

AMENDMENT TO
RULES COMMITTEE PRINT 119-33
OFFERED BY MR. MULLIN OF CALIFORNIA

At the end of subtitle A of title XVI, add the following new section:

1 **SEC. 16___ . RESILIENT LOW EARTH ORBIT POSITIONING,**
2 **NAVIGATION, AND TIMING CAPABILITY DEM-**
3 **ONSTRATION.**

4 (a) **CAPABILITY DEMONSTRATION.**—Subject to the
5 availability of appropriations for such purpose, the Sec-
6 retary of the Air Force shall carry out a capability dem-
7 onstration project, to be known as the “Commercial Low
8 Earth Orbit Resilient Positioning, Navigation, and Timing
9 Capability Demonstration” in accordance with this sec-
10 tion.

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-

1 onstration project with the technical capabilities
2 described in subsection (c); and

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

5 (2) CONTRACT.—The contract awarded to a
6 covered service provider under this subsection shall
7 provide that such covered service provider carries
8 out a capability demonstration project with the tech-
9 nical capabilities described in subsection (c) not later
10 than 18 months after the date of the award of such
11 contract.

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

15 (1) the ability to operate in the absence of
16 Global Positioning System services;

17 (2) compatibility with user equipment that uses
18 the civilian Global Positioning System L1 or L5
19 services without performing hardware modifications
20 of receiver equipment;

21 (3) greater resistance to jamming and spoofing
22 threats compared to existing Global Positioning Sys-
23 tem services, to an extent determined by the Sec-
24 retary;

1 (4) the ability to provide timing accuracy of less
2 than 10 nanoseconds and position accuracy of less
3 than 30 centimeters for stationary and mobile users;
4 and

5 (5) the ability to restore service if some or all
6 satellites in the satellite system are disabled, in a ca-
7 dence as determined by the Secretary that substan-
8 tially decreases the time to service restoration com-
9 pared to what is possible under existing Global Posi-
10 tioning System services.

11 (d) EVALUATION.—The Secretary shall evaluate the
12 covered service providers for the purposes of developing
13 the list of covered service providers under subsection
14 (b)(1) based on the requirements in subsection (c) and the
15 following factors:

16 (1) A demonstrated commercial business case.

17 (2) Technological readiness of space and ground
18 network operations.

19 (3) Technological readiness of user equipment.

20 (4) Feasibility of rapidly manufacturing sat-
21 ellites for deployment.

22 (5) The requisite authorization by the Federal
23 Communications Commission.

24 (e) 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 (f) 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.

