

AMENDMENT NO. _____ Calendar No. _____

Purpose: In the nature of a substitute.

IN THE SENATE OF THE UNITED STATES—115th Cong., 2d Sess.

S. 1768

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

Referred to the Committee on _____ and
ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended
to be proposed by Mrs. FEINSTEIN

Viz:

1 Strike all after the enacting clause and insert the fol-
2 lowing:

3 **SECTION 1. SHORT TITLE.**

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

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

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

11 (1) in paragraph (1)—

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

3 (B) by inserting “Oregon,” after “New
4 York,”; and

5 (C) by inserting “Tennessee,” after “South
6 Carolina”;

7 (2) in paragraph (2), by striking “prediction
8 techniques and”;

9 (3) by striking paragraph (4) and inserting the
10 following:

11 “(4) A well-funded seismological research pro-
12 gram could provide the scientific understanding
13 needed to fully implement an effective earthquake
14 early warning system.”;

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

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

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

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

11 (b) PURPOSE.—Section 3 of such Act (42 U.S.C.
12 7702) is amended—

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

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

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

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

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

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

4 (c) DEFINITIONS.—

5 (1) LIFELINE INFRASTRUCTURE.—

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

10 (B) CONFORMING AMENDMENT.—Such Act
11 (42 U.S.C. 7701 et seq.) is amended by striking
12 “lifelines” each place it appears and inserting
13 “lifeline infrastructure”.

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

17 “(10) The term ‘community resilience’ means
18 the ability of a community to prepare and plan for,
19 absorb, recover from, and more successfully adapt to
20 adverse seismic events.”.

21 **SEC. 3. MODIFICATION OF NATIONAL EARTHQUAKE HAZ-**
22 **ARDS REDUCTION PROGRAM.**

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

1 (1) in subparagraph (B)—

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

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

5 “(iv) publishing a systematic set of
6 maps of active faults and folds, lique-
7 faction susceptibility, susceptibility for
8 earthquake induced landslides, and other
9 seismically induced hazards; and”;

10 (2) in subparagraph (D), by striking “develop,
11 operate” and all that follows through “7708),” and
12 inserting “continue the development of the Advanced
13 National Seismic System, including earthquake early
14 warning capabilities”.

15 (b) AMENDMENTS RELATING TO INTERAGENCY CO-
16 ORDINATING COMMITTEE ON EARTHQUAKE HAZARDS RE-
17 DUCATION.—

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

23 (2) REDUCTION IN MINIMUM FREQUENCY OF
24 MEETINGS OF INTERAGENCY COORDINATING COM-
25 MITTEE ON EARTHQUAKE HAZARDS REDUCTION.—

1 Subparagraph (C) of such subsection is amended by
2 striking “not less than 3 times a year” and inserting
3 “not less frequently than once each year”.

4 (3) EXPANSION OF DUTIES.—Subparagraph
5 (D) of such subsection is amended to read as fol-
6 lows:

7 “(D) DUTIES.—

8 “(i) GENERAL DUTY.—The Inter-
9 agency Coordinating Committee shall over-
10 see the planning, management, and coordi-
11 nation of the Program.

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

15 “(I) Developing, not later than 6
16 months after the date of the enact-
17 ment of the National Earthquake
18 Hazards Reduction Program Reau-
19 thorization Act of 2004 and updating
20 periodically—

21 “(aa) a strategic plan that
22 establishes goals and priorities
23 for the Program activities de-
24 scribed under subsection (a)(2);
25 and

1 “(bb) a detailed manage-
2 ment plan to implement such
3 strategic plan.

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

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

21 “(IV) Coordinating with the
22 Interagency Coordinating Committee
23 on Windstorm Impact Reduction and
24 other natural hazards coordination
25 committees as the Director determines

1 appropriate to share data and best
2 practices.

3 “(V) Coordinating with the Ad-
4 ministrator of the National Aero-
5 nautics and Space Administration and
6 the Administrator of the National
7 Oceanic and Atmospheric Administra-
8 tion on data sharing and resource al-
9 location to ensure judicious use of
10 Government resources and the free-
11 flowing exchange of information re-
12 lated to earthquakes.

13 “(VI) Coordinating with the Sec-
14 retary of Agriculture and the Sec-
15 retary of the Interior on the use of
16 public lands for earthquake moni-
17 toring and research stations, and re-
18 lated data collection.

19 “(VII) Coordinating with the
20 Secretary of Transportation and the
21 Secretary of Housing and Urban De-
22 velopment on the effects of earth-
23 quakes on transportation and housing
24 stocks.

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

8 (4) REDUCTION IN FREQUENCY OF REPORTING
9 BY INTERAGENCY COORDINATING COMMITTEE ON
10 EARTHQUAKE HAZARDS REDUCTION.—

11 (A) IN GENERAL.—Subsection (a)(4) of
12 such section is amended—

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

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

20 (iii) in clause (v), as so redesignated,
21 by striking “; and” and inserting a semi-
22 colon;

23 (iv) in clause (vi), as so redesignated,
24 by striking the period at the end and in-
25 serting “; and”;

1 (v) by inserting after clause (vi), as so
2 redesignated, the following:

3 “(vii) a statement regarding whether
4 the Administrator of the Federal Emer-
5 gency Management Agency has lowered or
6 waived the cost share requirement for as-
7 sistance provided under subsection
8 (b)(2)(A)(i).”;

9 (vi) in the matter preceding clause (i),
10 as so redesignated, by striking “The Inter-
11 agency” and all that follows through “Sen-
12 ate” and inserting the following:

13 “(A) IN GENERAL.—Not less frequently
14 than once every two years, the Interagency Co-
15 ordinating Committee shall submit to the Com-
16 mittee on Commerce, Science, and Transpor-
17 tation, the Committee on Energy and Natural
18 Resources, and the Committee on Homeland
19 Security and Governmental Affairs of the Sen-
20 ate and the Committee on Science, Space, and
21 Technology, the Committee on Energy and
22 Commerce, the Committee on Natural Re-
23 sources, and the Committee on Homeland Secu-
24 rity of the House of Representatives a report on
25 the Program”; and

1 (vii) by adding at the end the fol-
2 lowing:

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

11 (B) EFFECTIVE DATE.—The amendments
12 made by subparagraph (A) shall take effect on
13 the first day of the first fiscal year beginning
14 after the date of the enactment of this Act.

15 (c) MODIFICATION OF RESPONSIBILITIES OF NA-
16 TIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.—
17 Subsection (b) of such section is amended—

18 (1) in paragraph (1)—

19 (A) in subparagraph (A), by striking “and
20 constructing,” and inserting “constructing,
21 evaluating, and retrofitting”; and

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

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

11 “(iii) shall, in conjunction with the
12 Director of the National Institute of
13 Standards and Technology, other Federal
14 agencies, and private sector groups, use re-
15 search results to support the preparation,
16 maintenance, and wide dissemination of
17 seismic resistant design guidance and re-
18 lated information on building codes, stand-
19 ards, and practices for new and existing
20 buildings, structures, and lifeline infra-
21 structure, aid in the development of per-
22 formance-based design guidelines and
23 methodologies, and support model codes
24 that are cost effective and affordable in
25 order to promote better practices within

1 the design and construction industry and
2 reduce losses from earthquakes;

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

12 “(v) shall support the Director of the
13 National Institute of Standards and Tech-
14 nology in the completion of programmatic
15 goals.

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

19 “(i) demonstrate that the assistance
20 will result in enhanced seismic safety in
21 the State;

22 “(ii) provide 25 percent of the costs of
23 the activities for which assistance is being
24 given, except that the Administrator may
25 lower or waive the cost-share requirement

1 for these activities for a small impover-
2 ished community, as defined in section 203
3 of the Disaster Relief Act of 1974 (42
4 U.S.C. 5133(a)); and
5 “(iii) meet such other requirements as
6 the Administrator shall prescribe.”.

7 (e) MODIFICATION OF RESPONSIBILITIES OF UNITED
8 STATES GEOLOGICAL SURVEY.—Subsection (b)(3) of such
9 section is amended—

10 (1) in the matter preceding subparagraph (A),
11 in the first sentence—

12 (A) by inserting “report on significant do-
13 mestic and international earthquakes and” after
14 “Survey shall”; and

15 (B) by striking “predictions.” and insert-
16 ing “forecasts.”;

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

20 (3) by striking subparagraph (D) and inserting
21 the following:

22 “(D) issue when necessary and feasible,
23 and notify the Administrator of the Federal
24 Emergency Management Agency, the Director
25 of the National Institute of Standards and

1 Technology, and State and local officials, an
2 alert and an earthquake warning;”;

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

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

8 (6) in subparagraph (J)—

9 (A) by inserting “and data” after “hazard
10 maps”; and

11 (B) by striking the period at the end and
12 inserting “; and”; and

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

14 “(K) support the Director of the National
15 Institute of Standards and Technology in the
16 completion of programmatic goals.”.

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

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

23 (2) in subparagraph (C), by inserting “to sup-
24 port applied science in the production of a system-

1 atic series of earthquake-related geologic hazard
2 maps, and” after “Survey”;

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

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

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

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

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

18 (7) by redesignating subparagraphs (A) through
19 (I) as clauses (i) through (ix), respectively, and in-
20 denting such clauses accordingly;

21 (8) in the matter before clause (i), as redesign-
22 nated by paragraph (7), in the first sentence, by
23 striking “The National Science Foundation” and in-
24 serting the following:

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

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

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

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

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

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

19 **SEC. 4. REVIEW OF THE NATIONAL EARTHQUAKE HAZARD**
20 **REDUCTION PROGRAM.**

21 (a) IN GENERAL.—As soon as practicable, but not
22 later than such date as is necessary for the Comptroller
23 General of the United States to submit the report required
24 by subsection (c) in accordance with such subsection, the

1 Comptroller General shall complete a review of Federal
2 earthquake hazard risk reduction efforts.

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

5 (1) A comprehensive assessment of—

6 (A) the extent to which the United States
7 Geological Survey has identified the risks and
8 hazards to the United States posed by earth-
9 quakes, including risks and hazards resulting
10 from tsunamis and landslides that are gen-
11 erated by earthquakes;

12 (B) the efforts of the Federal Emergency
13 Management Agency and the National Institute
14 of Standards and Technology to improve the re-
15 siliency of the United States to earthquakes and
16 to identify important gaps in the resilience of
17 the United States to earthquakes;

18 (C) the progress made by the National In-
19 stitute of Standards and Technology and the
20 Interagency Coordinating Committee (as de-
21 fined in section 4 the Earthquake Hazards Re-
22 duction Act of 1977 of the Earthquake Hazards
23 Reduction Act of 1977 (42 U.S.C. 7703)) to co-
24 ordinate effectively the budget and activities of
25 the Program agencies (as defined in such sec-

1 tion 4) in advancing the plans and goals of the
2 Program (as defined in such section 4) and how
3 coordination among the Program agencies may
4 be improved;

5 (D) the extent to which the results of re-
6 search in earthquake risk and hazards reduc-
7 tion supported by the National Science Founda-
8 tion during the 40 years of the Program has
9 been effectively disseminated to Federal, State,
10 local, and private sector stakeholders; 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) Recommendations to improve the Program
16 and the resiliency of the United States to earth-
17 quake risks.

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

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

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

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

8 **“SEC. 8. SEISMIC STANDARDS.**

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

22 “(b) REPORT TO CONGRESS.—Not later than June
23 30, 2020, the committee convened under paragraph (1)
24 shall submit to the Committee on Commerce, Science, and
25 Transportation, the Committee on Energy and Natural

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

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

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

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

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

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

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

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)”.