

115TH CONGRESS  
2D SESSION

# H. R. 6650

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

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## IN THE HOUSE OF REPRESENTATIVES

AUGUST 3, 2018

Mr. ROHRBACHER (for himself, Mr. KNIGHT, Mr. SMITH of Texas, and Ms. JAYAPAL) introduced the following bill; which was referred to the Committee on Science, Space, and Technology, and in addition to the Committees on Natural Resources, and Transportation and Infrastructure, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## 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,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “National Earthquake  
5 Hazards Reduction Program Reauthorization Act of  
6 2018”.

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

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

5 (1) in paragraph (1)—

6 (A) by inserting “, and the Commonwealth  
7 of Puerto Rico” after “States”;

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

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

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

17 (1) in the matter preceding paragraph (1), in  
18 the first sentence, by inserting “and increase the re-  
19 silience 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-  
24 wide post-earthquake recovery and in times of dis-  
25 aster”;

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

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

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

8           (c) DEFINITIONS.—

9           (1) LIFELINE INFRASTRUCTURE.—

10           (A) IN GENERAL.—Section 4(6) of such  
11           Act (42 U.S.C. 7703(6)) is amended by striking  
12           “lifelines” and inserting “lifeline infrastruc-  
13           ture”.

14           (B) CONFORMING AMENDMENT.—Such Act  
15           (42 U.S.C. 7701 et seq.) is amended by striking  
16           “lifelines” each place it appears and inserting  
17           “lifeline infrastructure”.

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

21           “(10) The term ‘community resilience’ means  
22           the ability of a community to prepare and plan for,  
23           absorb, recover from, and more successfully adapt to  
24           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, lique-  
12 faction susceptibility, susceptibility for  
13 earthquake induced landslides, and other  
14 seismically 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 MEMBER-  
24 SHIP.—Subparagraph (B) of subsection (a)(3) of  
25 such section is amended, in the matter preceding

1 clause (i), by striking “The committee” and insert-  
2 ing “In addition 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  
10 (D) of such subsection is amended to read as fol-  
11 lows:

12 “(D) DUTIES.—

13 “(i) GENERAL DUTY.—The Inter-  
14 agency Coordinating Committee shall over-  
15 see the planning, management, and coordi-  
16 nation of the Program.

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

20 “(I) Developing, not later than 6  
21 months after the date of the enact-  
22 ment of the National Earthquake  
23 Hazards Reduction Program Reau-  
24 thorization Act of 2004 and updating  
25 periodically—

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

6           “(bb) a detailed manage-  
7           ment plan to implement such  
8           strategic plan.

9           “(II) Developing a coordinated  
10          interagency budget for the Program  
11          that will ensure appropriate balance  
12          among the Program activities de-  
13          scribed under subsection (a)(2), and,  
14          in accordance with the plans devel-  
15          oped under subclause (I), submitting  
16          such budget to the Director of the Of-  
17          fice of Management and Budget at  
18          the time designated by the Director  
19          for agencies to submit biennial budg-  
20          ets.

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

1                   “(IV) Coordinating with the  
2 Interagency Coordinating Committee  
3 on Windstorm Impact Reduction and  
4 other natural hazards coordination  
5 committees as the Director determines  
6 appropriate to share data and best  
7 practices.

8                   “(V) 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                   “(VI) 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                   “(VII) Coordinating with the  
25 Secretary of Transportation and the



1 Secretary of Housing and Urban De-  
2 velopment on the effects of earth-  
3 quakes on transportation and housing  
4 stocks.

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

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

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

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

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

1 (iii) in clause (v), as so redesignated,  
2 by striking “; and” and inserting a semi-  
3 colon;

4 (iv) in clause (vi), as so redesignated,  
5 by striking the period at the end and in-  
6 serting “; and”;

7 (v) by inserting after clause (vi), as so  
8 redesignated, the following:

9 “(vii) a statement regarding whether  
10 the Administrator of the Federal Emer-  
11 gency Management Agency has lowered or  
12 waived the cost share requirement for as-  
13 sistance provided under subsection  
14 (b)(2)(A)(i).”;

15 (vi) in the matter preceding clause (i),  
16 as so redesignated, by striking “The Inter-  
17 agency” and all that follows through “Sen-  
18 ate” and inserting the following:

19 “(A) IN GENERAL.—Not less frequently  
20 than once every two years, the Interagency Co-  
21 ordinating Committee shall submit to the Com-  
22 mittee on Commerce, Science, and Transpor-  
23 tation, the Committee on Energy and Natural  
24 Resources, and the Committee on Homeland  
25 Security and Governmental Affairs of the Sen-

1           ate and the Committee on Science, Space, and  
2           Technology, the Committee on Energy and  
3           Commerce, the Committee on Natural Re-  
4           sources, and the Committee on Homeland Secu-  
5           rity of the House of Representatives a report on  
6           the Program”; and

7                       (vii) by adding at the end the fol-  
8                       lowing:

9                       “(B) SUPPORT FOR PREPARATION OF RE-  
10                      PORT.—Each head of a Program agency shall  
11                      submit to the Director of the National Institute  
12                      of Standards and Technology such information  
13                      as the Director may request for the preparation  
14                      of a report under subparagraph (A) not later  
15                      than 90 days after the date on which the Direc-  
16                      tor requests such information.”.

17                      (B) EFFECTIVE DATE.—The amendments  
18                      made by subparagraph (A) shall take effect on  
19                      the first day of the first fiscal year beginning  
20                      after the date of the enactment of this Act.

21           (c) MODIFICATION OF RESPONSIBILITIES OF NA-  
22           TIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.—  
23           Subsection (b) of such section is amended—

24                      (1) in paragraph (1)—

1 (A) in subparagraph (A), by striking “and  
2 constructing,” and inserting “constructing,  
3 evaluating, and retrofitting”; and

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

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

9 (d) MODIFICATION OF RESPONSIBILITIES OF FED-  
10 ERAL EMERGENCY MANAGEMENT AGENCY.—Paragraph  
11 (2) of subsection (b) of such section is amended to read  
12 as follows:

13 “(2) DEPARTMENT OF HOMELAND SECURITY;  
14 FEDERAL EMERGENCY MANAGEMENT AGENCY.—

15 “(A) PROGRAM RESPONSIBILITIES.—The  
16 Administrator of the Federal Emergency Man-  
17 agement Agency—

18 “(i) shall operate a program of grants  
19 and assistance to enable States to develop  
20 mitigation, preparedness, and response  
21 plans, purchase necessary instrumentation,  
22 prepare inventories and conduct seismic  
23 safety inspections of critical structures and  
24 lifeline infrastructure, update building,  
25 land use planning, and zoning codes and

1           ordinances to enhance seismic safety, in-  
2           crease earthquake awareness and edu-  
3           cation, and provide assistance to multi-  
4           State groups for such purposes;

5           “(ii) shall support the implementation  
6           of a comprehensive earthquake education,  
7           outreach, and public awareness program,  
8           including development of materials and  
9           their wide dissemination to all appropriate  
10          audiences and support public access to lo-  
11          cality-specific information that may assist  
12          the public in preparing for, mitigating  
13          against, responding to and recovering from  
14          earthquakes and related disasters;

15          “(iii) shall, in conjunction with the  
16          Director of the National Institute of  
17          Standards and Technology, other Federal  
18          agencies, and private sector groups, use re-  
19          search results to support the preparation,  
20          maintenance, and wide dissemination of  
21          seismic resistant design guidance and re-  
22          lated information on building codes, stand-  
23          ards, and practices for new and existing  
24          buildings, structures, and lifeline infra-  
25          structure, aid in the development of per-

1 performance-based design guidelines and  
2 methodologies, and support model codes  
3 that are cost effective and affordable in  
4 order to promote better practices within  
5 the design and construction industry and  
6 reduce losses from earthquakes;

7 “(iv) shall enter into cooperative  
8 agreements or contracts with States and  
9 local jurisdictions and other Federal agen-  
10 cies to establish demonstration projects on  
11 earthquake hazard mitigation, to link  
12 earthquake research and mitigation efforts  
13 with emergency management programs, or  
14 to prepare educational materials for na-  
15 tional distribution; and

16 “(v) shall support the Director of the  
17 National Institute of Standards and Tech-  
18 nology in the completion of programmatic  
19 goals.

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

23 “(i) demonstrate that the assistance  
24 will result in enhanced seismic safety in  
25 the State;

1           “(ii) provide 25 percent of the costs of  
2           the activities for which assistance is being  
3           given, except that the Administrator may  
4           lower or waive the cost-share requirement  
5           for these activities for a small impover-  
6           ished community, as defined in section 203  
7           of the Disaster Relief Act of 1974 (42  
8           U.S.C. 5133(a)); and  
9           “(iii) meet such other requirements as  
10          the Administrator shall prescribe.”.

11          (e) MODIFICATION OF RESPONSIBILITIES OF UNITED  
12 STATES GEOLOGICAL SURVEY.—Subsection (b)(3) of such  
13 section is amended—

14           (1) in the matter preceding subparagraph (A),  
15          in the first sentence—

16           (A) by inserting “report on significant do-  
17          mestic and international earthquakes and” after  
18          “Survey shall”; and

19           (B) by striking “predictions.” and insert-  
20          ing “forecasts.”;

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

24           (3) by striking subparagraph (D) and inserting  
25          the following:

1           “(D) issue when necessary and feasible,  
2           and notify the Administrator of the Federal  
3           Emergency Management Agency, the Director  
4           of the National Institute of Standards and  
5           Technology, and State and local officials, an  
6           alert and an earthquake warning;”;

7           (4) in subparagraph (E), in the matter pre-  
8           ceding clause (i), by striking “using” and inserting  
9           “including”;

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

12          (6) in subparagraph (J)—

13                (A) by inserting “and data” after “hazard  
14                maps”; and

15                (B) by striking the period at the end and  
16                inserting “; and”; and

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

18                “(K) support the Director of the National  
19                Institute of Standards and Technology in the  
20                completion of programmatic goals.”.

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



1           (1) in subparagraph (B), by inserting “, State  
2 agencies, State geological surveys,” after “con-  
3 sortia”;

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

8           (3) in subparagraph (D), by striking “large-  
9 scale experimental and computational facilities of the  
10 George E. Brown Jr. Network for Earthquake Engi-  
11 neering Simulation and other institutions engaged in  
12 research and the implementation of the National  
13 Earthquake Hazards Reduction Program” and in-  
14 serting “experimental and computational facilities”;

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

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

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

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

23           (7) by redesignating subparagraphs (A) through  
24 (I) as clauses (i) through (ix), respectively, and in-  
25 denting such clauses accordingly;

1           (8) in the matter before clause (i), as redesignig-  
2 nated by paragraph (7), in the first sentence, by  
3 striking “The National Science Foundation” and in-  
4 serting the following:

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

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

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

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

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

17                   “(iii) not less frequently than once  
18 every 2 years, submit to the director of the  
19 Program a report specifying the amount of  
20 Federal funds awarded to conduct research  
21 that enhances the understanding of earth-  
22 quake science.”.

1 **SEC. 4. REVIEW OF THE NATIONAL EARTHQUAKE HAZARD**  
2 **REDUCTION PROGRAM.**

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 Federal  
8 earthquake hazard risk reduction efforts.

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

11 (1) A comprehensive assessment of—

12 (A) the extent to which the United States  
13 Geological Survey has identified the risks and  
14 hazards to the United States posed by earth-  
15 quakes, including risks and hazards resulting  
16 from tsunamis and landslides that are gen-  
17 erated by earthquakes;

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

24 (C) the progress made by the National In-  
25 stitute of Standards and Technology and the  
26 Interagency Coordinating Committee (as de-

1            fined in section 4 the Earthquake Hazards Re-  
2            duction Act of 1977 of the Earthquake Hazards  
3            Reduction Act of 1977 (42 U.S.C. 7703)) to co-  
4            ordinate effectively the budget and activities of  
5            the Program agencies (as defined in such sec-  
6            tion 4) in advancing the plans and goals of the  
7            Program (as defined in such section 4) and how  
8            coordination among the Program agencies may  
9            be improved; and

10            (D) the extent to which the results of re-  
11            search in earthquake risk and hazards reduc-  
12            tion supported by the National Science Founda-  
13            tion during the 40 years of the Program have  
14            been effectively disseminated to Federal, State,  
15            local, and private sector stakeholders.

16            (2) Recommendations to improve the Program  
17            and the resiliency of the United States to earth-  
18            quake risks.

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 Science, Space, and

1 Technology, 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 the Committee on Commerce, Science, and

1 Transportation, the Committee on Energy and Natural  
2 Resources, and the Committee on Homeland Security and  
3 Governmental Affairs of the Senate and the Committee  
4 on Science, Space, and Technology, the Committee on  
5 Natural Resources, and the Committee on Homeland Se-  
6 curity of the House of Representatives a report on rec-  
7 ommended options for improving the built environment  
8 and critical infrastructure to reflect performance goals  
9 stated in terms of post-earthquake reoccupancy and func-  
10 tional recovery time.”.

11 **SEC. 6. MANAGEMENT PLAN FOR ADVANCED NATIONAL**  
12 **SEISMIC SYSTEM.**

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

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

20 (1) Strategies to continue the development of  
21 an earthquake early warning system.

22 (2) A mechanism for securing the participation  
23 of State and regional level earthquake monitoring  
24 entities, including those defunded by the Advanced  
25 National Seismic System in the last five years.

1           (3) A plan to encourage and support the inte-  
2           gration of geospatial data products into earthquake  
3           monitoring in regions experiencing large earth-  
4           quakes.

5           (4) A plan to identify and evaluate existing  
6           data sets available across commercial, civil, and de-  
7           fense entities to determine if there are additional  
8           data sources to inform the development and deploy-  
9           ment of the Advanced National Seismic System and  
10          an earthquake early warning system.

11          (5) A plan to ensure that there is an active,  
12          geographically diverse, management and advisory  
13          structure for the Advanced National Seismic Sys-  
14          tem.

15 **SEC. 7. AUTHORIZATION OF APPROPRIATIONS.**

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

18           (1) in subsection (a)(8)—

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

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

23                    “(F) \$8,758,000 for fiscal year 2019,

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

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

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

2 “(J) \$8,758,000 for fiscal year 2023,”;

3 (2) in subsection (b)(2)—

4 (A) in subparagraph (D), by striking “;  
5 and” and inserting a semicolon;

6 (B) in subparagraph (E), by striking the  
7 period at the end and inserting a semicolon;  
8 and

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

10 “(F) \$83,403,000 for fiscal year 2019, of  
11 which not less than \$30,000,000 shall be made  
12 available for completion of the Advanced Na-  
13 tional Seismic System established under section  
14 7707 of this title;

15 “(G) \$83,403,000 for fiscal year 2020, of  
16 which not less than \$30,000,000 shall be made  
17 available for completion of the Advanced Na-  
18 tional Seismic System established under section  
19 7707 of this title;

20 “(H) \$83,403,000 for fiscal year 2021, of  
21 which not less than \$30,000,000 shall be made  
22 available for completion of the Advanced Na-  
23 tional Seismic System established under section  
24 7707 of this title;



1           “(I) \$83,403,000 for fiscal year 2022, of  
2           which not less than \$30,000,000 shall be made  
3           available for completion of the Advanced Na-  
4           tional Seismic System established under section  
5           7707 of this title; and

6           “(J) \$83,403,000 for fiscal year 2023, of  
7           which not less than \$30,000,000 shall be made  
8           available for completion of the Advanced Na-  
9           tional Seismic System established under section  
10          7707 of this title.”;

11          (3) in subsection (c)(2)—

12           (A) in subparagraph (D), by striking  
13           “and” at the end;

14           (B) in subparagraph (E), by striking the  
15           period at the end and inserting a semicolon;  
16           and

17           (C) by adding at the end the following:

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

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

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

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

22           “(J) \$54,000,000 for fiscal year 2023.”;

23          and

24          (4) in subsection (d)(2)—

1 (A) in subparagraph (D), by striking  
2 “and” at the end; and

3 (B) by inserting before the language fol-  
4 lowing subparagraph (E) the following:

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

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

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

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

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

10 **SEC. 8. TECHNICAL CORRECTIONS.**

11 (a) CORRECTION OF TITLE OF ADMINISTRATOR OF  
12 THE FEDERAL EMERGENCY MANAGEMENT AGENCY.—  
13 The Earthquake Hazards Reduction Act of 1977 (42  
14 U.S.C. 7701 et seq.) is amended—

15 (1) in section 5 (42 U.S.C. 7704)—

16 (A) in subsection (a)(3)(B), as amended by  
17 section 3(b)(1) of this Act—

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

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

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

1 (B) in subsection (b)(3)(C), as amended by  
2 section 3(e), by striking “Director of the Fed-  
3 eral” and inserting “Administrator of the Fed-  
4 eral”; and

5 (2) in section 9 (42 U.S.C. 7705c), by striking  
6 “Director of the Agency” and inserting “Adminis-  
7 trator of the Federal Emergency Management Agen-  
8 cy” each place it appears.

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

11 (1) in section 13 (42 U.S.C. 7707), in the sec-  
12 tion heading, by striking “**ADVANCED NATIONAL**  
13 **SEISMIC RESEARCH AND MONITORING SYS-**  
14 **TEM**” and inserting “**ADVANCED NATIONAL SEIS-**  
15 **MIC SYSTEM**”; and

16 (2) by striking “Advanced National Seismic Re-  
17 search and Monitoring System” each place it ap-  
18 pears and inserting “Advanced National Seismic  
19 System”.

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

23 (1) in clauses (i) and (ii) of subparagraph (A),  
24 as redesignated by such section 3(b)(4)(A), by strik-

1       ing “subparagraph (3)(A)” both places it appears  
2       and inserting “paragraph (3)(D)(i)(I)”; and  
3             (2) in clause (iii), as so redesignated, by strik-  
4       ing “under (3)(A)” and inserting “under paragraph  
5       (3)(D)(i)(I)”.

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