be used either directly or indirectly to fund a grant, contract, subcontract, or any other form of finan-14 15 cial assistance awarded by the Department to a trade association on a noncompetitive basis. As part of the Depart-16 17 ment's annual budget request submission to the Congress, 18 the Secretary shall submit a report to the Committee on 19 Science and the Committee on Appropriations of the 20House of Representatives, and to the Committee on En-21 ergy and Natural Resources and the Committee on Appro-22 priations of the Senate, that identifies—

(1) the estimated amount of funds provided bythe Department to trade associations, by trade asso-

1	ciation, for the fiscal year of such budget submis-
2	sion, as well as for the 2 previous fiscal years;
3	(2) the services either provided or to be pro-
4	vided by each such trade association; and
5	(3) the sources of funds for services provided by
6	each such trade association.
7	(f) REDUCTIONS.—Notwithstanding any other provi-
8	sion of this Act—
9	(1) each of the amounts authorized by this Act
10	for fiscal year 2000 shall be reduced by 1 percent;
11	(2) each of the amounts authorized by this Act
12	for fiscal year 2000, as reduced pursuant to para-
13	graph (1), shall be further reduced by .7674 percent,
14	with such reduction representing a reduction in trav-
15	el costs; and
16	(3) each of the amounts authorized by this Act
17	for fiscal year 2000 for administrative expenses, in-
18	cluding program management, shall be further re-
19	duced proportionately to achieve additional savings
20	of \$30,000,000.
21	SEC. 11. MANAGEMENT AND OPERATING CONTRACTS.
22	(a) Competitive Procedure Requirement.—
23	None of the funds authorized to be appropriated by this
24	Act for civilian energy or scientific research, development,
25	and demonstration or related commercial application of

energy technology programs, projects, and activities may 1 2 be used to award a management and operating contract 3 for a federally owned or operated civilian energy labora-4 tory of the Department unless such contract is awarded 5 using competitive procedures or the Secretary grants, on a case-by-case basis, a waiver to allow for such a deviation. 6 7 The Secretary may not delegate the authority to grant 8 such a waiver.

9 (b) CONGRESSIONAL NOTICE.—At least 60 days be-10 fore a contract award, amendment, or modification for which the Secretary intends to grant such a waiver, the 11 Secretary shall submit to the Committee on Science and 12 13 the Committee on Appropriations of the House of Representatives, and to the Committee on Energy and Nat-14 15 ural Resources and the Committee on Appropriations of the Senate, a report notifying the committees of the waiver 16 17 and setting forth the reasons for the waiver.

18 SEC. 12. FEDERAL ACQUISITION REGULATION.

(a) REQUIREMENT.—None of the funds authorized to
be appropriated by this Act for civilian energy or scientific
research, development, and demonstration or related commercial application of energy technology programs,
projects, and activities may be used to award, amend, or
modify a contract of the Department in a manner that
deviates from the Federal Acquisition Regulation, unless

the Secretary grants, on a case-by-case basis, a waiver to
 allow for such a deviation. The Secretary may not delegate
 the authority to grant such a waiver.

4 (b) CONGRESSIONAL NOTICE.—At least 60 days be-5 fore a contract award, amendment, or modification for which the Secretary intends to grant such a waiver, the 6 7 Secretary shall submit to the Committee on Science and 8 the Committee on Appropriations of the House of Rep-9 resentatives, and to the Committee on Energy and Nat-10 ural Resources and the Committee on Appropriations of the Senate, a report notifying the committees of the waiver 11 12 and setting forth the reasons for the waiver.

13 SEC. 13. REQUESTS FOR PROPOSALS.

14 None of the funds authorized to be appropriated by 15 this Act may be used by the Department to prepare or initiate Requests for Proposals (RFPs) for a civilian en-16 17 ergy or scientific research, development, and demonstration or related commercial application of energy tech-18 nology program, project, or activity if the program, 19 20 project, or activity has not been specifically authorized by 21 Congress.

22 SEC. 14. PRODUCTION OR PROVISION OF ARTICLES OR 23 SERVICES.

None of the funds authorized to be appropriated bythis Act may be used by any civilian energy or scientific

research, development, and demonstration or related com-1 2 mercial application of energy technology program, project, 3 or activity of the Department to produce or provide arti-4 cles or services for the purpose of selling the articles or 5 services to a person outside the Federal Government, unless the Secretary determines that comparable articles or 6 services are not available from a commercial source in the 7 8 United States.

9 SEC. 15. ELIGIBILITY FOR AWARDS.

10 (a) IN GENERAL.—The Secretary shall exclude from consideration for grant agreements for civilian energy and 11 12 scientific research, development, and demonstration or re-13 lated commercial application of energy technology programs, projects, and activities made by the Department 14 15 after fiscal year 1999 any person who received funds, other than those described in subsection (b), appropriated 16 for a fiscal year after fiscal year 1999, under a grant 17 18 agreement from any Federal funding source for a pro-19 gram, project, or activity that was not subjected to a competitive, merit-based award process, except as specifically 20 21 authorized by this Act. Any exclusion from consideration 22 pursuant to this section shall be effective for a period of 23 5 years after the person receives such Federal funds.

(b) EXCEPTION.—Subsection (a) shall not apply tothe receipt of Federal funds by a person due to the mem-

bership of that person in a class specified by law for which
 assistance is awarded to members of the class according
 to a formula provided by law or under circumstances per mitting other than full and open competition under the
 Federal Acquisition Regulation.

6 (c) DEFINITION.—For purposes of this section, the term "grant agreement" means a legal instrument whose 7 8 principal purpose is to transfer a thing of value to the 9 recipient to carry out a public purpose of support or stim-10 ulation authorized by a law of the United States, and does not include the acquisition (by purchase, lease, or barter) 11 of property or services for the direct benefit or use of the 12 13 United States Government. Such term does not include a cooperative agreement (as such term is used in section 14 15 6305 of title 31, United States Code) or a cooperative research and development agreement (as such term is de-16 fined in section 12(d)(1) of the Stevenson-Wydler Tech-17 nology Innovation Act of 1980 (15 U.S.C. 3710a(d)(1))). 18

19 SEC. 16. INTERNET AVAILABILITY OF INFORMATION.

The Secretary shall make available through the Internet home page of the Department the abstracts relating to all research grants and awards made with funds authorized by this Act. Nothing in this section shall be construed to require or permit the release of any information prohibited by law or regulation from being released to the public. 1 SEC. 17. FOREIGN VISITORS PROGRAM.

(a) PROHIBITION.—Except as provided in subsection
(b) or (c), the Secretary may not admit to any classified
area of any federally owned or operated nonmilitary energy laboratory any individual who is a citizen of a nation
that is named on the Department of Energy List of Sensitive Countries.

8 (b) WAIVER AUTHORITY.—(1) The Secretary may 9 waive the prohibition in subsection (a) on a case-by-case 10 basis with respect to individuals whose admission to a fed-11 erally owned or operated nonmilitary energy laboratory is determined by the Secretary to be necessary for the fur-12 therance of civilian science interests of the United States. 13 14 (2) Not later than 30 days after granting a waiver under paragraph (1), the Secretary shall transmit to the 15 16 Committee on Science of the House of Representatives and the Committee on Energy and Natural Resources of 17 the Senate a report in writing providing notice of the waiv-18 19 er. The report shall identify each individual for whom a 20 waiver is granted and, with respect to each such individual, provide a detailed justification for the waiver and 21 22 the Secretary's certification that the admission of that in-23 dividual to a federally owned or operated nonmilitary en-24 ergy laboratory is necessary for the furtherance of civilian science interests of the United States. 25

(3) The authority of the Secretary under paragraph
 (1) may not be delegated.

3 (c) APPLICATION.—This section shall not apply to 4 the Ames Laboratory, the Environmental Measurement 5 Laboratory, the Ernest Orlando Lawrence Berkeley National Laboratory, the Federal Energy Technology Center, 6 7 the Fermi National Accelerator Laboratory, the Lawrence 8 Livermore National Laboratory, the Los Alamos National 9 Laboratory, the National Renewable Energy Laboratory, 10 the Princeton Plasma Physics Laboratory, the Radiological and Environmental Sciences Laboratory, the 11 Sandia National Laboratories, the Stanford Linear Accel-12 13 erator Center, the Thomas Jefferson National Accelerator Facility, or the Y–12 Plant. 14

15 SEC. 18. COMPLIANCE WITH BUY AMERICAN ACT.

No funds authorized pursuant to this Act may be expended by an entity unless the entity agrees that in expending the assistance the entity will comply with sections
2 through 4 of the Act of March 3, 1933 (41 U.S.C. 10a–
10c, popularly known as the "Buy American Act").

21 SEC. 19. SENSE OF THE CONGRESS; REQUIREMENT RE22 GARDING NOTICE.

(a) PURCHASE OF AMERICAN-MADE EQUIPMENT
AND PRODUCTS.—In the case of any equipment or products that may be authorized to be purchased with financial

assistance provided under this Act, it is the sense of the
 Congress that entities receiving such assistance should, in
 expending the assistance, purchase only American-made
 equipment and products.

5 (b) NOTICE TO RECIPIENTS OF ASSISTANCE.—In 6 providing financial assistance under this Act, the Sec-7 retary shall provide to each recipient of the assistance a 8 notice describing the statement made in subsection (a) by 9 the Congress.

10 SEC. 20. PROHIBITION OF CONTRACTS.

11 If it has been finally determined by a court or Federal 12 agency that any person intentionally affixed a label bearing a "Made in America" inscription, or any inscription 13 with the same meaning, to any product sold in or shipped 14 15 to the United States that is not made in the United States, such person shall be ineligible to receive any con-16 17 tract or subcontract made with funds provided pursuant to this Act, pursuant to the debarment, suspension, and 18 19 ineligibility procedures described in section 9.400 through 20 9.409 of title 48, Code of Federal Regulations.

21 SEC. 21. NUCLEAR WASTE TRANSMUTATION RESEARCH 22 AND DEVELOPMENT PROGRAM.

(a) IN GENERAL.—Not later than 180 days after the
24 date of enactment of this Act, the Secretary shall com25 mence a program of research and development on the

technology necessary to achieve onsite transmutation of
 nuclear waste into nonradioactive substances.

3 (b) GRANTS, CONTRACTS, COOPERATIVE AGREE4 MENTS, INTERAGENCY FUNDS TRANSFER AGREEMENTS,
5 AND FIELD WORK PROPOSALS.—

6 (1) ASSISTANCE.—The Secretary may award 7 grants or contracts to, or enter into cooperative 8 agreements with, institutions of higher education 9 and industrial enterprises to conduct a research, de-10 velopment, and demonstration program on the tech-11 nology necessary to achieve onsite transmutation of 12 nuclear waste into nonradioactive substances in a 13 manner consistent with United States environmental 14 and nonproliferation policy. The Secretary shall not 15 support a technology under this section that involves 16 the isolation of plutonium or uranium.

17 PEER REVIEW.—Funds made available (2)18 under paragraph (1) for initiating contracts, grants, 19 cooperative agreements, interagency funds transfer 20 agreements, and field work proposals shall be made 21 available based on a competitive selection process 22 and a peer review of proposals. Exceptions shall be 23 considered on a case-by-case basis, and reported by 24 the Secretary to the Committee on Science of the 25 House of Representatives and the Committee on Energy and Natural Resources of the Senate 30 days
 prior to any such award.

3 (c) CONSULTATION.—The Secretary may establish an 4 advisory panel consisting of experts from industry, institu-5 tions of higher education, and other entities as the Sec-6 retary considers appropriate, to assist in developing rec-7 ommendations and priorities for the research, develop-8 ment, and demonstration program carried out under sub-9 section (a).

10 (d) LIMITATIONS.—

11 (1) ADMINISTRATIVE EXPENSES.—Not more 12 than 5 percent of the amount made available to 13 carry out this section for a fiscal year may be used 14 by the Secretary for expenses associated with the ad-15 ministration of the program carried out under sub-16 section (a).

(2) CONSTRUCTION COSTS.—None of the funds
made available to carry out this section may be used
for the construction of a new building or the acquisition, expansion, remodeling, or alteration of an existing building (including site grading and improvement and architect fees).

23 (e) DEFINITIONS.—For purposes of this section:

(1) CONTRACT.—The term "contract" means a
 procurement contract within the meaning of section
 6303 of title 31, United States Code.

4 (2) COOPERATIVE AGREEMENT.—The term "co5 operative agreement" means a cooperative agree6 ment within the meaning of section 6305 of title 31,
7 United States Code.

8 (3) GRANT.—The term "grant" means a grant
9 awarded under a grant agreement, within the mean10 ing of section 6304 of title 31, United States Code.

(4) INSTITUTION OF HIGHER EDUCATION.—The
term "institution of higher education" means an institution of higher education, within the meaning of
section 1201(a) of the Higher Education Act of
1965 (20 U.S.C. 1141(a)).

(f) AUTHORIZATION OF APPROPRIATIONS.—Of the
amounts authorized under section 3(a)(2)(G), \$2,000,000
for fiscal year 2000 and \$4,000,000 for fiscal year 2001
shall be available for carrying out this section.

20 SEC. 22. MINORITY RECRUITMENT AND EMPLOYMENT.

It is the sense of the Congress that the Departmentshould increase its efforts to recruit and employ qualified

1 minorities for carrying out the research and development

 $2 \ \ {\rm functions \ of \ the \ Department.}$

Passed the House of Representatives September 15, 1999.

Attest:

Clerk±.