118TH CONGRESS 1ST SESSION	S.		
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## IN THE SENATE OF THE UNITED STATES

Mr. Peters (for himself and Mr. Cornyn) introduced the following bill; which was read twice and referred to the Committee on

## A BILL

To require a report on Federal support to the cybersecurity of commercial satellite systems, 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 "Satellite Cybersecurity
- 5 Act".
- 6 SEC. 2. DEFINITIONS.
- 7 In this Act:
- 8 (1) CLEARINGHOUSE.—The term "clearing-
- 9 house" means the commercial satellite system cyber-

1	security clearinghouse required to be developed and
2	maintained under section $4(b)(1)$ .
3	(2) Commercial satellite system.—The
4	term "commercial satellite system"—
5	(A) means a system that—
6	(i) is owned or operated by a non-
7	Federal entity based in the United States
8	and
9	(ii) is composed of not less than 1
10	earth satellite; and
11	(B) includes—
12	(i) any ground support infrastructure
13	for each satellite in the system; and
14	(ii) any transmission link among and
15	between any satellite in the system and
16	any ground support infrastructure in the
17	system.
18	(3) Critical infrastructure.—The term
19	"critical infrastructure" has the meaning given the
20	term in subsection (e) of the Critical Infrastructure
21	Protection Act of 2001 (42 U.S.C. 5195c(e)).
22	(4) Cybersecurity risk.—The term "cyberse-
23	curity risk" has the meaning given the term in sec-
24	tion 2209 of the Homeland Security Act of 2002 (6
25	U.S.C. 659).

1	(5) Cybersecurity threat.—The term "cy-
2	bersecurity threat" has the meaning given the term
3	in section 102 of the Cybersecurity Information
4	Sharing Act of 2015 (6 U.S.C. 1501).
5	(6) Director.—The term "Director" means
6	the Director of the Cybersecurity and Infrastructure
7	Security Agency.
8	(7) Sector risk management agency.—The
9	term "sector risk management agency" has the
10	meaning given the term "Sector-Specific Agency" in
11	section 2201 of the Homeland Security Act of 2002
12	(6 U.S.C. 651).
	ODG A DEDORM ON COMMEDICAL CAMPILLIAN COMPEDITION
13	SEC. 3. REPORT ON COMMERCIAL SATELLITE CYBERSECU-
13 14	RITY.
14	RITY.
14 15	RITY.  (a) STUDY.—The Comptroller General of the United
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	RITY.  (a) STUDY.—The Comptroller General of the United States shall conduct a study on the actions the Federal
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	RITY.  (a) STUDY.—The Comptroller General of the United States shall conduct a study on the actions the Federal Government has taken to support the cybersecurity of
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<ul><li>14</li><li>15</li><li>16</li><li>17</li><li>18</li><li>19</li></ul>	RITY.  (a) STUDY.—The Comptroller General of the United States shall conduct a study on the actions the Federal Government has taken to support the cybersecurity of commercial satellite systems, including as part of any action to address the cybersecurity of critical infrastructure
14 15 16 17 18 19 20	RITY.  (a) STUDY.—The Comptroller General of the United States shall conduct a study on the actions the Federal Government has taken to support the cybersecurity of commercial satellite systems, including as part of any action to address the cybersecurity of critical infrastructure sectors.
<ul><li>14</li><li>15</li><li>16</li><li>17</li><li>18</li><li>19</li><li>20</li><li>21</li></ul>	RITY.  (a) STUDY.—The Comptroller General of the United States shall conduct a study on the actions the Federal Government has taken to support the cybersecurity of commercial satellite systems, including as part of any action to address the cybersecurity of critical infrastructure sectors.  (b) Report.—Not later than 2 years after the date
14 15 16 17 18 19 20 21 22	RITY.  (a) STUDY.—The Comptroller General of the United States shall conduct a study on the actions the Federal Government has taken to support the cybersecurity of commercial satellite systems, including as part of any action to address the cybersecurity of critical infrastructure sectors.  (b) REPORT.—Not later than 2 years after the date of enactment of this Act, the Comptroller General of the

1	the Committee on Homeland Security and the Committee
2	on Space, Science, and Technology of the House of Rep-
3	resentatives on the study conducted under subsection (a),
4	which shall include information—
5	(1) on efforts of the Federal Government, and
6	the effectiveness of those efforts, to—
7	(A) address or improve the cybersecurity of
8	commercial satellite systems; and
9	(B) support related efforts with inter-
10	national entities or the private sector;
11	(2) on the resources made available to the pub-
12	lic by Federal agencies to address cybersecurity risks
13	and threats to commercial satellite systems, includ-
14	ing resources made available through the clearing-
15	house;
16	(3) on the extent to which commercial satellite
17	systems are reliant on, or relied on by, critical infra-
18	structure;
19	(4) that includes an analysis of how commercial
20	satellite systems and the threats to those systems
21	are integrated into Federal and non-Federal critical
22	infrastructure risk analyses and protection plans;
23	(5) on the extent to which Federal agencies are
24	reliant on commercial satellite systems and how Fed-

1	eral agencies mitigate cybersecurity risks associated
2	with those systems;
3	(6) on the extent to which Federal agencies are
4	reliant on commercial satellite systems that are
5	owned wholly or in part or controlled by foreign enti-
6	ties, or that have infrastructure in foreign countries,
7	and how Federal agencies mitigate associated cyber-
8	security risks;
9	(7) on the extent to which Federal agencies co-
10	ordinate or duplicate authorities and take other ac-
11	tions focused on the cybersecurity of commercial sat-
12	ellite systems; and
13	(8) as determined appropriate by the Comp-
14	troller General of the United States, that includes
15	recommendations for further Federal action to sup-
16	port the cybersecurity of commercial satellite sys-
17	tems, including recommendations on information
18	that should be shared through the clearinghouse.
19	(c) Consultation.—In carrying out subsections (a)
20	and (b), the Comptroller General of the United States
21	shall coordinate with appropriate Federal agencies and or-
22	ganizations, including—
23	(1) the Office of the National Cyber Director;
24	(2) the Department of Homeland Security;
25	(3) the Department of Commerce;

1	(4) the Department of Defense;
2	(5) the Department of Transportation;
3	(6) the Federal Communications Commission;
4	(7) the National Aeronautics and Space Admin-
5	istration;
6	(8) the National Executive Committee for
7	Space-Based Positioning, Navigation, and Timing;
8	and
9	(9) the National Space Council.
10	(d) Briefing.—Not later than 2 years 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 on the study conducted under
14	subsection (a).
15	(e) CLASSIFICATION.—The report made under sub-
16	section (b) shall be unclassified but may include a classi-
17	fied annex.
18	SEC. 4. RESPONSIBILITIES OF THE CYBERSECURITY AND
19	INFRASTRUCTURE SECURITY AGENCY.
20	(a) Small Business Concern Defined.—In this
21	section, the term "small business concern" has the mean-
22	ing given the term in section 3 of the Small Business Act
23	(15 U.S.C. 632).
24	(b) Establishment of Commercial Satellite
25	System Cybersecurity Clearinghouse.—

1	(1) IN GENERAL.—Not later than 180 days
2	after the date of enactment of this Act, the Director
3	shall develop and maintain a commercial satellite
4	system cybersecurity clearinghouse.
5	(2) Requirements.—The clearinghouse—
6	(A) shall be publicly available online;
7	(B) shall contain publicly available com-
8	mercial satellite system cybersecurity resources,
9	including the voluntary recommendations con-
10	solidated under subsection $(c)(1)$ ;
11	(C) shall contain appropriate materials for
12	reference by entities that develop, operate, or
13	maintain commercial satellite systems;
14	(D) shall contain materials specifically
15	aimed at assisting small business concerns with
16	the secure development, operation, and mainte-
17	nance of commercial satellite systems; and
18	(E) may contain controlled unclassified in-
19	formation distributed to commercial entities
20	through a process determined appropriate by
21	the Director.
22	(3) Content Maintenance.—The Director
23	shall maintain current and relevant cybersecurity in-
24	formation on the clearinghouse.

1	(4) Existing platform or website.—To the
2	extent practicable, the Director shall establish and
3	maintain the clearinghouse using an online platform,
4	a website, or a capability in existence as of the date
5	of enactment of this Act.
6	(c) Consolidation of Commercial Satellite
7	System Cybersecurity Recommendations.—
8	(1) In general.—The Director shall consoli-
9	date voluntary cybersecurity recommendations de-
10	signed to assist in the development, maintenance,
11	and operation of commercial satellite systems.
12	(2) Requirements.—The recommendations
13	consolidated under paragraph (1) shall include mate-
14	rials appropriate for a public resource addressing, to
15	the greatest extent practicable, the following:
16	(A) Risk-based, cybersecurity-informed en-
17	gineering, including continuous monitoring and
18	resiliency.
19	(B) Planning for retention or recovery of
20	positive control of commercial satellite systems
21	in the event of a cybersecurity incident.
22	(C) Protection against unauthorized access
23	to vital commercial satellite system functions.
24	(D) Physical protection measures designed
25	to reduce the vulnerabilities of a commercial

1	satellite system's command, control, and telem-
2	etry receiver systems.
3	(E) Protection against jamming, eaves-
4	dropping, hijacking, computer network exploi-
5	tation, spoofing, threats to optical satellite com-
6	munications, and electromagnetic pulse.
7	(F) Security against threats throughout a
8	commercial satellite system's mission lifetime.
9	(G) Management of supply chain risks that
10	affect the cybersecurity of commercial satellite
11	systems.
12	(H) Protection against vulnerabilities
13	posed by ownership of commercial satellite sys-
14	tems or commercial satellite system companies
15	by foreign entities.
16	(I) Protection against vulnerabilities posed
17	by locating physical infrastructure, such as sat-
18	ellite ground control systems, in foreign coun-
19	tries.
20	(J) As appropriate, and as applicable pur-
21	suant to the maintenance requirement under
22	subsection (b)(3), relevant findings and rec-
23	ommendations from the study conducted by the
24	Comptroller General of the United States under
25	section 3(a).

1	(K) Any other recommendations to ensure
2	the confidentiality, availability, and integrity of
3	data residing on or in transit through commer-
4	cial satellite systems.
5	(d) Implementation.—In implementing this sec-
6	tion, the Director shall—
7	(1) to the extent practicable, carry out the im-
8	plementation in partnership with the private sector;
9	(2) coordinate with—
10	(A) the Office of the National Cyber Direc-
11	tor, the National Space Council, and the head
12	of any other agency determined appropriate by
13	the Office of the National Cyber Director or the
14	National Space Council; and
15	(B) the heads of appropriate Federal agen-
16	cies with expertise and experience in satellite
17	operations, including the entities described in
18	section 3(c) to enable the alignment of Federal
19	efforts on commercial satellite system cyberse-
20	curity and, to the extent practicable, consist-
21	ency in Federal recommendations relating to
22	commercial satellite system cybersecurity; and
23	(3) consult with non-Federal entities developing
24	commercial satellite systems or otherwise supporting
25	the cybersecurity of commercial satellite systems, in-

1	cluding private, consensus organizations that develop
2	relevant standards.
3	(e) Report.—Not later than 1 year after the date
4	of enactment of this Act, and every 2 years thereafter until
5	the date that is 9 years after the date of enactment of
6	this Act, the Director shall submit to the Committee on
7	Homeland Security and Governmental Affairs and the
8	Committee on Commerce, Science, and Transportation of
9	the Senate and the Committee on Homeland Security and
10	the Committee on Space, Science, and Technology of the
11	House of Representatives a report summarizing—
12	(1) any partnership with the private sector de-
13	scribed in subsection (d)(1);
14	(2) any consultation with a non-Federal entity
15	described in subsection (d)(3);
16	(3) the coordination carried out pursuant to
17	subsection $(d)(2)$ ;
18	(4) the establishment and maintenance of the
19	clearinghouse pursuant to subsection (b);
20	(5) the recommendations consolidated pursuant
21	to subsection $(e)(1)$ ; and
22	(6) any feedback received by the Director on
23	the clearinghouse from non-Federal entities.

## 1 SEC. 5. STRATEGY.

2	Not later than 120 days after the date of the enact-
3	ment of this Act, the National Space Council, jointly with
4	the Office of the National Cyber Director, in coordination
5	with the Director of the Office of Space Commerce and
6	the heads of other relevant agencies, shall submit to the
7	Committee on Homeland Security and Governmental Af-
8	fairs and the Committee on Commerce, Science, and
9	Transportation of the Senate and the Committee on
10	Homeland Security and the Committee on Space, Science,
11	and Technology of the House of Representatives a strat-
12	egy for the activities of Federal agencies to address and
13	improve the cybersecurity of commercial satellite systems,
14	which shall include an identification of—
15	(1) proposed roles and responsibilities for rel-
16	evant agencies; and
17	(2) as applicable, the extent to which cybersecu-
18	rity threats to such systems are addressed in Fed-
19	eral and non-Federal critical infrastructure risk
20	analyses and protection plans.
21	SEC. 6. RULES OF CONSTRUCTION.
22	Nothing in this Act shall be construed to—
23	(1) designate commercial satellite systems or
24	other space assets as a critical infrastructure sector;
25	or

1 (2) infringe upon or alter the authorities of the 2 agencies described in section 3(c). 3 SEC. 7. SECTOR RISK MANAGEMENT AGENCY TRANSFER. 4 If the President designates an infrastructure sector 5 that includes commercial satellite systems as a critical infrastructure sector pursuant to the process established 6 under section 9002(b)(3) of the William M. (Mac) Thorn-8 berry National Defense Authorization Act for Fiscal Year 9 2021 (Public Law 116–283; 134 Stat. 4770) and subse-10 quently designates a sector risk management agency for 11 that critical infrastructure sector that is not the Cyberse-12 curity and Infrastructure Security Agency, the President may direct the Director to transfer the authorities of the

Director under section 4 of this Act to the head of the

designated sector risk management agency.

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