

AMENDMENT TO
RULES COMMITTEE PRINT 119-33
OFFERED BY MR. SHREVE OF INDIANA

Add at the end of subtitle A of title XVI the following new section:

1 **SEC. 16___ . GLOBAL POSITIONING SYSTEM MODERNIZA-**
2 **TION.**

3 (a) FINDINGS.—Congress finds the following:

4 (1) The Global Positioning System (in this sec-
5 tion referred to as “GPS”) is a critical national
6 asset that underpins military operations, civilian in-
7 frastructure, and economic activities. While newer
8 satellites are part of the constellation, the GPS con-
9 stellation still depends on many aging satellites, 15
10 of which are operating well beyond their design life
11 with limited signal technologies in the older sat-
12 ellites.

13 (2) Modernizing the GPS Enterprise is an es-
14 sential national priority to ensure the continued reli-
15 ability and security of the system in the face of
16 growing threats and aging and delayed GPS infra-
17 structure.

1 (3) Adversaries are interfering with, jamming,
2 or spoofing GPS signals, posing risks to national de-
3 fense and public safety. Commercial satellite posi-
4 tioning, navigation, and timing systems can augment
5 and complement GPS operations globally. Terrestrial
6 systems, which depend on ground-based transmit-
7 ters, can provide signals to receivers within a local-
8 ized area during disruption despite being more geo-
9 graphically limited.

10 (4) Rapidly transitioning to more resilient sys-
11 tems like GPS III F, to include monitoring and de-
12 claring the L5 signal as “healthy” can significantly
13 reduce these vulnerabilities and enhance operational
14 effectiveness. A transition plan accounting for both
15 the satellites that transmit positioning, navigation,
16 and timing signals and the ground control and moni-
17 toring systems that command and control the con-
18 stellation and update timing and other data is nec-
19 essary to avoid capability gaps and ensure continuity
20 of essential services as legacy elements are phased
21 out and new capabilities are fielded.

22 (5) Federal agency execution delays in updating
23 GPS constellation and infrastructure has slowed
24 progress toward modernization, and successfully exe-
25 cuting Space Policy Directive–7 is necessary to align

1 efforts across the government and accelerate the de-
2 ployment of next-generation GPS capabilities.

3 (b) SENSE OF CONGRESS.—It is the sense of Con-
4 gress that modernizing GPS is a national priority to safe-
5 guard military readiness, protect critical infrastructure,
6 and maintain economic competitiveness and the as-yet
7 unimplemented system required by section 312 of title 49,
8 United States Code, remains no less crucial to the protec-
9 tion of United States security and prosperity than when
10 it was mandated in 2018.

11 (c) MODERNIZED GPS ENTERPRISE.—

12 (1) IN GENERAL.—Not later than 180 days
13 after the date of the enactment of this Act, the
14 President shall accelerate the transition to a mod-
15 ernized GPS Enterprise to enhance the resilience
16 and security of GPS.

17 (2) COMPONENTS.—The acceleration of the
18 transition to a modernized GPS Enterprise required
19 by paragraph (1) shall include—

20 (A) a clear timeline for the development
21 and deployment of a full constellation of 24
22 GPS IIF satellites and associated ground con-
23 trol segment upgrades;

24 (B) a clear timeline for the upgrade of the
25 control segment to meet the needs of the mod-

1 ernized constellation and to mitigate threats,
2 along with a plan to maintain service while the
3 upgrades progress;

4 (C) prioritization of the L5 signal for civil-
5 ian and military applications to augment legacy
6 frequencies and provide additional resilience;

7 (D) coordination with the Secretary of De-
8 fense, the Secretary of Transportation, and
9 other heads of relevant departments and agen-
10 cies of the Federal Government to expedite sys-
11 tem upgrades;

12 (E) strategies developed in coordination
13 with the Secretary of Transportation to further
14 incentivize critical infrastructure assets to miti-
15 gate risks associated with GPS signal inter-
16 ference, jamming, and spoofing, including con-
17 sidering the integration of commercial satellite
18 positioning, navigation, and timing systems;
19 and

20 (F) strategies to accelerate the deployment
21 of military GPS user equipment, Increments 1
22 and 2, and the integration of new receivers into
23 weapons systems.

24 (d) REPORT.—

1 (1) IN GENERAL.—Not later than 180 days
2 after the date of the enactment of this Act, and an-
3 nually thereafter for a period not to exceed three
4 years, the Secretary of Defense, in coordination with
5 the Secretary of Transportation for commercial uses
6 and with respect to any system required under sec-
7 tion 312 of title 49, United States Code, and the
8 protection of critical infrastructure, shall submit to
9 the congressional defense committees, the Committee
10 on Commerce, Science, and Transportation of the
11 Senate, the Committee on Science, Space, and Tech-
12 nology of the House of Representatives, and the
13 Committee on Transportation and Infrastructure of
14 the House of Representatives a report that in-
15 cludes—

16 (A) a detailed schedule and assessment of
17 progress made toward transitioning to the mod-
18 ernized GPS and positioning, navigation, and
19 timing enterprise;

20 (B) an evaluation of interagency coordina-
21 tion efforts, including challenges in imple-
22 menting system upgrades necessary for such
23 modernization, except spectrum referenced in
24 section 312(d) of title 49, United States Code,
25 associated with LORAN infrastructure nec-

1 essary for use in any system required in such
2 section 312;

3 (C) a description of strategies to counter
4 GPS military and civil signal interference, jam-
5 ming, and spoofing, from state and nonstate ac-
6 tors along with their effectiveness;

7 (D) funding allocations, expenditures, and
8 any additional resource needs for the Depart-
9 ment of Defense and Department of Transpor-
10 tation to meet modernization objectives; and

11 (E) recommendations for legislative or ad-
12 ministrative actions to further encourage crit-
13 ical infrastructure upgrades, modern commer-
14 cial satellite positioning, navigation, and timing
15 systems, and other efforts to enhance GPS se-
16 curity, reliability, and resilience.

17 (2) FORM.—The report required under para-
18 graph (1) shall be submitted in an unclassified form,
19 but may contain a classified annex.

20 (e) APPLICABILITY.—Nothing in this section with re-
21 spect to the coordination of spectrum allocation applies to
22 any spectrum referenced in section 312(d) of title 49,
23 United States Code, associated with LORAN infrastruc-

- 1 ture necessary for use in any system required in section
- 2 312.

