

119TH CONGRESS
1ST SESSION

H. R. 4344

To direct the Secretary of the Air Force to carry out a capability demonstration project to obtain a resilient positioning, navigation, and timing capability demonstration, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JULY 10, 2025

Mr. MULLIN (for himself and Mr. WITTMAN) introduced the following bill;
which was referred to the Committee on Armed Services

A BILL

To direct the Secretary of the Air Force to carry out a capability demonstration project to obtain a resilient positioning, navigation, and timing capability demonstration, 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.**

4 This Act may be cited as the “Resilient Low Earth
5 Orbit Positioning, Navigation, and Timing Act” or the
6 “Resilient LEO PNT Act”.

1 **SEC. 2. COMMERCIAL LOW EARTH ORBIT RESILIENT POSI-**
2 **TIONING, NAVIGATION, AND TIMING CAPA-**
3 **BILITY DEMONSTRATION AND PATHFINDER**
4 **PROGRAM.**

5 (a) PATHFINDER PROGRAM.—Subject to the avail-
6 ability of appropriations for such purpose, the Secretary
7 of the Air Force shall carry out a capability demonstration
8 project, to be known as the “Commercial Low Earth Orbit
9 Resilient Positioning, Navigation, and Timing Capability
10 Demonstration” in accordance with this section.

11 (b) CONTRACT WITH COVERED SERVICE PRO-
12 VIDER.—

13 (1) SELECTION.—As soon as practicable after
14 the date of the enactment of this Act, the Secretary
15 shall—

16 (A) develop a list of covered service pro-
17 viders that can carry out a capability dem-
18 onstration project with the technical capabilities
19 described in subsection (c); and

20 (B) seek to award a contract to at least
21 one such covered service provider.

22 (2) CONTRACT.—The contract awarded to a
23 covered service provider under this subsection shall
24 provide that such covered service provider carry out
25 a capability demonstration project with the technical
26 capabilities described in subsection (c) not later than

1 18 months after the date of the award of such con-
2 tract.

3 (c) TECHNICAL CAPABILITIES.—The capability dem-
4 onstration delivered under subsection (b)(2) shall dem-
5 onstrate a satellite system that has—

6 (1) the ability to operate in the absence of
7 Global Positioning System services;

8 (2) compatibility with user equipment that uses
9 the civilian Global Positioning System L1 or L5
10 services without performing hardware modifications
11 of receiver equipment;

12 (3) greater resistance to jamming and spoofing
13 threats compared to existing Global Positioning Sys-
14 tem services, to an extent determined by the Sec-
15 retary;

16 (4) the ability to provide timing accuracy of less
17 than 10 nanoseconds and position accuracy of less
18 than 30 centimeters for stationary and mobile users;
19 and

20 (5) the ability to restore service if some or all
21 satellites in the satellite system are disabled, in a ca-
22 dence as determined by the Secretary that substan-
23 tially decreases the time to service restoration com-
24 pared to what is possible under existing Global Posi-
25 tioning System service.

1 (d) EVALUATION.—The Secretary shall evaluate the
2 covered service providers for the purposes of developing
3 the list of covered service providers under subsection
4 (b)(1) based on the requirements in section (c) and the
5 following factors:

6 (1) A demonstrated commercial business case.

7 (2) Technological readiness of space and ground
8 network operations.

9 (3) Technological readiness of user equipment.

10 (4) Feasibility of rapidly manufacturing sat-
11 ellites for deployment.

12 (5) The requisite authorization by the Federal
13 Communications Commission.

14 (e) FOLLOW-ON PRODUCTION CONTRACT OR TRANS-
15 ACTION.—Not later than 180 days after a determination
16 by the Secretary that the capability demonstration project
17 has been successfully completed, the Secretary shall, to the
18 extent practicable, award a follow-on production contract
19 or transaction (as defined in section 4022 of title 10,
20 United States Code) to at least one covered service pro-
21 vider that carried out such successful capability dem-
22 onstration project for the purpose of achieving operational
23 deployment as determined by the Secretary.

24 (f) BRIEFING AND REPORT.—Not later than two
25 years after the date of the enactment of this Act, the Sec-

1 retary shall provide a briefing and submit a report to the
2 Committees on Armed Services of the House of Represent-
3 atives and the Senate on the capability demonstration
4 project described in this section that includes—

5 (1) the list of covered service providers devel-
6 oped under subsection (b)(1);

7 (2) an assessment of such providers and how
8 the capability demonstration offered by each dem-
9 onstrates the technical capabilities listed in sub-
10 section (c);

11 (3) the results of the pathfinder capability dem-
12 onstration; and

13 (4) a strategy and timeline for deploying the
14 system demonstration by the capability demonstra-
15 tion project to operational scale.

16 (g) DEFINITIONS.—In this section:

17 (1) The term “capability demonstration
18 project” means a prototype project pursuant to sec-
19 tion 4022 of title 10, United States Code, that dem-
20 onstrates resilient positioning, navigation, and tim-
21 ing capabilities by a low earth orbit system of sat-
22 ellites.

23 (2) The term “covered service provider” means
24 a commercial entity that—

1 (A) has its principal office located in the
2 United States; and

3 (B) provides low earth orbit positioning,
4 navigation, and timing services.

5 (3) The term “nanosecond” means a nano-
6 second in Universal Coordinated Time, as main-
7 tained by the United States Naval Observatory
8 (UTC(USNO)).

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