

Calendar No. 568

115TH CONGRESS
2D SESSION

S. 1768

[Report No. 115–336]

To reauthorize and amend the National Earthquake Hazards Reduction Program, and for other purposes.

IN THE SENATE OF THE UNITED STATES

SEPTEMBER 6, 2017

Mrs. FEINSTEIN (for herself, Ms. MURKOWSKI, Mr. GARDNER, Mrs. MURRAY, Mr. WYDEN, Ms. HARRIS, Mr. MERKLEY, Ms. CANTWELL, Mr. SULLIVAN, and Mr. HEINRICH) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

SEPTEMBER 6, 2018

Reported by Mr. THUNE, with an amendment

[Strike out all after the enacting clause and insert the part printed in *italic*]

A BILL

To reauthorize and amend the National Earthquake Hazards Reduction Program, and for other purposes.

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

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “National Earthquake
3 Hazards Reduction Program Reauthorization Act of
4 2017”.

5 **SEC. 2. MODIFICATION OF FINDINGS AND PURPOSE.**

6 (a) **FINDINGS.**—Section 2 of the Earthquake Haz-
7 ards Reduction Act of 1977 (42 U.S.C. 7701) is amend-
8 ed—

9 (1) in paragraph (1)—

10 (A) by inserting “Oregon,” after “New
11 York,”; and

12 (B) by inserting “Tennessee,” after
13 “South Carolina”;

14 (2) in paragraph (2), by striking “prediction
15 techniques and”;

16 (3) by striking paragraph (4) and inserting the
17 following:

18 “(4) A well-funded seismological research pro-
19 gram could provide the scientific understanding
20 needed to fully implement an effective earthquake
21 early warning system.”;

22 (4) in paragraphs (6) and (7), by striking “life-
23 lines” each place it appears and inserting “lifeline
24 infrastructure”; and

25 (5) by adding at the end the following:

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

8 “(13) The National Research Council published
 9 a study on reducing hazards and risks associated
 10 with earthquakes based on the goals and objectives
 11 for achieving national earthquake resilience de-
 12 scribed in the strategic plan entitled ‘Strategic Plan
 13 for the National Earthquake Hazards Reduction
 14 Program’. The study and an accompanying report
 15 called for work in 18 tasks focused on research, pre-
 16 paredness, and mitigation and annual funding of ap-
 17 proximately \$300,000,000 per year for 20 years.”.

18 (b) PURPOSE.—Section 3 of such Act (42 U.S.C.
 19 7702) is amended—

20 (1) in the matter preceding paragraph (1), in
 21 the first sentence, by inserting “and increase the re-
 22 silience of communities” after “future earthquakes”;

23 (2) in paragraph (1), by inserting “to individ-
 24 uals and the communities” after “an earthquake”;

1 (3) in paragraph (2), by striking “in time of
2 disaster” and inserting “to facilitate community-
3 wide post-earthquake recovery and in times of dis-
4 aster”;

5 (4) in paragraph (3), by striking “for predicting
6 damaging earthquakes and”;

7 (5) in paragraph (4), by inserting “and plan-
8 ning” after “model building”; and

9 (6) in paragraph (5), by striking “reconstruc-
10 tion” and inserting “re-occupancy, recovery, recon-
11 struction,”.

12 (c) DEFINITIONS.—

13 (1) LIFELINE INFRASTRUCTURE.—

14 (A) IN GENERAL.—Section 4(6) of such
15 Act (42 U.S.C. 7703(6)) is amended by striking
16 “lifelines” and inserting “lifeline infrastruc-
17 ture”.

18 (B) CONFORMING AMENDMENT.—Such Act
19 (42 U.S.C. 7701 et seq.) is amended by striking
20 “lifelines” each place it appears and inserting
21 “lifeline infrastructure”.

22 (2) COMMUNITY RESILIENCE.—Section 4 of
23 such Act (42 U.S.C. 7703) is amended by adding at
24 the end the following:

1 “(3) The term ‘community resilience’ means the
 2 ability of a community to prepare and plan for, ab-
 3 sorb, recover from, and more successfully adapt to
 4 adverse seismic events.”.

5 **SEC. 3. MODIFICATION OF NATIONAL EARTHQUAKE HAZ-**
 6 **ARDS REDUCTION PROGRAM.**

7 (a) MODIFICATION OF PROGRAM ACTIVITIES.—Sub-
 8 section (a)(2) of section 5 of the Earthquake Hazards Re-
 9 duction Act of 1977 (42 U.S.C. 7704) is amended—

10 (1) in subparagraph (B)—

11 (A) in clause (iii), by inserting “; commu-
 12 nity resilience,” after “seismic risk”; and

13 (B) by adding at the end the following:

14 “(iv) publishing a systematic set of
 15 maps of active faults and folds; lique-
 16 faction susceptibility; susceptibility for
 17 earthquake induced landslides; and other
 18 seismically induced hazards; and”; and

19 (2) in subparagraph (D), by striking “develop;
 20 operate” and all that follows through “7708),” and
 21 inserting “continue the development of the Advanced
 22 National Seismic System, including earthquake early
 23 warning capabilities”.

1 (b) AMENDMENTS RELATING TO INTERAGENCY CO-
 2 ORDINATING COMMITTEE ON EARTHQUAKE HAZARDS RE-
 3 DUCTION.—

4 (1) CLARIFICATION REGARDING MEMBER-
 5 SHIP.—Subparagraph (B) of subsection (a)(3) of
 6 such section is amended, in the matter preceding
 7 clause (i), by striking “The committee” and insert-
 8 ing “In addition to the Director, the committee”.

9 (2) REDUCTION IN MINIMUM FREQUENCY OF
 10 MEETINGS OF INTERAGENCY COORDINATING COM-
 11 MITTEE ON EARTHQUAKE HAZARDS REDUCTION.—
 12 Subparagraph (C) of such subsection is amended by
 13 striking “not less than 3 times a year” and inserting
 14 “not less frequently than once each year”.

15 (3) EXPANSION OF DUTIES.—Subparagraph
 16 (D) of such subsection is amended to read as fol-
 17 lows:

18 “(D) DUTIES.—

19 “(i) GENERAL DUTY.—The Inter-
 20 agency Coordinating Committee shall over-
 21 see the planning, management, and coordi-
 22 nation of the Program.

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

1 “(I) Developing, not later than 6
2 months after the date of the enact-
3 ment of the National Earthquake
4 Hazards Reduction Program Reau-
5 thorization Act of 2004 and updating
6 periodically—

7 “(aa) a strategic plan that
8 establishes goals and priorities
9 for the Program activities de-
10 scribed under subsection (a)(2);
11 and

12 “(bb) a detailed manage-
13 ment plan to implement such
14 strategic plan.

15 “(II) Developing a coordinated
16 interagency budget for the Program
17 that will ensure appropriate balance
18 among the Program activities de-
19 scribed under subsection (a)(2), and,
20 in accordance with the plans devel-
21 oped under subelause (I), submitting
22 such budget to the Director of the Of-
23 fice of Management and Budget at
24 the time designated by the Director

1 for agencies to submit biennial budg-
2 ets.

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

8 “(IV) Coordinating with the Ad-
9 ministrator of the National Aero-
10 nautics and Space Administration and
11 the Administrator of the National
12 Oceanic and Atmospheric Administra-
13 tion on data sharing and resource al-
14 location to ensure judicious use of
15 Government resources and the free-
16 flowing exchange of information re-
17 lated to earthquakes.

18 “(V) Coordinating with the Sec-
19 retary of Agriculture and the Sec-
20 retary of the Interior on the use of
21 public lands for earthquake moni-
22 toring and research stations, and re-
23 lated data collection.

24 “(VI) Coordinating with the Sec-
25 retary of Transportation and the Sec-

1 retary of Housing and Urban Devel-
 2 opment on the effects of earthquakes
 3 on transportation and housing stocks.

4 “(iii) ASSISTANCE FROM SECRETARY
 5 OF AGRICULTURE AND SECRETARY OF THE
 6 INTERIOR.—To the extent practicable, the
 7 Secretary of Agriculture and the Secretary
 8 of the Interior shall expedite any request
 9 for a permit to use public land under
 10 clause (ii)(V).”.

11 (4) REDUCTION IN FREQUENCY OF REPORTING
 12 BY INTERAGENCY COORDINATING COMMITTEE ON
 13 EARTHQUAKE HAZARDS REDUCTION.—

14 (A) IN GENERAL.—Subsection (a)(4) of
 15 such section is amended—

16 (i) in the paragraph heading, by strik-
 17 ing “ANNUAL” and inserting “BIENNIAL”;

18 (ii) by redesignating subparagraphs
 19 (A) through (F) as clauses (i) through (vi),
 20 respectively, and adjusting the indentation
 21 of the margin of such clauses, as so reded-
 22 ignated, two ems to the right;

23 (iii) in the matter preceding clause (i),
 24 as redesignated by clause (ii), by striking
 25 “The Interagency” and all that follows

1 through “Senate” and inserting the fol-
2 lowing:

3 “(A) IN GENERAL.—Not less frequently
4 than once every two years, the Interagency Co-
5 ordinating Committee shall submit to the Com-
6 mittee on Commerce, Science, and Transpor-
7 tation, the Committee on Energy and Natural
8 Resources, and the Committee on Homeland
9 Security and Governmental Affairs of the Sen-
10 ate and the Committee on Energy and Com-
11 merce, the Committee on Natural Resources,
12 and the Committee on Homeland Security of
13 the House of Representatives a report on the
14 Program”; and

15 (iv) by adding at the end the fol-
16 lowing:

17 “(B) SUPPORT FOR PREPARATION OF RE-
18 PORT.—Each head of a Program agency shall
19 submit to the Director of the National Institute
20 of Standards and Technology such information
21 as the Director may request for the preparation
22 of a report under subparagraph (A) not later
23 than 90 days after the date on which the Direc-
24 tor requests such information.”.

1 ~~(B) EFFECTIVE DATE.~~—The amendments
 2 made by subparagraph (A) shall take effect on
 3 the first day of the first fiscal year beginning
 4 after the date of the enactment of this Act.

5 ~~(c) MODIFICATION OF RESPONSIBILITIES OF NA-~~
 6 ~~TIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.—~~

7 Subsection (b) of such section is amended—

8 (1) in paragraph (1)—

9 (A) in subparagraph (A), by striking “and
 10 constructing,” and inserting “constructing,
 11 evaluating, and retrofitting”; and

12 (B) in subparagraph (D), by inserting
 13 “provide new and” after “research to”; and

14 (2) in paragraph (5), in the matter preceding
 15 subparagraph (A), in the first sentence, by inserting
 16 “community resilience through” after “improve”.

17 ~~(d) MODIFICATION OF RESPONSIBILITIES OF FED-~~
 18 ~~ERAL EMERGENCY MANAGEMENT AGENCY.—~~Paragraph
 19 (2) of subsection (b) of such section is amended to read
 20 as follows:

21 ~~“(2) DEPARTMENT OF HOMELAND SECURITY;~~
 22 ~~FEDERAL EMERGENCY MANAGEMENT AGENCY.—~~

23 ~~“(A) PROGRAM RESPONSIBILITIES.—~~The
 24 Administrator of the Federal Emergency Man-
 25 agement Agency—

1 “(i) shall operate a program of grants
2 and assistance to enable States to develop
3 mitigation, preparedness, and response
4 plans, purchase necessary instrumentation,
5 prepare inventories and conduct seismic
6 safety inspections of critical structures and
7 lifelines, update building, land use plan-
8 ning, and zoning codes and ordinances to
9 enhance seismic safety, increase earth-
10 quake awareness and education, and pro-
11 vide assistance to multi-State groups for
12 such purposes;

13 “(ii) shall support the implementation
14 of a comprehensive earthquake education,
15 outreach, and public awareness program,
16 including development of materials and
17 their wide dissemination to all appropriate
18 audiences and support public access to lo-
19 cality-specific information that may assist
20 the public in preparing for, mitigating
21 against, responding to and recovering from
22 earthquakes and related disasters;

23 “(iii) shall, in conjunction with the
24 Director of the National Institute of
25 Standards and Technology, other Federal

1 agencies, and private sector groups, use re-
2 search results to support the preparation,
3 maintenance, and wide dissemination of
4 seismic resistant design guidance and re-
5 lated information on building codes, stand-
6 ards, and practices for new and existing
7 buildings, structures, and lifelines, aid in
8 the development of performance-based de-
9 sign guidelines and methodologies, and
10 support model codes that are cost effective
11 and affordable in order to promote better
12 practices within the design and construc-
13 tion industry and reduce losses from earth-
14 quakes;

15 “(iv) shall enter into cooperative
16 agreements or contracts with States and
17 local jurisdictions and other Federal agen-
18 cies to establish demonstration projects on
19 earthquake hazard mitigation, to link
20 earthquake research and mitigation efforts
21 with emergency management programs, or
22 to prepare educational materials for na-
23 tional distribution; and

24 “(v) shall support the Director of the
25 National Institute of Standards and Tech-

1 nology in the completion of programmatic
2 goals.

3 “(B) STATE ASSISTANCE PROGRAM CRI-
4 TERIA.—In order to qualify for assistance
5 under subparagraph (A)(i), a State must—

6 “(i) demonstrate that the assistance
7 will result in enhanced seismic safety in
8 the State;

9 “(ii) provide 25 percent of the costs of
10 the activities for which assistance is being
11 given; except that the Administrator may
12 lower or waive the cost-share requirement
13 for these activities in exceptional cases of
14 economic hardship; and

15 “(iii) meet such other requirements as
16 the Administrator shall prescribe.”

17 (e) MODIFICATION OF RESPONSIBILITIES OF UNITED
18 STATES GEOLOGICAL SURVEY.—Subsection (b)(3) of such
19 section is amended—

20 (1) in the matter preceding subparagraph (A),
21 in the first sentence—

22 (A) by inserting “report on significant do-
23 mestic and international earthquakes and” after
24 “Survey shall”; and

1 (B) by striking “predictions.” and insert-
 2 ing “forecasts.”;

3 (2) in subparagraph (C), by striking “pre-
 4 dictions, including aftershock advisories” and insert-
 5 ing “alerts and early warnings”;

6 (3) by striking subparagraph (D) and inserting
 7 the following:

8 “(D) issue when necessary and feasible,
 9 and notify the Administrator of the Federal
 10 Emergency Management Agency, the Director
 11 of the National Institute of Standards and
 12 Technology, and State and local officials, an
 13 alert and an earthquake warning.”;

14 (4) in subparagraph (E), in the matter pre-
 15 ceding clause (i), by striking “using” and inserting
 16 “including”;

17 (5) in subparagraph (I), by striking “; and”
 18 and inserting a semicolon;

19 (6) in subparagraph (J)—

20 (A) by inserting “and data” after “hazard
 21 maps”; and

22 (B) by striking the period at the end and
 23 inserting “; and”; and

24 (7) by adding at the end the following:

1 “(K) support the Director of the National
2 Institute of Standards and Technology in the
3 completion of programmatic goals.”.

4 (f) MODIFICATION OF RESPONSIBILITIES OF NA-
5 TIONAL SCIENCE FOUNDATION.—Subsection (b)(4) of
6 such section is amended—

7 (1) in subparagraph (B), by inserting “, State
8 agencies, State geological surveys,”;

9 (2) in subparagraph (C), by inserting “to sup-
10 port applied science in the production of a system-
11 atic series of earthquake-related geologic hazard
12 maps, and” after “Survey”;

13 (3) in subparagraph (D), by striking “George
14 E. Brown Jr. Network for Earthquake Engineering
15 and Simulation” and inserting “Natural Hazards
16 Engineering Research Infrastructure”;

17 (4) in subparagraph (G), by striking “; and”
18 and inserting a semicolon;

19 (5) in subparagraph (H), by striking the period
20 at the end and inserting “; and”;

21 (6) by adding at the end the following:

22 “(I) support the Director of the National
23 Institute of Standards and Technology in the
24 completion of programmatic goals.”;

(7) by redesignating subparagraphs (A) through (I) as clauses (i) through (ix), respectively, and indenting such clauses accordingly;

(8) in the matter before clause (i), as redesignated by paragraph (7), in the first sentence, by striking “The National Science Foundation” and inserting the following:

“(A) IN GENERAL.—The National Science Foundation”; and

(9) by adding at the end the following:

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

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

“(ii) 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.”.

1 **SEC. 4. REVIEW OF RISKS POSED BY EARTHQUAKES TO**
2 **THE UNITED STATES.**

3 (a) **IN GENERAL.**—As soon as practicable, but not
4 later than such date as is necessary for the Comptroller
5 General of the United States to submit the report required
6 by subsection (c) in accordance with such subsection, the
7 Comptroller General shall complete a review of risks posed
8 by earthquakes to the United States.

9 (b) **ELEMENTS.**—The review conducted under sub-
10 section (a) shall include the following:

11 (1) A comprehensive assessment of—

12 (A) the risks and hazards to the United
13 States posed by earthquakes, including risks
14 and hazards resulting from tsunamis and land-
15 slides that are generated by earthquakes;

16 (B) the efforts of the Federal Emergency
17 Management Agency and the National Institute
18 of Standards and Technology to improve the re-
19 silience of the United States to earthquakes and
20 to identify important gaps in the resilience of
21 the United States to earthquakes;

22 (C) the progress made by the National In-
23 stitute of Standards and Technology and the
24 Interagency Coordinating Committee to coordi-
25 nate effectively the budget and activities of the
26 Program agencies (as defined in section 4 of

1 the Earthquake Hazards Reduction Act of 1977
2 (42 U.S.C. 7703)) in advancing the plans and
3 goals of the National Earthquake Hazards Re-
4 duction Program and how coordination among
5 the Program agencies can be improved;

6 (D) the extent to which the Federal Gov-
7 ernment, States, local, and tribal governments,
8 and the private sector are already implementing
9 strategies to improve resilience of the United
10 States to earthquakes; and

11 (E) the extent to which the research done
12 during the 40 years of the Program has been
13 applied to both public and private earthquake
14 risk and hazards reduction.

15 (2) Identification of such legislative or adminis-
16 trative action as may be appropriate to improve the
17 Program and the resilience of the United States to
18 earthquakes.

19 (c) REPORT.—As soon as practicable, but not later
20 than 3 years after the date of the enactment of this Act,
21 the Comptroller General shall submit to the Committee
22 on Commerce, Science, and Transportation, the Com-
23 mittee on Energy and Natural Resources, and the Com-
24 mittee on Homeland Security and Governmental Affairs
25 of the Senate and the Committee on Energy and Com-

1 merce, the Committee on Natural Resources, and the
 2 Committee on Homeland Security of the House of Rep-
 3 resentatives a report on the findings of the Comptroller
 4 General with respect to the review completed under sub-
 5 section (a).

6 **SEC. 5. SEISMIC STANDARDS.**

7 Section 8 of the Earthquake Hazards Reduction Act
 8 of 1977 (42 U.S.C. 7705b) is amended to read as follows:

9 **“SEC. 8. SEISMIC STANDARDS.**

10 **“(a) ASSESSMENT AND RECOMMENDATIONS.—**Not
 11 later than December 1, 2019, the Director of the National
 12 Institute of Standards and Technology and the Adminis-
 13 trator of the Federal Emergency Management Agency
 14 shall jointly convene a committee of experts from Federal
 15 agencies, nongovernmental organizations, private sector
 16 entities, disaster management professional associations,
 17 engineering professional associations, and professional
 18 construction and homebuilding industry associations, to
 19 assess and recommend options for improving the built en-
 20 vironment and critical infrastructure to reflect perform-
 21 ance goals stated in terms of post-earthquake reoccupancy
 22 and functional recovery time.

23 **“(b) REPORT TO CONGRESS.—**Not later than June
 24 30, 2020, the committee convened under paragraph (1)
 25 shall submit to Congress a report on recommended options

1 for improving the built environment and critical infra-
 2 structure to reflect performance goals stated in terms of
 3 post-earthquake reoccupancy and functional recovery
 4 time.”.

5 **SEC. 6. MANAGEMENT PLAN FOR ADVANCED NATIONAL**
 6 **SEISMIC SYSTEM.**

7 (a) **PLAN REQUIRED.**—Not later than 1 year after
 8 the date of the enactment of this Act, the United States
 9 Geological Survey shall submit to Congress a 5-year man-
 10 agement plan for the continued operation of the Advanced
 11 National Seismic System.

12 (b) **ELEMENTS.**—The plan required by subsection (a)
 13 shall include the following:

14 (1) Strategies to continue the development of
 15 an earthquake early warning system.

16 (2) A mechanism for securing the participation
 17 of State and regional level earthquake monitoring
 18 entities, including those defunded by the Advanced
 19 National Seismic System in the last five years.

20 (3) A plan to encourage and support the inte-
 21 gration of geospatial data products into earthquake
 22 monitoring in regions experiencing large earth-
 23 quakes.

24 (4) A plan to ensure that there is an active,
 25 geographically diverse, management and advisory

1 structure for the Advanced National Seismic Sys-
 2 tem.

3 **SEC. 7. REPEAL OF EXPIRED AUTHORIZATIONS.**

4 Section 12 of the Earthquake Hazards Reduction Act
 5 of 1977 (42 U.S.C. 7706) is hereby repealed.

6 **SEC. 8. TECHNICAL CORRECTIONS.**

7 (a) CORRECTION OF TITLE OF ADMINISTRATOR OF
 8 THE FEDERAL EMERGENCY MANAGEMENT AGENCY.—
 9 The Earthquake Hazards Reduction Act of 1977 (42
 10 U.S.C. 7701 et seq.) is amended—

11 (1) in section 5 of the Earthquake Hazards Re-
 12 duction Act of 1977 (42 U.S.C. 7704)—

13 (A) in subsection (a)(3)(B), as amended by
 14 section 3(b)(1)—

15 (i) in the matter preceding clause (i),
 16 by striking “the directors of”;

17 (ii) in clause (i), by inserting “the Ad-
 18 ministrator of” before “the”; and

19 (iii) in clauses (ii) through (v), by in-
 20 serting “the Director of” before “the” each
 21 place it appears; and

22 (B) in subsection (b)(3)(C), as amended by
 23 section 3(e), by striking “Director of the Fed-
 24 eral” and inserting “Administrator of the Fed-
 25 eral”; and

1 (2) in section 9 of such Act (42 U.S.C. 7705e);
 2 by striking “Director of the Agency” and inserting
 3 “Administrator of the Federal Emergency Manage-
 4 ment Agency” each place it appears.

5 (b) REFERENCES TO THE ADVANCED NATIONAL
 6 SEISMIC SYSTEM.—Such Act is amended—

7 (1) in section 13, in the section heading, by
 8 striking “**ADVANCED NATIONAL SEISMIC RE-**
 9 **SEARCH AND MONITORING SYSTEM**” and insert-
 10 ing “**ADVANCED NATIONAL SEISMIC SYSTEM**”;
 11 and

12 (2) by striking “Advanced National Seismic Re-
 13 search and Monitoring System” each place it ap-
 14 pears and inserting “Advanced National Seismic
 15 System”.

16 (c) INCORRECT CROSS-REFERENCES.—Paragraph
 17 (4) of section 5(a) of such Act (42 U.S.C. 7704(a)), as
 18 amended by section 3(b)(4)(A), is amended—

19 (1) in clauses (i) and (ii) of subparagraph (A),
 20 as redesignated by section 3(b)(4)(A), by striking
 21 “subparagraph (3)(A)” both places it appears and
 22 inserting “paragraph (3)(D)(i)(I)”; and

23 (2) in clause (iii), as redesignated, by striking
 24 “under (3)(A)” and inserting “under paragraph
 25 (3)(D)(i)(I)”.

1 **SECTION 1. SHORT TITLE.**

2 *This Act may be cited as the “National Earthquake*
 3 *Hazards Reduction Program Reauthorization Act of 2017”.*

4 **SEC. 2. MODIFICATION OF FINDINGS AND PURPOSE.**

5 (a) *FINDINGS.*—Section 2 of the *Earthquake Hazards*
 6 *Reduction Act of 1977* (42 U.S.C. 7701) is amended—

7 (1) *in paragraph (1)—*

8 (A) *by inserting “Oregon,” after “New*
 9 *York,”; and*

10 (B) *by inserting “Tennessee,” after “South*
 11 *Carolina”;*

12 (2) *in paragraph (2), by striking “prediction*
 13 *techniques and”;*

14 (3) *by striking paragraph (4) and inserting the*
 15 *following:*

16 “(4) *A well-funded seismological research pro-*
 17 *gram could provide the scientific understanding need-*
 18 *ed to fully implement an effective earthquake early*
 19 *warning system.”;*

20 (4) *in paragraphs (6) and (7), by striking “life-*
 21 *lines” each place it appears and inserting “lifeline*
 22 *infrastructure”;* and

23 (5) *by adding at the end the following:*

24 “(12) *The built environment has generally been*
 25 *constructed and maintained to meet the needs of the*
 26 *users under normal conditions. When earthquakes*

1 *occur, the built environment is generally designed to*
 2 *prevent severe injuries or loss of human life and is*
 3 *not expected to remain operational or able to recover*
 4 *under any specified schedule.*

5 *“(13) The National Research Council published a*
 6 *study on reducing hazards and risks associated with*
 7 *earthquakes based on the goals and objectives for*
 8 *achieving national earthquake resilience described in*
 9 *the strategic plan entitled ‘Strategic Plan for the Na-*
 10 *tional Earthquake Hazards Reduction Program’. The*
 11 *study and an accompanying report called for work in*
 12 *18 tasks focused on research, preparedness, and miti-*
 13 *gation and annual funding of approximately*
 14 *\$300,000,000 per year for 20 years.”.*

15 *(b) PURPOSE.—Section 3 of such Act (42 U.S.C. 7702)*
 16 *is amended—*

17 *(1) in the matter preceding paragraph (1), in*
 18 *the first sentence, by inserting “and increase the resil-*
 19 *ience of communities” after “future earthquakes”;*

20 *(2) in paragraph (1), by inserting “to individ-*
 21 *uals and the communities” after “an earthquake”;*

22 *(3) in paragraph (2), by striking “in time of*
 23 *disaster” and inserting “to facilitate community-wide*
 24 *post-earthquake recovery and in times of disaster”;*

(4) in paragraph (3), by striking “for predicting damaging earthquakes and”;

(5) in paragraph (4), by inserting “and planning” after “model building”; and

(6) in paragraph (5), by striking “reconstruction” and inserting “re-occupancy, recovery, reconstruction,”.

(c) *DEFINITIONS.*—

(1) *LIFELINE INFRASTRUCTURE.*—

(A) *IN GENERAL.*—Section 4(6) of such Act (42 U.S.C. 7703(6)) is amended by striking “lifelines” and inserting “lifeline infrastructure”.

(B) *CONFORMING AMENDMENT.*—Such Act (42 U.S.C. 7701 et seq.) is amended by striking “lifelines” each place it appears and inserting “lifeline infrastructure”.

(2) *COMMUNITY RESILIENCE.*—Section 4 of such Act (42 U.S.C. 7703) is amended by adding at the end the following:

“(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.”.

1 **SEC. 3. MODIFICATION OF NATIONAL EARTHQUAKE HAZ-**
 2 **ARDS REDUCTION PROGRAM.**

3 (a) *MODIFICATION OF PROGRAM ACTIVITIES.*—Sub-
 4 section (a)(2) of section 5 of the Earthquake Hazards Re-
 5 duction Act of 1977 (42 U.S.C. 7704) is amended—

6 (1) in subparagraph (B)—

7 (A) in clause (iii), by inserting “, commu-
 8 nity resilience,” after “seismic risk”; and

9 (B) by adding at the end the following:

10 “(iv) publishing a systematic set of
 11 maps of active faults and folds, liquefaction
 12 susceptibility, susceptibility for earthquake
 13 induced landslides, and other seismically
 14 induced hazards; and”;

15 (2) in subparagraph (D), by striking “develop,
 16 operate” and all that follows through “7708),” and
 17 inserting “continue the development of the Advanced
 18 National Seismic System, including earthquake early
 19 warning capabilities”.

20 (b) *AMENDMENTS RELATING TO INTERAGENCY CO-*
 21 *ORDINATING COMMITTEE ON EARTHQUAKE HAZARDS RE-*
 22 *DUCTION.*—

23 (1) *CLARIFICATION REGARDING MEMBERSHIP.*—

24 Subparagraph (B) of subsection (a)(3) of such section
 25 is amended, in the matter preceding clause (i), by

1 striking “The committee” and inserting “In addition
2 to the Director, the committee”.

3 (2) *REDUCTION IN MINIMUM FREQUENCY OF*
4 *MEETINGS OF INTERAGENCY COORDINATING COM-*
5 *MITTEE ON EARTHQUAKE HAZARDS REDUCTION.*—
6 Subparagraph (C) of such subsection is amended by
7 striking “not less than 3 times a year” and inserting
8 “not less frequently than once each year”.

9 (3) *EXPANSION OF DUTIES.*—Subparagraph (D)
10 of such subsection is amended to read as follows:

11 “(D) *DUTIES.*—

12 “(i) *GENERAL DUTY.*—The Interagency
13 Coordinating Committee shall oversee the
14 planning, management, and coordination of
15 the Program.

16 “(ii) *SPECIFIC DUTIES.*—The duties of
17 the Interagency Coordinating Committee in-
18 clude the following:

19 “(I) *Developing, not later than 6*
20 *months after the date of the enactment*
21 *of the National Earthquake Hazards*
22 *Reduction Program Reauthorization*
23 *Act of 2004 and updating periodi-*
24 *cally—*

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

5 “(bb) a detailed management
6 plan to implement such strategic
7 plan.

8 “(II) Developing a coordinated
9 interagency budget for the Program
10 that will ensure appropriate balance
11 among the Program activities described
12 under subsection (a)(2), and, in ac-
13 cordance with the plans developed
14 under subclause (I), submitting such
15 budget to the Director of the Office of
16 Management and Budget at the time
17 designated by the Director for agencies
18 to submit biennial budgets.

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

24 “(IV) Coordinating with the Ad-
25 ministrator of the National Aero-

1 *navitics and Space Administration and*
 2 *the Administrator of the National Oce-*
 3 *anic and Atmospheric Administration*
 4 *on data sharing and resource alloca-*
 5 *tion to ensure judicious use of Govern-*
 6 *ment resources and the free-flowing ex-*
 7 *change of information related to earth-*
 8 *quakes.*

9 “(V) *Coordinating with the Sec-*
 10 *retary of Agriculture and the Secretary*
 11 *of the Interior on the use of public*
 12 *lands for earthquake monitoring and*
 13 *research stations, and related data col-*
 14 *lection.*

15 “(VI) *Coordinating with the Sec-*
 16 *retary of Transportation and the Sec-*
 17 *retary of Housing and Urban Develop-*
 18 *ment on the effects of earthquakes on*
 19 *transportation and housing stocks.*

20 “(iii) *ASSISTANCE FROM SECRETARY*
 21 *OF AGRICULTURE AND SECRETARY OF THE*
 22 *INTERIOR.—To the extent practicable, the*
 23 *Secretary of Agriculture and the Secretary*
 24 *of the Interior shall expedite any request for*

1 *a permit to use public land under clause*
 2 *(ii)(V).”.*

3 *(4) REDUCTION IN FREQUENCY OF REPORTING*
 4 *BY INTERAGENCY COORDINATING COMMITTEE ON*
 5 *EARTHQUAKE HAZARDS REDUCTION.—*

6 *(A) IN GENERAL.—Subsection (a)(4) of such*
 7 *section is amended—*

8 *(i) in the paragraph heading, by strik-*
 9 *ing “ANNUAL” and inserting “BIENNIAL”;*

10 *(ii) by redesignating subparagraphs*
 11 *(A) through (F) as clauses (i) through (vi),*
 12 *respectively, and adjusting the indentation*
 13 *of the margin of such clauses, as so redesign-*
 14 *ated, two ems to the right;*

15 *(iii) in clause (v), as redesignated, by*
 16 *striking “; and” and inserting a semicolon;*

17 *(iv) in clause (vi), as redesignated, by*
 18 *striking the period at the end and inserting*
 19 *“; and”;*

20 *(v) by inserting after clause (vi), as re-*
 21 *designated, the following:*

22 *“(vii) a statement regarding whether*
 23 *the Administrator of the Federal Emergency*
 24 *Management Agency has lowered or waived*

1 the cost share requirement for assistance
2 provided under subsection (b)(2)(A)(i).”;

3 (vi) in the matter preceding clause (i),
4 as redesignated, by striking “The Inter-
5 agency” and all that follows through “Sen-
6 ate” and inserting the following:

7 “(A) *IN GENERAL*.—Not less frequently than
8 once every two years, the Interagency Coordi-
9 nating Committee shall submit to the Committee
10 on Commerce, Science, and Transportation, the
11 Committee on Energy and Natural Resources,
12 and the Committee on Homeland Security and
13 Governmental Affairs of the Senate and the
14 Committee on Energy and Commerce, the Com-
15 mittee on Natural Resources, and the Committee
16 on Homeland Security of the House of Rep-
17 resentatives a report on the Program”; and

18 (vii) by adding at the end the fol-
19 lowing:

20 “(B) *SUPPORT FOR PREPARATION OF RE-*
21 *PORT*.—Each head of a Program agency shall
22 submit to the Director of the National Institute
23 of Standards and Technology such information
24 as the Director may request for the preparation
25 of a report under subparagraph (A) not later

1 *than 90 days after the date on which the Direc-*
 2 *tor requests such information.”.*

3 *(B) EFFECTIVE DATE.—The amendments*
 4 *made by subparagraph (A) shall take effect on*
 5 *the first day of the first fiscal year beginning*
 6 *after the date of the enactment of this Act.*

7 *(c) MODIFICATION OF RESPONSIBILITIES OF NATIONAL*
 8 *INSTITUTE OF STANDARDS AND TECHNOLOGY.—Subsection*
 9 *(b) of such section is amended—*

10 *(1) in paragraph (1)—*

11 *(A) in subparagraph (A), by striking “and*
 12 *constructing,” and inserting “constructing, eval-*
 13 *uating, and retrofitting”; and*

14 *(B) in subparagraph (D), by inserting*
 15 *“provide new and” after “research to”; and*

16 *(2) in paragraph (5), in the matter preceding*
 17 *subparagraph (A), in the first sentence, by inserting*
 18 *“community resilience through” after “improve”.*

19 *(d) MODIFICATION OF RESPONSIBILITIES OF FEDERAL*
 20 *EMERGENCY MANAGEMENT AGENCY.—Paragraph (2) of*
 21 *subsection (b) of such section is amended to read as follows:*

22 *“(2) DEPARTMENT OF HOMELAND SECURITY;*
 23 *FEDERAL EMERGENCY MANAGEMENT AGENCY.—*

1 “(A) *PROGRAM RESPONSIBILITIES.*—*The*
2 *Administrator of the Federal Emergency Man-*
3 *agement Agency*—

4 “(i) *shall operate a program of grants*
5 *and assistance to enable States to develop*
6 *mitigation, preparedness, and response*
7 *plans, purchase necessary instrumentation,*
8 *prepare inventories and conduct seismic*
9 *safety inspections of critical structures and*
10 *lifelines, update building, land use plan-*
11 *ning, and zoning codes and ordinances to*
12 *enhance seismic safety, increase earthquake*
13 *awareness and education, and provide as-*
14 *sistance to multi-State groups for such pur-*
15 *poses;*

16 “(ii) *shall support the implementation*
17 *of a comprehensive earthquake education,*
18 *outreach, and public awareness program,*
19 *including development of materials and*
20 *their wide dissemination to all appropriate*
21 *audiences and support public access to lo-*
22 *cality-specific information that may assist*
23 *the public in preparing for, mitigating*
24 *against, responding to and recovering from*
25 *earthquakes and related disasters;*

1 “(iii) shall, in conjunction with the
2 *Director of the National Institute of Stand-*
3 *ards and Technology, other Federal agen-*
4 *cies, and private sector groups, use research*
5 *results to support the preparation, mainte-*
6 *nance, and wide dissemination of seismic*
7 *resistant design guidance and related infor-*
8 *mation on building codes, standards, and*
9 *practices for new and existing buildings,*
10 *structures, and lifelines, aid in the develop-*
11 *ment of performance-based design guidelines*
12 *and methodologies, and support model codes*
13 *that are cost effective and affordable in*
14 *order to promote better practices within the*
15 *design and construction industry and re-*
16 *duce losses from earthquakes;*

17 “(iv) shall enter into cooperative agree-
18 *ments or contracts with States and local ju-*
19 *risdictions and other Federal agencies to es-*
20 *tablish demonstration projects on earth-*
21 *quake hazard mitigation, to link earthquake*
22 *research and mitigation efforts with emer-*
23 *gency management programs, or to prepare*
24 *educational materials for national distribu-*
25 *tion; and*

1 “(v) shall support the Director of the
 2 National Institute of Standards and Tech-
 3 nology in the completion of programmatic
 4 goals.

5 “(B) STATE ASSISTANCE PROGRAM CRI-
 6 TERIA.—In order to qualify for assistance under
 7 subparagraph (A)(i), a State must—

8 “(i) demonstrate that the assistance
 9 will result in enhanced seismic safety in the
 10 State;

11 “(ii) provide 25 percent of the costs of
 12 the activities for which assistance is being
 13 given, except that the Administrator may
 14 lower or waive the cost-share requirement
 15 for these activities for a small impoverished
 16 community, as defined in section 203 of the
 17 Disaster Relief Act of 1974 (42 U.S.C.
 18 5133(a)); and

19 “(iii) meet such other requirements as
 20 the Administrator shall prescribe.”.

21 (e) MODIFICATION OF RESPONSIBILITIES OF UNITED
 22 STATES GEOLOGICAL SURVEY.—Subsection (b)(3) of such
 23 section is amended—

24 (1) in the matter preceding subparagraph (A), in
 25 the first sentence—

1 (A) by inserting “report on significant do-
 2 mestic and international earthquakes and” after
 3 “Survey shall”; and

4 (B) by striking “predictions.” and inserting
 5 “forecasts.”;

6 (2) in subparagraph (C), by striking “pre-
 7 dictions, including aftershock advisories” and insert-
 8 ing “alerts and early warnings”;

9 (3) by striking subparagraph (D) and inserting
 10 the following:

11 “(D) issue when necessary and feasible, and
 12 notify the Administrator of the Federal Emer-
 13 gency Management Agency, the Director of the
 14 National Institute of Standards and Technology,
 15 and State and local officials, an alert and an
 16 earthquake warning;”;

17 (4) in subparagraph (E), in the matter pre-
 18 ceding clause (i), by striking “using” and inserting
 19 “including”;

20 (5) in subparagraph (I), by striking “; and” and
 21 inserting a semicolon;

22 (6) in subparagraph (J)—

23 (A) by inserting “and data” after “hazard
 24 maps”; and

1 (B) by striking the period at the end and
 2 inserting “; and”; and

3 (7) by adding at the end the following:

4 “(K) support the Director of the National
 5 Institute of Standards and Technology in the
 6 completion of programmatic goals.”.

7 (f) *MODIFICATION OF RESPONSIBILITIES OF NATIONAL*
 8 *SCIENCE FOUNDATION*.—Subsection (b)(4) of such section
 9 is amended—

10 (1) in subparagraph (B), by inserting “, State
 11 agencies, State geological surveys,” after “consortia”;

12 (2) in subparagraph (C), by inserting “to sup-
 13 port applied science in the production of a systematic
 14 series of earthquake-related geologic hazard maps,
 15 and” after “Survey”;

16 (3) in subparagraph (D), by striking “large-scale
 17 experimental and computational facilities of the
 18 George E. Brown Jr. Network for Earthquake Engi-
 19 neering Simulation and other institutions engaged in
 20 research and the implementation of the National
 21 Earthquake Hazards Reduction Program” and insert-
 22 ing “experimental and computational facilities”;

23 (4) in subparagraph (G), by striking “; and”
 24 and inserting a semicolon;

(5) in subparagraph (H), by striking the period at the end and inserting “; and”;

(6) by adding at the end the following:

“(I) support the Director of the National Institute of Standards and Technology in the completion of programmatic goals.”;

(7) by redesignating subparagraphs (A) through (I) as clauses (i) through (ix), respectively, and indenting such clauses accordingly;

(8) in the matter before clause (i), as redesignated by paragraph (7), in the first sentence, by striking “The National Science Foundation” and inserting the following:

“(A) IN GENERAL.—The National Science Foundation”; and

(9) by adding at the end the following:

“(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

1 “(iii) not less frequently than once
 2 every 2 years, submit to the director of the
 3 Program a report specifying the amount of
 4 Federal funds awarded to conduct research
 5 that enhances the understanding of earth-
 6 quake science.”.

7 **SEC. 4. REVIEW OF RISKS POSED BY EARTHQUAKES TO THE**
 8 **UNITED STATES.**

9 (a) *IN GENERAL.*—As soon as practicable, but not
 10 later than such date as is necessary for the Comptroller
 11 General of the United States to submit the report required
 12 by subsection (c) in accordance with such subsection, the
 13 Comptroller General shall complete a review of risks posed
 14 by earthquakes to the United States.

15 (b) *ELEMENTS.*—The review conducted under sub-
 16 section (a) shall include the following:

17 (1) *A comprehensive assessment of—*

18 (A) *the risks and hazards to the United*
 19 *States posed by earthquakes, including risks and*
 20 *hazards resulting from tsunamis and landslides*
 21 *that are generated by earthquakes;*

22 (B) *the efforts of the Federal Emergency*
 23 *Management Agency and the National Institute*
 24 *of Standards and Technology to improve the re-*
 25 *silience of the United States to earthquakes and*

1 to identify important gaps in the resilience of
2 the United States to earthquakes;

3 (C) the progress made by the National In-
4 stitute of Standards and Technology and the
5 Interagency Coordinating Committee to coordi-
6 nate effectively the budget and activities of the
7 Program agencies (as defined in section 4 of the
8 Earthquake Hazards Reduction Act of 1977 (42
9 U.S.C. 7703)) in advancing the plans and goals
10 of the National Earthquake Hazards Reduction
11 Program and how coordination among the Pro-
12 gram agencies can be improved;

13 (D) the extent to which the Federal Govern-
14 ment, States, local, and tribal governments, and
15 the private sector are already implementing
16 strategies to improve resilience of the United
17 States to earthquakes; and

18 (E) the extent to which the research done
19 during the 40 years of the Program has been ap-
20 plied to both public and private earthquake risk
21 and hazards reduction.

22 (2) Identification of such legislative or adminis-
23 trative action as may be appropriate to improve the
24 Program and the resilience of the United States to
25 earthquakes.

1 (c) *REPORT.*—As soon as practicable, but not later
 2 than 3 years after the date of the enactment of this Act,
 3 the Comptroller General shall submit to the Committee on
 4 Commerce, Science, and Transportation, the Committee on
 5 Energy and Natural Resources, and the Committee on
 6 Homeland Security and Governmental Affairs of the Senate
 7 and the Committee on Science, Space, and Technology, the
 8 Committee on Natural Resources, and the Committee on
 9 Homeland Security of the House of Representatives a report
 10 on the findings of the Comptroller General with respect to
 11 the review completed under subsection (a).

12 **SEC. 5. SEISMIC STANDARDS.**

13 Section 8 of the *Earthquake Hazards Reduction Act*
 14 of 1977 (42 U.S.C. 7705b) is amended to read as follows:

15 **“SEC. 8. SEISMIC STANDARDS.**

16 “(a) *ASSESSMENT AND RECOMMENDATIONS.*—Not
 17 later than December 1, 2019, the Director of the National
 18 Institute of Standards and Technology and the Adminis-
 19 trator of the Federal Emergency Management Agency shall
 20 jointly convene a committee of experts from Federal agen-
 21 cies, nongovernmental organizations, private sector entities,
 22 disaster management professional associations, engineering
 23 professional associations, and professional construction and
 24 homebuilding industry associations, to assess and rec-
 25 ommend options for improving the built environment and

1 *critical infrastructure to reflect performance goals stated in*
 2 *terms of post-earthquake reoccupancy and functional recov-*
 3 *ery time.*

4 “(b) *REPORT TO CONGRESS.*—Not later than June 30,
 5 2020, the committee convened under paragraph (1) shall
 6 submit to the Committee on Commerce, Science, and Trans-
 7 portation, the Committee on Energy and Natural Re-
 8 sources, and the Committee on Homeland Security and
 9 Governmental Affairs of the Senate and the Committee on
 10 Science, Space, and Technology, the Committee on Natural
 11 Resources, and the Committee on Homeland Security of the
 12 House of Representatives a report on recommended options
 13 for improving the built environment and critical infrastruc-
 14 ture to reflect performance goals stated in terms of post-
 15 earthquake reoccupancy and functional recovery time.”.

16 **SEC. 6. MANAGEMENT PLAN FOR ADVANCED NATIONAL**
 17 **SEISMIC SYSTEM.**

18 (a) *PLAN REQUIRED.*—Not later than 1 year after the
 19 date of the enactment of this Act, the United States Geologi-
 20 cal Survey shall submit to Congress a 5-year management
 21 plan for the continued operation of the Advanced National
 22 Seismic System.

23 (b) *ELEMENTS.*—The plan required by subsection (a)
 24 shall include the following:

1 (1) *Strategies to continue the development of an*
 2 *earthquake early warning system.*

3 (2) *A mechanism for securing the participation*
 4 *of State and regional level earthquake monitoring en-*
 5 *tities, including those defunded by the Advanced Na-*
 6 *tional Seismic System in the last five years.*

7 (3) *A plan to encourage and support the integra-*
 8 *tion of geospatial data products into earthquake mon-*
 9 *itoring in regions experiencing large earthquakes.*

10 (4) *A plan to ensure that there is an active, geo-*
 11 *graphically diverse, management and advisory struc-*
 12 *ture for the Advanced National Seismic System.*

13 **SEC. 7. AUTHORIZATION OF APPROPRIATIONS.**

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

16 (1) *in subsection (a)(8)—*

17 (A) *in subparagraph (D), by striking “and”*
 18 *at the end; and*

19 (B) *by inserting before the language fol-*
 20 *lowing subparagraph (E) the following:*

21 “(F) \$8,670,000 for fiscal year 2018,

22 “(G) \$8,843,000 for fiscal year 2019,

23 “(H) \$9,020,000 for fiscal year 2020,

24 “(I) \$9,200,000 for fiscal year 2021, and

25 “(J) \$9,385,000 for fiscal year 2022,”;

1 (2) *in subsection (b)(2)—*

2 (A) *in subparagraph (D), by striking “;*
3 *and” and inserting a semicolon;*

4 (B) *in subparagraph (E), by striking the*
5 *period at the end and inserting a semicolon; and*

6 (C) *by adding at the end the following:*

7 “(F) \$72,420,000 for fiscal year 2018, of
8 *which not less than \$30,000,000 shall be made*
9 *available for completion of the Advanced Na-*
10 *tional Seismic System established under section*
11 *7707 of this title;*

12 “(G) \$73,868,000 for fiscal year 2019, of
13 *which not less than \$30,000,000 shall be made*
14 *available for completion of the Advanced Na-*
15 *tional Seismic System established under section*
16 *7707 of this title;*

17 “(H) \$75,345,000 for fiscal year 2020, of
18 *which not less than \$30,000,000 shall be made*
19 *available for completion of the Advanced Na-*
20 *tional Seismic System established under section*
21 *7707 of this title;*

22 “(I) \$75,853,000 for fiscal year 2021, of
23 *which not less than \$30,000,000 shall be made*
24 *available for completion of the Advanced Na-*

1 *tional Seismic System established under section*
 2 *7707 of this title; and*

3 *“(J) \$78,390,000 for fiscal year 2022, of*
 4 *which not less than \$30,000,000 shall be made*
 5 *available for completion of the Advanced Na-*
 6 *tional Seismic System established under section*
 7 *7707 of this title.”;*

8 *(3) in subsection (c)(2)—*

9 *(A) in subparagraph (D), by striking “and”*
 10 *at the end;*

11 *(B) in subparagraph (E), by striking the*
 12 *period at the end and inserting a semicolon; and*

13 *(C) by adding at the end the following:*

14 *“(F) \$55,080,000 for fiscal year 2018,*

15 *“(G) \$56,181,000 for fiscal year 2019,*

16 *“(H) \$57,305,000 for fiscal year 2020,*

17 *“(I) \$58,451,000 for fiscal year 2021, and*

18 *“(J) \$59,620,000 for fiscal year 2022.”; and*

19 *(4) in subsection (d)(2)—*

20 *(A) in subparagraph (D), by striking “and”*
 21 *at the end; and*

22 *(B) by inserting before the language fol-*
 23 *lowing subparagraph (E) the following:*

24 *“(F) \$5,304,000 for fiscal year 2018,*

25 *“(G) \$5,410,000 for fiscal year 2019,*

1 “(H) \$5,518,000 for fiscal year 2020,
 2 “(I) \$5,628,000 for fiscal year 2021, and
 3 “(J) \$5,741,000 for fiscal year 2022,”.

4 **SEC. 8. TECHNICAL CORRECTIONS.**

5 (a) *CORRECTION OF TITLE OF ADMINISTRATOR OF*
 6 *THE FEDERAL EMERGENCY MANAGEMENT AGENCY.—The*
 7 *Earthquake Hazards Reduction Act of 1977 (42 U.S.C.*
 8 *7701 et seq.) is amended—*

9 (1) *in section 5 of the Earthquake Hazards Re-*
 10 *duction Act of 1977 (42 U.S.C. 7704)—*

11 (A) *in subsection (a)(3)(B), as amended by*
 12 *section 3(b)(1)—*

13 (i) *in the matter preceding clause (i),*
 14 *by striking “the directors of”;*

15 (ii) *in clause (i), by inserting “the Ad-*
 16 *ministrator of” before “the”; and*

17 (iii) *in clauses (ii) through (v), by in-*
 18 *serting “the Director of” before “the” each*
 19 *place it appears; and*

20 (B) *in subsection (b)(3)(C), as amended by*
 21 *section 3(e), by striking “Director of the Fed-*
 22 *eral” and inserting “Administrator of the Fed-*
 23 *eral”;* and

24 (2) *in section 9 of such Act (42 U.S.C. 7705c),*
 25 *by striking “Director of the Agency” and inserting*

1 *“Administrator of the Federal Emergency Manage-*
 2 *ment Agency” each place it appears.*

3 **(b) REFERENCES TO THE ADVANCED NATIONAL SEIS-**
 4 **MIC SYSTEM.**—*Such Act is amended—*

5 *(1) in section 13 (42 U.S.C. 7707), in the section*
 6 *heading, by striking “**ADVANCED NATIONAL SEIS-***
 7 ***MIC RESEARCH AND MONITORING SYSTEM*” and**
 8 *inserting “**ADVANCED NATIONAL SEISMIC SYS-***
 9 ***TEM*”; and**

10 *(2) by striking “Advanced National Seismic Re-*
 11 *search and Monitoring System” each place it appears*
 12 *and inserting “Advanced National Seismic System”.*

13 **(c) INCORRECT CROSS-REFERENCES.**—*Paragraph (4)*
 14 *of section 5(a) of such Act (42 U.S.C. 7704(a)), as amended*
 15 *by section 3(b)(4)(A), is amended—*

16 *(1) in clauses (i) and (ii) of subparagraph (A),*
 17 *as redesignated by section 3(b)(4)(A), by striking*
 18 *“subparagraph (3)(A)” both places it appears and in-*
 19 *serting “paragraph (3)(D)(i)(I)”;* and

20 *(2) in clause (iii), as redesignated, by striking*
 21 *“under (3)(A)” and inserting “under paragraph*
 22 *(3)(D)(i)(I)”.*

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115TH CONGRESS
2D Session

S. 1768

[Report No. 115-336]

A BILL

To reauthorize and amend the National Earth-
quake Hazards Reduction Program, and for
other purposes.

SEPTEMBER 6, 2018

Reported with an amendment