

Suspend the Rules and Pass the Bill, H.R. 876, with an Amendment

(The amendment strikes all after the enacting clause and inserts a new text)

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,*

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 2019”.

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.**

15 (a) **PLAN FOR PURCHASE AND INSTALLATION.**—

16 (1) **DEVELOPMENT AND FUNDING.**—The Ad-
17 ministrator of the Federal Emergency Management
18 Agency shall—

19 (A) develop a plan for the purchase and in-
20 stallation of an earthquake early warning sys-
21 tem for the Cascadia Subduction Zone; and

22 (B) identify the funds necessary for imple-
23 mentation of the plan.

24 (2) **SUBMISSION TO CONGRESS.**—Not later than
25 90 days after the date of enactment of this Act, the

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-

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
24 existing plans, studies, and other resources.

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).