

pursuant to the provisions of House Resolution 427; and

Ordered further, That the Chairman of the Committee of the Whole may postpone until a time during further consideration in the Committee a request for a recorded vote on any of these amendments to the bill (or any amendments thereto); and the Chairman may reduce to not less than five minutes the time for voting by electronic device on any postponed question that immediately follows another vote by electronic device without intervening business, provided that the time for voting by electronic device on the first of any series of questions shall be not less than fifteen minutes.

64.7 CIVILIAN SCIENCE AUTHORIZATION

The SPEAKER pro tempore, Ms. GREENE, pursuant to House Resolution 427 and rule XXIII, declared the House resolved into the Committee of the Whole on the state of the Union for the consideration of the bill (H.R. 3322) to authorize appropriations for fiscal year 1997 for civilian science activities of the Federal Government, and for other purposes.

The SPEAKER pro tempore, Ms. GREENE, by unanimous consent, designated Mr. BURTON as Chairman of the Committee of the Whole; and after some time spent therein,

64.8 RECORDED VOTE

A recorded vote by electronic device was ordered in the Committee of the Whole on the following amendment submitted by Ms. LOFGREN:

Page 7, line 6, strike "\$120,000,000" and insert in lieu thereof "\$129,100,000".

Page 7, lines 9 through 16, strike subsection (c).

Page 19, lines 13 through 23, amend section 130 to read as follows:

SEC. 130. REORGANIZATION.

(a) PLAN.—The Director shall carry out a review and analysis of the organizational structure of the National Science Foundation for the purpose of developing a plan for reorganization that will result in reduced administrative costs, while maintaining the quality and effectiveness of the Foundation's programs. The plan shall include one or more options for reorganization of the Foundation, and one option shall be an organizational structure having fewer than 7 directorates.

(b) REPORT.—By February 15, 1997, the Director shall transmit to the Congress a report containing the plan required by subsection (a). The report shall document the advantages and disadvantages of each option included in the plan, provide an estimate of cost savings for each option, and designate the Director's preferred option.

Amend the table of contents accordingly.

It was decided in the { Yeas 170 negative } Nays 243

64.9 [Roll No. 196] AYES—170

Table with 3 columns: Name, State, Name, State. Includes Abercrombie, Ackerman, Andrews, Baesler, Baldacci, Barcia, Becerra, Beilenson, Bentsen, Berman, Beville, Bishop, Bonior, Borski, Boucher, Brewster, Browder, Brown (CA), Brown (FL), Brown (OH), Bryant (TX), Cardin, Clay, Clayton, etc.

Table with 2 columns: Name, State. Includes Clement, Clyburn, Coleman, Collins (IL), Collins (MI), Coyne, Cramer, Cummings, Danner, DeFazio, DeLauro, Dellums, Deutsch, Dicks, Dixon, Doggett, Dooley, Doyle, Durbin, Edwards, Engel, Eshoo, Evans, Farr, Fattah, Fazio, Fields (LA), Filner, Flake, Frank (MA), Frost, Furse, Gejdenson, Gephardt, Gibbons, Gonzalez, Gordon, Green (TX), Gutierrez, Hall (OH), Hall (TX), Hamilton, Harman, Hastings (FL), Hefner, Hilliard, Hinchey, Holden, Hoyer, Jackson (IL), Jackson-Lee (TX), Jefferson, Johnson (SD), Johnson, E. B., Johnston, Kanjorski, Kaptur, Kennedy (MA), Kennedy (RI), Kennelly, Kildee, Klink, LaFalce, Levin, Lewis (GA), Lipinski, Lofgren, Luther, Maloney, Mantone, Markey, Martinez, Mascara, Matsui, McDermott, McHale, McKinney, McNulty, Meehan, Meek, Menendez, Millender-McDonald, Miller (CA), Minge, Mink, Moakley, Mollohan, Montgomery, Moran, Murtha, Nadler, Neal, Oberstar, Olver, Ortiz, Orton, Owens, Pallone, Pastor, Payne (NJ), Payne (VA), Pelosi, Rahall, Rangel, Reed, Richardson, Rivers, Roemer, Rose, Roybal-Allard, Rush, Sanders, Sawyer, Schroeder, Schumer, Scott, Serrano, Skaggs, Skelton, Slaughter, Spratt, Stark, Stenholm, Stokes, Stupak, Tanner, Tejeda, Thompson, Thornton, Thurman, Torres, Towns, Traficant, Velazquez, Vento, Visclosky, Volkmer, Ward, Waters, Watt (NC), Waxman, Williams, Wilson, Woolsey, Wynn, Yates

NOES—243

Table with 2 columns: Name, State. Includes Allard, Archer, Arney, Bachus, Baker (CA), Baker (LA), Ballenger, Barr, Barrett (NE), Barrett (WI), Bartlett, Barton, Bass, Bateman, Bereuter, Bilbray, Bilirakis, Bliley, Blute, Boehlert, Boehner, Bonilla, Bono, Brownback, Bryant (TN), Bunn, Bunning, Burr, Burton, Buyer, Callahan, Calvert, Camp, Campbell, Canady, Castle, Chabot, Chambliss, Chenoweth, Christensen, Chrysler, Cingler, Coble, Coburn, Collins (GA), Combest, Condit, Cooley, Costello, Cox, Crane, Crapo, Cremeans, Cubin, Cunningham, Davis, Deal, DeLay, Diaz-Balart, Dickey, Doolittle, Dornan, Dreier, Duncan, Dunn, Ehlers, Ehrlich, Emerson, English, Ensign, Everett, Ewing, Fawell, Fields (TX), Flanagan, Foley, Forbes, Fowler, Fox, Franks (CT), Franks (NJ), Frelinghuysen, Frisa, Funderburk, Ganske, Gekas, Geren, Gilchrest, Gillmor, Gilman, Goodlatte, Goodling, Goss, Graham, Greene (UT), Greenwood, Gutknecht, Hancock, Hansen, Hastert, Hastings (WA), Hayworth, Hefley, Heineman, Herger, Hilleary, Hobson, Hoekstra, Hoke, Horn, Hostettler, Houghton, Hunter, Hutchinson, Hyde, Inglis, Istook, Jacobs, Johnson (CT), Johnson, Sam, Jones, Kasich, Kelly, Kim, King, Kingston, Kleczka, Klug, Knollenberg, Kolbe, LaHood, Largent, Latham, LaTourette, Laughlin, Lazio, Leach, Lewis (CA), Lewis (KY), Lightfoot, Linder, Livingston, LoBiondo

Table with 2 columns: Name, State. Includes Longley, Lucas, Manzullo, Martini, McCarthy, McCollum, McCrery, McDade, McInnis, McIntosh, McKeon, Metcalf, Meyers, Mica, Miller (FL), Moorhead, Morella, Myers, Myrick, Nethercutt, Neumann, Ney, Norwood, Nussle, Obey, Oxley, Packard, Parker, Paxon, Peterson (MN), Petri, Pickett, Pombo, Porter, Portman, Poshard, Pryce, Quillen, Quinn, Radanovich, Ramstad, Regula, Riggs, Roberts, Rogers, Rohrabacher, Ros-Lehtinen, Roth, Royce, Sabo, Salmon, Sanford, Saxton, Scarborough, Schaefer, Schiff, Seastrand, Sensenbrenner, Shadegg, Shaw, Shays, Shuster, Sisisky, Skeen, Smith (MI), Smith (NJ), Smith (TX), Smith (WA), Souder, Spence, Stearns, Stockman, Stump, Talent, Tate, Tauzin, Taylor (MS), Taylor (NC), Thomas, Thornberry, Tiahrt, Torkildsen, Upton, Vucanovich, Walker, Walsh, Wamp, Watts (OK), Weldon (FL), Weldon (PA), Weller, White, Whitfield, Wicker, Wise, Wolf, Young (AK), Zeliff, Zimmer

NOT VOTING—20

Table with 2 columns: Name, State. Includes Chapman, Conyers, de la Garza, Dingell, Foglietta, Ford, Gunderson, Hayes, Lantos, Lincoln, Lowey, McHugh, Molinari, Peterson (FL), Pomeroy, Roukema, Solomon, Studds, Torricelli, Young (FL)

So the amendment was not agreed to.

64.10 RECORDED VOTE

A recorded vote by electronic device was ordered in the Committee of the Whole on the following amendment in the nature of a substitute submitted by Mr. BROWN of California:

Strike all after the enacting clause and insert in lieu thereof the following:

SECTION 1. SHORT TITLE.

This Act may be cited as the "Science and Technology Investment Act of 1996".

TITLE I—NATIONAL SCIENCE FOUNDATION

SEC. 101. AUTHORIZATION OF APPROPRIATIONS.

There are authorized to be appropriated to the National Science Foundation \$3,325,000,000 for fiscal year 1997, which shall be available for the following categories:

(1) Research and Related Activities, \$2,472,000,000, which shall be available for the following subcategories:

- (A) Mathematical and Physical Sciences, \$708,000,000.
(B) Engineering, \$354,300,000.
(C) Biological Sciences, \$326,000,000.
(D) Geosciences, \$454,000,000.
(E) Computer and Information Science and Engineering, \$277,000,000.

(F) Social, Behavioral, and Economic Sciences, \$124,000,000.

(G) United States Polar Research Programs, \$163,400,000.

(H) United States Antarctic Logistical Support Activities, \$62,600,000.

(I) Critical Technologies Institute, \$2,700,000.

(2) Education and Human Resources Activities, \$619,000,000.

(3) Major Research Equipment, \$95,000,000.

(4) Salaries and Expenses, \$129,100,000.

(5) Office of Inspector General, \$4,700,000.

(6) Headquarters Relocation, \$5,200,000.

TITLE II—NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

SEC. 201. FISCAL YEAR 1997 AUTHORIZATION OF APPROPRIATIONS.

There are authorized to be appropriated to the National Aeronautics and Space Admin-

istration for fiscal year 1997 the following amounts:

(1) For "Human Space Flight" for the following programs:

(A) Space Station, \$1,802,000,000.

(B) United States/Russian Cooperation, \$138,200,000.

(C) Space Shuttle, \$3,150,900,000, including for Construction of Facilities relating to the following programs:

(i) Replacement of LC-39 Pad B Chillers (KSC), \$1,800,000.

(ii) Restoration of Pad B Fixed Support Structure Elevator System (KSC), \$1,500,000.

(iii) Rehabilitation of 480V Electrical Distribution System, Kennedy Space Center, External Tank Manufacturing Building (MAF), \$2,500,000.

(iv) Restoration of High Pressure Industrial Water Plant, Stennis Space Center, \$2,500,000.

(D) Payload and Utilization Operations, \$271,800,000.

(2) For "Science, Aeronautics, and Technology" for the following programs:

(A) Space Science, \$1,857,300,000.

(B) Life and Microgravity Sciences and Applications, \$498,500,000.

(C) Mission to Planet Earth, \$1,402,100,000.

(D) Aeronautical Research and Technology, \$857,800,000, of which \$5,000,000 shall be for the identification and upgrading of national dual-use airbreathing propulsion aeronautical test facilities.

(E) Space Access and Technology, \$725,000,000

(F) Academic Programs, \$100,800,000.

(G) Mission Communication Services, \$420,600,000.

(3) For "Mission Support" for the following programs:

(A) Safety, Reliability, and Quality Assurance, \$36,700,000.

(B) Space Communication Services, \$291,400,000.

(C) Construction of Facilities, including land acquisition, including the following:

(i) Modernization of Electrical Distribution System, Ames Research Center, \$2,400,000.

(ii) Modification of Aircraft Ramp and Tow Way, Dryden Flight Research Center, \$3,000,000.

(iii) Restoration of Hangar Building 4801, Dryden Flight Research Center, \$4,500,000.

(iv) Modernization of Secondary Electrical Systems, Goddard Space Flight Center, \$1,500,000.

(v) Restoration of Chilled Water Distribution System, Goddard Space Flight Center, \$4,000,000.

(vi) Modification of Refrigeration Systems, Various Buildings, Jet Propulsion Laboratory, \$2,800,000.

(vii) Rehabilitation of Electrical Distribution System, White Sands Test Facility, Johnson Space Center, \$2,600,000.

(viii) Rehabilitation of Utility Tunnel Structure and System, Johnson Space Center, \$4,400,000.

(ix) Replacement of DX Units with Central Chilled Water System, Logistics Facility, Kennedy Space Center, \$1,800,000.

(x) Rehabilitation of Central Air Equipment Building, Lewis Research Center, \$6,500,000.

(xi) Modification of Chilled Water System, Marshall Space Flight Center, \$6,700,000.

(xii) Rehabilitation of Condenser Water System, 202/207 Complex (MAF), \$2,100,000.

(xiii) Minor Revitalization of Facilities at Various Locations, not in excess of \$1,500,000 per project, \$57,900,000.

(xiv) Minor construction of new facilities and additions to existing facilities at various locations, not in excess of \$1,500,000 per project, \$3,400,000.

(xv) Facility planning and design, not otherwise provided for, \$18,700,000.

(xvi) Environmental compliance and restoration, \$33,000,000.

(D) Research and Program Management, \$2,078,800,000.

(4) For "Inspector General", \$17,000,000.

SEC. 202. NATIONAL AERONAUTICS AND SPACE ACT OF 1958 AMENDMENT.

Section 102(d)(1) of the National Aeronautics and Space Act of 1958 (42 U.S.C. 2451(d)(1)) is amended by inserting "and its climate and environment," after "knowledge of the Earth".

TITLE III—DEPARTMENT OF ENERGY

SEC. 301. SHORT TITLE.

This title may be cited as the "Energy Research and Development Act of 1996".

SEC. 302. FINDINGS.

The Congress finds that—

(1) Federal support of research and development in general, and energy research and development in particular, has played a key role in the growth of the United States economy since World War II through the production of new knowledge, the development of new technologies and processes, and the demonstration of such new technologies and processes for application to industrial and other uses;

(2) Federal support of energy research and development is especially important because such research and development contributes to solutions for national problems in energy security, environmental protection, and economic competitiveness;

(3) the Department of Energy has successfully promoted new technologies and processes to address problems with energy supply, fossil energy, and energy conservation through its various research and development programs;

(4) while the Federal budget deficit and payments on the national debt must be addressed through cost-cutting measures, investments in research and development on key energy issues must be maintained;

(5) within the last two years, the Department of Energy has made great strides in managing its programs more efficiently and effectively;

(6) significant savings should result from these measures without hampering the Department's core missions; and

(7) the Strategic Realignment Initiative and other such efforts of the Department should be continued.

SEC. 303. DEFINITIONS.

For purposes of this title—

(1) the term "Department" means the Department of Energy; and

(2) the term "Secretary" means the Secretary of Energy.

SEC. 304. ENERGY CONSERVATION.

There are authorized to be appropriated to the Secretary for fiscal year 1997 for energy conservation research, development, and demonstration—

(1) \$99,721,000 for energy conservation in building technology, State, and community sector-nongrant;

(2) \$159,434,000 for energy conservation in the industry sector;

(3) \$221,308,000 for energy conservation in the transportation sector; and

(4) \$28,350,000 for policy and management activities.

SEC. 305. FOSSIL ENERGY.

There are authorized to be appropriated to the Secretary for fiscal year 1997 for fossil energy research, development, and demonstration—

(1) \$102,629,000 for coal;

(2) \$52,537,000 for petroleum;

(3) \$103,708,000 for gas;

(4) \$4,000,000 for the Fossil Energy Cooperative Research and Development Program;

(5) \$2,188,000 for fuel conversion, natural gas, and electricity;

(6) \$60,115,000 for program direction and management;

(7) \$3,304,000 for plant and capital improvements;

(8) \$15,027,000 for environmental restoration; and

(9) \$5,000,000 for mining.

SEC. 306. HIGH ENERGY AND NUCLEAR PHYSICS.

There are authorized to be appropriated to the Secretary for fiscal year 1997 for high energy and nuclear physics activities of the Department—

(1) \$679,125,000 for high energy physics activities;

(2) \$318,425,000 for nuclear physics activities; and

(3) \$11,600,000 for program direction.

SEC. 307. SOLAR AND RENEWABLE ENERGY.

There are authorized to be appropriated to the Secretary for fiscal year 1997 for solar and renewable energy research, development, and demonstration—

(1) \$263,282,000 for solar energy;

(2) \$35,600,000 for geothermal energy;

(3) \$11,012,000 for hydrogen energy;

(4) \$17,301,000 for policy and management;

(5) \$36,050,000 for electric energy systems and storage; and

(6) \$5,700,000 for in-house energy management.

SEC. 308. NUCLEAR ENERGY.

There are authorized to be appropriated to the Secretary for fiscal year 1997 for nuclear energy research, development, and demonstration—

(1) \$137,750,000 for nuclear energy, including \$40,000,000 for the Advanced Light Water Reactor program;

(2) \$79,100,000 for the termination of certain facilities;

(3) \$12,704,000 for isotope support; and

(4) \$18,500,000 for program direction.

SEC. 309. ENVIRONMENT, SAFETY, AND HEALTH.

There are authorized to be appropriated to the Secretary for fiscal year 1997 for research, development, and demonstration—

(1) \$73,160,000 for the Office of Environmental Safety and Health; and

(2) \$39,046,000 for program direction.

SEC. 310. ENERGY RESEARCH DIRECTORATE.

(a) AUTHORIZATIONS.—There are authorized to be appropriated to the Secretary for fiscal year 1997—

(1) \$379,075,000 for biological and environmental research activities;

(2) \$255,600,000 for fusion energy research, development, and demonstration;

(3) \$653,675,000 for basic energy sciences activities, of which \$1,000,000 shall be for planning activities for neutron source upgrades; and

(4) \$158,143,000 for computational and technology research.

(b) REPORT TO CONGRESS.—Before May 1, 1997, the Secretary, after consultation with the relevant scientific communities, shall prepare and transmit to the Congress a report detailing a strategic plan for the operation of facilities that are provided funds authorized by subsection (a)(3). The report shall include—

(1) a list of such facilities, including schedules for continuation, upgrade, transfer, or closure of each facility;

(2) a list of proposed facilities to be provided funds authorized by subsection (a)(3), including schedules for the construction and operation of each facility;

(3) a list of research opportunities to be pursued, including both ongoing and proposed activities, by the research activities authorized by subsection (a)(3); and

(4) an analysis of the relevance of each facility listed in paragraphs (1) and (2) to the research opportunities listed in paragraph (3).

SEC. 311. SUPPORT PROGRAMS FOR ENERGY SUPPLY RESEARCH AND DEVELOPMENT.

There are authorized to be appropriated to the Secretary for fiscal year 1997 for support programs for Energy Supply Research and Development—

- (1) \$2,000,000 for Energy Research Analyses;
- (2) \$28,885,000 for the Multi-Program Energy Laboratory program;
- (3) \$14,900,000 for the Information Management Investment program;
- (4) \$42,154,000 for program direction;
- (5) \$19,900,000 for University and Science Education programs;
- (6) \$12,000,000 for the Technology Information Management Program; and
- (7) \$651,414,000 for Civilian Environmental Restoration and Waste Management.

TITLE IV—NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**SEC. 401. SHORT TITLE.**

This title may be cited as the "National Oceanic and Atmospheric Administration Authorization Act of 1996".

SEC. 402. POLICY AND PURPOSE.

It is the policy of the United States and the purpose of this title to—

(1) support and promote continuing the mission of the National Oceanic and Atmospheric Administration to monitor, describe and predict changes in the Earth's environment, protect lives and property, and conserve and manage the Nation's coastal and marine resources to ensure sustainable economic opportunities;

(2) affirm that such mission involves basic responsibilities of the Federal Government for ensuring general public safety, national security, and environmental well-being, and promising economic growth;

(3) affirm that the successful execution of such mission depends strongly on interdependency and synergism among component activities of the National Oceanic and Atmospheric Administration;

(4) recognize that the activities of the National Oceanic and Atmospheric Administration underlie the societal and economic well-being of many sectors of our Nation; and

(5) recognize that such mission is most effectively performed by a single Federal agency with the capability to link societal and economic decisions with a comprehensive understanding of the Earth's environment, as provided for in this title.

SEC. 403. NATIONAL WEATHER SERVICE OPERATIONS AND RESEARCH.

There are authorized to be appropriated to the Secretary of Commerce to enable the National Oceanic and Atmospheric Administration to carry out the operations and research activities of the National Weather Service \$471,702,000 for fiscal year 1997.

SEC. 404. NATIONAL WEATHER SERVICE SYSTEMS ACQUISITION.

(a) **AUTHORIZATION.**—There are authorized to be appropriated to the Secretary of Commerce to enable the National Oceanic and Atmospheric Administration to improve its public warning and forecast systems \$68,984,000 for fiscal year 1997. None of the funds authorized under this section may be used for the purposes for which funds are authorized under section 102(b) of the National Oceanic and Atmospheric Administration Authorization Act of 1992 (Public Law 102-567).

(b) **AWIPS COMPLETE PROGRAM AUTHORIZATION.**—(1) Except as provided in paragraph (2), there are authorized to be appropriated to the Secretary for all fiscal years beginning after September 30, 1996, an aggregate of \$271,166,000, to remain available until expended, to complete the acquisition and deployment of the Advanced Weather Interactive Processing System and NOAA Port and to cover all associated activities, including program management and operations and maintenance through September 30, 1999.

(2) No funds are authorized to be appropriated for any fiscal year under paragraph (1) unless, within 60 days after the submission of the President's budget request for such fiscal year, the Secretary—

- (A) certifies to the Congress that—
 - (i) the systems meet the technical performance specifications included in the system contract as in effect on August 11, 1995;
 - (ii) the systems can be fully deployed, sited, and operational without requiring further appropriations beyond amounts authorized under paragraph (1); and
 - (iii) the Secretary does not foresee any delays in the systems deployment and operations schedule; or
- (B) submits to the Congress a report which describes—

(i) the circumstances which prevent a certification under subparagraph (A);

(ii) remedial actions undertaken or to be undertaken with respect to such circumstances;

(iii) the effects of such circumstances on the systems deployment and operations schedule and systems coverage; and

(iv) a justification for proceeding with the program, if appropriate.

(c) **REPEAL.**—Section 102(b)(2) of the National Oceanic and Atmospheric Administration Authorization Act of 1992 is repealed.

SEC. 405. WEATHER SERVICE MODERNIZATION.

(a) **WEATHER SERVICE MODERNIZATION.**—The Weather Service Modernization Act (15 U.S.C. 313 note) is amended—

(1) in section 706—

(A) by amending subsection (b) to read as follows:

“(b) **CERTIFICATION.**—The Secretary may not close, consolidate, automate, or relocate any field office unless the Secretary has certified to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science of the House of Representatives that such action will not result in degradation of services to the affected area. Such certification shall be in accordance with the modernization criteria established under section 704.”;

(B) by striking subsections (c), (d), and (e);

(C) by redesignating subsection (f) as subsection (d); and

(D) by inserting after subsection (b) the following new subsection:

“(c) **SPECIAL CIRCUMSTANCES.**—The Secretary may not close or relocate any field office which is located at an airport, unless the Secretary, in consultation with the Secretary of Transportation and the Committee, first conducts an air safety appraisal, determines that such action will not result in degradation of service that affects aircraft safety, and includes such determination in the certification required under subsection (b). This air safety appraisal shall be issued jointly by the Department of Commerce and the Department of Transportation before September 30, 1996, and shall be based on a coordinated review of all the airports in the United States subject to the certification requirements of subsection (b). The appraisal shall—

“(1) consider the weather information required to safely conduct aircraft operations and the extent to which such information is currently derived through manual observations provided by the National Weather Service and the Federal Aviation Administration, and automated observations provided from other sources including the Automated Weather Observation Service (AWOS), the Automated Surface Observing System (ASOS), and the Geostationary Operational Environmental Satellite (GOES); and

“(2) determine whether the service provided by ASOS, and ASOS augmented where necessary by human observations, provides the necessary level of service consistent with

the service standards encompassed in the criteria for automation of the field offices.”;

and

(2) in section 707—

(A) by amending subsection (c) to read as follows:

“(c) **DUTIES.**—The Committee shall advise the Congress and the Secretary on—

“(1) the implementation of the Strategic Plan, annual development of the Plan, and establishment and implementation of modernization criteria; and

“(2) matters of public safety and the provision of weather services which relate to the comprehensive modernization of the National Weather Service.”; and

(B) by amending subsection (f) to read as follows:

“(f) **TERMINATION.**—The Committee shall terminate—

“(1) on September 30, 1996; or

“(2) 90 days after the deadline for public comment on the modernization criteria for closure certification published in the Federal Register pursuant to section 704(b)(2), whichever occurs later.”.

(b) **SENSE OF CONGRESS REGARDING ADDITIONAL MODERNIZATION ACTIVITIES.**—It is the sense of Congress that the Secretary of Commerce should plan for the implementation of a follow-on modernization program aimed at improving weather services provided to areas which do not receive weather radar coverage at 10,000 feet. In carrying out such a program, the Secretary should plan for a procurement of Block II NEXRAD radar units.

SEC. 406. BASIC FUNCTIONS AND PRIVATIZATION OF NATIONAL WEATHER SERVICE.

(a) **BASIC FUNCTIONS.**—The basic functions of the National Weather Service shall be—

(1) the provision of forecasts and warnings including forecasts and warnings, of severe weather, flooding, hurricanes, and tsunami events;

(2) the collection, exchange, and distribution of meteorological, hydrologic, climatic, and oceanographic data and information; and

(3) the preparation of hydrometeorological guidance and core forecast information.

(b) **PROHIBITION.**—The National Weather Service shall not provide any new or enhanced weather services for the sole benefit of an identifiable private entity or group of such entities operating in any sector of the national or international economy in competition with the private weather service industry.

(c) **NEW OR ENHANCED SERVICE.**—If the Secretary determines, after consultation with appropriate Federal and State officials, that a new or enhanced weather service is necessary and in the public interest to fulfill the international obligations of the United States, to enable State or Federal emergency or resource managers to better perform their State or Federal duties, or to carry out the functions of the National Weather Service described in subsection (a), the National Weather Service may provide such new or enhanced service as one of its basic functions if—

(1) each new or enhanced service provided by the National Weather Service will be limited to the level that the Secretary determines necessary to fulfill the requirements of this subsection, taking into account the capabilities and limitations of resources available, scientific knowledge, and technological capability of the National Weather Service; and

(2) upon request, the National Weather Service will promptly make available to any person the data or data products supporting the new or enhanced service provided pursuant to this section, at a cost not greater than that sufficient to recover the cost of dissemination.

(d) **FEDERAL REGISTER.**—The Secretary shall promptly publish in the Federal Reg-

ister each determination made under subsection (c).

(e) **PRIVATIZATION REVIEW.**—The Secretary shall, by February 15, 1997, conduct a review of all existing weather services and activities performed by the National Oceanic and Atmospheric Administration in order to identify those activities which may be transferred to the private sector. Such review shall include a determination that activities identified for privatization will continue to be disseminated to users on a reasonably affordable basis with no degradation of service. The Secretary shall, by March 15, 1997, provide to the Speaker of the House of Representatives and the President of the Senate a plan for transferring these identified services to the private sector.

SEC. 407. CLIMATE AND AIR QUALITY RESEARCH.
(a) **AUTHORIZATION.**—There are authorized to be appropriated to the Secretary of Commerce to enable the National Oceanic and Atmospheric Administration to carry out its climate and air quality research activities \$122,681,000 for fiscal year 1997.

(b) **GLOBE.**—Of the amount authorized in subsection (a), \$7,000,000 are authorized for fiscal year 1997 for a program to increase scientific understanding of the Earth and student achievement in math and science by using a worldwide network of schools to collect environmental observations. Beginning in fiscal year 1997, amounts appropriated for such program may be obligated only to the extent that an equal or greater amount of non-Federal funding is provided for such program.

SEC. 408. ATMOSPHERIC RESEARCH.

There are authorized to be appropriated to the Secretary of Commerce to enable the National Oceanic and Atmospheric Administration to carry out its atmospheric research activities \$43,766,000 for fiscal year 1997.

SEC. 409. SATELLITE OBSERVING AND ENVIRONMENTAL DATA MANAGEMENT SYSTEMS.

(a) **AUTHORIZATION.**—There are authorized to be appropriated to the Secretary of Commerce to enable the National Oceanic and Atmospheric Administration to carry out its satellite observing systems activities and data and information services, \$348,740,000 for fiscal year 1997, and, in addition, such sums as may be necessary to continue planning and development of a converged polar orbiting meteorological satellite program. None of the funds authorized in this subsection may be used for the purposes for which funds are authorized under section 105(d) of the National Oceanic and Atmospheric Administration Act of 1992 (Public Law 102-567).

(b) **REPEAL.**—Section 105(d)(2) of the National Oceanic and Atmospheric Administration Authorization Act of 1992 is repealed.

SEC. 410. PROGRAM SUPPORT.

(a) **EXECUTIVE DIRECTION AND ADMINISTRATIVE ACTIVITIES.**—There are authorized to be appropriated to the Secretary of Commerce to enable the National Oceanic and Atmospheric Administration to carry out executive direction and administrative activities, including management, administrative support, provision of retired pay of National Oceanic and Atmospheric Administration commissioned officers, and policy development, \$64,694,000 for fiscal year 1997.

(b) **ACQUISITION, CONSTRUCTION, MAINTENANCE, AND OPERATION OF FACILITIES.**—There are authorized to be appropriated to the Secretary of Commerce for acquisition, construction, maintenance, and operation of facilities of the National Oceanic and Atmospheric Administration \$37,366,000 for fiscal year 1997.

(c) **AIRCRAFT SERVICES.**—There are authorized to be appropriated to the Secretary of Commerce to enable the National Oceanic and Atmospheric Administration to carry

out aircraft services activities, including aircraft operations, maintenance, and support, \$10,182,000 for fiscal year 1997.

SEC. 411. EDUCATIONAL PROGRAMS AND ACTIVITIES.

The Secretary of Commerce may conduct educational programs and activities related to the responsibilities of the National Oceanic and Atmospheric Administration. For the purposes of this section, the Secretary may award grants and enter into cooperative agreements and contracts with States, private sector, and nonprofit entities.

TITLE V—ENVIRONMENTAL PROTECTION AGENCY

SEC. 501. SHORT TITLE.

This title may be cited as the "Environmental Research, Development, and Demonstration Authorization Act of 1996".

SEC. 502. DEFINITIONS.

For the purposes of this title, the term—
(1) "Administrator" means the Administrator of the Environmental Protection Agency;

(2) "Agency" means the Environmental Protection Agency; and

(3) "Assistant Administrator" means the Assistant Administrator for Research and Development of the Agency.

SEC. 503. AUTHORIZATION OF APPROPRIATIONS.

(a) **IN GENERAL.**—There are authorized to be appropriated to the Administrator \$580,460,000 for fiscal year 1997 for the Office of Research and Development for environmental research, development, and demonstration activities, including program management and support, in the areas specified in subsection (b).

(b) **SPECIFIC PROGRAMS AND ACTIVITIES.**—Of the amount authorized in subsection (a), there are authorized to be appropriated the following:

(1) For air related research, \$88,163,200.

(2) For water quality related research, \$26,293,800.

(3) For drinking water related research, \$26,593,700.

(4) For pesticide related research, \$20,632,000.

(5) For toxic chemical related research, \$12,341,500.

(6) For research related to hazardous waste, \$10,343,900.

(7) For multimedia related research expenses, \$300,837,000.

(8) For program management expenses, \$8,184,700.

(9) For research related to leaking underground storage tanks, \$681,000.

(10) For oil pollution related research, \$1,031,000.

(11) For environmental research laboratories, \$85,358,200.

(c) **CONTINGENT AUTHORIZATION FOR RESEARCH RELATING TO THE CLEANUP OF CONTAMINATED SITES.**—To the extent that the Hazardous Substances Trust Fund is authorized to receive funds during fiscal year 1997, there are authorized to be appropriated for that fiscal year \$42,508,000 from such Fund to the Administrator for research relating to the cleanup of contaminated sites.

TITLE VI—TECHNOLOGY

SEC. 601. SHORT TITLE.

This title may be cited as the "Technology Administration Authorization Act of 1996".

SEC. 602. AUTHORIZATION OF APPROPRIATIONS.

(a) **UNDER SECRETARY FOR TECHNOLOGY.**—There are authorized to be appropriated to the Secretary of Commerce for the activities of the Under Secretary for Technology/Office of Technology Policy \$9,531,000 for fiscal year 1997.

(b) **NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.**—There are authorized to be appropriated to the Secretary of Commerce for

the National Institute of Standards and Technology for fiscal year 1997 the following amounts:

(1) For Industrial Technology Services, \$450,000,000, of which—

(A) \$345,000,000 shall be for the Advanced Technology Program under section 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278n); and

(B) \$105,000,000 shall be for the Manufacturing Extension Partnerships program under sections 25 and 26 of the National Institute of Standards and Technology Act (15 U.S.C. 278k and 278l).

(2) For Scientific and Technical Research and Services, \$270,744,000, of which—

(A) \$267,764,000 shall be for Laboratory Research and Services; and

(B) \$2,980,000 shall be for the Malcolm Baldrige National Quality Award program under section 17 of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3711a).

(3) For Construction of Research Facilities, \$105,240,000.

SEC. 603. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY ACT AMENDMENTS.

The National Institute of Standards and Technology Act (15 U.S.C. 271 et seq.) is amended—

(1) in section 25(c)—

(A) by striking "for a period not to exceed six years" in paragraph (1); and

(B) by striking "which are designed" and all that follows through "operation of a Center" in paragraph (5) and inserting in lieu thereof "to a maximum of 1/3 Federal funding. Each Center which receives financial assistance under this section shall be evaluated during its sixth year of operations, and at least once each two years thereafter as the Secretary considers appropriate, by an evaluation panel appointed by the Secretary in the same manner as was the evaluation panel previously appointed. The Secretary shall not provide funding for additional years of the Center's operation unless the most recent evaluation is positive and the Secretary finds that continuation of funding furthers the purposes of this section"; and

(2) in section 28—

(A) by striking "or contracts" in subsection (b)(1)(B), and inserting in lieu thereof "contracts, and, subject to the last sentence of this subsection, other transactions";

(B) by inserting "and if the non-Federal participants in the joint venture agree to pay at least 50 percent of the total costs of the joint venture during the Federal participation period, which shall not exceed 5 years," after "participation to be appropriate,";

(C) by striking "provision of a minority share of the cost of such joint ventures for up to 5 years, and (iii)" in subsection (b)(1)(B), and inserting in lieu thereof "and";

(D) by striking "and cooperative agreements" in subsection (b)(2), and inserting in lieu thereof ", cooperative agreements, and, subject to the last sentence of this subsection, other transactions";

(E) by adding after subsection (b)(4) the following:

"The authority under paragraph (1)(B) and paragraph (2) to enter into other transactions shall apply only if the Secretary, acting through the Director, determines that standard contracts, grants, or cooperative agreements are not feasible or appropriate, and only when other transaction instruments incorporate terms and conditions that reflect the use of generally accepted commercial accounting and auditing practices."; and

(F) by adding at the end the following new subsection:

"(k) Notwithstanding subsection (b)(1)(B)(ii) and subsection (d)(3), the Direc-

tor may grant extensions beyond the deadlines established under those subsections for joint venture and single applicant awardees to expend Federal funds to complete their projects, if such extension may be granted with no additional cost to the Federal Government and it is in the Federal Government's interest to do so."

TITLE VII—UNITED STATES FIRE ADMINISTRATION

SEC. 701. SHORT TITLE.

This title may be cited as the "Fire Administration Authorization Act of 1996".

SEC. 702. AUTHORIZATION OF APPROPRIATIONS.

Section 17(g)(1) of the Federal Fire Prevention and Control Act of 1974 (15 U.S.C. 2216(a)(1)) is amended—

(1) by striking "and" at the end of subparagraph (E);

(2) by striking the period at the end of subparagraph (F) and inserting in lieu thereof "; and"; and

(3) by adding at the end the following new subparagraph:

"(G) \$27,560,000 for the fiscal year ending September 30, 1997."

TITLE VIII—FEDERAL AVIATION ADMINISTRATION RESEARCH, ENGINEERING, AND DEVELOPMENT

SEC. 801. AVIATION RESEARCH AUTHORIZATION.

Section 48102(a) of title 49, United States Code, is amended—

(1) by striking "Not more than the following amounts" and inserting in lieu thereof "For fiscal year 1997, not more than \$195,700,000 for Research, Engineering, and Development";

(2) by inserting "40119, 44912," after "carry out sections"; and

(3) by striking "of this title" and all that follows through the end of the subsection and inserting in lieu thereof "of this title".

SEC. 802. RESEARCH PRIORITIES.

Section 48102(b) of title 49, United States Code, is amended—

(1) by redesignating paragraph (2) as paragraph (3); and

(2) by striking "AVAILABILITY FOR RESEARCH.—(1)" and inserting in lieu thereof "RESEARCH PRIORITIES.—(1) The Administrator shall consider the advice and recommendations of the research advisory committee established by section 44508 of this title in establishing priorities among major categories of research and development activities carried out by the Federal Aviation Administration.

"(2)".

SEC. 803. RESEARCH ADVISORY COMMITTEE.

Section 44508(a)(1) of title 49, United States Code, is amended—

(1) by striking "and" at the end of subparagraph (B);

(2) by striking the period at the end of subparagraph (C) and inserting in lieu thereof "; and"; and

(3) by inserting after subparagraph (C) the following new subparagraph:

"(D) annually review the allocation made by the Administrator of the amounts authorized by section 48102(a) of this title among the major categories of research and development activities carried out by the Administration and provide advice and recommendations to the Administrator on whether such allocation is appropriate to meet the needs and objectives identified under subparagraph (A)."

SEC. 804. NATIONAL AVIATION RESEARCH PLAN.

Section 44501(c) of title 49, United States Code, is amended—

(1) in paragraph (2)(A) by striking "15-year" and inserting in lieu thereof "5-year";

(2) by amending subparagraph (B) to read as follows:

"(B) The plan shall—

"(i) provide estimates by year of the schedule, cost, and work force levels for each active and planned major research and development project under sections 40119, 44504, 44505, 44507, 44509, 44511-44513, and 44912 of this title, including activities carried out under cooperative agreements with other Federal departments and agencies;

"(ii) specify the goals and the priorities for allocation of resources among the major categories of research and development activities, including the rationale for the priorities identified;

"(iii) identify the allocation of resources among long-term research, near-term research, and development activities; and

"(iv) highlight the research and development activities that address specific recommendations of the research advisory committee established under section 44508 of this title, and document the recommendations of the committee that are not accepted, specifying the reasons for nonacceptance."; and

(3) in paragraph (3) by inserting ", including a description of the dissemination to the private sector of research results and a description of any new technologies developed" after "during the prior fiscal year".

TITLE IX—NATIONAL EARTHQUAKE HAZARDS REDUCTION PROGRAM

SEC. 901. AUTHORIZATION OF APPROPRIATIONS.

Section 12 of the Earthquake Hazards Reduction Act of 1977 (42 U.S.C. 7706) is amended—

(1) in subsection (a)(7) by striking "and \$25,750,000 for the fiscal year ending September 30, 1996" and inserting in lieu thereof "\$25,750,000 for the fiscal year ending September 30, 1996, and \$18,825,000 for the fiscal year ending September 30, 1997";

(2) in subsection (b) by striking "and \$50,676,000 for the fiscal year ending September 30, 1996" and inserting in lieu thereof "\$50,676,000 for the fiscal year ending September 30, 1996, and \$46,130,000 for the fiscal year ending September 30, 1997";

(3) in subsection (c) by adding at the end the following new sentence: "There are authorized to be appropriated, out of funds otherwise authorized to be appropriated to the National Science Foundation, \$28,400,000 for fiscal year 1997, including \$17,500,000 for engineering research and \$10,900,000 for geosciences research."; and

(4) in subsection (d) by adding at the end the following new sentence: "There are authorized to be appropriated, out of funds otherwise authorized to be appropriated to the National Institute of Standards and Technology, \$1,932,000 for fiscal year 1997."

It was decided in the { Yeas 176 negative } Nays 235

- Holden, Houghton, Hoyer, Jackson (IL), Jackson-Lee (TX), Jefferson, Johnson (SD), Johnson, E. B., Johnston, Kanjorski, Kaptur, Kennedy (MA), Kennedy (RI), Kennelly, Kildee, Klink, LaFalce, Levin, Lewis (GA), Lofgren, Luther, Maloney, Manton, Markey, Martinez, Mascara, Matsui, McCarthy, McDermott, McHale, McKinney, McNulty, Meehan, Meek, Menendez, Millender-McDonald, Miller (CA), Minge, Mink, Moakley, Mollohan, Montgomery, Moran, Murtha, Nadler, Neal, Oberstar, Olver, Ortiz, Orton, Owens, Pallone, Pastor, Payne (NJ), Payne (VA), Pelosi, Peterson (MN), Pickett, Rahall, Rangel, Reed, Richardson, Rivers, Rose, Roybal-Allard, Rush, Sabo, Sawyer, Schroeder, Schumer, Scott, Serrano, Sisisky, Skaggs, Skelton, Slaughter, Spratt, Stark, Stenholm, Stokes, Stupak, Tanner, Taylor (MS), Tejeda, Thompson, Thornton, Thurman, Torres, Towns, Traficant, Velazquez, Vento, Visclosky, Volkmer, Ward, Waters, Watt (NC), Waxman, Williams, Wilson, Wise, Woolsey, Wynn, Yates

NOES—235

- Allard, Archer, Arme, Bachus, Baker (CA), Baker (LA), Ballenger, Barr, Barrett (NE), Barrett (WI), Bartlett, Barton, Bass, Bateman, Bereuter, Bilirakis, Bliley, Blute, Boehlert, Boehner, Bonilla, Bono, Brownback, Bryant (TN), Bunn, Bunning, Burr, Burton, Buyer, Callahan, Calvert, Camp, Campbell, Canady, Castle, Chabot, Chambliss, Christensen, Chrysler, Clinger, Coble, Coburn, Collins (GA), Combust, Cooley, Costello, Cox, Crane, Crapo, Cremeans, Cuban, Cunningham, Davis, Deal, DeFazio, DeLay, Diaz-Balart, Dickey, Doolittle, Dornan, Dreier, Duncan, Dunn, Ehlers, Ehrlich, Emerson, English, Ensign, Everett, Ewing, Fawell, Fields (TX), Flanagan, Foley, Forbes, Fowler, Fox, Franks (CT), Franks (NJ), Frelinghuysen, Frisa, Funderburk, Gallegly, Ganske, Gekas, Gilchrest, Gillmor, Gilman, Goodlatte, Goodling, Goss, Graham, Greene (UT), Greenwood, Gutknecht, Hancock, Hansen, Hastert, Hastings (WA), Hayworth, Hefley, Heineman, Herger, Hilleary, Hobson, Hoekstra, Hoke, Horn, Hostettler, Hunter, Hutchinson, Hyde, Inglis, Istook, Jacobs, Johnson (CT), Johnson, Sam, Jones, Kasich, Kelly, Kim, King, Kingston, Kleczka, Klug, Knollenberg, Kolbe, LaHood, Latham, LaTourette, Laughlin, Lazio, Leach, Lewis (CA), Lewis (KY), Lightfoot, Linder, Lipinski, Livingston, LoBiondo, Longley, Lucas, Manzullo, Martini, McCollum, McCrery, McDade, McInnis, McIntosh, McKeon, Metcalf, Meyers, Mica, Miller (FL), Moorhead, Morella, Myers, Myrick, Nethercutt, Neumann, Ney, Norwood, Nussle, Obey, Oxley, Packard, Parker, Paxton, Petri, Pombro, Porter, Portman, Poshard, Pryce, Quillen, Quinn, Radanovich, Ramstad, Regula, Riggs, Roberts, Roemer, Rogers, Rohrabacher, Ros-Lehtinen, Roth

64.11 [Roll No. 197] AYES—176

- Abercrombie, Ackerman, Andrews, Baesler, Baldacci, Barcia, Becerra, Beilenson, Bentsen, Berman, Bevill, Bishop, Bonior, Borski, Boucher, Brewster, Browder, Brown (CA), Brown (FL), Brown (OH), Bryant (TX), Cardin, Chapman, Clay, Clayton, Clement, Clyburn, Collins (IL), Collins (MI), Condit, Coyne, Cramer, Cummings, Danner, DeLauro, Dellums, Deutsch, Dicks, Dixon, Doggett, Dooley, Doyle, Durbin, Edwards, Engel, Eshoo, Evans, Farr, Fattah, Fazio, Fields (LA), Filner, Flake, Frank (MA), Frost, Furse, Gejdenson, Gephardt, Geren, Gibbons, Gonzalez, Gordon, Green (TX), Gutierrez, Hall (OH), Hall (TX), Hamilton, Harman, Hastings (FL), Hefner, Hilliard, Hinchey