# **EARTHQUAKE HAZARDS REDUCTION ACT OF 1977**

[Pub. L. 95-124; Approved Oct. 7, 1977; 91 Stat. 1098]

[As Amended Through P.L. 115-307, Enacted December 11, 2018]

- [Currency: This publication is a compilation of the text of Public Law 95-124. It was last amended by the public law listed in the As Amended Through note above and below at the bottom of each page of the pdf version and reflects current law through the date of the enactment of the public law listed at https://www.govinfo.gov/app/collection/comps/]
- [Note: While this publication does not represent an official version of any Federal statute, substantial efforts have been made to ensure the accuracy of its contents. The official version of Federal law is found in the United States Statutes at Large and in the United States Code. The legal effect to be given to the Statutes at Large and the United States Code is established by statute (1 U.S.C. 112, 204).]

AN ACT To reduce the hazards of earthquakes, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

### SECTION 1. [42 U.S.C. 7701 note] SHORT TITLE.

That this Act may be cited as the "Earthquake Hazards Reduction Act of 1977".

### SEC. 2. FINDINGS.

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The Congress finds and declares the following:

(1) All 50 States, and the Commonwealth of Puerto Rico,<sup>1</sup> are vulnerable to the hazards of earthquakes, and at least 39 of them are subject to major or moderate seismic risk, including Alaska, California, Hawaii, Illinois, Massachusetts, Missouri, Montana, Nevada, New Jersey, New York, Oregon, South Carolina Tennessee,<sup>2</sup> Utah, and Washington. A large portion of the population of the United States lives in areas vulnerable to earthquake hazards.

(2) Earthquakes have caused, and can cause in the future, enormous loss of life, injury, destruction of property, and economic and social disruption. With respect to future earthquakes, such loss, destruction, and disruption can be substantially reduced through the development and implementation of earthquake hazards reduction measures, including (A) improved design and construction methods and practices, (B) land-use controls and redevelopment, (C) early-warning sys-

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<sup>&</sup>lt;sup>1</sup>Section 2(a)(1)(A) in Public Law 115-307 amends paragraph (1) by inserting ", and the Commonwealth of Puerto Rico," after "States". Such amendment did not specify the occurrence of the word "States"; however, such amendment was carried out to the first occurrence to reflect the probable intent of Congress.

<sup>&</sup>lt;sup>2</sup>Double commas are so in law. See the amendment made by section 2(a)(1)(C) in Public Law 115-307.

tems, (D) coordinated emergency preparedness plans, and (E) public education and involvement programs.

(3) An expertly staffed and adequately financed earthquake hazards reduction program, based on Federal, State, local, and private research, planning, decisionmaking, and contributions would reduce the risk of such loss, destruction, and disruption in seismic areas by an amount far greater than the cost of such program.

(4) A well-funded seismological research program could provide the scientific understanding needed to fully implement an effective earthquake early warning system.

(5) The geological study of active faults and features can reveal how recently and how frequently major earthquakes have occurred on those faults and how much risk they pose. Such long-term seismic risk assessments are needed in virtually every aspect of earthquake hazards management, whether emergency planning, public regulation, detailed building design, insurance rating, or investment decision.

(6) The vulnerability of buildings, lifeline infrastructure, public works, and industrial and emergency facilities can be reduced through proper earthquake resistant design and construction practices. The economy and efficacy of such procedures can be substantially increased through research and development.

(7) Programs and practices of departments and agencies of the United States are important to the communities they serve; some functions, such as emergency communications and national defense, and lifeline infrastructure, such as dams, bridges, and public works, must remain in service during and after an earthquake. Federally owned, operated, and influenced structures and lifeline infrastructure should serve as models for how to reduce and minimize hazards to the community.

(8) The implementation of earthquake hazards reduction measures would, as an added benefit, also reduce the risk of loss, destruction, and disruption from other natural hazards and man-made hazards, including hurricanes, tornadoes, accidents, explosions, landslides, building and structural cave-ins, and fires.

(9) Reduction of loss, destruction, and disruption from earthquakes will depend on the actions of individuals, and organizations in the private sector and governmental units at Federal, State, and local levels. The current capability to transfer knowledge and information to these sectors is insufficient. Improved mechanisms are needed to translate existing information and research findings into reasonable and usable specifications, criteria, and practices so that individuals, organizations, and governmental units may make informed decisions and take appropriate actions.

(10) Severe earthquakes are a worldwide problem. Since damaging earthquakes occur infrequently in any one nation, international cooperation is desirable for mutual learning from limited experiences.

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(11) An effective Federal program in earthquake hazard reduction will require input from and review by persons outside the Federal Government expert in the sciences of earthquake hazards reduction and in the practical application of earthquake hazards reduction measures.

(12) The built environment has generally been constructed and maintained to meet the needs of the users under normal conditions. When earthquakes occur, the built environment is generally designed to prevent severe injuries or loss of human life and is not expected to remain operational or able to recover under any specified schedule.

(13) The National Research Council published a study on reducing hazards and risks associated with earthquakes based on the goals and objectives for achieving national earthquake resilience described in the strategic plan entitled "Strategic Plan for the National Earthquake Hazards Reduction Program". The study and an accompanying report called for work in 18 tasks focused on research, preparedness, and mitigation and annual funding of approximately \$300,000,000 per year for 20 years.

## [42 U.S.C. 7701]

### SEC. 3. PURPOSE.

It is the purpose of the Congress in this Act to reduce the risks of life and property from future earthquakes and increase the resilience of communities in the United States through the establishment and maintenance of an effective earthquake hazards reduction program. The objectives of such program shall include—

(1) the education of the public, including State and local officials, as to earthquake phenomena, the identification of locations and structures which are especially susceptible to earthquake damage, ways to reduce the adverse consequences of an earthquake to individuals and the communities, and related matters;

(2) the development of technologically and economically feasible design and construction methods and procedures to make new and existing structures, in areas of seismic risk, earthquake resistant, giving priority to the development of such methods and procedures for power generating plants, dams, hospitals, schools, public utilities and other lifeline infrastructure, public safety structures, high occupancy buildings, and other structures which are especially needed to facilitate community-wide post-earthquake recovery and in times of disaster;

(3) the implementation to the greatest extent practicable, in all areas of high or moderate seismic risk, of a system (including personnel, technology, and procedures) for identifying, evaluating, and accurately characterizing seismic hazards;

(4) the development, publication, and promotion, in conjunction with State and local officials and professional organizations, of model building and planning codes and other means to encourage consideration of information about seismic risk in making decisions about land-use policy and construction activity;

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(5) the development, in areas of seismic risk, of improved understanding of, and capability with respect to, earthquakerelated issues, including methods of mitigating the risks from earthquakes, planning to prevent such risks, disseminating warnings of earthquakes, organization emergency services, and planning for re-occupancy, recovery, reconstruction, and redevelopment after an earthquake;

(6) the development of ways to increase the use of existing scientific and engineering knowledge to mitigate earthquake hazards; and

(7) the development of ways to assure the availability of affordable earthquake insurance.

# [42 U.S.C. 7702]

# SEC. 4. DEFINITIONS.

As used in this Act, unless the context otherwise requires:

(1) The term "includes" and variants thereof should be read as if the phrase "but is not limited to" were also set forth.
(2) The term "Program" means the National Earthquake

Hazards Reduction Program established under section 5.

(3) The term "seismic" and variants thereof mean having to do with, or caused by earthquakes.

(4) The term "State" means each of the States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the commonwealth of the Mariana Islands, and any other territory or possession of th United States.
(5) The term "United States" means, when used in geo-

(5) The term "United States" means, when used in geographical sense, all of the States as defined in section 4(4).
(6) The term "lifeline infrastructure" means public works

(6) The term "lifeline infrastructure" means public works and utilities, including transportation facilities and infrastructure, oil and gas pipelines, electrical power and communication facilities and infrastructure, and water supply and sewage treatment facilities.

(7) The term "Program agencies" means the Federal Emergency Management Agency, the United States Geological Survey, the National Science Foundation, and the National Institute of Standards and Technology.

(8) The term "Interagency Coordinating Committee" means the Interagency Coordinating Committee on Earthquake Hazards Reduction established under section 5(a).

(9) The term "Advisory Committee" means the Advisory Committee established under section 5(a)(5).

(10) The term "community resilience" means the ability of a community to prepare and plan for, absorb, recover from, and more successfully adapt to adverse seismic events.

[42 U.S.C. 7703]

# SEC. 5. NATIONAL EARTHQUAKE HAZARDS REDUCTION PROGRAM.

(a) ESTABLISHMENT.—

(1) IN GENERAL.—There is established the National Earthquake Hazards Reduction Program.

(2) PROGRAM ACTIVITIES.—The activities of the Program shall be designed to—

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(A) develop effective measures for earthquake hazards reduction;

(B) promote the adoption of earthquake hazards reduction measures by Federal, State, and local governments, national standards and model code organizations, architects and engineers, building owners, and others with a role in planning and constructing buildings, structures, and lifeline infrastructure through—

(i) grants, contracts, cooperative agreements, and technical assistance;

(ii) development of standards, guidelines, and voluntary consensus codes for earthquake hazards reduction for buildings, structures, and lifeline infrastructure;

(iii) development and maintenance of a repository of information, including technical data, on seismic risk, community resilience, and hazards reduction; and

(iv) publishing a systematic set of maps of active faults and folds, liquefaction susceptibility, susceptibility for earthquake induced landslides, and other seismically induced hazards; and

(C) improve the understanding of earthquakes and their effects on communities, buildings, structures, and lifeline infrastructure, through interdisciplinary research that involves engineering, natural sciences, and social, economic, and decisions sciences; and

(D) continue the development of the Advanced National Seismic System, including earthquake early warning capabilities and the Global Seismographic Network.

(3) INTERAGENCY COORDINATING COMMITTEE ON EARTH-QUAKE HAZARDS REDUCTION.—

(A) IN GENERAL.—There is established an Interagency Coordinating Committee on Earthquake Hazards Reduction chaired by the Director of the National Institute of Standards and Technology (referred to in this subsection as the "Director").

(B) MEMBERSHIP.—In addition to the Director, the committee shall be composed of—

(i) the Administrator of the Federal Emergency Management Agency;

(ii) the Director of the United States Geological Survey;

(iii) the Director of the National Science Foundation;

(iv) the Director of the Office of Science and Technology Policy; and

(v) the Director of the Office of Management and Budget.

(C) MEETINGS.—The Committee shall meet not less frequently than once each year at the call of the Director. (D) DUTIES.—

(i) GENERAL DUTY.—The Interagency Coordinating Committee shall oversee the planning, management, and coordination of the Program.

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(ii) SPECIFIC DUTIES.—The duties of the Interagency Coordinating Committee include the following:

(I) Developing, not later than 6 months after the date of the enactment of the National Earthquake Hazards Reduction Program Reauthorization Act of 2004 and updating periodically—

(aa) a strategic plan that establishes goals and priorities for the Program activities described under subsection (a)(2); and

(bb) a detailed management plan to implement such strategic plan.

(II) Developing a coordinated interagency budget for the Program that will ensure appropriate balance among the Program activities described under subsection (a)(2), and, in accordance with the plans developed under subclause (I), submitting such budget to the Director of the Office of Management and Budget at the time designated by the Director for agencies to submit biennial budgets.

(III) Developing interagency memorandums of understanding with any relevant Federal agencies on data sharing and resource commitment in the event of an earthquake disaster.

(IV) Coordinating with the Interagency Coordinating Committee on Windstorm Impact Reduction and other natural hazards coordination committees as the Director determines appropriate to share data and best practices.

(V) Coordinating with the Administrator of the National Aeronautics and Space Administration and the Administrator of the National Oceanic and Atmospheric Administration on data sharing and resource allocation to ensure judicious use of Government resources and the freeflowing exchange of information related to earthquakes.

(VI) Coordinating with the Secretary of Agriculture and the Secretary of the Interior on the use of public lands for earthquake monitoring and research stations, and related data collection.

(VII) Coordinating with the Secretary of Transportation and the Secretary of Housing and Urban Development on the effects of earthquakes on transportation and housing stocks.

(iii) ASSISTANCE FROM SECRETARY OF AGRICULTURE AND SECRETARY OF THE INTERIOR.—To the extent practicable, the Secretary of Agriculture and the Secretary of the Interior shall expedite any request for a permit to use public land under clause (ii)(VI). (4)<sup>3</sup> ANNUAL REPORT.—The Interagency Coordinating Committee shall transmit, at the time of the President's budget request to Congress, an annual report to the Committee on Science and the Committee on Resources of the House of Representatives, and the Committee on Commerce, Science, and Transportation of the Senate. Such report shall include—

(A) the Program budget for the current fiscal year for each agency that participates in the Program, and for each major goal established for the Program activities under subparagraph (3)(A);

(B) the proposed Program budget for the next fiscal year for each agency that participates in the Program, and for each major goal established for the Program activities under subparagraph (3)(A);

(C) a description of the activities and results of the Program during the previous year, including an assessment of the effectiveness of the Program in furthering the goals established in the strategic plan under (3)(A);

(D) a description of the extent to which the Program has incorporated the recommendations of the Advisory Committee;

(E) a description of activities, including budgets for the current fiscal year and proposed budgets for the next fiscal year, that are carried out by Program agencies and contribute to the Program, but are not included in the Program; and

(F) a description of the activities, including budgets for the current fiscal year and proposed budgets for the following fiscal year, related to the grant program carried out under subsection (b)(2)(A)(i).

[Note: Section 3(b)(4)(A) of Public Law 115–307 provides for amendments to paragraph (4) in section 5(a). Subparagraph (B) of such section 3(b)(4) states "The amendments made by subparagraph (A) shall take effect on the first day of the first fiscal year beginning after the date of the enactment of this Act [effective date is October 1, 2019]". Section 8(c) of such Public Law provides for amendments to paragraph (4) of section 5(a) ", as amended by section 3(b)(4)(A) of this Act," which takes effect on date of the enactment [enactment date is December 11, 2018], however, these later amendments can only be executed to the version of law that is not in effect. Upon such date, section 5(a)(4) (as so amended) will read as follows:]

(4) BIENNIAL REPORT.—

(A) IN GENERAL.—Not less frequently than once every two years, the Interagency Coordinating Committee shall submit to the Committee on Commerce, Science, and Transportation, the Committee on Energy and Natural Resources, and the Committee on Homeland Security and Governmental Affairs of the Senate and the Committee on

 $^3\,{\rm For}$  version of law for section 5(a)(4), as amended by sections 3(b)(4)(A) and 8(c) of Public Law 115–307, see note below.

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Science, Space, and Technology, the Committee on Energy and Commerce, the Committee on Natural Resources, and the Committee on Homeland Security of the House of Representatives a report on the Program. Such report shall include—

(i) the Program budget for the current fiscal year for each agency that participates in the Program, and for each major goal established for the Program activities under paragraph  $(3)(D)(i)(I)^4$ ;

(ii) the proposed Program budget for the next fiscal year for each agency that participates in the Program, and for each major goal established for the Program activities under paragraph  $(3)(D)(i)(1)^4$ ;

(iii) a description of the activities and results of the Program during the previous year, including an assessment of the effectiveness of the Program in furthering the goals established in the strategic plan under paragraph  $(3)(D)(i)(I)^4$ ;

(iv) a description of the extent to which the Program has incorporated the recommendations of the Advisory Committee;

(v) a description of activities, including budgets for the current fiscal year and proposed budgets for the next fiscal year, that are carried out by Program agencies and contribute to the Program, but are not included in the Program;

(vi) a description of the activities, including budgets for the current fiscal year and proposed budgets for the following fiscal year, related to the grant program carried out under subsection (b)(2)(A)(i); and

(vii) a statement regarding whether the Administrator of the Federal Emergency Management Agency has lowered or waived the cost share requirement for assistance provided under subsection (b)(2)(A)(i).

(B) SUPPORT FOR PREPARATION OF REPORT.—Each head of a Program agency shall submit to the Director of the National Institute of Standards and Technology such information as the Director may request for the preparation of a report under subparagraph (A) not later than 90 days after the date on which the Director requests such information.

(5) Advisory committee.—

(A) IN GENERAL.—The Director shall establish an Advisory Committee on Earthquake Hazards Reduction of at least 11 members, none of whom may be an employee (as defined in subparagraphs (A) through (F) of section 7342(a)(1) of title 5, United States Code, including representatives of research and academic institutions, industry standards development organizations, State and local government, and financial communities who are qualified

 $^4$  Clause (i) of paragraph (3)(D), as amended by section 3(b)(3) of Public Law 115–307, does not contain subclauses.

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to provide advice on earthquake hazards reduction and represent all related scientific, architectural, and engineering disciplines. The recommendations of the Advisory Committee shall be considered by Federal agencies in implementing the Program.

(B) ASSESSMENT.—The Advisory Committee shall assess—

(i) trends and developments in the science and engineering of earthquake hazards reduction;

(ii) effectiveness of the Program in carrying out the activities under (a)(2);

(iii) the need to revise the Program; and

(iv) the management, coordination, implementation, and activities of the Program.

(C) REPORT.—Not later than 1 year after the date of enactment of the National Earthquake Hazards Reduction Program Reauthorization Act of 2004 and at least once every 2 years thereafter, the Advisory Committee shall report to the Director on its findings of the assessment carried out under subparagraph (B) and its recommendations for ways to improve the Program. In developing recommendations, the Committee shall consider the recommendations of the United States Geological Survey Scientific Earthquake Studies Advisory Committee.

(D) FEDERAL ADVISORY COMMITTEE ACT APPLICATION.— Section 14 of the Federal Advisory Committee Act (5 App. U.S.C. 14) shall not apply to the Advisory Committee.

(b) RESPONSIBILITIES OF PROGRAM AGENCIES.—

(1) LEAD AGENCY.—The National Institute of Standards and Technology shall have the primary responsibility for planning and coordinating the Program. In carrying out this paragraph, the Director of the Institute shall—

(A) ensure that the Program includes the necessary steps to promote the implementation of earthquake hazard reduction measures by Federal, State, and local governments, national standards and model building code organizations, architects and engineers, and others with a role in planning and constructing<sup>5</sup> buildings and lifeline infrastructure;

(B) support the development of performance-based seismic engineering tools, and work with appropriate groups to promote the commercial application of such tools, through earthquake-related building codes, standards, and construction practices;

(C) request the assistance of Federal agencies other than the Program agencies, as necessary to assist in carrying out this Act; and

<sup>5</sup> Section 3(c)(1)(A) of Public Law 115-307 amends section 5(b)(1)(A) by striking "and constructing[,]" and inserting "constructing, evaluating, and retrofitting". The amendment could not be carried out due to the inclusion of a comma following "constructing" in the stricken matter.

(D) work with the Federal Emergency Management Agency, the National Science Foundation<sup>6</sup>, and the United States Geological Survey, to develop a comprehensive plan for earthquake engineering research to provide new and effectively use existing testing facilities and laboratories (existing at the time of the development of the plan), upgrade facilities and equipment as needed, and integrate new, innovative testing approaches to the research infrastructure in a systematic manner.

(2) DEPARTMENT OF HOMELAND SECURITY; FEDERAL EMER-GENCY MANAGEMENT AGENCY.—

(A) PROGRAM RESPONSIBILITIES.—The Administrator of the Federal Emergency Management Agency—

(i) shall operate a program of grants and assistance to enable States to develop mitigation, preparedness, and response plans, purchase necessary instrumentation, prepare inventories and conduct seismic safety inspections of critical structures and lifeline infrastructure, update building, land use planning, and zoning codes and ordinances to enhance seismic safety, increase earthquake awareness and education, and provide assistance to multi-State groups for such purposes;

(ii) shall support the implementation of a comprehensive earthquake education, outreach, and public awareness program, including development of materials and their wide dissemination to all appropriate audiences and support public access to locality-specific information that may assist the public in preparing for, mitigating against, responding to and recovering from earthquakes and related disasters;

(iii) shall, in conjunction with the Director of the National Institute of Standards and Technology, other Federal agencies, and private sector groups, use research results to support the preparation, maintenance, and wide dissemination of seismic resistant design guidance and related information on building codes, standards, and practices for new and existing buildings, structures, and lifeline infrastructure, aid in the development of performance-based design guidelines and methodologies, and support model codes that are cost effective and affordable in order to promote better practices within the design and construction industry and reduce losses from earthquakes;

(iv) shall enter into cooperative agreements or contracts with States and local jurisdictions and other Federal agencies to establish demonstration projects on earthquake hazard mitigation, to link earthquake research and mitigation efforts with emergency man-

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 $<sup>^6</sup>$  The amendment made by section 103(2)(A)(v) of Public Law 108–360 (118 Stat. 1671) to strike "National Science Foundation, the National Institute[s] of Standards and Technology" and insert "Federal Emergency Management Agency, the National Science Foundation", was executed by striking "National Science Foundation, the National Institute of Standards and Technology" in the matter to be struck to reflect the probable intent of Congress.

agement programs, or to prepare educational materials for national distribution; and

(v) shall support the Director of the National Institute of Standards and Technology in the completion of programmatic goals.

(B) STATE ASSISTANCE PROGRAM CRITERIA.—In order to qualify for assistance under subparagraph (A)(i), a State must—

(i) demonstrate that the assistance will result in enhanced seismic safety in the State;

(ii) provide 25 percent of the costs of the activities for which assistance is being given, except that the Administrator may lower or waive the cost-share requirement for these activities for a small impoverished community, as defined in section 203 of the Disaster Relief Act of 1974 (42 U.S.C. 5133(a)); and

(iii) meet such other requirements as the Administrator shall prescribe.

(3) UNITED STATES GEOLOGICAL SURVEY.—The United States Geological Survey shall report on significant domestic and international earthquakes and conduct research and other activities necessary to characterize and identify earthquake hazards, assess earthquake risks, monitor seismic activity, and improve earthquake forecasts. In carrying out this paragraph, the Director of the United States Geological Survey shall—

(A) conduct a systematic assessment of the seismic risks in each region of the Nation prone to earthquakes, including, where appropriate, the establishment and operation of intensive monitoring projects on hazardous faults, seismic microzonation studies in urban and other developed areas where earthquake risk is determined to be significant, and engineering seismology studies;

(B) work with officials of State and local governments to ensure that they are knowledgeable about the specific seismic risks in their areas;

(C) develop standard procedures, in consultation with the Administrator of the Federal Emergency Management Agency and the Director of the National Institute of Standards and Technology, for issuing earthquake alerts and early warnings;

(D) issue when necessary and feasible, and notify the Administrator of the Federal Emergency Management Agency, the Director of the National Institute of Standards and Technology, and State and local officials, an alert and an earthquake warning;

(E) operate, including the National Earthquake Information Center, a forum for the international exchange of earthquake information which shall—

(i) promote the exchange of information on earthquake research and earthquake preparedness between the United States and other nations;

(ii) maintain a library containing selected reports, research papers, and data produced through the Program;

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(iii) answer requests from other nations for information on United States earthquake research and earthquake preparedness programs; and

(iv) direct foreign requests to the agency involved in the Program which is best able to respond to the request;

(F) operate a National Seismic System;

(G) support regional seismic networks, which shall complement the National Seismic Network; and

(H) work with the National Science Foundation, the Federal Emergency Management Agency, and the National Institute of Standards and Technology to develop a comprehensive plan for earthquake engineering research to effectively use existing testing facilities and laboratories (in existence at the time of the development of the plan), upgrade facilities and equipment as needed, and integrate new, innovative testing approaches to the research infrastructure in a systematic manner.

(I) work with other Program agencies to coordinate Program activities with similar earthquake hazards reduction efforts in other countries, to ensure that the Program benefits from relevant information and advances in those countries;

(J) maintain suitable seismic hazard maps and data in support of building codes for structures and lifeline infrastructure, including additional maps needed for performance-based design approaches; and

(K) support the Director of the National Institute of Standards and Technology in the completion of programmatic goals.

(4) NATIONAL SCIENCE FOUNDATION.—

(A) IN GENERAL.—The National Science Foundation shall be responsible for funding research on earth sciences to improve the understanding of the causes and behavior of earthquakes, on earthquake engineering, and on human response to earthquakes. In carrying out this paragraph, the Director of the National Science Foundation shall—

(i) encourage prompt dissemination of significant findings, sharing of data, samples, physical collections, and other supporting materials, and development of intellectual property so research results can be used by appropriate organizations to mitigate earthquake damage;

(ii) in addition to supporting individual investigators, support university research consortia, State agencies, State geological surveys, and centers for research in geosciences and in earthquake engineering;

(iii) work closely with the United States Geological Survey to support applied science in the production of a systematic series of earthquake-related geologic hazard maps, and to identify geographic regions of national concern that should be the focus of targeted solicitations for earthquake-related research proposals;

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(iv) support research that improves the safety and performance of buildings, structures, and lifeline systems using experimental and computational facilities;

(v) emphasize, in earthquake engineering research, development of economically feasible methods to retrofit existing buildings and to protect lifeline infrastructure to mitigate earthquake damage;

(vi) support research that studies the political, economic, and social factors that influence the implementation of hazard reduction measures;

(vii) include to the maximum extent practicable diverse institutions, including Historically Black Colleges and Universities and those serving large proportions of Hispanics, Native Americans, Asian-Pacific Americans, and other underrepresented populations;

(viii) develop, in conjunction with the Federal Emergency Management Agency, the National Institute of Standards and Technology, and the United States Geological Survey, a comprehensive plan for earthquake engineering research to effectively use existing testing facilities and laboratories (in existence at the time of the development of the plan), upgrade facilities and equipment as needed, and integrate new, innovative testing approaches to the research infrastructure in a systematic manner; and

(ix) support the Director of the National Institute of Standards and Technology in the completion of programmatic goals.

(B) IDENTIFICATION OF FUNDING.—The National Science Foundation shall—

(i) to the extent practicable, note in any notice of Program funding or other funding possibilities under the Program that the funds are part of the Program;

(ii) to the extent practicable, track the awarding of Federal funds through the Program; and

(iii) not less frequently than once every 2 years, submit to the director of the Program a report specifying the amount of Federal funds awarded to conduct research that enhances the understanding of earthquake science.

(5) NATIONAL INSTITUTE OF STANDARDS AND TECH-NOLOGY.—In addition to the lead agency responsibilities described under paragraph (1), the National Institute of Standards and Technology shall be responsible for carrying out research and development to improve community resilience through building codes and standards and practices for structures and lifeline infrastructure. In carrying out this paragraph, the Director of the National Institute of Standards and Technology shall—

(A) work closely with national standards and model building code organizations, in conjunction with the Agency, to promote the implementation of research results;

(B) promote better building practices among architects and engineers;

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(C) work closely with national standards organizations to develop seismic safety standards and practices for new and existing lifeline infrastructure;

(D)<sup>7</sup> support the development and commercial application of cost effective and affordable performance-based seismic engineering by providing technical support for seismic engineering practices and related building code, standards, and practices development; and

(E) work with the National Science Foundation, the Federal Emergency Management Agency, and the United States Geological Survey to develop a comprehensive plan for earthquake engineering research to effectively use existing testing facilities and laboratories (in existence at the time of the development of the plan), upgrade facilities and equipment as needed, and integrate new, innovative testing approaches to the research infrastructure in a systematic manner.

(c) BUDGET COORDINATION.—

(1) GUIDANCE.—The Interagency Coordinating Committee shall each year provide guidance to the other Program agencies concerning the preparation of requests for appropriations for activities related to the Program, and shall prepare, in conjunction with the other Program agencies, an annual Program budget to be submitted to the Office of Management and Budget.

(2) REPORTS.—Each Program agency shall include with its annual request for appropriations submitted to the Office of Management and Budget a report that—

(A) identifies each element of the proposed Program activities of the agency;

(B) specifies how each of these activities contributes to the Program; and

(C) states the portion of its request for appropriations allocated to each element of the Program.

[42 U.S.C. 7704]

[Sec. 6. Repealed by section 4 of P.L. 105–47, 111 Stat. 1164]

[Sec. 7. Repealed by section 4 of P.L. 105–47, 111 Stat. 1164] SEC. 8. SEISMIC STANDARDS.

(a) ASSESSMENT AND RECOMMENDATIONS.—Not later than December 1, 2019, the Director of the National Institute of Standards and Technology and the Administrator of the Federal Emergency Management Agency shall jointly convene a committee of experts from Federal agencies, nongovernmental organizations, private sector entities, disaster management professional associations, engineering professional associations, and professional construction and homebuilding industry associations, to assess and recommend options for improving the built environment and critical infrastructure to reflect performance goals stated in terms of post-earthquake reoccupancy and functional recovery time.

(b) REPORT TO CONGRESS.—Not later than June 30, 2020, the committee convened under paragraph (1) shall submit to the Com-

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mittee on Commerce, Science, and Transportation, the Committee on Energy and Natural Resources, and the Committee on Homeland Security and Governmental Affairs of the Senate and the Committee on Science, Space, and Technology, the Committee on Natural Resources, and the Committee on Homeland Security of the House of Representatives a report on recommended options for improving the built environment and critical infrastructure to reflect performance goals stated in terms of post-earthquake reoccupancy and functional recovery time.

[42 U.S.C. 7705b]

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### SEC. 9. ACCEPTANCE OF GIFTS.

(a) AUTHORITY.—In furtherance of the purposes of this Act, the Administrator of the Federal Emergency Management Agency may accept and use bequests, gifts, or donations of services, money, or property, notwithstanding section 3679 of the Revised Statutes (31 U.S.C. 1342).

(b) CRITERIA.—The Administrator of the Federal Emergency Management Agency shall establish by regulation criteria for determining whether to accept bequests, gifts, or donations of services, money, or property. Such criteria shall take into consideration whether the acceptance of the bequest, gift, or donation would reflect unfavorably on the Director's ability to carry out his responsibilities in a fair and objective manner, or would compromise the integrity of, or the appearance of the integrity of, the Program or any official involved in administering the Program.

[42 U.S.C. 7705c]

[Sec. 10. Repealed by section 203 of P.L. 106–503 (114 Stat. 2305).]

## SEC. 11. POST-EARTHQUAKE INVESTIGATIONS PROGRAM.

There is established within the United States Geological Survey a post-earthquake investigations program, the purpose of which is to investigate major earthquakes, so as to learn lessons which can be applied to reduce the loss of lives and property in future earthquakes. The United States Geological Survey, in consultation with each Program agency, shall organize investigations to study the implications of the earthquake in the areas of responsibility of each Program agency. The investigations shall begin as rapidly as possible and may be conducted by grantees and contractors. The Program agencies shall ensure that the results of investigations are disseminated widely. The Director of the Survey is authorized to utilize earthquake expertise from the Agency, the National Science Foundation, the National Institute of Standards and Technology, other Federal agencies, and private contractors, on a reimbursable basis, in the conduct of such earthquake investigations. At a minimum, investigations under this section shall include-

(1) analysis by the National Science Foundation and the United States Geological Survey of the causes of the earthquake and the nature of the resulting ground motion;

(2) analysis by the National Science Foundation and the National Institute of Standards and Technology of the behavior

As Amended Through P.L. 115-307, Enacted December 11, 2018

of structures and lifeline infrastructure, both those that were damaged and those that were undamaged; and

(3) analysis by each of the Program agencies of the effectiveness of the earthquake hazards mitigation programs and actions relating to its area of responsibility under the Program, and how those programs and actions could be strengthened.

## [42 U.S.C. 7705e]

### SEC. 12. AUTHORIZATION OF APPROPRIATIONS.

(a)(1) GENERAL.—There are authorized to be appropriated to the President to carry out the provisions of section 5 and 6 of this Act (in addition to any authorizations for similar purposes included in other Acts and the authorizations set forth in subsections (b) and (c) of this section), not to exceed \$1,000,000 for the fiscal year ending September 30, 1978, not to exceed \$2,000,000 for the fiscal year ending September 30, 1979, and not to exceed \$2,000,000 for the fiscal year ending September 30, 1980.

(2) There are authorized to be appropriated to the Director to carry out the provisions of sections 5 and 6 of this Act for the fiscal year ending September 30, 1981—

(A) \$1,000,000 for continuation of the Interagency Committee on Seismic Safety in Construction and the Building Seismic Safety Council programs,

(B) \$1,500,000 for plans and preparedness for earthquake disasters,

(C) \$500,000 for prediction response planning,

(D) \$600,000 for architectural and engineering planning and practice programs,

(E) \$1,000,000 for development and application of a public education program,

(F) \$3,000,000 for use by the National Science Foundation in addition to the amount authorized to be appropriated under subsection (c), which amount includes \$2,400,000 for earthquake policy research and \$600,000 for the strong ground motion element of the siting program, and

(G) \$1,000,000 for use by the Center for Building Technology, National Bureau of Standards in addition to the amount authorized to be appropriated under subsection (d) for earthquake activities in the Center.

(3) There are authorized to be appropriated to the Director for the fiscal year ending September 30, 1982, \$2,000,000 to carry out the provisions of section 5 and 6 of this Act.

(4) There are authorized to be appropriated to the Director, to carry out the provisions of section 5 and 6 of this Act, \$1,281,000 for the fiscal year ending September 30, 1983.

(5) There are authorized to be appropriated to the Director, to carry out the provisions of section 5 and 6 of this Act, for the fiscal year ending September 30, 1984, \$3,705,000 and for the fiscal year ending September 30, 1985, \$6,096,000.

(6) There are authorized to be appropriated to the Director, to carry out the provisions of section 5 and 6 of this Act, for the fiscal year ending September 30, 1986, \$5,596,000, and for the fiscal year ending September 30, 1987, \$5,848,000.

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(7) There are authorized to be appropriated to the Director of the Agency, to carry out this Act, \$5,778,000 for the fiscal year ending September 30, 1988, \$5,788,000 for the fiscal year ending September 30, 1989, \$8,798,000 for the fiscal year ending September 30, 1990, \$14,750,000 for the fiscal year ending September 30, 1991, \$19,000,000 for the fiscal year ending September 30, 1992, \$22,000,000 for the fiscal year ending September 30, 1993 \$25,000,000 for the fiscal year ending September 30, 1995. \$25,750,000 for the fiscal year ending September 30, 1996.\$20,900,000 for the fiscal year ending September 30,1998, \$21,500,000 for the fiscal year ending September 30, 1999: \$19,861,000 for the fiscal year ending September 30, 2001, of which \$450,000 is for National Earthquake Hazard Reduction Program-eligible efforts of an established multi-state consortium to reduce the unacceptable threat of earthquake damages in the New Madrid seismic region through efforts to enhance preparedness, response, recovery, and mitigation; \$20,705,000 for the fiscal year ending September 30, 2002; and \$21,585,000 for the fiscal year ending September 30, 2003.

(8)<sup>8</sup> There are authorized to be appropriated to the Federal Emergency Management Agency for carrying out this title-

(A) \$21,000,000 for fiscal year 2005,

(B) \$21,630,000 for fiscal year 2006,

(C) \$22,280,000 for fiscal year 2007,

(D) \$22,950,000 for fiscal year 2008,

(E) \$23,640,000 for fiscal year 2009, (F) \$8,758,000 for fiscal year 2019,

(G) \$8,758,000 for fiscal year 2020,

(H) \$8,758,000 for fiscal year 2021,

(I) \$8,758,000 for fiscal year 2022, and

(J) \$8,758,000 for fiscal year 2023, of which not less than 10 percent of available program funds actually appropriated shall be made available each such fiscal year for supporting the development of performance-based, cost-effective, and affordable design guidelines and methodologies in codes for buildings, structures, and lifeline infrastructure.

(b) GEOLOGICAL SURVEY.—(1) There are authorized to be appropriated to the Secretary of the Interior for purposes for carrying out, through the Director of the United States Geological Survey, the responsibilities that may be assigned to the Director under this Act not to exceed \$27,500,000 for the fiscal year ending September 30, 1978; not to exceed \$35,000,000 for the fiscal year ending September 30, 1979; not to exceed \$40,000,000 for the fiscal year ending September 30, 1980; \$32,484,000 for the fiscal year ending September 30, 1981; \$34,425,000 for the fiscal year ending September 30, 1982; \$31,843,000 for the fiscal year ending September 30, 1983; \$35,524,000 for the fiscal year ending September 30, 1984; \$37,300,200 for the fiscal year ending September 30, 1985<sup>9</sup> \$35,578,000 for the fiscal year ending September 30, 1986;

<sup>8</sup>Margin so in law.

<sup>9</sup>So in law. Probably should have a semicolon.

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\$37,179,000 for the fiscal year ending September 30, 1987; \$38,540,000 for the fiscal year ending 30, 1988; September \$41,819,000 for the fiscal year ending September 30, 1989; \$55,283,000 for the fiscal year ending September 30, 1990, of which \$8,000,000 shall be for earthquake investigations under section 11; \$50,000,000 for the fiscal year ending \$54,500,000 for the fiscal year ending September 30, 1991; September 30, 1992;30, \$62,500,000 for the fiscal year ending September 1993; \$49,200,000 for the fiscal year ending September 30, 1995: \$50,676,000 for the fiscal year ending September 30, 1996; \$52,565,000 for the fiscal year ending September 30, 1998, of which \$3,800,000 shall be used for the Global Seismic Network operated by the Agency; and \$54,052,000 for the fiscal year ending September 30, 1999, of which \$3,800,000 shall be used for the Global Seismic Network operated by the Agency. There are authorized to be appropriated to the Secretary of the Interior for purposes of carrying out, through the Director of the United States Geological Survey, the responsibilities that may be assigned to the Director under this Act \$48,360,000 for fiscal year 2001, of which \$3,500,000 is for the Global Seismic Network and \$100,000 is for the Scientific Earthquake Studies Advisory Committee established under section 210 of the Earthquake Hazards Reduction Authorization Act of 2000; \$50,415,000 for fiscal year 2002, of which \$3,600,000 is for the Global Seismic Network and \$100,000 is for the Scientific Earthquake Studies Advisory Committee; and \$52,558,000 for fiscal year 2003, of which \$3,700,000 is for the Global Seismic Network and \$100,000 is for the Scientific Earthquake Studies Advisory Committee. Of the amounts authorized to be appropriated under this paragraph <sup>10</sup>, at least-

(A) \$8,000,000 of the amount authorized to be appropriated for the fiscal year ending September 30, 1998;

(B) \$8,250,000 of the amount authorized for the fiscal year ending September 30, 1999;

 $(\overline{C})$  \$9,000,000 of the amount authorized to be appropriated for fiscal year 2001;

(D) \$9,250,000 of the amount authorized to be appropriated for fiscal year 2002; and

(E) \$9,500,000 of the amount authorized to be appropriated for fiscal year 2003,

shall be used for carrying out a competitive, peer-reviewed program under which the Director, in close coordination with and as a complement to related activities of the United States Geological Survey, awards grants to, or enters into cooperative agreements with, State and local governments and persons or entities from the academic community and the private sector.

(2) There are authorized to be appropriated to the United States Geological Survey for carrying out this title—

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<sup>&</sup>lt;sup>10</sup>The amendment made by section 104(a)(3) of Public Law 108–360 (118 Stat. 1674) to strike "subsection' in the last sentence and inserting 'paragraph'" was executed by striking and inserting such words in the last sentence of subsection (b) to reflect the probable intent of Congress."National Science Foundation, the National Institute[s] of Standards and Technology" and insert "Federal Emergency Management Agency, the National Science Foundation", was executed by striking "National Science Foundation, the National Institute of Standards and Technology" in the matter to be struck to reflect the probable intent of Congress.

(A) \$77,000,000 for fiscal year 2005, of which not less than \$30,000,000 shall be made available for completion of the Advanced National Seismic System established under section 13;

(B) \$84,410,000 for fiscal year 2006, of which not less than \$36,000,000 shall be made available for completion of the Advanced National Seismic System established under section 13;

(C) \$85,860,000 for fiscal year 2007, of which not less than \$36,000,000 shall be made available for completion of the Advanced National Seismic System established under section 13;

(D) \$87,360,000 for fiscal year 2008, of which not less than \$36,000,000 shall be made available for completion of the Advanced National Seismic System established under section 13;

(E) \$88,900,000 for fiscal year 2009, of which not less than \$36,000,000 shall be made available for completion of the Advanced National Seismic System established under section 13;

(F) \$83,403,000 for fiscal year 2019, of which not less than \$30,000,000 shall be made available for completion of the Advanced National Seismic System established under section 7707 of this title;

(G) \$83,403,000 for fiscal year 2020, of which not less than \$30,000,000 shall be made available for completion of the Advanced National Seismic System established under section 7707 of this title;

(H) \$83,403,000 for fiscal year 2021, of which not less than \$30,000,000 shall be made available for completion of the Advanced National Seismic System established under section 7707 of this title;

(I) \$83,403,000 for fiscal year 2022, of which not less than \$30,000,000 shall be made available for completion of the Advanced National Seismic System established under section 7707 of this title; and

(J) \$83,403,000 for fiscal year 2023, of which not less than \$30,000,000 shall be made available for completion of the Advanced National Seismic System established under section 7707 of this title.

(c) NATIONAL SCIENCE FOUNDATION.—(1) To enable the Foundation to carry out responsibilities that may be assigned to it under this Act, there are authorized to be appropriated to the Foundation not to exceed \$27,500,000 for the fiscal year ending September 30, 1978; not to exceed \$35,000,000 for the fiscal year ending September 30, 1979; not to exceed \$40,000,000 for the fiscal year ending September 30, 1980; \$26,600,000 for the fiscal year ending September 30, 1981; \$27,150,000 for the fiscal year ending September 30, 1981; \$27,150,000 for the fiscal year ending September 30, 1983; \$25,800,000 for the fiscal year ending September 30, 1984; \$28,665,000 for the fiscal year ending September 30, 1984; \$28,665,000 for the fiscal year ending September 30, 1985<sup>11</sup> \$27,760,000 for the fiscal year ending September 30, 1986; \$29,009,000 for the fiscal year ending September 30, 1987; \$28,235,000 for the fiscal year ending September 30, 1988; \$31,634,000 for the fiscal year ending September 30, 1989; <sup>12</sup> \$38,454,000 for the fiscal year ending September 30, 1989; <sup>12</sup>

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<sup>&</sup>lt;sup>11</sup>So in law. Probably should have a semicolon

<sup>&</sup>lt;sup>12</sup>So in law. Probably should have "and".

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amounts authorized for Engineering under section 101(d)(1)(B) of the National Science Foundation Authorization Act of 1988, \$24,000,000 is authorized for carrying out this Act for the fiscal year ending September 30, 1991, and of the amounts authorized for Geosciences under section 101(d)(1)(D) of the National Science Foundation Authorization Act of 1988, \$13,000,000 is authorized for carrying out this Act for the fiscal year ending September 30, 1991. Of the amounts authorized for Research and Related Activities under section 101(e)(1) of the National Science Foundation Authorization Act of 1988, \$29,000,000 is authorized for engineering research under this Act, and \$14,750,000 is authorized for geosciences research under this Act, for the fiscal year ending September 30, 1992. Of the amounts authorized for Research and Related Activities under section 101(f)(1) of the National Science Foundation Authorization Act of 1988, \$34,500,000 is authorized for engineering research under this Act, and \$17,500,000 is authorized for geosciences research under this Act, for the fiscal year ending September 30, 1993. There are authorized to be appropriated, out of funds otherwise authorized to be appropriated to the National Science Foundation: (1) \$16,200,000 for engineering research and \$10,900,000 for geosciences research for the fiscal year ending September 30, 1995, (2) \$16,686,000 for engineering research and \$11,227,000 for geosciences research for the fiscal year ending September 30, 1996, (3) \$18,450,000 for engineering research and \$11,920,000 for geosciences research for the fiscal year ending September 30, 1998, (4) \$19,000,000 for engineering research and \$12,280,000 for geosciences research for the fiscal year ending September 30, 1999. There are authorized to be appropriated to the National Science Foundation \$19,000,000 for engineering research and \$11,900,000 for geosciences research for fiscal year 2001; \$19,808,000 for engineering research and \$12,406,000 for geosciences research for fiscal year 2002; and \$20,650,000 for engineering research and \$12,933,000 for geosciences research for fiscal year 2003.

(2) There are authorized to be appropriated to the National Science Foundation for carrying out this title—

(A) \$38,000,000 for fiscal year 2005;

(B) \$39,140,000 for fiscal year 2006;

(C) \$40,310,000 for fiscal year 2007;

(D) \$41,520,000 for fiscal year 2008;

(E) \$42,770,000 for fiscal year 2009;

(F) \$54,000,000 for fiscal year 2019,

(G) \$54,000,000 for fiscal year 2020,

(H) \$54,000,000 for fiscal year 2021,

(I) \$54,000,000 for fiscal year 2022, and

(J) \$54,000,000 for fiscal year 2023.

(d) NATIONAL INSTITUTE OF STANDARDS AND TECH-NOLOGY <sup>13</sup>.—(1) To enable the National Institute of Standards and Technology to carry out responsibilities that may be assigned to it under this Act, there are authorized to be appropriated \$425,000 for the fiscal year ending September 30, 1981; \$425,000

The amendment probably used the wrong size type.

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<sup>&</sup>lt;sup>13</sup>Section 12(4)(A) of P.L. 101-614, 104 Stat. 3240, amended the heading of subsection (d).

for the fiscal year ending September 30, 1982; \$475,000 for the fiscal year ending September 30, 1983; \$475,000 for the fiscal year ending September 30, 1984; \$498,750 for the fiscal year ending September 30, 1985<sup>14</sup> \$499,000 for the fiscal year ending September 30, 1986; \$521,000 for the fiscal year ending September 30, 1987; \$525,000 for the fiscal year ending September 30, 1988; \$525,000 for the fiscal year ending September 30, 1989; \$2,525,000 for the fiscal year ending September 30, 1990; \$1,000,000 for the fiscal year ending September 30, 1991; \$3,000,000 for the fiscal year ending September 30, 1992; and \$4,750,000 for the fiscal year ending September 30, 1993. There are authorized to be appropriated, out of funds otherwise authorized to be appropriated to the National Institute of Standards and Technology, \$1,900,000 for the fiscal year ending September 30, 1996, \$2,000,000 for the fiscal year ending September 30, 1996, \$2,000,000 for the fiscal year ending September 30, 1998, \$2,060,000 for the fiscal tember 30, 1999, \$2,332,000 for fiscal year 2001, \$2,431,000 for fiscal year 2002, and \$2,534,300 for fiscal year 2003.

(2) There are authorized to be appropriated to the National Institute of Standards and Technology for carrying out this title-(A) \$10,000,000 for fiscal year 2005,

(B) \$11,000,000 for fiscal year 2006,

(C) \$12,100,000 for fiscal year 2007,

(D) \$13,310,000 for fiscal year 2008,

(E) \$14,640,000 for fiscal year 2009.

(F) \$5,900,000 for fiscal year 2019,

(G) \$5,900,000 for fiscal year 2020,

(H) \$5,900,000 for fiscal year 2021,

(I) \$5,900,000 for fiscal year 2022, and

(J) \$5,900,000 for fiscal year 2023.

of which \$2,000,000 shall be made available each such fiscal year for supporting the development of performance-based, cost-effective, and affordable codes for buildings, structures, and lifeline infrastructure.

[42 U.S.C. 7706]

### SEC. 13. ADVANCED NATIONAL SEISMIC SYSTEM.

(a) ESTABLISHMENT.—The Director of the United States Geological Survey shall establish and operate an Advanced National Seismic System. The purpose of such system shall be to organize, modernize, standardize, and stabilize the national, regional, and urban seismic monitoring systems in the United States, including sensors, recorders, and data analysis centers, into a coordinated system that will measure and record the full range of frequencies and amplitudes exhibited by seismic waves, in order to enhance earthquake research and warning capabilities.

(b) MANAGEMENT PLAN.—Not later than 90 days after the date of the enactment of the Earthquake Hazards Reduction Authorization Act of 2000, the Director of the United States Geological Survey shall transmit to the Congress a 5-year management plan for establishing and operating the Advanced National Seismic System. The plan shall include annual cost estimates for both moderniza-

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<sup>&</sup>lt;sup>14</sup>So in law. Probably should have a semicolon.

tion and operation, milestones, standards, and performance goals, as well as plans for securing the participation of all existing networks in the Advanced National Seismic System and for establishing new, or enhancing existing, partnerships to leverage resources.

[42 U.S.C. 7707]

### SEC. 14. NETWORK FOR EARTHQUAKE ENGINEERING SIMULATION.

(a) ESTABLISHMENT.—The Director of the National Science Foundation shall establish the George E. Brown, Jr. Network for Earthquake Engineering Simulation that will upgrade, link, and integrate a system of geographically distributed experimental facilities for earthquake engineering testing of full-sized structures and their components and partial-scale physical models. The system shall be integrated through networking software so that integrated models and databases can be used to create model-based simulation, and the components of the system shall be interconnected with a computer network and allow for remote access, information sharing, and collaborative research.

(b) AUTHORIZATION OF APPROPRIATIONS.—In addition to amounts appropriated under section 12(c), there are authorized to be appropriated to the National Science Foundation for the George E. Brown, Jr. Network for Earthquake Engineering Simulation—

(1) \$28,200,000 for fiscal year 2001;

(2) \$24,400,000 for fiscal year 2002;

(3) \$4,500,000 for fiscal year 2003;

(4) \$17,000,000 for fiscal year 2004;

(5) \$20,000,000 for fiscal year 2005, all of which shall be available for operations and maintenance;

(6) \$20,400,000 for fiscal year 2006, all of which shall be available for operations and maintenance;

(7) \$20,870,000 for fiscal year 2007, all of which shall be available for operations and maintenance;

(8) \$21,390,000 for fiscal year 2008, all of which shall be available for operations and maintenance; and

(9) \$21,930,000 for fiscal year 2009, all of which shall be available for operations and maintenance.

[42 U.S.C. 7708]

note: Section 14 should have been repealed?