116TH CONGRESS 1ST SESSION H.R.876

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.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 30, 2019

Mr. DEFAZIO introduced the following bill; which was referred to the Committee on Transportation and Infrastructure

A BILL

- 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,

3 SECTION 1. SHORT TITLE; DEFINITION.

4 (a) SHORT TITLE.—This Act may be cited as the
5 "Pacific Northwest Earthquake Preparedness Act of
6 2019".

1 (b) Cascadia Subduction Zone Defined.—In 2 this Act, the term "Cascadia Subduction Zone" means the 3 landward-dipping fault that is approximately 684 miles 4 long, separates the Juan de Fuca and North America 5 plates, and stretches along a portion of the western coast of the United States beginning off Cape Mendocino, Cali-6 7 fornia, along the State of Oregon, the State of Wash-8 ington, to Northern Vancouver Island, British Columbia. 9 SEC. 2. EARTHQUAKE EARLY WARNING SYSTEM FOR 10 CASCADIA SUBDUCTION ZONE. 11 (a) PLAN FOR PURCHASE AND INSTALLATION.— 12 (1) DEVELOPMENT AND FUNDING.—The Ad-13 ministrator of the Federal Emergency Management 14 Agency shall— 15 (A) develop a plan for the purchase and in-16 stallation of an earthquake early warning sys-17 tem for the Cascadia Subduction Zone; and 18 (B) identify the funds necessary for imple-19 mentation of the plan. 20 (2) SUBMISSION TO CONGRESS.—Not later than 21 90 days after the date of enactment of this Act, the 22 Administrator shall submit to the appropriate com-23 mittees of Congress a copy of the plan. 24 (b) REPORT TO CONGRESS.—Not later than 1 year

after the date of enactment of this Act, the Administrator

shall submit to the appropriate committees of Congress
 a report that summarizes the actions taken to implement
 the plan.

4 (c) DEFINITIONS.—In this section, the following defi-5 nitions apply:

6 (1)APPROPRIATE COMMITTEES OF CON-GRESS.—The term "appropriate committees of Con-7 gress" means the Committee on Transportation and 8 9 Infrastructure of the House of Representatives and 10 the Committee on Homeland Security and Govern-11 mental Affairs of the Senate.

12 (2) EARTHQUAKE EARLY WARNING SYSTEM.—
13 The term "earthquake early warning system" in14 cludes—

15 (A) improvements to regional and geodetic
16 networks that support building a capability for
17 an earthquake early warning system; and

(B) seismometers, Global Positioning Sys-tem receivers, and associated infrastructure.

20 SEC. 3. EARTHQUAKE AND TSUNAMI TASK FORCE.

(a) IN GENERAL.—The President shall establish an
Earthquake and Tsunami Task Force for the purpose of
developing a comprehensive strategy and recommendations on how the Nation should prepare and plan for, mitigate against, respond to, recover from, and more success-

fully adapt to a covered event in the Cascadia Subduction
 Zone.

3 (b) TASK FORCE.—

4	(1) MEMBERSHIP.—The membership of the
5	Task Force shall include a cross section of subject
6	matter experts representing the following:

7 (A) Relevant Federal agencies.
8 (B) The States of Oregon, Washington,

9 and California.

10 (C) Indian tribes, local governments, and
11 private sector representatives that may be im12 pacted by a covered event in the Cascadia
13 Subduction Zone.

14 (D) Universities, academia, and research
15 institutions with expertise in topics relevant to
16 the work of the Task Force.

17 (2) CHAIRPERSON.—The Administrator (or the
18 Administrator's designee) shall serve as the chair19 person of the Task Force.

20 (3) DETAILED EMPLOYEES.—Members of the
21 Task Force may detail employees to assist the Ad22 ministrator (or the Administrator's designee) in ful23 filling the responsibilities of the Task Force.

24 (c) Comprehensive Strategy.—

1	(1) STRATEGY.—The comprehensive strategy to
2	be developed under subsection (a) shall include the
3	following:
4	(A) A description of how Federal agencies
5	will coordinate to develop the ability to prepare
6	and plan for, mitigate against, respond to, re-
7	cover from, and more successfully adapt to the
8	impacts of a covered event in the Cascadia
9	Subduction Zone.
10	(B) A strategy to ensure collaboration be-
11	tween the Department of Transportation, the
12	Department of Energy, the Coast Guard, the
13	Corps of Engineers, and other Federal agencies,
14	as appropriate, for purposes of—
15	(i) completing a needs assessment of
16	Federal facilities in need of hardening for
17	a covered event; and
18	(ii) developing a strategic plan to
19	mitigate and retrofit Federal, State, tribal,
20	and local critical assets for freight, energy,
21	and transit purposes to withstand a cov-
22	ered event and to help save lives during
23	and immediately after a covered event.
24	(C) A strategy—

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

1	(ii) potential new funding opportuni-
2	ties.
3	(F) An identification of barriers to obtain-
4	ing funding for the implementation of the com-
5	prehensive strategy and recommendations on
6	how to remove the barriers.
7	(G) A strategy for appropriate Federal
8	agencies to collaborate with and assist State,
9	tribal, and local governments in developing rec-
10	ommendations for cost-effective mitigation al-
11	ternatives for aging State, tribal, and locally
12	owned critical infrastructure.
13	(H) A strategy for assisting State, tribal,
14	and local governments in developing a recovery
15	plan prior to a covered event in the Cascadia
16	Subduction Zone that addresses how State,
17	tribal, and local governments may want to re-
18	build after the event.
19	(I) An identification of the steps taken to
20	date to develop an onshore and offshore earth-
21	quake early warning system and a description
22	of the purpose and scope of such a system.
23	(J) An evaluation of the types of offshore
24	earthquake early warning systems and rec-
25	ommendations and a cost estimate for an earth-

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1	quake early warning system appropriate for the
2	Cascadia Subduction Zone.
3	(K) Recommendations on how an earth-
4	quake early warning system should operate, in-
5	cluding whether and how the system should
6	interface with the private sector.
7	(L) A description of appropriate roles and
8	responsibilities for Federal, State, local, and
9	tribal governments, including who should oper-
10	ate and maintain an earthquake early warning
11	system, the cost of the system, and possible
12	funding sources for the system.
13	(M) A plan on how to integrate an earth-
14	quake early warning system into existing and
15	new public alert warning systems and tech-
16	nologies, including mobile systems.
17	(2) USE OF EXISTING PLANS.—In developing
18	the comprehensive strategy, the Task Force may use
19	existing plans, studies, and other resources.
20	(d) Recommendations.—The recommendations to
21	be developed by the Task Force under subsection (a) shall
22	include recommendations on—
23	(1) potential administrative or legislative
24	changes required to implement the comprehensive
25	strategy;

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1	(2) the funding required to implement the com-
2	prehensive strategy and the recommendations; and
3	(3) the order of priority for implementation of
4	the comprehensive strategy.
5	(e) NATIONAL ACADEMIES.—
6	(1) Collaboration.—The Task Force shall
7	work simultaneously and collaboratively with the Na-
8	tional Academies.
9	(2) AGREEMENT.—The Task Force shall enter
10	into an agreement with the National Academies
11	under which the National Academies shall develop
12	recommendations for a Federal research strategy to
13	advance scientific understanding of a Cascadia
14	Subduction Zone earthquake and resulting tsunami
15	preparedness, including the following:
16	(A) Geologic conditions, ground motions,
17	and tsunami hazards.
18	(B) Implications of an effective automated
19	early warning system.
20	(C) Effects of mega-earthquake and tsu-
21	nami events on the built and natural environ-
22	ment.
23	(D) Social and behavioral factors for effec-
24	tive disaster preparedness and response.

1	(E) Cost-effective mitigation alternatives
2	for legacy and aging infrastructure.
3	(F) Strategic planning for freight, energy,
4	and transit network robustness.
5	(G) Tools that help communities invest
6	their resources for the greatest benefit.
7	(H) Any other topics identified as nec-
8	essary by the Task Force or the National Acad-
9	emies.
10	(f) REPORT.—Not later than 18 months after the
11	date of enactment of this Act, the Administrator shall sub-
12	mit to the Committee on Transportation and Infrastruc-
13	ture of the House of Representatives and the Committee
14	on Homeland Security and Governmental Affairs of the
15	Senate a report of the Task Force that includes the fol-
16	lowing:
17	(1) The comprehensive strategy to be developed
18	under subsection (a).
19	(2) The recommendations to be developed under
20	subsections (a), (d), and (e).
21	(g) DEFINITIONS.—In this section, the following defi-
22	nitions apply:
23	(1) Administrator.—The term "Adminis-
24	trator" means the Administrator of the Federal
25	Emergency Management Agency.

(2) COVERED EVENT.—The term "covered
 event" means an earthquake, tsunami, or combined
 earthquake and tsunami event.

4 (3) TASK FORCE.—The term "Task Force"
5 means the Federal interagency task force to be es6 tablished under subsection (a).

7 SEC. 4. NATIONAL PREPARATION AND RESPONSE EFFORTS 8 RELATING TO EARTHQUAKES AND TSUNAMIS.

9 The Administrator of the Federal Emergency Man-10 agement Agency shall be responsible for the Nation's ef-11 forts to reduce the loss of life and property, and to protect 12 the Nation, from an earthquake, tsunami, or combined 13 earthquake and tsunami event by developing the ability 14 to prepare and plan for, mitigate against, respond to, re-15 cover from, and more successfully adapt to such an event.

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