

106TH CONGRESS
2D SESSION

S. 1639

AN ACT

To authorize appropriations for carrying out the Earthquake Hazards Reduction Act of 1977, for the National Weather Service and Related Agencies, and for the United States Fire Administration for fiscal years 2000, 2001, and 2002.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Earthquake Hazards
5 Reduction Authorization Act of 2000”.

1 **SEC. 2. AUTHORIZATION OF APPROPRIATIONS.**

2 (a) FEDERAL EMERGENCY MANAGEMENT AGEN-
3 CY.—Section 12(a)(7) of the Earthquake Hazards Reduc-
4 tion Act of 1977 (42 U.S.C. 7706(a)) is amended—

5 (1) by striking “and” after “1998”; and

6 (2) by striking “1999.” and inserting “1999;
7 \$19,861,000 for the fiscal year ending September
8 30, 2001, of which \$450,000 is for National Earth-
9 quake Hazard Reduction Program-eligible efforts of
10 an established multi-state consortium to reduce the
11 unacceptable threat of earthquake damages in the
12 New Madrid seismic region through efforts to en-
13 hance preparedness, response, recovery, and mitiga-
14 tion; \$20,705,000 for the fiscal year ending Sep-
15 tember 30, 2002; and \$21,585,000 for the fiscal
16 year ending September 30, 2003.”.

17 (b) UNITED STATES GEOLOGICAL SURVEY.—Section
18 12(b) of the Earthquake Hazards Reduction Act of 1977
19 (42 U.S.C. 7706(b)) is amended—

20 (1) by inserting after “operated by the Agen-
21 cy.” the following: “There are authorized to be ap-
22 propriated to the Secretary of the Interior for pur-
23 poses of carrying out, through the Director of the
24 United States Geological Survey, the responsibilities
25 that may be assigned to the Director under this Act
26 \$48,360,000 for fiscal year 2001, of which

1 \$3,500,000 is for the Global Seismic Network and
 2 \$100,000 is for the Scientific Earthquake Studies
 3 Advisory Committee established under section 10 of
 4 the Earthquake Hazards Reduction Act of 2000;
 5 \$50,415,000 for fiscal year 2002, of which
 6 \$3,600,000 is for the Global Seismic Network and
 7 \$100,000 is for the Scientific Earthquake Studies
 8 Advisory Committee; and \$52,558,000 for fiscal year
 9 2003, of which \$3,700,000 is for the Global Seismic
 10 Network and \$100,000 is for the Scientific Earth-
 11 quake Studies Advisory Committee;

12 (2) by striking “and” at the end of paragraph
 13 (1);

14 (3) by striking “1999,” at the end of paragraph
 15 (2) and inserting “1999;”; and

16 (4) by inserting after paragraph (2) the fol-
 17 lowing:

18 “(3) \$9,000,000 of the amount authorized to be
 19 appropriated for fiscal year 2001;

20 “(4) \$9,250,000 of the amount authorized to be
 21 appropriated for fiscal year 2002; and

22 “(5) \$9,500,000 of the amount authorized to be
 23 appropriated for fiscal year 2003,”.

24 (c) REAL-TIME SEISMIC HAZARD WARNING SYS-
 25 TEM.—Section 2(a)(7) of the Act entitled “An Act To au-

1 thorize appropriations for carrying out the Earthquake
 2 Hazards Reduction Act of 1977 for fiscal years 1998 and
 3 1999, and for other purposes (111 Stat. 1159; 42 U.S.C.
 4 7704 nt) is amended by striking “1999.” and inserting
 5 “1999, \$2,600,000 for fiscal year 2001, \$2,710,000 for
 6 fiscal year 2002, and \$2,825,000 for fiscal year 2003.”.

7 (d) NATIONAL SCIENCE FOUNDATION.—Section
 8 12(c) of the Earthquake Hazards Reduction Act of 1977
 9 (42 U.S.C. 7706(c)) is amended—

10 (1) by striking “1998, and” and inserting
 11 “1998,”; and

12 (2) by striking “1999.” and inserting “1999,
 13 and (5) \$19,000,000 for engineering research and
 14 \$11,900,000 for geosciences research for the fiscal
 15 year ending September 30, 2001. There are author-
 16 ized to be appropriated to the National Science
 17 Foundation \$19,808,000 for engineering research
 18 and \$12,406,000 for geosciences research for fiscal
 19 year 2002 and \$20,650,000 for engineering research
 20 and \$12,933,000 for geosciences research for fiscal
 21 year 2003.”.

22 (e) NATIONAL INSTITUTE OF STANDARDS AND
 23 TECHNOLOGY.—Section 12(d) of the Earthquake Hazards
 24 Reduction Act of 1977 (42 U.S.C. 7706(d)) is amended—

1 (1) by striking “1998, and”; and inserting
2 “1998,”; and

3 (2) by striking “1999.” and inserting “1999,
4 \$2,332,000 for fiscal year 2001, \$2,431,000 for fis-
5 cal year 2002, and \$2,534,300 for fiscal year
6 2003.”.

7 **SEC. 3. REPEALS.**

8 Section 10 and subsections (e) and (f) of section 12
9 of the Earthquake Hazards Reduction Act of 1977 (42
10 U.S.C. 7705d and 7706 (e) and (f)) are repealed.

11 **SEC. 4. ADVANCED NATIONAL SEISMIC RESEARCH AND**
12 **MONITORING SYSTEM.**

13 The Earthquake Hazards Reduction Act of 1977 (42
14 U.S.C. 7701 et seq.) is amended by adding at the end
15 the following new section:

16 **“SEC. 13. ADVANCED NATIONAL SEISMIC RESEARCH AND**
17 **MONITORING SYSTEM.**

18 “(a) ESTABLISHMENT.—The Director of the United
19 States Geological Survey shall establish and operate an
20 Advanced National Seismic Research and Monitoring Sys-
21 tem. The purpose of such system shall be to organize,
22 modernize, standardize, and stabilize the national, re-
23 gional, and urban seismic monitoring systems in the
24 United States, including sensors, recorders, and data anal-
25 ysis centers, into a coordinated system that will measure

1 and record the full range of frequencies and amplitudes
2 exhibited by seismic waves, in order to enhance earthquake
3 research and warning capabilities.

4 “(b) MANAGEMENT PLAN.—Not later than 90 days
5 after the date of the enactment of the Earthquake Haz-
6 ards Reduction Authorization Act of 2000, the Director
7 of the United States Geological Survey shall transmit to
8 the Congress a 5-year management plan for establishing
9 and operating the Advanced National Seismic Research
10 and Monitoring System. The plan shall include annual
11 cost estimates for both modernization and operation, mile-
12 stones, standards, and performance goals, as well as plans
13 for securing the participation of all existing networks in
14 the Advanced National Seismic Research and Monitoring
15 System and for establishing new, or enhancing existing,
16 partnerships to leverage resources.

17 “(c) AUTHORIZATION OF APPROPRIATIONS.—

18 “(1) EXPANSION AND MODERNIZATION.—In ad-
19 dition to amounts appropriated under section 12(b),
20 there are authorized to be appropriated to the Sec-
21 retary of the Interior, to be used by the Director of
22 the United States Geological Survey to establish the
23 Advanced National Seismic Research and Moni-
24 toring System—

25 “(A) \$33,500,000 for fiscal year 2002;

1 “(B) \$33,700,000 for fiscal year 2003;

2 “(C) \$35,100,000 for fiscal year 2004;

3 “(D) \$35,000,000 for fiscal year 2005;

4 and

5 “(E) \$33,500,000 for fiscal year 2006.

6 “(2) OPERATION.—In addition to amounts ap-
 7 propriated under section 12(b), there are authorized
 8 to be appropriated to the Secretary of the Interior,
 9 to be used by the Director of the United States Geo-
 10 logical Survey to operate the Advanced National
 11 Seismic Research and Monitoring System—

12 “(A) \$4,500,000 for fiscal year 2002; and

13 “(B) \$10,300,000 for fiscal year 2003.”.

14 **SEC. 5. NETWORK FOR EARTHQUAKE ENGINEERING SIM-**
 15 **ULATION.**

16 The Earthquake Hazards Reduction Act of 1977 (42
 17 U.S.C. 7701 et seq.) is amended by adding at the end
 18 the following new section:

19 **“SEC. 14. NETWORK FOR EARTHQUAKE ENGINEERING SIM-**
 20 **ULATION.**

21 “(a) ESTABLISHMENT.—The Director of the Na-
 22 tional Science Foundation shall establish the George E.
 23 Brown, Jr. Network for Earthquake Engineering Simula-
 24 tion that will upgrade, link, and integrate a system of geo-
 25 graphically distributed experimental facilities for earth-

1 quake engineering testing of full-sized structures and their
 2 components and partial-scale physical models. The system
 3 shall be integrated through networking software so that
 4 integrated models and databases can be used to create
 5 model-based simulation, and the components of the system
 6 shall be interconnected with a computer network and allow
 7 for remote access, information sharing, and collaborative
 8 research.

9 “(b) AUTHORIZATION OF APPROPRIATIONS.—In ad-
 10 dition to amounts appropriated under section 12(c), there
 11 are authorized to be appropriated \$28,200,000 for fiscal
 12 year 2001 for the Network for Earthquake Engineering
 13 Simulation. In addition to amounts appropriated under
 14 section 12(c), there are authorized to be appropriated to
 15 the National Science Foundation for the Network for
 16 Earthquake Engineering Simulation—

17 “(1) \$24,400,000 for fiscal year 2002;

18 “(2) \$4,500,000 for fiscal year 2003; and

19 “(3) \$17,000,000 for fiscal year 2004.”.

20 **SEC. 6. BUDGET COORDINATION.**

21 Section 5 of the Earthquake Hazards Reduction Act
 22 of 1977 (42 U.S.C. 7704) is amended—

23 (1) by striking subparagraph (A) of subsection

24 (b)(1) and redesignating subparagraphs (B) through

1 (F) of subsection (b)(1) as subparagraphs (A)
2 through (E), respectively;

3 (2) by striking “in this paragraph” in the last
4 sentence of paragraph (1) of subsection (b) and in-
5 serting “in subparagraph (E)”; and

6 (3) by adding at the end the following new sub-
7 section:

8 “(c) BUDGET COORDINATION.—

9 “(1) GUIDANCE.—The Agency shall each year
10 provide guidance to the other Program agencies con-
11 cerning the preparation of requests for appropria-
12 tions for activities related to the Program, and shall
13 prepare, in conjunction with the other Program
14 agencies, an annual Program budget to be submitted
15 to the Office of Management and Budget.

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

20 “(A) identifies each element of the pro-
21 posed Program activities of the agency;

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

1 “(C) states the portion of its request for
2 appropriations allocated to each element of the
3 Program.”.

4 **SEC. 7. REPORT ON AT-RISK POPULATIONS.**

5 Not later than one year after the date of the enact-
6 ment of this Act, and after a period for public comment,
7 the Director of the Federal Emergency Management
8 Agency shall transmit to the Congress a report describing
9 the elements of the Program that specifically address the
10 needs of at-risk populations, including the elderly, persons
11 with disabilities, non-English-speaking families, single-
12 parent households, and the poor. Such report shall also
13 identify additional actions that could be taken to address
14 those needs and make recommendations for any additional
15 legislative authority required to take such actions.

16 **SEC. 8. PUBLIC ACCESS TO EARTHQUAKE INFORMATION.**

17 Section 5(b)(2)(A)(ii) of the Earthquake Hazards
18 Reduction Act of 1977 (42 U.S.C. 7704(b)(2)(A)(ii)) is
19 amended by inserting “, and development of means of in-
20 creasing public access to available locality-specific infor-
21 mation that may assist the public in preparing for or re-
22 sponding to earthquakes” after “and the general public”.

1 **SEC. 9. LIFELINES.**

2 Section 4(6) of the Earthquake Hazards Reduction
3 Act of 1977 (42 U.S.C. 7703(6)) is amended by inserting
4 “and infrastructure” after “communication facilities”.

5 **SEC. 10. SCIENTIFIC EARTHQUAKE STUDIES ADVISORY**
6 **COMMITTEE.**

7 (a) **ESTABLISHMENT.**—The Director of the United
8 States Geological Survey shall establish a Scientific Earth-
9 quake Studies Advisory Committee.

10 (b) **ORGANIZATION.**—The Director shall establish
11 procedures for selection of individuals not employed by the
12 Federal Government who are qualified in the seismic
13 sciences and other appropriate fields and may, pursuant
14 to such procedures, select up to ten individuals, one of
15 whom shall be designated Chairman, to serve on the Advi-
16 sory Committee. Selection of individuals for the Advisory
17 Committee shall be based solely on established records of
18 distinguished service, and the Director shall ensure that
19 a reasonable cross-section of views and expertise is rep-
20 resented. In selecting individuals to serve on the Advisory
21 Committee, the Director shall seek and give due consider-
22 ation to recommendations from the National Academy of
23 Sciences, professional societies, and other appropriate or-
24 ganizations.

1 (c) MEETINGS.—The Advisory Committee shall meet
2 at such times and places as may be designated by the
3 Chairman in consultation with the Director.

4 (d) DUTIES.—The Advisory Committee shall advise
5 the Director on matters relating to the United States Geo-
6 logical Survey's participation in the National Earthquake
7 Hazards Reduction Program, including the United States
8 Geological Survey's roles, goals, and objectives within that
9 Program, its capabilities and research needs, guidance on
10 achieving major objectives, and establishing and meas-
11 uring performance goals. The Advisory Committee shall
12 issue an annual report to the Director for submission to
13 Congress on or before September 30 of each year. The
14 report shall describe the Advisory Committee's activities
15 and address policy issues or matters that affect the United
16 States Geological Survey's participation in the National
17 Earthquake Hazards Reduction Program.

Passed the Senate October 18 (legislative day, Sep-
tember 22), 2000.

Attest:

Secretary.

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To authorize appropriations for carrying out the Earthquake Hazards Reduction Act of 1977, for the National Weather Service and Related Agencies, and for the United States Fire Administration for fiscal years 2000, 2001, and 2002.