AM	ENDMENT NO Calendar No
Pui	rpose: In the nature of a substitute.
IN	THE SENATE OF THE UNITED STATES—117th Cong., 2d Sess.
	S. 3511
	or require a report on Federal support to the cybersecurity of commercial satellite systems, and for other purposes.
R	eferred to the Committee on and ordered to be printed
	Ordered to lie on the table and to be printed
A	MENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by Mr. Peters
Viz	:
1	Strike all after the enacting clause and insert the fol-
2	lowing:
3	SECTION 1. SHORT TITLE.
4	This Act may be cited as the "Satellite Cybersecurity
5	Act".
6	SEC. 2. DEFINITIONS.
7	In this Act:
8	(1) COMMERCIAL SATELLITE SYSTEM.—The
9	term "commercial satellite system" means an earth
10	satellite owned and operated by a non-Federal enti-
11	ty.

1 (2)Critical infrastructure.—The term 2 "critical infrastructure" has the meaning given the 3 term in subsection (e) of the Critical Infrastructure 4 Protection Act of 2001 (42 U.S.C. 5195c(e)). 5 (3) Cybersecurity risk.—The term "cyberse-6 curity risk" has the meaning given the term in sec-7 tion 2209 of the Homeland Security Act of 2002 (6 8 U.S.C. 659). 9 (4) Cybersecurity threat.—The term "cy-10 bersecurity threat" has the meaning given the term 11 in section 102 of the Cybersecurity Information 12 Sharing Act of 2015 (6 U.S.C. 1501). 13 SEC. 3. REPORT ON COMMERCIAL SATELLITE CYBERSECU-14 RITY. 15 (a) STUDY.—The Comptroller General of the United States shall conduct a study on the actions the Federal 16 17 Government has taken to support the cybersecurity of commercial satellite systems, including as part of any ac-18 19 tion to address the cybersecurity of critical infrastructure 20 sectors. 21 (b) Report.—Not later than 2 years after the date 22 of enactment of this Act, the Comptroller General of the 23 United States shall report to Congress on the study conducted under subsection (a), which shall include informa-25 tion on—

1	(1) the effectiveness of efforts of the Federal
2	Government in improving the cybersecurity of com-
3	mercial satellite systems;
4	(2) the resources made available to the public
5	as of the date of enactment of this Act, by Federal
6	agencies to address cybersecurity risks and threats
7	to commercial satellite systems;
8	(3) the extent to which commercial satellite sys-
9	tems are reliant on or are relied on by critical infra-
10	structure and an analysis of how commercial sat-
11	ellite systems, and the threats to such systems, are
12	integrated into Federal and non-Federal critical in-
13	frastructure risk analyses and protection plans;
14	(4) the extent to which Federal agencies are re-
15	liant on commercial satellite systems and how Fed-
16	eral agencies mitigate cybersecurity risks associated
17	with those systems; and
18	(5) the extent to which Federal agencies coordi-
19	nate or duplicate authorities and take other actions
20	focused on the cybersecurity of commercial satellite
21	systems.
22	(c) Consultation.—In carrying out subsections (a)
23	and (b), the Comptroller General of the United States
24	shall coordinate with appropriate Federal agencies, includ-
25	ing—

1	(1) the Department of Homeland Security;
2	(2) the Department of Commerce;
3	(3) the Department of Defense;
4	(4) the Department of Transportation;
5	(5) the Federal Communications Commission;
6	(6) the National Aeronautics and Space Admin-
7	istration; and
8	(7) the National Executive Committee for
9	Space-Based Positioning, Navigation, and Timing.
10	(d) Briefing.—Not later than 1 year after the date
11	of enactment of this Act, the Comptroller General of the
12	United States shall provide a briefing to the appropriate
13	congressional committees.
14	(e) CLASSIFICATION.—The report made under sub-
15	section (b) shall be unclassified but may include a classi-
16	fied annex.
17	SEC. 4. RESPONSIBILITIES OF THE CYBERSECURITY AND
18	INFRASTRUCTURE SECURITY AGENCY.
19	(a) DEFINITIONS.—In this section:
20	(1) Clearing-The term "clearing-
21	house" means the commercial satellite system cyber-
22	security clearinghouse required to be developed and
23	maintained under subsection (b)(1).

1	(2) DIRECTOR.—The term "Director" means
2	the Director of the Cybersecurity and Infrastructure
3	Security Agency.
4	(3) SMALL BUSINESS CONCERN.—The term
5	"small business concern" has the meaning given the
6	term in section 3 of the Small Business Act (15
7	U.S.C. 632).
8	(b) Establishment of Commercial Satellite
9	System Cybersecurity Clearinghouse.—
10	(1) In general.—Not later than 180 days
11	after the date of enactment of this Act, the Director
12	shall develop and maintain a commercial satellite
13	system cybersecurity clearinghouse.
14	(2) REQUIREMENTS.—The clearinghouse
15	shall—
16	(A) be publicly available online;
17	(B) contain publicly available commercial
18	satellite system cybersecurity resources, includ-
19	ing the recommendations consolidated under
20	subsection (c)(1), and any other appropriate
21	materials for reference by entities that develop
22	commercial satellite systems; and
23	(C) include materials specifically aimed at
24	assisting small business concerns with the se-

1	cure development, operation, and maintenance
2	of commercial satellite systems.
3	(3) Content Maintenance.—The Director
4	shall maintain current and relevant cybersecurity in-
5	formation on the clearinghouse.
6	(4) Existing platform or website.—The
7	Director may establish and maintain the clearing-
8	house on an online platform or a website that is in
9	existence as of the date of enactment of this Act.
10	(e) Consolidation of Commercial Satellite
11	System Cybersecurity Recommendations.—
12	(1) In general.—The Director shall consoli-
13	date voluntary cybersecurity recommendations de-
14	signed to assist in the development, maintenance,
15	and operation of commercial satellite systems.
16	(2) REQUIREMENTS.—The recommendations
17	consolidated under paragraph (1) shall include, to
18	the greatest extent practicable, materials addressing
19	the following:
20	(A) Risk-based, cybersecurity-informed en-
21	gineering, including continuous monitoring and
22	resiliency.
23	(B) Planning for retention or recovery of
24	positive control of commercial satellite systems
25	in the event of a cybersecurity incident.

1	(C) Protection against unauthorized access
2	to vital commercial satellite system functions.
3	(D) Physical protection measures designed
4	to reduce the vulnerabilities of a commercial
5	satellite system's command, control, and telem-
6	etry receiver systems.
7	(E) Protection against jamming and spoof-
8	ing.
9	(F) Security against threats throughout a
10	commercial satellite system's mission lifetime.
11	(G) Management of supply chain risks that
12	affect cybersecurity of commercial satellite sys-
13	tems.
14	(H) As appropriate, and as applicable pur-
15	suant to the maintenance requirement under
16	subsection (b)(3), the findings and rec-
17	ommendations from the study conducted by the
18	Comptroller General of the United States under
19	section 3(a).
20	(I) Any other recommendations to ensure
21	the confidentiality, availability, and integrity of
22	data residing on or in transit through commer-
23	cial satellite systems.
24	(d) Implementation.—In implementing this Act,
25	the Director shall—

1	(1) to the extent practicable, carry out the im-
2	plementation as a public-private partnership;
3	(2) coordinate with the heads of appropriate
4	Federal agencies with expertise and experience in
5	satellite operations, including the entities described
6	in section 3(c); and
7	(3) consult with non-Federal entities developing
8	commercial satellite systems or otherwise supporting
9	the cybersecurity of commercial satellite systems, in-
10	cluding private, consensus organizations that develop
11	relevant standards.