

Calendar No. 183

119TH CONGRESS
1ST SESSION**S. 320****[Report No. 119–74]**

To reauthorize the Earthquake Hazards Reduction Act of 1977, and for
other purposes.

IN THE SENATE OF THE UNITED STATES

JANUARY 29, 2025

Mr. PADILLA (for himself and Ms. MURKOWSKI) introduced the following bill;
which was read twice and referred to the Committee on Commerce,
Science, and Transportation

OCTOBER 14, 2025

Reported by Mr. CRUZ, with an amendment

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

To reauthorize the Earthquake Hazards Reduction Act of
1977, 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 2025”.

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

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

8 (1) in paragraph (1)—

9 (A) by striking “50 States, and the Com-
10 monwealth of Puerto Rico,” and inserting
11 “States and Tribal jurisdictions”;

12 (B) by striking “of them” and inserting
13 “States”; and

14 (C) by adding at the end the following:
15 “Almost half of the United States population
16 resides in areas that are at risk or experiencing
17 a damaging earthquake during the 50-year pe-
18 riod beginning on the date of the enactment of
19 the National Earthquake Hazards Reduction
20 Program Reauthorization Act of 2025”;

21 (2) in paragraph (2)—

22 (A) by inserting after the first sentence the
23 following: “A 2023 report by the Federal Emer-
24 gency Management Agency and the United
25 States Geological Survey (FEMA P-366) esti-
26 mates the annualized earthquake losses to the

national building stock is \$14,700,000,000 per year and the total economic exposure to earthquake losses (buildings and contents) across the nation is \$107,800,000,000,000.”; and

(B) in the third sentence—

(i) by striking “and construction” and inserting “, construction, evaluation, and retrofitting”; and

(ii) by striking “and (E)” and inserting the following: “(E) inventories of buildings and infrastructure with high seismic risk, especially those that are critical to community resilience, (F) programs that require or incentivize replacement or retrofit of existing buildings and infrastructure with high seismic risk, especially those that are critical to community resilience, and (G)”;

(3) in paragraph (3), by inserting “Tribal,” after “local,”;

(4) in paragraph (4), by striking “could provide” and all that follows through the period at the end and inserting “is necessary to provide the scientific understanding needed to improve and expand the earthquake early warning system.”;

1 (5) in paragraph (8), by striking “cave-ins” and
2 inserting “collapse”;

3 (6) in paragraph (9)—

4 (A) in the first sentence, by striking “and
5 local” and inserting “local, and Tribal govern-
6 ment”;

7 (B) in the second sentence, by striking
8 “transfer knowledge and information to” and
9 inserting “exchange knowledge and information
10 between”; and

11 (C) in the third sentence, by striking
12 “specifications, criteria” and inserting “guide-
13 lines, codes, standards”;

14 (7) in paragraph (12)—

15 (A) in the second sentence—

16 (i) by striking “When earthquakes
17 occur, the built environment is generally”
18 and inserting “Relatively newer buildings
19 and infrastructure have generally been”;
20 and

21 (ii) by striking “and is” and inserting
22 “when earthquakes occur, but most are”;
23 and

24 (B) by adding at the end the following: “In
25 addition, buildings and infrastructure built to

1 older codes and standards may pose significant
 2 risk of injury, loss of life, or irreparable dam-
 3 age. A 2021 report submitted to Congress pur-
 4 suant to section 8(b), as amended by section 5
 5 of the National Earthquake Hazards Reduction
 6 Program Reauthorization Act of 2018 (Public
 7 Law 115–307), by the Federal Emergency
 8 Management Agency and the National Institute
 9 of Standards and Technology (FEMA P2090/
 10 NST SP–1254) provides recommendations for
 11 improving post-earthquake functional recovery
 12 time of the built environment to support com-
 13 munity resilience goals and many of these rec-
 14 ommendations still need to be implemented.”;
 15 and

16 (8) in paragraph (13)—

17 (A) in the first sentence, by inserting “in
 18 2011” after “a study”;

19 (B) in the second sentence, by inserting
 20 “(in 2011 dollars)” after “\$300,000,000”; and

21 (C) by adding at the end the following:
 22 “The cost of actual seismic retrofits to reduce
 23 known risks is not included in such valuation.”.

1 **SEC. 3. MODIFICATION OF PURPOSE.**

2 Section 3 of the Earthquake Hazards Reduction Act
3 of 1977 (42 U.S.C. 7702) is amended—

4 (1) in paragraph (1)—

5 (A) by striking “and local” and inserting
6 “, local, and Tribal government”; and

7 (B) by striking “locations and structures”
8 and inserting “buildings and infrastructure”;

9 (2) in paragraph (2)—

10 (A) by striking “and construction” and in-
11 serting “, construction, evaluation, and retro-
12 fitting”; and

13 (B) by inserting “housing and care facili-
14 ties for vulnerable populations,” after “occu-
15 pancy buildings”; and

16 (3) in paragraph (4)—

17 (A) by striking “and local” and inserting
18 “, local, and Tribal government”; and

19 (B) by striking “encourage consideration
20 of” and inserting “incorporate”.

21 **SEC. 4. MODIFICATION OF DEFINITIONS.**

22 Section 4 of the Earthquake Hazards Reduction Act
23 of 1977 (42 U.S.C. 7703) is amended—

24 (1) in paragraph (3), by inserting “, including
25 secondary effects such as earthquake-caused
26 tsunamis”; and

1 (2) by adding at the end the following:

2 “(11) The term ‘Tribal government’ has the
3 meaning given the term ‘tribal government’ in sec-
4 tion 421 of the Congressional Budget Act of 1974
5 (2 U.S.C. 658).

6 “(12) The term ‘functional recovery’ means a
7 post-earthquake performance state in which a build-
8 ing or lifeline infrastructure system is maintained,
9 or restored, to safely and adequately support the
10 basic intended functions associated with the pre-
11 earthquake use or occupancy of a building, or the
12 pre-earthquake service level of a lifeline infrastruc-
13 ture system.

14 “(13) The term ‘earthquake forecast’ means a
15 statement of probabilities that 1 or more earth-
16 quakes within a clearly specified magnitude range
17 may occur within a specified time interval and geo-
18 graphic region.”.

19 **SEC. 5. IMPROVEMENTS TO NATIONAL EARTHQUAKE HAZ-**
20 **ARDS REDUCTION PROGRAM.**

21 (a) PROGRAM ACTIVITIES.—Subsection (a)(2) of sec-
22 tion 5 of the Earthquake Hazards Reduction Act of 1977
23 (42 U.S.C. 7704) is amended—

24 (1) in subparagraph (B)—

25 (A) in the matter before clause (i)—

1 (i) by striking “and local” and insert-
 2 ing “, local, and Tribal”; and

3 (ii) by striking “and constructing”
 4 and inserting “, designing, constructing,
 5 evaluating, and retrofitting”;

6 (B) by amending clause (ii) to read as fol-
 7 lows:

8 “(ii) development of standards, guide-
 9 lines, and voluntary standards, guidelines,
 10 and consensus codes for earthquake haz-
 11 ards reduction for buildings, structures,
 12 and lifeline infrastructure, including post-
 13 earthquake recovery-based performance ob-
 14 jectives that address reoccupancy and
 15 downtime of community-prioritized build-
 16 ings, structures, and services provided by
 17 lifeline infrastructure;”;

18 (C) in clause (iii), by striking “and haz-
 19 ards reduction, and” and inserting “functional
 20 recovery, and other hazards reduction topics;”;

21 (D) in clause (iv)—

22 (i) by inserting “and maintaining”
 23 after “publishing”;

24 (ii) by inserting “in coordination with
 25 the National Tsunami Hazards Mitigation

Program, tsunami susceptibility,” after
 “liquefaction susceptibility,”; and

(iii) by striking “; and” and inserting
 a semicolon; and

(E) by adding at the end the following:

“(v) subject to the availability of
 funds, development of best practices and
 guidelines to create an inventory of and
 conduct seismic performance evaluations of
 buildings, structures, and lifeline infra-
 structure with high seismic risk, especially
 those that are critical to community resil-
 ience; and

“(vi) subject to the availability of
 funds, the provision of technical assistance
 upon request by a State, local, or Tribal
 government regarding—

“(I) the creation of an inventory
 of buildings, structures, and lifeline
 infrastructure;

“(II) the performance of seismic
 performance evaluations; and

“(III) cost-effective best practices
 for retrofitting existing buildings;

1 structures, and lifeline infrastruc-
 2 ture.”;

3 (2) in subparagraph (C), by striking “; and”
 4 and inserting a semicolon;

5 (3) by redesignating subparagraph (D) as sub-
 6 paragraph (E); and

7 (4) by inserting after subparagraph (C) the fol-
 8 lowing:

9 “(D) improve the understanding of—

10 “(i) the multiple hazards associated
 11 with earthquakes, including liquefaction,
 12 tsunamis, landslides, structural fires, and
 13 the compounding effects of climate on
 14 these hazards; and

15 “(ii) potential mitigation measures for
 16 such hazards; and”.

17 (b) DUTIES OF INTERAGENCY COORDINATING COM-
 18 MITTEE ON EARTHQUAKE HAZARDS REDUCTION.—Sub-
 19 section (a)(3)(D)(ii) of such section is amended—

20 (1) in subclause (V), by inserting “and associ-
 21 ated secondary hazards” before the period at the
 22 end; and

23 (2) by adding at the end the following:

24 “(VIII) Coordinating with the
 25 Chair of the Federal Communications

1 Commission on the timely broad-
 2 easting of emergency alerts generated
 3 by the earthquake early warning sys-
 4 tem.”.

5 (c) BIENNIAL REPORT.—Subsection (a)(4)(A) of
 6 such section is amended by striking “under paragraph
 7 (3)(D)(i)(I)” each place it appears and inserting “under
 8 paragraph (3)(D)(ii)(I)”.

9 (d) ADVISORY COMMITTEE.—Subsection (a)(5)(A) of
 10 such section is amended—

11 (1) by inserting “the Chair of the Scientific
 12 Earthquake Studies Advisory Committee and” after
 13 “including”;

14 (2) by striking “and local government” and in-
 15 serting “; local, and Tribal governments”; and

16 (3) by inserting “social,” after “scientific,”.

17 (e) LEAD AGENCY FOR RESPONSIBILITIES OF PRO-
 18 GRAM AGENCIES.—Subsection (b)(1) of such section is
 19 amended—

20 (1) in subparagraph (A)—

21 (A) by striking “and local” and inserting
 22 “local, and Tribal governments”; and

23 (B) by striking “plan and constructing”
 24 and inserting “planning, designing, con-
 25 structing, evaluating, and retrofitting”;

1 (2) by redesignating subparagraphs (C) and
2 (D) as subparagraphs (F) and (G), respectively; and
3 (3) by inserting after subparagraph (B) the fol-
4 lowing:

5 “(C) improve the understanding of earth-
6 quake-caused fires and support the development
7 of engineering tools and construction methods
8 that mitigate the risk of fire following earth-
9 quakes;

10 “(D) develop, in coordination with the Ad-
11 ministrator of the Federal Emergency Manage-
12 ment Agency, best practices and guidelines for
13 a State, local, or Tribal government to create
14 an inventory of buildings, structures, or lifeline
15 infrastructure that are critical to community re-
16 silience or otherwise have high seismic risk;

17 “(E) provide, in coordination with the Ad-
18 ministrator of the Federal Emergency Manage-
19 ment Agency, technical assistance to a State,
20 local, or Tribal government requesting such as-
21 sistance with respect to the creation of an in-
22 ventory of buildings, structures, or lifeline in-
23 frastructure.”.

1 (f) RESPONSIBILITIES OF FEDERAL EMERGENCY
 2 MANAGEMENT AGENCY.—Subsection (b)(2) of such sec-
 3 tion is amended—

4 (1) in subparagraph (A)—

5 (A) in clause (i)—

6 (i) by inserting “and Tribal govern-
 7 ments” after “States”;

8 (ii) by inserting “and performance
 9 evaluations” after “safety inspections”;
 10 and

11 (iii) by inserting “and improve post-
 12 earthquake functional recovery” after
 13 “seismic safety”;

14 (B) in clause (ii), by inserting “, including
 15 Tribal entities,” after “appropriate audiences”;

16 (C) in clause (iii)—

17 (i) by striking “of seismic resistant”
 18 and inserting “to all appropriate audi-
 19 ences, including Tribal governments, of”;
 20 and

21 (ii) by inserting “that enhance seismic
 22 safety, improve post-earthquake functional
 23 recovery, and reduce losses from earth-
 24 quakes” after “and lifeline infrastructure”;

25 (D) in clause (iv)—

1 (i) in striking “and local” and insert-
 2 ing “; local, and Tribal”; and

3 (ii) by striking “; and” and inserting
 4 a semicolon;

5 (E) by redesignating clause (v) as clause
 6 (vi); and

7 (F) by inserting after clause (iv) the fol-
 8 lowing:

9 “(v) shall provide technical assistance
 10 to State, local, or Tribal governmental en-
 11 tities in the creation of evacuation plans in
 12 the event of an earthquake, landslide, tsu-
 13 nami, or other earthquake-related hazard;
 14 and”; and

15 (2) in subparagraph (B)—

16 (A) in the subparagraph heading, by in-
 17 serting “AND TRIBAL” after “STATE”;

18 (B) in the matter before clause (i), by in-
 19 serting “or Tribal government” after “State”;
 20 and

21 (C) in clause (i), by striking “safety” and
 22 inserting “performance, community resilience,
 23 or public awareness”.

1 ~~(g)~~ RESPONSIBILITIES OF UNITED STATES GEOLOGI-
 2 CAL SURVEY.—Subsection ~~(b)~~(3) of such section is
 3 amended—

4 (1) in subparagraph (B), by striking “and
 5 local” and inserting “; local, and Tribal”;

6 (2) in subparagraph (C), by inserting “; the
 7 Chair of the Federal Communications Commission,”
 8 after “Agency”;

9 (3) by redesignating subparagraphs ~~(D)~~
 10 through ~~(K)~~ as subparagraphs (L) through (Q), re-
 11 spectively;

12 (4) by inserting after subparagraph (C) the fol-
 13 lowing:

14 “(D) coordinate with the Administrator of
 15 the National Oceanic and Atmospheric Admin-
 16 istration and the Administrator of the Federal
 17 Emergency Management Agency on data shar-
 18 ing and resource allocation to support a timely
 19 response to oceanic earthquakes and tsunamis;

20 “(E) in consultation with the Chair of the
 21 Federal Communications Commission, ensure
 22 that earthquake alerts and early warnings are
 23 broadcast as rapidly and reliably as possible, in
 24 the predominant languages in the affected re-

1 gion, to ensure maximum warning time for
2 nearby persons;

3 “(F) expand the earthquake early warning
4 system within and to additional high risk haz-
5 ard areas, including making improvements as
6 practicable to improve detection and increase
7 the time between warning messages and percep-
8 tible ground motion;

9 “(G) coordinating with affected State and
10 Tribal governments on earthquake early warn-
11 ing system improvements;

12 “(H) issue earthquake forecasts, when ap-
13 propriate, for aftershocks associated with sig-
14 nificant earthquakes in the United States;”;

15 (5) in subparagraph (I), as redesignated by
16 paragraph (3), by inserting “the Chair of the Fed-
17 eral Communications Commission,” after “Agency,”;

18 (6) in subparagraph (L), as redesignated by
19 paragraph (3), by striking “; and” and inserting a
20 semicolon;

21 (7) in subparagraph (M), as redesignated by
22 paragraph (3), by striking the period at the end and
23 inserting a semicolon; and

1 (8) in subparagraph (O), as redesignated by
 2 paragraph (3), by inserting “maps of natural haz-
 3 ards associated with earthquakes and”.

4 (h) RESPONSIBILITIES OF NATIONAL SCIENCE
 5 FOUNDATION.—Subsection (b)(4)(A) of such section is
 6 amended—

7 (1) in clause (iii), by inserting “including up-
 8 dated tsunami and liquefaction risk maps,”; and

9 (2) in clause (vii), by striking “Historically
 10 Black Colleges and Universities and those serving
 11 large proportions of Hispanics, Native Americans,
 12 Asian-Pacific Americans, and other underrep-
 13 resented populations” and inserting “institutions de-
 14 scribed in section 371(a) of the Higher Education
 15 Act of 1965 (20 U.S.C. 1067q(a))”.

16 **SEC. 6. SEISMIC PERFORMANCE PROPERTY STANDARDS.**

17 Section 947 of the Cranston-Gonzales National Af-
 18 fordable Housing Act (42 U.S.C. 7704a) is amended—

19 (1) in subsection (a), by striking “safety” both
 20 places it appears and inserting “performance”; and

21 (2) in subsection (b), by striking “shake-related
 22 property damage” and inserting “seismic-related
 23 property damage to improve the post-earthquake
 24 functional recovery time”.

1 **SEC. 7. SEISMIC STANDARDS.**

2 Section 8 of the Earthquake Hazards Reduction Act
3 of 1977 (42 U.S.C. 7705b) is amended—

4 (1) in subsection (b), by striking “under para-
5 graph (1)” and inserting “under subsection (a)”;
6 and

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

8 “(c) IMPLEMENTATION OF RECOMMENDATIONS.—

9 Each Program agency, as part of their Program respon-
10 sibilities, shall execute research, projects, grants, and
11 other activities that support, promote, advance, or other-
12 wise implement the recommendations in the report sub-
13 mitted pursuant to subsection (b) to improve the perform-
14 ance of the built environment in terms of post-earthquake
15 reoccupancy and functional recovery time.

16 “(d) BIENNIAL REPORTS.—

17 “(1) BIENNIAL REPORTS TO INTERAGENCY CO-
18 ORDINATING COMMITTEE.—No later than September
19 30, 2025, and not less frequently than once every 2
20 years thereafter, each Program agency shall submit
21 to the Interagency Coordinating Committee a report
22 on activities and progress made to support, promote,
23 or advance the implementation of the recommenda-
24 tions included in the report submitted pursuant to
25 subsection (b).

1 ~~“(2) INCLUSION IN BIENNIAL REPORTS OF~~
 2 ~~INTERAGENCY COORDINATING COMMITTEE.—The~~
 3 ~~Interagency Coordinating Committee shall include~~
 4 ~~the information received under paragraph (1) in~~
 5 ~~each biennial report submitted under section 5(a)(4),~~
 6 ~~including consideration of a prioritized work plan to~~
 7 ~~coordinate activities among the Program agencies~~
 8 ~~and the necessary Program budget to fully imple-~~
 9 ~~ment the recommendations described in paragraph~~
 10 ~~(1).”.~~

11 **SEC. 8. IMPROVEMENTS TO POST-EARTHQUAKE INVES-**
 12 **TIGATIONS PROGRAM.**

13 Section 11 of the Earthquake Hazards Reduction Act
 14 of 1977 (42 U.S.C. 7705e) is amended, in the matter be-
 15 fore paragraph (1)—

16 (1) in the first sentence, by inserting “domestic
 17 and international” after “investigate major”; and

18 (2) in the fifth sentence, by inserting “Federal
 19 Emergency Management” before “Agency”.

20 **SEC. 9. AUTHORIZATION OF APPROPRIATIONS.**

21 (a) **GENERAL AUTHORIZATION FOR PROGRAM.**—Sub-
 22 section (a)(8) of section 12 of the Earthquake Hazards
 23 Reduction Act of 1977 (42 U.S.C. 7706) is amended—

24 (1) in subparagraph (I), by striking “; and”
 25 and inserting a comma; and

1 (2) by inserting after subparagraph (J) the fol-
2 lowing:

3 “(K) \$10,590,000 for fiscal year 2024,

4 “(L) \$10,590,000 for fiscal year 2025,

5 “(M) \$10,590,000 for fiscal year 2026,

6 “(N) \$10,590,000 for fiscal year 2027,

7 and

8 “(O) \$10,590,000 for fiscal year 2028.”.

9 (b) UNITED STATES GEOLOGICAL SURVEY.—Sub-
10 section (b)(2) of such section is amended—

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

13 (2) in subparagraph (J), by striking the period
14 at the end and inserting a semicolon; and

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

16 “(K) \$100,900,000 for fiscal year 2024, of
17 which not less than \$36,000,000 shall be made
18 available for completion of the Advanced Na-
19 tional Seismic System established under section
20 13;

21 “(L) \$100,900,000 for fiscal year 2025, of
22 which not less than \$36,000,000 shall be made
23 available for completion of the Advanced Na-
24 tional Seismic System established under section
25 13;

1 “(M) \$100,900,000 for fiscal year 2026, of
 2 which not less than \$36,000,000 shall be made
 3 available for completion of the Advanced Na-
 4 tional Seismic System established under section
 5 13;

6 “(N) \$100,900,000 for fiscal year 2027, of
 7 which not less than \$36,000,000 shall be made
 8 available for completion of the Advanced Na-
 9 tional Seismic System established under section
 10 13; and

11 “(O) \$100,900,000 for fiscal year 2028, of
 12 which not less than \$36,000,000 shall be made
 13 available for completion of the Advanced Na-
 14 tional Seismic System established under section
 15 13.”.

16 (e) NATIONAL SCIENCE FOUNDATION.—Subsection
 17 (e)(2) of such section is amended—

18 (1) in subparagraph (I), by striking “, and”
 19 and inserting a comma;

20 (2) in subparagraph (J), by striking the period
 21 at the end and inserting a comma; and

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

23 “(K) \$58,000,000 for fiscal year 2024,

24 “(L) \$58,000,000 for fiscal year 2025,

25 “(M) \$58,000,000 for fiscal year 2026,

1 “(N) \$58,000,000 for fiscal year 2027,

2 and

3 “(O) \$58,000,000 for fiscal year 2028.”.

4 (d) NATIONAL INSTITUTE OF STANDARDS AND
5 TECHNOLOGY.—Subsection (d)(2) of such section is
6 amended—

7 (1) in subparagraph (I), by striking “, and”
8 and inserting a comma;

9 (2) in subparagraph (J), by striking the period
10 at the end and inserting a comma; and

11 (3) by inserting after subparagraph (J) the fol-
12 lowing:

13 “(K) \$5,900,000 for fiscal year 2024,

14 “(L) \$5,900,000 for fiscal year 2025,

15 “(M) \$5,900,000 for fiscal year 2026,

16 “(N) \$5,900,000 for fiscal year 2027, and

17 “(O) \$5,900,000 for fiscal year 2028,”.

18 **SECTION 1. SHORT TITLE.**

19 *This Act may be cited as the “National Earthquake*
20 *Hazards Reduction Program Reauthorization Act of 2025”.*

21 **SEC. 2. MODIFICATION OF FINDINGS.**

22 *Section 2 of the Earthquake Hazards Reduction Act*
23 *of 1977 (42 U.S.C. 7701) is amended—*

24 (1) in paragraph (1)—

1 (A) by striking “50 States, and the Com-
 2 monwealth of Puerto Rico,” and inserting
 3 “States and Tribal jurisdictions”;

4 (B) by striking “of them” and inserting
 5 “States”;

6 (C) by striking “Tennessee,,” and inserting
 7 “, Tennessee,”; and

8 (D) by striking “A large portion of the pop-
 9 ulation of the United States lives in areas vul-
 10 nerable to earthquake hazards” and inserting
 11 “Almost half of the United States population re-
 12 sides in areas that are at risk or experiencing a
 13 damaging earthquake during the 50-year period
 14 beginning on the date of the enactment of the
 15 National Earthquake Hazards Reduction Pro-
 16 gram Reauthorization Act of 2025”;

17 (2) in paragraph (2)—

18 (A) by inserting after the first sentence the
 19 following: “A 2023 report by the Federal Emer-
 20 gency Management Agency and the United
 21 States Geological Survey (FEMA P-366) esti-
 22 mates the annualized earthquake losses to the na-
 23 tional building stock is \$14,700,000,000 per year
 24 and the total economic exposure to earthquake

1 *losses (buildings and contents) across the nation*
 2 *is \$107,800,000,000,000.”; and*

3 *(B) in the third sentence—*

4 *(i) by striking “and construction” and*
 5 *inserting “, construction, evaluation, and*
 6 *retrofitting”; and*

7 *(ii) by striking “and (E)” and insert-*
 8 *ing the following: “(E) inventories of build-*
 9 *ings and infrastructure with high seismic*
 10 *risk, especially those that are critical to*
 11 *community resilience, (F) programs that re-*
 12 *quire or incentivize replacement or retrofit*
 13 *of existing buildings and infrastructure*
 14 *with high seismic risk, especially those that*
 15 *are critical to community resilience, and*
 16 *(G)”;*

17 *(3) in paragraph (3), by inserting “Tribal,”*
 18 *after “local,”;*

19 *(4) in paragraph (4), by striking “could pro-*
 20 *vide” and all that follows through the period at the*
 21 *end and inserting “is necessary to provide the sci-*
 22 *entific understanding needed to improve and expand*
 23 *the earthquake early warning system.”;*

24 *(5) in paragraph (8), by striking “cave-ins” and*
 25 *inserting “collapse”;*

1 (6) in paragraph (9)—

2 (A) in the first sentence, by striking “and
3 local” and inserting “local, and Tribal govern-
4 ment”;

5 (B) in the second sentence, by striking
6 “transfer knowledge and information to” and in-
7 serting “exchange knowledge and information be-
8 tween”; and

9 (C) in the third sentence, by striking “speci-
10 fications, criteria” and inserting “guidelines,
11 codes, standards”;

12 (7) in paragraph (12)—

13 (A) in the second sentence—

14 (i) by striking “When earthquakes
15 occur, the built environment is generally”
16 and inserting “Relatively newer buildings
17 and infrastructure have generally been”;
18 and

19 (ii) by striking “and is” and inserting
20 “when earthquakes occur, but most are”;
21 and

22 (B) by adding at the end the following: “In
23 addition, buildings and infrastructure built to
24 older codes and standards may pose significant
25 risk of injury, loss of life, or irreparable damage.

1 *A 2021 report submitted to Congress pursuant to*
 2 *section 8(b), as amended by section 5 of the Na-*
 3 *tional Earthquake Hazards Reduction Program*
 4 *Reauthorization Act of 2018 (Public Law 115–*
 5 *307), by the Federal Emergency Management*
 6 *Agency and the National Institute of Standards*
 7 *and Technology (FEMA P2090/NST SP–1254)*
 8 *provides recommendations for improving post-*
 9 *earthquake functional recovery time of the built*
 10 *environment to support community resilience*
 11 *goals and many of these recommendations still*
 12 *need to be implemented.”; and*
 13 *(8) in paragraph (13)—*

14 *(A) in the first sentence, by inserting “in*
 15 *2011” after “a study”;*

16 *(B) in the second sentence, by inserting “(in*
 17 *2011 dollars)” after “\$300,000,000”; and*

18 *(C) by adding at the end the following:*
 19 *“The cost of actual seismic retrofits to reduce*
 20 *known risks is not included in such valuation.”.*

21 **SEC. 3. MODIFICATION OF PURPOSE.**

22 *Section 3 of the Earthquake Hazards Reduction Act*
 23 *of 1977 (42 U.S.C. 7702) is amended—*

24 *(1) in paragraph (1)—*

1 (A) by striking “and local” and inserting “,
2 local, and Tribal government”; and

3 (B) by striking “locations and structures”
4 and inserting “buildings and infrastructure”;
5 (2) in paragraph (2)—

6 (A) by striking “and construction” and in-
7 serting “, construction, evaluation, and retro-
8 fitting”; and

9 (B) by inserting “housing and care facili-
10 ties for vulnerable populations,” after “occu-
11 pancy buildings,”; and

12 (3) in paragraph (4)—

13 (A) by striking “and local” and inserting “,
14 local, and Tribal government”; and

15 (B) by striking “encourage consideration
16 of” and inserting “incorporate”.

17 **SEC. 4. MODIFICATION OF DEFINITIONS.**

18 Section 4 of the Earthquake Hazards Reduction Act
19 of 1977 (42 U.S.C. 7703) is amended—

20 (1) in paragraph (3), by inserting “, including
21 secondary effects such as earthquake-caused tsunamis”
22 after “earthquakes”; and

23 (2) by adding at the end the following:

24 “(11) The term ‘Tribal government’ has the
25 meaning given the term ‘tribal government’ in section

1 421 of the Congressional Budget Act of 1974 (2
2 U.S.C. 658).

3 “(12) The term ‘functional recovery’ means a
4 post-earthquake performance state in which a build-
5 ing or lifeline infrastructure system is maintained, or
6 restored, to safely and adequately support the basic
7 intended functions associated with the pre-earthquake
8 use or occupancy of a building, or the pre-earthquake
9 service level of a lifeline infrastructure system.

10 “(13) The term ‘earthquake forecast’ means a
11 statement of probabilities that 1 or more earthquakes
12 within a clearly specified magnitude range may occur
13 within a specified time interval and geographic re-
14 gion.”.

15 **SEC. 5. IMPROVEMENTS TO NATIONAL EARTHQUAKE HAZ-**
16 **ARDS REDUCTION PROGRAM.**

17 (a) *PROGRAM ACTIVITIES*.—Subsection (a)(2) of sec-
18 tion 5 of the Earthquake Hazards Reduction Act of 1977
19 (42 U.S.C. 7704) is amended—

20 (1) in subparagraph (B)—

21 (A) in the matter before clause (i)—

22 (i) by striking “and local” and insert-
23 ing “local, and Tribal”; and

1 (ii) by striking “and constructing”
 2 and inserting “, designing, constructing,
 3 evaluating, and retrofitting”;

4 (B) by amending clause (ii) to read as fol-
 5 lows:

6 “(ii) development of standards, guide-
 7 lines, and voluntary standards, guidelines,
 8 and consensus codes for earthquake hazards
 9 reduction for buildings, structures, and life-
 10 line infrastructure, including post-earth-
 11 quake recovery-based performance objectives
 12 that address reoccupancy and downtime of
 13 community-prioritized buildings, structures,
 14 and services provided by lifeline infrastruc-
 15 ture;”;

16 (C) in clause (iii), by striking “and hazards
 17 reduction; and” and inserting “functional recov-
 18 ery, and other hazards reduction topics;”;

19 (D) in clause (iv)—

20 (i) by inserting “and maintaining”
 21 after “publishing”;

22 (ii) by inserting “in coordination with
 23 the National Tsunami Hazards Mitigation
 24 Program, tsunami susceptibility,” after
 25 “liquefaction susceptibility,”; and

1 (iii) by striking “; and” and inserting
2 a semicolon; and

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

4 “(v) subject to the availability of funds,
5 development of best practices and guidelines
6 to create an inventory of and conduct seis-
7 mic performance evaluations of buildings,
8 structures, and lifeline infrastructure with
9 high seismic risk, especially those that are
10 critical to community resilience; and

11 “(vi) subject to the availability of
12 funds, the provision of technical assistance
13 upon request by a State, local, or Tribal
14 government regarding—

15 “(I) the creation of an inventory
16 of buildings, structures, and lifeline in-
17 frastructure;

18 “(II) the performance of seismic
19 performance evaluations; and

20 “(III) cost-effective best practices
21 for retrofitting existing buildings,
22 structures, and lifeline infrastructure.”;

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

1 (3) *by redesignating subparagraph (D) as sub-*
 2 *paragraph (E); and*

3 (4) *by inserting after subparagraph (C) the fol-*
 4 *lowing:*

5 “(D) *improve the understanding of—*

6 “(i) *the multiple hazards associated*
 7 *with earthquakes, including liquefaction,*
 8 *tsunamis, landslides, and structural fires;*
 9 *and*

10 “(ii) *potential mitigation measures for*
 11 *such hazards; and”.*

12 (b) *DUTIES OF INTERAGENCY COORDINATING COM-*
 13 *MITTEE ON EARTHQUAKE HAZARDS REDUCTION.—Sub-*
 14 *section (a)(3)(D)(ii) of such section is amended—*

15 (1) *in subclause (V), by inserting “and associ-*
 16 *ated secondary hazards” before the period at the end;*
 17 *and*

18 (2) *by adding at the end the following:*

19 “(VIII) *Coordinating with the*
 20 *Chair of the Federal Communications*
 21 *Commission on the timely broadcasting*
 22 *of emergency alerts generated by the*
 23 *earthquake early warning system.”.*

24 (c) *BIENNIAL REPORT.—Subsection (a)(4)(A) of such*
 25 *section is amended by striking “under paragraph*

1 (3)(D)(i)(I)” each place it appears and inserting “under
2 paragraph (3)(D)(ii)(I)”.

3 (d) *ADVISORY COMMITTEE*.—Subsection (a)(5)(A) of
4 such section is amended—

5 (1) by inserting “the Chair of the Scientific
6 Earthquake Studies Advisory Committee and” after
7 “including”; and

8 (2) by striking “and local government” and in-
9 serting “, local, and Tribal governments”.

10 (e) *LEAD AGENCY FOR RESPONSIBILITIES OF PRO-*
11 *GRAM AGENCIES*.—Subsection (b)(1) of such section is
12 amended—

13 (1) in subparagraph (A), by striking “and local”
14 and all that follows through the semicolon at the end
15 and inserting the following: “local, and Tribal gov-
16 ernments, national standards and model building
17 code organizations, architects and engineers, and oth-
18 ers with a role in planning, designing, constructing,
19 evaluating, and retrofitting buildings and lifeline in-
20 frastructure;”;

21 (2) by redesignating subparagraphs (C) and (D)
22 as subparagraphs (F) and (G), respectively; and

23 (3) by inserting after subparagraph (B) the fol-
24 lowing:

1 “(C) improve the understanding of earth-
 2 quake-caused fires and support the development
 3 of engineering tools and construction methods
 4 that mitigate the risk of fire following earth-
 5 quakes;

6 “(D) develop, in coordination with the Ad-
 7 ministrator of the Federal Emergency Manage-
 8 ment Agency, best practices and guidelines for a
 9 State, local, or Tribal government to create an
 10 inventory of buildings, structures, or lifeline in-
 11 frastructure that are critical to community resil-
 12 ience or otherwise have high seismic risk;

13 “(E) provide, in coordination with the Ad-
 14 ministrator of the Federal Emergency Manage-
 15 ment Agency, technical assistance to a State,
 16 local, or Tribal government requesting such as-
 17 sistance with respect to the creation of an inven-
 18 tory of buildings, structures, or lifeline infra-
 19 structure;”.

20 (f) *RESPONSIBILITIES OF FEDERAL EMERGENCY MAN-*
 21 *AGEMENT AGENCY.*—Subsection (b)(2) of such section is
 22 amended—

23 (1) in subparagraph (A)—

24 (A) in clause (i)—

1 (i) by inserting “and Tribal govern-
2 ments” after “States”;

3 (ii) by inserting “and performance
4 evaluations” after “safety inspections”; and

5 (iii) by inserting “and improve post-
6 earthquake functional recovery” after “seis-
7 mic safety”;

8 (B) in clause (ii), by inserting “, including
9 Tribal entities,” after “appropriate audiences”;

10 (C) in clause (iii)—

11 (i) by striking “of seismic resistant”
12 and inserting “to all appropriate audiences,
13 including Tribal governments, of”; and

14 (ii) by inserting “that enhance seismic
15 safety, improve post-earthquake functional
16 recovery, and reduce losses from earth-
17 quakes” after “and lifeline infrastructure”;

18 (D) in clause (iv)—

19 (i) in striking “and local” and insert-
20 ing “, local, and Tribal”; and

21 (ii) by striking “; and” and inserting
22 a semicolon;

23 (E) by redesignating clause (v) as clause
24 (vi); and

1 (F) by inserting after clause (iv) the fol-
 2 lowing:

3 “(v) shall provide technical assistance
 4 to State, local, or Tribal governmental enti-
 5 ties in the creation of evacuation plans in
 6 the event of an earthquake, landslide, tsu-
 7 nami, or other earthquake-related hazard;
 8 and”;

9 (2) in subparagraph (B)—

10 (A) in the subparagraph heading, by insert-
 11 ing “AND TRIBAL” after “STATE”;

12 (B) in the matter before clause (i), by in-
 13 serting “or Tribal government” after “State”;
 14 and

15 (C) in clause (i), by striking “safety” and
 16 inserting “performance, community resilience, or
 17 public awareness”.

18 (g) RESPONSIBILITIES OF UNITED STATES GEOLOGI-
 19 CAL SURVEY.—Subsection (b)(3) of such section is amend-
 20 ed—

21 (1) in subparagraph (B), by striking “and local”
 22 and inserting “, local, and Tribal”;

23 (2) in subparagraph (C), by inserting “, the
 24 Chair of the Federal Communications Commission,”
 25 after “Agency”;

1 (3) by redesignating subparagraphs (D) through
2 (K) as subparagraphs (I) through (P), respectively;

3 (4) by inserting after subparagraph (C) the fol-
4 lowing:

5 “(D) coordinate with the Administrator of
6 the National Oceanic and Atmospheric Adminis-
7 tration and the Administrator of the Federal
8 Emergency Management Agency on data sharing
9 and resource allocation to support a timely re-
10 sponse to oceanic earthquakes and tsunamis;

11 “(E) in consultation with the Chair of the
12 Federal Communications Commission, ensure
13 that earthquake alerts and early warnings are
14 broadcast as rapidly and reliably as possible, in
15 the predominant languages in the affected region,
16 to ensure maximum warning time for nearby
17 persons;

18 “(F) expand the earthquake early warning
19 system within and to additional high risk haz-
20 ard areas, including making improvements as
21 practicable to improve detection and increase the
22 time between warning messages and perceptible
23 ground motion;

1 “(G) coordinating with affected State and
 2 Tribal governments on earthquake early warning
 3 system improvements;

4 “(H) issue earthquake forecasts, when ap-
 5 propriate, for aftershocks associated with signifi-
 6 cant earthquakes in the United States;”;

7 (5) in subparagraph (I), as redesignated by
 8 paragraph (3), by inserting “the Chair of the Federal
 9 Communications Commission,” after “Agency,”;

10 (6) in subparagraph (L), as redesignated by
 11 paragraph (3), by striking “; and” and inserting a
 12 semicolon;

13 (7) in subparagraph (M), as redesignated by
 14 paragraph (3), by striking the period at the end and
 15 inserting a semicolon; and

16 (8) in subparagraph (O), as redesignated by
 17 paragraph (3), by inserting “maps of natural hazards
 18 associated with earthquakes and” after “including”.

19 (h) *RESPONSIBILITIES OF NATIONAL SCIENCE FOUN-*
 20 *DATION.*—Subsection (b)(4)(A) of such section is amend-
 21 ed—

22 (1) in clause (iii), by inserting “including up-
 23 dated tsunami and liquefaction risk maps,” after
 24 “maps,”; and

1 (2) *in clause (vii), by striking “Historically*
 2 *Black Colleges and Universities and those serving*
 3 *large proportions of Hispanics, Native Americans,*
 4 *Asian-Pacific Americans, and other underrepresented*
 5 *populations” and inserting “institutions described in*
 6 *section 371(a) of the Higher Education Act of 1965*
 7 *(20 U.S.C. 1067q(a))”.*

8 **SEC. 6. SEISMIC PERFORMANCE PROPERTY STANDARDS.**

9 *Section 947 of the Cranston-Gonzales National Afford-*
 10 *able Housing Act (42 U.S.C. 7704a) is amended—*

11 (1) *in subsection (a), by striking “safety” both*
 12 *places it appears and inserting “performance”; and*

13 (2) *in subsection (b), by striking “shake-related*
 14 *property damage” and inserting “seismic-related*
 15 *property damage to improve the post-earthquake func-*
 16 *tional recovery time”.*

17 **SEC. 7. SEISMIC STANDARDS.**

18 *Section 8 of the Earthquake Hazards Reduction Act*
 19 *of 1977 (42 U.S.C. 7705b) is amended—*

20 (1) *in subsection (b), by striking “under para-*
 21 *graph (1)” and inserting “under subsection (a)”;* and

22 (2) *by adding at the end the following:*

23 “(c) *IMPLEMENTATION OF RECOMMENDATIONS.—Each*
 24 *Program agency, as part of their Program responsibilities,*
 25 *shall implement, within the Program activities authorized*

1 *by this Act, the applicable recommendations in the report*
 2 *submitted pursuant to subsection (b) to improve the per-*
 3 *formance of the built environment in terms of post-earth-*
 4 *quake reoccupancy and functional recovery time.*

5 “(d) *BIENNIAL REPORTS.*—

6 “(1) *BIENNIAL REPORTS TO INTERAGENCY CO-*
 7 *ORDINATING COMMITTEE.*—*No later than September*
 8 *30, 2025, and not less frequently than once every 2*
 9 *years thereafter, each Program agency shall submit to*
 10 *the Interagency Coordinating Committee a report on*
 11 *activities and progress made to support, promote, or*
 12 *advance the implementation of the recommendations*
 13 *included in the report submitted pursuant to sub-*
 14 *section (b).*

15 “(2) *INCLUSION IN BIENNIAL REPORTS OF*
 16 *INTERAGENCY COORDINATING COMMITTEE.*—*The*
 17 *Interagency Coordinating Committee shall include the*
 18 *information received under paragraph (1) in each bi-*
 19 *ennial report submitted under section 5(a)(4), includ-*
 20 *ing consideration of a prioritized work plan to co-*
 21 *ordinate activities among the Program agencies and*
 22 *the necessary Program budget to fully implement the*
 23 *recommendations described in paragraph (1).”.*

1 **SEC. 8. IMPROVEMENTS TO POST-EARTHQUAKE INVESTIGA-**
 2 **TIONS PROGRAM.**

3 *Section 11 of the Earthquake Hazards Reduction Act*
 4 *of 1977 (42 U.S.C. 7705e) is amended, in the matter before*
 5 *paragraph (1)—*

6 *(1) in the first sentence, by inserting “domestic*
 7 *and international” after “investigate major”; and*

8 *(2) in the fifth sentence, by inserting “Federal*
 9 *Emergency Management” before “Agency”.*

10 **SEC. 9. AUTHORIZATION OF APPROPRIATIONS.**

11 *(a) GENERAL AUTHORIZATION FOR PROGRAM.—Sub-*
 12 *section (a)(8) of section 12 of the Earthquake Hazards Re-*
 13 *duction Act of 1977 (42 U.S.C. 7706) is amended—*

14 *(1) in subparagraph (I), by striking “, and” and*
 15 *inserting a comma; and*

16 *(2) by inserting after subparagraph (J) the fol-*
 17 *lowing:*

18 *“(K) \$8,500,000 for fiscal year 2024,*

19 *“(L) \$8,500,000 for fiscal year 2025,*

20 *“(M) \$8,500,000 for fiscal year 2026,*

21 *“(N) \$8,500,000 for fiscal year 2027, and*

22 *“(O) \$8,500,000 for fiscal year 2028.”.*

23 *(b) UNITED STATES GEOLOGICAL SURVEY.—Sub-*
 24 *section (b)(2) of such section is amended—*

25 *(1) in subparagraph (I), by striking “; and” and*
 26 *inserting a semicolon;*

1 (2) *in subparagraph (J), by striking the period*
2 *at the end and inserting a semicolon; and*

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

4 “(K) \$92,427,000 for fiscal year 2024, of
5 *which not less than \$36,000,000 shall be made*
6 *available for completion of the Advanced Na-*
7 *tional Seismic System established under section*
8 13;

9 “(L) \$92,427,000 for fiscal year 2025, of
10 *which not less than \$36,000,000 shall be made*
11 *available for completion of the Advanced Na-*
12 *tional Seismic System established under section*
13 13;

14 “(M) \$92,427,000 for fiscal year 2026, of
15 *which not less than \$36,000,000 shall be made*
16 *available for completion of the Advanced Na-*
17 *tional Seismic System established under section*
18 13;

19 “(N) \$92,427,000 for fiscal year 2027, of
20 *which not less than \$36,000,000 shall be made*
21 *available for completion of the Advanced Na-*
22 *tional Seismic System established under section*
23 13; and

24 “(O) \$92,427,000 for fiscal year 2028, of
25 *which not less than \$36,000,000 shall be made*

1 *available for completion of the Advanced Na-*
 2 *tional Seismic System established under section*
 3 *13.”.*

4 (c) *NATIONAL SCIENCE FOUNDATION.—Subsection*
 5 (c)(2) *of such section is amended—*

6 (1) *in subparagraph (I), by striking “, and” and*
 7 *inserting a comma;*

8 (2) *in subparagraph (J), by striking the period*
 9 *at the end and inserting a comma; and*

10 (3) *by adding at the end the following:*

11 “(K) \$54,000,000 for fiscal year 2024,

12 “(L) \$54,000,000 for fiscal year 2025,

13 “(M) \$54,000,000 for fiscal year 2026,

14 “(N) \$54,000,000 for fiscal year 2027, and

15 “(O) \$54,000,000 for fiscal year 2028.”.

16 (d) *NATIONAL INSTITUTE OF STANDARDS AND TECH-*
 17 *NOLOGY.—Subsection (d)(2) of such section is amended—*

18 (1) *in subparagraph (I), by striking “, and” and*
 19 *inserting a comma;*

20 (2) *in subparagraph (J), by striking the period*
 21 *at the end and inserting a comma; and*

22 (3) *by inserting after subparagraph (J) the fol-*
 23 *lowing:*

24 “(K) \$5,900,000 for fiscal year 2024,

25 “(L) \$5,900,000 for fiscal year 2025,

- 1 “(M) \$5,900,000 for fiscal year 2026,
- 2 “(N) \$5,900,000 for fiscal year 2027, and
- 3 “(O) \$5,900,000 for fiscal year 2028,”.

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[Report No. 119-74]

A BILL

To reauthorize the Earthquake Hazards Reduction
Act of 1977, and for other purposes.

OCTOBER 14, 2025

Reported with an amendment