118TH CONGRESS 1ST SESSION

S. 1416

AN ACT

To provide guidance for and investment in the upgrade and modernization of the National Oceanic and Atmospheric Administration Weather Radio All Hazards network, 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.

- This Act may be cited as the "NOAA Weather Radio
- 3 Modernization Act of 2023" or the "NWR Modernization"
- 4 Act of 2023".

5 SEC. 2. DEFINITIONS.

- 6 (a) NOAA WEATHER RADIO.—The term "NOAA
- 7 Weather Radio" means the National Oceanic and Atmos-
- 8 pheric Administration Weather Radio All Hazards net-
- 9 work.
- 10 (b) Under Secretary.—The term "Under Sec-
- 11 retary" means the Under Secretary of Commerce for
- 12 Oceans and Atmosphere and the Administrator of the Na-
- 13 tional Oceanic and Atmospheric Administration.

14 SEC. 3. UPGRADING EXISTING SYSTEMS.

- 15 (a) In General.—The Under Secretary shall, to the
- 16 maximum extent practicable, upgrade systems of NOAA
- 17 Weather Radio in use as of the date of the enactment of
- 18 this Act in order to expand coverage and ensure the reli-
- 19 ability of NOAA Weather Radio.
- 20 (b) Requirements.—In carrying out subsection (a),
- 21 the Under Secretary shall—
- 22 (1) maintain support for systems described in
- such subsection that serve areas not covered by or
- 24 having poor quality cellular service;

1	(2) ensure consistent maintenance and oper-					
2	ations monitoring, with timely repairs to equipmen-					
3	and antennas at broadcast transmitter sites;					
4	(3) enhance the ability to amplify non-weather					
5	emergency messages through NOAA Weather Radio					
6	as necessary; and					
7	(4) acquire additional transmitters as required					
8	to expand coverage to rural and underserved com					
9	munities, units of the National Park System, and					
10	National Recreation Areas.					
11	SEC. 4. MODERNIZATION INITIATIVE.					
12	(a) IN GENERAL.—The Under Secretary shall, to the					
13	maximum extent practicable, modernize NOAA Weather					
14	Radio to ensure the capabilities and coverage of NOAA					
15	Weather Radio remain valuable to the public.					
16	(b) Requirements.—In carrying out subsection (a),					
17	the Under Secretary shall—					
18	(1) upgrade the telecommunications infrastruc-					
19	ture of NOAA Weather Radio to accelerate the tran-					
20	sition of broadcasts to media that provide an in-					
21	crease in reliability and repairability over copper					
22	media;					
23	(2) accelerate software upgrades to the Ad-					
24	vanced Weather Interactive Processing System of					
25	the National Weather Service, or any relevant suc-					

- 1 cessors of the system, in order to implement partial 2 county notifications and alerts;
- 3 (3) enhance the accessibility and usability of 4 data and feeds of NOAA Weather Radio, with the 5 feedback of the public and user groups;
 - (4) develop options, including satellite backup capability and commercial provider partnerships, for continuity of service provided by NOAA Weather Radio in the event of outages among Weather Forecast Offices;
 - (5) research and develop alternative options, including microwave capabilities, to transmit signals from NOAA Weather Radio to transmitters that are remote or do not have Internet Protocol capability; and
- 16 (6) transition critical applications to the Inte-17 grated Dissemination Program of the National 18 Weather Service, or any relevant successors of the 19 program.
- 20 (c) PRIORITIES.—In carrying out subsections (a) and 21 (b), the Under Secretary shall prioritize practices, capa-22 bilities, and technologies recommended in the assessment 23 required by subsection (d) in order to maximize the acces-
- 24 sibility of NOAA Weather Radio, particularly in remote
- 25 areas of the United States and areas that are at risk for

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1	a lack of access to weather information in the event of				
2	an emergency weather event.				
3	(d) Assessment.—				
4	(1) IN GENERAL.—Not later than 1 year after				
5	the date of the enactment of this Act, the Under				
6	Secretary shall complete and submit to the Cor				
7	mittee on Commerce, Science, and Transportation				
8	the Senate and the Committee on Science, Space				
9	and Technology of the House of Representatives are				
10	assessment of access to NOAA Weather Radio.				
11	(2) Considerations and Recommenda-				
12	TIONS.—In conducting the assessment required by				
13	paragraph (1), the Under Secretary shall take into				
14	consideration and provide recommendations on—				
15	(A) the need for continuous, adequate, and				
16	operational real-time broadcasts from NOAA				
17	Weather Radio;				
18	(B) solicited input on the compatibility of				
19	NOAA Weather Radio data with third-party				
20	platforms that provide online services, such as				
21	websites and mobile device applications, or de-				
22	liver access to NOAA Weather Radio;				
23	(C) existing or new management systems				
24	which promote consistent, efficient, and com-				
25	patible access to NOAA Weather Radio;				

1	(D) the ability of the National Oceanic and				
2	Atmospheric Administration to aggregate real-				
3	time broadcast feeds at one or more central lo-				
4	cations;				
5	(E) effective coordination between agencies				
6	with responsibilities relating to emergencies and				
7	natural disasters;				
8	(F) the potential effects of an electro-				
9	magnetic pulse or geomagnetic disturbance on				
10	NOAA Weather Radio; and				
11	(G) improvements of hazardous weather				
12	and water event communications to more clear-				
13	ly inform action and increase the likelihood that				
14	the public takes such action to prevent the loss				
15	of life or property.				
Passed the Senate December 18, 2023.					
	Attest:				

Secretary.

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