

115TH CONGRESS 1ST SESSION

H.R.654

AN ACT

- To direct the Administrator of the Federal Emergency Management Agency to carry out a plan for the purchase and installation of an earthquake early warning system for the Cascadia Subduction Zone, 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; DEFINITION.

2	(a) SHORT TITLE.—This Act may be cited as the				
3	"Pacific Northwest Earthquake Preparedness Act of				
4	2017".				
5	(b) Cascadia Subduction Zone Defined.—In				
6	this Act, the term "Cascadia Subduction Zone" means the				
7	landward-dipping fault that is approximately 684 miles				
8	long, separates the Juan de Fuca and North America				
9	plates, and stretches along a portion of the western coast				
10	of the United States beginning off Cape Mendocino, Cali-				
11	fornia, along the State of Oregon, the State of Wash-				
12	ington, to Northern Vancouver Island, British Columbia.				
13	SEC. 2. EARTHQUAKE EARLY WARNING SYSTEM FOR				
14	CASCADIA SUBDUCTION ZONE.				
14 15	CASCADIA SUBDUCTION ZONE. (a) Plan for Purchase and Installation.—				
15	(a) Plan for Purchase and Installation.—				
15 16	(a) Plan for Purchase and Installation.— (1) Development and funding.—The Ad-				
15 16 17	 (a) Plan for Purchase and Installation.— (1) Development and funding.—The Administrator of the Federal Emergency Management 				
15 16 17 18	 (a) Plan for Purchase and Installation.— (1) Development and funding.—The Administrator of the Federal Emergency Management Agency shall— 				
15 16 17 18 19	 (a) Plan for Purchase and Installation.— (1) Development and funding.—The Administrator of the Federal Emergency Management Agency shall— (A) develop a plan for the purchase and in- 				
15 16 17 18 19 20	 (a) Plan for Purchase and Installation.— (1) Development and funding.—The Administrator of the Federal Emergency Management Agency shall— (A) develop a plan for the purchase and installation of an earthquake early warning systematical entire early warning systematical entire earthquake early warning systematical entire enti				
15 16 17 18 19 20 21	 (a) Plan for Purchase and Installation.— (1) Development and funding.—The Administrator of the Federal Emergency Management Agency shall— (A) develop a plan for the purchase and installation of an earthquake early warning system for the Cascadia Subduction Zone; and 				
15 16 17 18 19 20 21 22	 (a) Plan for Purchase and Installation.— (1) Development and funding.—The Administrator of the Federal Emergency Management Agency shall— (A) develop a plan for the purchase and installation of an earthquake early warning system for the Cascadia Subduction Zone; and (B) identify the funds necessary for imple- 				

1	Administrator shall submit to the appropriate com			
2	mittees of Congress a copy of the plan.			
3	(b) Report to Congress.—Not later than 1 year			
4	after the date of enactment of this Act, the Administrator			
5	shall submit to the appropriate committees of Congress			
6	a report that summarizes the actions taken to implement			
7	the plan.			
8	(c) Definitions.—In this section, the following defi			
9	nitions apply:			
10	(1) Appropriate committees of con-			
11	GRESS.—The term "appropriate committees of Con			
12	gress' means the Committee on Transportation and			
13	Infrastructure of the House of Representatives and			
14	the Committee on Homeland Security and Govern			
15	mental Affairs of the Senate.			
16	(2) Earthquake Early Warning System.—			
17	The term "earthquake early warning system" in			
18	cludes—			
19	(A) improvements to regional and geodetic			
20	networks that support building a capability for			
21	an earthquake early warning system; and			
22	(B) seismometers, Global Positioning Sys			
23	tem receivers, and associated infrastructure.			

1 SEC. 3. EARTHQUAKE AND TSUNAMI TASK FORCE.

2	(a) In General.—The President shall establish an				
3	Earthquake and Tsunami Task Force for the purpose of				
4	developing a comprehensive strategy and recommenda-				
5	tions on how the Nation should prepare and plan for, miti-				
6	gate against, respond to, recover from, and more success-				
7	fully adapt to a covered event in the Cascadia Subduction				
8	Zone.				
9	(b) Task Force.—				
10	(1) Membership.—The membership of the				
11	Task Force shall include a cross section of subject				
12	matter experts representing the following:				
13	(A) Relevant Federal agencies.				
14	(B) The States of Oregon, Washington,				
15	and California.				
16	(C) Indian tribes, local governments, and				
17	private sector representatives that may be im-				
18	pacted by a covered event in the Cascadia				
19	Subduction Zone.				
20	(D) Universities, academia, and research				
21	institutions with expertise in topics relevant to				
22	the work of the Task Force.				
23	(2) Chairperson.—The Administrator (or the				
24	Administrator's designee) shall serve as the chair-				
25	person of the Task Force.				

1	(3) Detailed employees.—Members of the
2	Task Force may detail employees to assist the Ad-
3	ministrator (or the Administrator's designee) in ful-
4	filling the responsibilities of the Task Force.
5	(c) Comprehensive Strategy.—
6	(1) Strategy.—The comprehensive strategy to
7	be developed under subsection (a) shall include the
8	following:
9	(A) A description of how Federal agencies
10	will coordinate to develop the ability to prepare
11	and plan for, mitigate against, respond to, re-
12	cover from, and more successfully adapt to the
13	impacts of a covered event in the Cascadia
14	Subduction Zone.
15	(B) A strategy to ensure collaboration be-
16	tween the Department of Transportation, the
17	Department of Energy, the Coast Guard, the
18	Corps of Engineers, and other Federal agencies,
19	as appropriate, for purposes of—
20	(i) completing a needs assessment of
21	Federal facilities in need of hardening for
22	a covered event; and
23	(ii) developing a strategic plan to
24	mitigate and retrofit Federal, State, tribal,
25	and local critical assets for freight, energy,

1	and transit purposes to withstand a cov-
2	ered event and to help save lives during
3	and immediately after a covered event.
4	(C) A strategy—
5	(i) to assist State, tribal, and local
6	governments in developing and imple-
7	menting a coordinated and comprehensive
8	plan to prioritize Federal, State, tribal,
9	local, and private investments and activi-
10	ties to develop the ability to prepare and
11	plan for, mitigate against, respond to, re-
12	cover from, and more successfully adapt to
13	the impacts of a covered event in the
14	Cascadia Subduction Zone; and
15	(ii) to link any existing statewide miti-
16	gation plan with such a coordinated and
17	comprehensive plan.
18	(D) With respect to the strategy described
19	in subparagraph (C), an examination of the fea-
20	sibility of the public sector, the private sector,
21	and individuals to acquire earthquake insur-
22	ance.
23	(E) An identification of funding opportuni-
24	ties to implement the comprehensive strategy

1	and any recommendations made by the Task
2	Force, including—
3	(i) existing funding opportunities
4	across Federal agencies and other sources;
5	and
6	(ii) potential new funding opportuni-
7	ties.
8	(F) An identification of barriers to obtain-
9	ing funding for the implementation of the com-
10	prehensive strategy and recommendations on
11	how to remove the barriers.
12	(G) A strategy for appropriate Federal
13	agencies to collaborate with and assist State,
14	tribal, and local governments in developing rec-
15	ommendations for cost-effective mitigation al-
16	ternatives for aging State, tribal, and locally
17	owned critical infrastructure.
18	(H) A strategy for assisting State, tribal,
19	and local governments in developing a recovery
20	plan prior to a covered event in the Cascadia
21	Subduction Zone that addresses how State,
22	tribal, and local governments may want to re-
23	build after the event.
24	(I) An identification of the steps taken to
25	date to develop an onshore and offshore earth-

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1	quake early warning system and a description
2	of the purpose and scope of such a system.
3	(J) An evaluation of the types of offshore
4	earthquake early warning systems and rec-
5	ommendations and a cost estimate for an earth-
6	quake early warning system appropriate for the
7	Cascadia Subduction Zone.
8	(K) Recommendations on how an earth-
9	quake early warning system should operate, in-
10	cluding whether and how the system should
11	interface with the private sector.
12	(L) A description of appropriate roles and
13	responsibilities for Federal, State, local, and
14	tribal governments, including who should oper-
15	ate and maintain an earthquake early warning
16	system, the cost of the system, and possible
17	funding sources for the system.
18	(M) A plan on how to integrate an earth-
19	quake early warning system into existing and
20	new public alert warning systems and tech-
21	nologies, including mobile systems.
22	(2) Use of existing plans.—In developing
23	the comprehensive strategy, the Task Force may use

existing plans, studies, and other resources.

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1	(d) Recommendations.—The recommendations to
2	be developed by the Task Force under subsection (a) shall
3	include recommendations on—
4	(1) potential administrative or legislative
5	changes required to implement the comprehensive
6	strategy;
7	(2) the funding required to implement the com-
8	prehensive strategy and the recommendations; and
9	(3) the order of priority for implementation of
10	the comprehensive strategy.
11	(e) National Academies.—
12	(1) Collaboration.—The Task Force shall
13	work simultaneously and collaboratively with the Na-
14	tional Academies.
15	(2) AGREEMENT.—The Task Force shall enter
16	into an agreement with the National Academies
17	under which the National Academies shall develop
18	recommendations for a Federal research strategy to
19	advance scientific understanding of a Cascadia
20	Subduction Zone earthquake and resulting tsunami
21	preparedness, including the following:
22	(A) Geologic conditions, ground motions,
23	and tsunami hazards.
24	(B) Implications of an effective automated
25	early warning system.

1	(C) Effects of mega-earthquake and tsu-
2	nami events on the built and natural environ-
3	ment.
4	(D) Social and behavioral factors for effec-
5	tive disaster preparedness and response.
6	(E) Cost-effective mitigation alternatives
7	for legacy and aging infrastructure.
8	(F) Strategic planning for freight, energy,
9	and transit network robustness.
10	(G) Tools that help communities invest
11	their resources for the greatest benefit.
12	(H) Any other topics identified as nec-
13	essary by the Task Force or the National Acad-
14	emies.
15	(f) Report.—Not later than 18 months after the
16	date of enactment of this Act, the Administrator shall sub-
17	mit to the Committee on Transportation and Infrastruc-
18	ture of the House of Representatives and the Committee
19	on Homeland Security and Governmental Affairs of the
20	Senate a report of the Task Force that includes the fol-
21	lowing:
22	(1) The comprehensive strategy to be developed
23	under subsection (a).
24	(2) The recommendations to be developed under
25	subsections (a), (d), and (e).

1	(g) Definitions.—In this section, the following defi-			
2	nitions apply:			
3	(1) Administrator.—The term "Adminis-			
4	trator" means the Administrator of the Federal			
5	Emergency Management Agency.			
6	(2) COVERED EVENT.—The term "covered			
7	event" means an earthquake, tsunami, or combined			
8	earthquake and tsunami event.			
9	(3) Task force.—The term "Task Force"			
10	means the Federal interagency task force to be es-			
11	tablished under subsection (a).			
12	SEC. 4. NATIONAL PREPARATION AND RESPONSE EFFORTS			
13	RELATING TO EARTHQUAKES AND TSUNAMIS.			
13 14	RELATING TO EARTHQUAKES AND TSUNAMIS. The Administrator of the Federal Emergency Man-			
14 15	The Administrator of the Federal Emergency Man-			
141516	The Administrator of the Federal Emergency Management Agency shall be responsible for the Nation's ef-			
14151617	The Administrator of the Federal Emergency Management Agency shall be responsible for the Nation's efforts to reduce the loss of life and property, and to protect			
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14 15 16 17 18	The Administrator of the Federal Emergency Management Agency shall be responsible for the Nation's efforts to reduce the loss of life and property, and to protect the Nation, from an earthquake, tsunami, or combined earthquake and tsunami event by developing the ability			
141516171819	The Administrator of the Federal Emergency Management Agency shall be responsible for the Nation's efforts to reduce the loss of life and property, and to protect the Nation, from an earthquake, tsunami, or combined earthquake and tsunami event by developing the ability to prepare and plan for, mitigate against, respond to, re-			
14 15 16 17 18 19 20	The Administrator of the Federal Emergency Management Agency shall be responsible for the Nation's efforts to reduce the loss of life and property, and to protect the Nation, from an earthquake, tsunami, or combined earthquake and tsunami event by developing the ability to prepare and plan for, mitigate against, respond to, recover from, and more successfully adapt to such an event.			
14 15 16 17 18 19 20 21	The Administrator of the Federal Emergency Management Agency shall be responsible for the Nation's efforts to reduce the loss of life and property, and to protect the Nation, from an earthquake, tsunami, or combined earthquake and tsunami event by developing the ability to prepare and plan for, mitigate against, respond to, recover from, and more successfully adapt to such an event. SEC. 5. ADDITIONAL HAZARD MITIGATION ACTIVITIES.			

1	"(f) Use of Assistance.—Recipients of hazard				
2	mitigation assistance provided under this section and sec-				
3	tion 203 may use the assistance to conduct activities to				
4	help reduce the risk of future damage, hardship, loss, or				
5	suffering in any area affected by earthquake hazards, in				
6	cluding—				
7	"(1) improvements to regional seismic networks				
8	in support of building a capability for earthquake				
9	early warning;				
10	"(2) improvements to geodetic networks in sup-				
11	port of building a capability for earthquake early				
12	warning; and				
13	"(3) improvements to seismometers, Global Po-				
14	sitioning System receivers, and associated infrastruc-				
15	ture in support of building a capability for earth-				
16	quake early warning.".				
	Passed the House of Representatives March 27				
	2017.				

Attest:

Clerk.

115TH CONGRESS H. R. 654

AN ACT

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