^{115TH CONGRESS} ^{2D SESSION} S. 2980

To improve the missile defense capabilities of the United States, and for other purposes.

IN THE SENATE OF THE UNITED STATES

MAY 24, 2018

Mr. SULLIVAN (for himself, Mr. SCHATZ, Mr. PETERS, Mr. CRUZ, and Mr. COTTON) introduced the following bill; which was read twice and referred to the Committee on Armed Services

A BILL

To improve the missile defense capabilities of the United States, 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 "Integrated Missile De-

5 fense Act of 2018".

6 SEC. 2. SENSE OF THE SENATE ON ACCELERATION OF MIS-

- 7 SILE DEFENSE CAPABILITIES.
- 8 (a) FINDINGS.—Congress makes the following find-

9 ings:

(1) During the past six years, under the regime
 of Kim Jong-un, North Korea has conducted approximately 100 ballistic missile tests and four nuclear tests.

5 (2) Over the last few years, North Korea has 6 made deliberate and rapid progress in developing 7 their medium-range ballistic missiles (MRBMs), in-8 termediate-range ballistic missiles (IRBM), submarine-launched ballistic missiles 9 (SLBM), and 10 intercontinental ballistic missiles (ICBM), including 11 the first-ever launches of two different interconti-12 nental-range ballistic missiles (ICBM) and six 13 launches of an intermediate-range ballistic missile 14 (IRBM).

(3) As the only country to test nuclear weapons
in the 21st century, last year North Korea detonated
its sixth and largest nuclear device, estimated at
over 140 kilotons in yield, and has threatened to
conduct an air burst of a nuclear warhead mated to
one of its long-range ballistic missiles.

(4) A report from Johns Hopkins University,
published in 2015, and entitled "North Korea's Nuclear Futures: Technology and Strategy", concluded
that, by 2020, North Korea could have as many as
100 nuclear weapons.

1	(5) The United States currently has 44 oper-
2	ational ground-based interceptors distributed be-
3	tween Fort Greely, Alaska, and Vandenberg Air
4	Force Base, California.
5	(6) Section 1686 of the National Defense Au-
6	thorization Act for Fiscal Year 2018 (Public Law
7	115–91) authorizes up 28 additional ground-based
8	interceptors (GBIs) and begins the deployment of 20
9	additional ground-based interceptors to Fort Greely.
10	(7) In September 2017, Congress approved a
11	Department of Defense reprogramming of fiscal year
12	2017 funding of more than \$400,000,000 to counter
13	the North Korean missile threat.
14	(8) In November 2017, the President submitted
15	an amendment to his fiscal year 2018 budget re-
16	quest, which Congress subsequently approved, for
17	\$4,000,000,000 for missile defeat and defense, in-
18	cluding funding to begin the construction of a new
19	missile field at Fort Greely, Alaska, and additional
20	procurement funding necessary for 20 new ground-
21	based interceptors to be fully deployed by 2023.
22	(9) The President's budget proposal for fiscal
23	year 2019 includes \$9,900,000,000 for the Missile

Defense Agency and \$3,000,000,000 for air and

missile defense activities in the military depart ments.

3 (10) The 2018 National Defense Strategy
4 states that in order to "deliver performance at the
5 speed of relevance . . . [W]e must not accept cum6 bersome approval chains, wasteful applications of re7 sources in uncompetitive space, or overly risk-averse
8 thinking that impedes change.".

9 (b) SENSE OF THE SENATE.—It is the sense of the
10 Senate that the Missile Defense Agency should—

(1) accelerate the fielding, if technically feasible, of the planned additional 20 ground-based
interceptors with Redesigned Kill Vehicles (RKV) at
Missile Field 4 at Fort Greely, Alaska, and to mate
the Redesigned Kill Vehicles with the newest booster
technology;

(2) weigh the rapid growth in missile and nuclear threats against the cost and risk of accelerating the Redesigned Kill Vehicle and the MultiObject Kill Vehicle development and deployment;

(3) ensure, prior to its operational deployment,
that the Redesigned Kill Vehicle has demonstrated
the ability to accomplish its intended mission
through a successful, operationally realistic flight
test;

1	(4) rapidly develop and deploy a persistent,
2	space-based sensor architecture to ensure our missile
3	defenses are more effective against ballistic missile
4	threats and more responsive to new and emergent
5	threats from hypersonic and cruise missiles;
6	(5) pursue innovative concepts for existing tech-
7	nologies, such as a missile defense role for the F–
8	35 aircraft; and
9	(6) invest in advanced technologies, such as
10	boost-phase warning, tracking, and intercept.
11	(c) Report.—
12	(1) IN GENERAL.—Not later than 180 days
13	after the date of the enactment of this Act, the Di-
14	rector of the Missile Defense Agency shall submit to
15	the congressional defense committees a report on
16	ways the Missile Defense Agency can accelerate the
17	construction of Missile Field 4 at Fort Greely, Alas-
18	ka, as well as the deployment of 20 ground-based
19	interceptors with Redesigned Kill Vehicles (RKV) at
20	such missile field, by at least one year.
21	(2) CONTENTS.—The report required by para-
22	graph (1) shall include the following:
23	(A) A threat-based description of the bene-
24	fits and risks of accelerating the construction
25	and deployment referred to in paragraph (1) .

1	(B) A description of the technical and ac-
2	quisition risks and potential effects on the reli-
3	ability of the Redesigned Kill Vehicle if deploy-
4	ment is accelerated as described in paragraph
5	(1).
6	(C) A description of the cost implications
7	of accelerating the construction and deployment
8	referred to in paragraph (1).
9	(D) A description of the effect such accel-
10	eration would have on the Redesigned Kill Vehi-
11	cle flight test schedule and the overall Inte-
12	grated Master Test Plan.
13	(E) A description of the effect that the ac-
14	celeration described in paragraph (1) would
15	have on re-tipping currently deployed exoatmo-
16	spheric kill vehicles with the Redesigned Kill
17	Vehicle.
18	(F) A description of how such acceleration
19	would align with the deployment of the long
20	range discrimination radar and the homeland
21	defense radar-Hawaii.
22	(G) A cost-benefit analysis and a feasibility
23	assessment for construction of a fifth missile
24	field at Fort Greely, Alaska.

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1	(3) FORM.—The report required by paragraph
2	(1) shall be submitted in unclassified form, but may
3	include a classified annex.
4	SEC. 3. DEVELOPMENT AND DEPLOYMENT OF PERSISTENT
5	SPACE-BASED SENSOR ARCHITECTURE.
6	(a) FINDINGS.—Congress makes the following find-
7	ings:
8	(1) The Missile Defense Agency currently oper-
9	ates the Space Tracking and Surveillance System-
10	Demonstration (STSS-D), a two-satellite constella-
11	tion for testing purposes, which uses sensors capable
12	of detecting visible and infrared light and serves as
13	an experimental space tracker for the ballistic mis-
14	sile defense system.
15	(2) Conceptually developed in 2009, the Preci-
16	sion Tracking Space (PTSS) would have provided
17	the persistent space-based tracking of ballistic mis-
18	siles, including object characterization and discrimi-
19	nation, and would have also supported homeland, re-
20	gional, and theater missile defense.
21	(3) Projected to enter orbit in 2018, the Missile
22	Defense Agency and the Applied Physics Laboratory
23	of Johns Hopkins University is currently conducting
24	a Space-Based Kill Assessment (SKA) experiment, a
25	network of small sensors hosted on commercial sat-

ellites, used to collect the energy signature of the im pact between a ballistic missile threat and an inter ceptor from the ballistic missile defense system.

4 (4) Section 236 of the National Defense Au5 thorization Act for Fiscal Year 2014 (Public Law
6 113-66) required the Secretary of Defense to con7 duct an evaluation of options and alternatives for fu8 ture sensor architectures for ballistic missile defense
9 in order to enhance the ballistic missile defense ca10 pabilities of the United States.

11 (5) General John Hyten, Commander of the 12 United States Strategic Command, has argued for 13 the "deployment of a global space-based sensor system with discrimination capability" as a "critical 14 15 component to improving the effectiveness of our deployed interceptors" to "conduct both the character-16 ization of these new threats . . . as well as discrimi-17 18 nate better and earlier the mid-course element of the 19 threat that exists today", and finally to "target 20 against . . . hypersonic capabilities [and] other ca-21 pabilities in the boost phase.".

(6) Admiral James Syring, the former Director
of the Missile Defense Agency, has stated, "From a
missile defense perspective, we have to develop a future operational space layer. Given where the threat

is going with hypersonics and more ICBMs and so
 forth this persistent tracking and discrimination ca pability from space is a must.".

4 (7) General Samuel Greaves, the current Direc-5 tor of the Missile Defense Agency, has stated, that 6 space-based sensors are "absolutely critical for the 7 real threat that we see in front of us, the hypersonic 8 threat".

9 (b) DISSOCIATION WITH BALLISTIC MISSILE DE-10 FENSE REVIEW.—Subsection (a) of section 1683 of the 11 National Defense Authorization Act for Fiscal Year 2018 12 (Public Law 115–91) is amended by striking "If consistent" and all that follows through "develop" and insert-13 ing "the Director of the Missile Defense Agency shall, in 14 15 coordination with the Secretary of the Air Force and the Director of the Defense Advanced Research Projects 16 Agency, commence developing". 17

18 (c) DEPLOYMENT.—Such subsection is further19 amended—

20 (1) by striking "(A) IN GENERAL.—" and in21 serting the following:

22 "(a) DEVELOPMENT AND DEPLOYMENT.—

23 "(1) DEVELOPMENT.—"; and

24 (2) by adding at the end the following new25 paragraph:

"(2) DEPLOYMENT.—The Director of the Mis sile Defense Agency shall ensure that the sensor ar chitecture developed under paragraph (1) is deployed
 as soon as practicable.".

5 (d) COMPATIBILITY WITH EFFORTS OF DEFENSE
6 ADVANCED RESEARCH PROJECTS AGENCY.—Such section
7 is amended—

8 (1) by redesignating subsections (e) and (f) as
9 subsection (f) and (g), respectively; and

10 (2) by inserting after subsection (d) the fol-11 lowing new subsection (e):

"(e) COMPATIBILITY WITH EFFORTS OF DEFENSE
ADVANCED RESEARCH PROJECTS AGENCY.—The Director shall ensure that the sensor architecture developed
under subsection (a) is compatible with efforts of the Defense Advanced Research Projects Agency relating to
space-based sensors for missile defense.".

18 (e) REPORT ON PROGRESS.—

(1) IN GENERAL.—Not later than 90 days after
the date of the enactment of this Act, Secretary of
Defense shall submit to the congressional defense
committees a report on the progress of all efforts
being made by the Missile Defense Agency, the Defense Advanced Research Projects Agency, and the
Air Force relating to space-based sensing and track-

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1	ing capabilities for missile defense and how each of
2	such organizations will work together to avoid dupli-
3	cation of efforts.
4	(2) FORM.—The report required by paragraph
5	(1) shall be submitted in unclassified form, but may
6	include a classified annex.
7	SEC. 4. INTEGRATED AIR AND MISSILE DEFENSE FOR
8	EVOLVING THEATER MISSILE THREATS.
9	(a) FINDINGS.—Congress makes the following find-
10	ings:
11	(1) The December 2017 National Security
12	Strategy (NSS) states, "great power competition
13	[has] returned [as] China and Russia began to re-
14	assert their influence regionally and globally".
15	(2) Additionally, such strategy states that
16	China and Russia are "fielding military capabilities
17	designed to deny America access in times of crisis
18	and to contest our ability to operate freely in critical
19	commercial zones during peacetime" with the goal of
20	"contesting [United States] geopolitical advantages
21	and trying to change the international order in their
22	favor''.
23	(3) The 2018 National Defense Strategy states
24	that—

1	(A) "[t]he central challenge to U.S. pros-
2	perity and security is the reemergence of long-
3	term, strategic competition by what the Na-
4	tional Security Strategy classifies as revisionist
5	powers";
6	(B) "[i]t is increasingly clear that China
7	and Russia want to shape a world consistent
8	with their authoritarian model—gaining veto
9	authority over other nations' economic, diplo-
10	matic, and security decisions";
11	(C) "[1]ong-term strategic competitions
12	with China and Russia are the principal prior-
13	ities for the Department, and require both in-
14	creased and sustained investment, because of
15	the magnitude of the threats they pose to U.S.
16	security and prosperity today, and the potential
17	for those threats to increase in the future"; and
18	(D) "[i]nvestments [on missile defense]
19	will focus on layered missile defenses and dis-
20	ruptive capabilities for both theater missile
21	threats and North Korean ballistic missile
22	threats".
23	(4) Among his priorities for missile defense up-
24	grades, General John Hyten stated that the United
25	States needs to "increase the robustness of regional

missile defense capability and capacity including deployment of the Aegis Ballistic Missile Defense and
the Terminal High-Altitude Area Defense (THAAD)
capabilities and implementation of recommendations
from the Department's Joint Regional Integrated
Air and Missile Defense Capability Mix (JRICM)
study".

8 (5) General Curtis Scaparrotti, Commander of 9 United States European Command (USEUCOM) 10 stated, "It is essential that our assigned and rota-11 tional multi-domain forces are protected by a robust, 12 layered [integrated air and missile defense (IAMD)] 13 capability . . . Our approach to IAMD must be in-14 clusive with our NATO allies and key partners as we 15 face a growing ballistic missile threat from regional adversaries.". 16

17 Admiral Harry Harris, Commander of (6)18 Pacific United States Command, stated, 19 "USPACOM will continue working with Japan, the 20 ROK, and Australia to improve our level of staff co-21 ordination and information sharing with the goal of 22 creating a fully-integrated Ballistic Missile Defense 23 (BMD) architecture that addresses the increasing 24 cruise missile threat.".

(b) SENSE OF THE SENATE.—It is the Sense of the
 Senate that—

3 (1) the United States should utilize regional
4 missile defense assets to counter and deter against
5 cruise, short-to-medium-range ballistic, and hyper6 sonic missile threats;

7 (2) the United States should continue to rapidly
8 work toward the interoperability of all United States
9 missile defense systems for a more effective layered
10 defense; and

(3) the United States Army should increase its
attention, focus, and resources developing an integrated air-and-missile defense architecture to protect
both land and air forces from cruise, short-to-medium-range ballistic, and hypersonic missile threats.
(c) REPORT.—

17 (1) IN GENERAL.—Not later than 90 days after 18 the date of the enactment of this Act, if consistent 19 with the direction or recommendations of the Missile 20 Defense Review that commenced in 2017, the Sec-21 retary of Defense shall submit to the congressional 22 defense committees a report on the Department's 23 plan for the creation of a fully interoperable and in-24 tegrated air and missile defense architecture.

1	(2) Elements.—Elements of the report re-
2	quired by paragraph (1) are as follows:
3	(A) An intelligence assessment of cruise,
4	short-to-medium-range ballistic, and hypersonic
5	missile threats to the United States and its de-
6	ployed forces.
7	(B) An examination of current United
8	States capabilities to defeat the threats included
9	in the report required by subparagraph (A) and
10	an analysis of the existing capability and re-
11	source gaps.
12	(C) An analysis of the level of integration
13	and interoperability of United States missile de-
14	fense systems and the future requirements
15	needed to become fully integrated and inter-
16	operable to defeat the threats included in the
17	report required by subparagraph (A).
18	(D) A description of the current state of
19	survivability of United States missile defense
20	systems against the full spectrum of air and
21	missile threats from near-peer threats and any
22	planned efforts to increase survivability.
23	(3) FORM.—The report required by paragraph
24	(1) shall be submitted in unclassified form, but may
25	include a classified annex.

3 (a) FINDINGS.—Congress makes the following find-4 ings:

5 (1) General Joe Dunford, Chairman of the
6 Joint Chiefs of Staff, stated, "The United States
7 military is in a fierce competition to harness the
8 benefits of emerging technologies, including hyper9 sonics . . . as these developments will fundamentally
10 change the character of war.".

(2) General John Hyten, Commander of United
States Strategic Command (USSTRATCOM) stated,
"China is swiftly developing and testing a hypersonic-glide vehicle capability, a technology used to defeat ballistic missile defenses.".

16 (3) General Hyten also stated, "President
17 Putin announced Russia's development of . . . a
18 maneuverable hypersonic glide vehicle," which "only
19 reinforce Russia's commitment to develop weapons
20 designed to intimidate and coerce the U.S. and its
21 allies.".

(4) Admiral Harry Harris, Commander of
USPACOM stated, "China and Russia continue to
develop and operationally field advanced counterintervention technologies which include fielding and
testing of highly maneuverable re-entry vehicle/war-

1 head (i.e., hypersonic weapons) capabilities that 2 challenge U.S. strategic, operational, and tactical freedom of movement and maneuver. China and 3 4 Russia also present other notable challenges in the form of cruise missiles and small-unmanned aircraft 5 6 systems (s–UAS) which fly different trajectories, 7 making them hard to detect, acquire, track, and 8 intercept.".

9 (b) ACCELERATION OF PROGRAM.—The Director of
10 the Missile Defense Agency shall accelerate the hypersonic
11 missile defense program of the Missile Defense Agency.
12 (c) DEPLOYMENT.—The Director shall deploy such
13 program in conjunction with a persistent space-based mis14 sile defense sensor program.

15 (d) Report.—

16 (1) IN GENERAL.—Not later than 90 days after
17 the date of the enactment of this Act, the Director
18 shall submit to the congressional defense committees
19 a report on how hypersonic missile defense can be
20 accelerated to meet emerging hypersonic threats.

21 (2) CONTENTS.—The report submitted under
22 paragraph (1) shall include the following:

23 (A) An estimate of the cost of such accel-24 eration.

1	(B) The technical requirements and acqui-
2	sition plan needed for the Director to develop
3	and deploy a hypersonic missile defense pro-
4	gram.
5	(C) A testing campaign plan that acceler-
6	ates the delivery of hypersonic defense systems
7	to the warfighter.
8	(3) FORM.—The report required by paragraph
9	(1) shall be submitted in unclassified form, but may
10	include a classified annex.
11	SEC. 6. SENSE OF THE SENATE ON ALLIED PARTNERSHIPS
12	FOR MISSILE DEFENSE.
13	(a) FINDINGS.—Congress makes the following find-
14	ings:
15	(1) At the 2010 Lisbon Summit, the North At-
16	lantic Treaty Organization (NATO) agreed to de-
17	velop a missile defense capability to protect North
18	Atlantic Treaty Organization European populations,
19	territory, and armed forces against the threats posed
20	by the proliferation of ballistic missiles by Iran.
21	(2) The United States contribution to that
22	North Atlantic Treaty Organization effort is the Eu-
23	ropean Phased Adaptive Approach (EPAA), which
	Topour Thused Hauperte Tipprouen (DTTM), thien
24	includes the deployment of a Terminal High Altitude

1 ployment of Aegis Ballistic Missile Defense ships in 2 Europe, the deployment of an Aegis Ashore in Ro-3 mania, and a second Aegis Ashore site in Poland, 4 which will be completed by 2020. 5 (3) Currently, ballistic missile defense-capable 6 Aegis ships are operating in European waters to de-7 fend Europe from potential ballistic missile attacks 8 from countries such as Iran. 9 (4) Additional ballistic missile defense-capable 10 Aegis ships are operating in the Western Pacific and 11 the Persian Gulf to provide regional defense against 12 potential ballistic missile attacks from countries such 13 as North Korea and Iran. 14 (5) In early 2017, United States Pacific Command (USPACOM) and United States Forces-Korea 15 16 (USFK) deployed a Terminal High Altitude Area 17 Defense (THAAD) battery to the Korean peninsula 18 in 2017 that is now fully operational. 19 (6) In December 2017, Japanese Prime Min-20 ister Shinzo Abe's Cabinet agreed to purchase two 21 United States-made Aegis Ashore batteries to defend 22 against "North Korea's nuclear missile development 23 . . . a new level of threat to Japan.". 24 (7) Under Secretary of Defense John Rood

stated, "We are also encouraging our allies and

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partners in Europe, the Middle East and Near East
 Asia to acquire missile defense capabilities, and to
 strengthen missile defense cooperation in order to
 move towards a more interoperable and integrated
 missile defense architecture against hostile ballistic
 and cruise missile threats.".

7 (8) General Vincent Brooks, Commander of 8 United States Forces-Korea stated that "Increasing 9 interoperability with [Republic of Korea (ROK)] sys-10 tems is a key part of improving Alliance missile de-11 fense, including program upgrades to the ROK Pa-12 triot system and procurement of PAC-3 intercep-13 tors. As North Korea continues to improve its mis-14 sile forces, the ROK-United States Alliance must 15 also continue to expand its BMD capabilities.".

16 (9) General James Dickinson, Commander of 17 United States Army Space and Missile Defense 18 Command, stated that "integrating allies into a 19 common and mutually supportive [missile defense] 20 architecture is a critical warfighter priority", and 21 events like the NIMBLE TITAN campaign—the 22 world's premier strategic and military policy missile 23 24 bined missile defenses and provide a means to ad-25 vance U.S. efforts in collaboration, integration,

interoperability, and burden sharing with our allies
 and partners.".

3 (b) SENSE OF THE SENATE.—It is the sense of the
4 Senate that—

5 (1) the United States should seek additional op6 portunities, at the tactical, operational, and strategic
7 levels, to provide missile defense capabilities, doc8 trine, interoperability, and planning to allies and
9 trusted partners of the United States;

10 (2) an expedited foreign military sales arrange11 ment would be beneficial in delivering such missile
12 defenses to allies and trusted partners; and

(3) it is important to continue to work with allies and trusted partners, such as Israel, to learn
from their experience deploying successful missile
defense technologies.

17 SEC. 7. SENSE OF THE SENATE ON RESULTS OF TESTS CAR-

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RIED OUT BY MISSILE DEFENSE AGENCY.

19 (a) FINDINGS.—Congress makes the following find-20 ings:

(1) General John Hyten, Commander of the
United States Strategic Command, stated that
North Korea is quickly advancing their missile and
nuclear technology because their rapid testing ca-

dence allows them to quickly apply lessons learned in testing to advance new capabilities.

3 (2) Before the Committee on Armed Services of 4 the Senate, General Hyten stated, "If you look at 5 what North Korea's doing; test, fail, test, fail. And 6 I look at what I did when I was a younger officer 7 in the space business, that's how you go fast. [Carl] 8 Von Braun in the early days the rocket business, he 9 had a 60 percent failure rate; maybe the greatest 10 rocket scientist of all time. Can you imagine if [the 11 Missile Defense Agency] had a 60 percent failure 12 rate, what the—what the newspapers would say?".

(3) General Hyten characterized the current irregular testing environment in the United States as
"the wrong kind of testing environment" due to
risk-aversion and fear of failure.

(4) Regular missile defense testing, including
ground testing and non-intercept tests, not only improves the missile defense system, but also gives the
members of the Armed Forces experience with and
confidence in their tactics, techniques, and procedures.

23 (5) Section 1690 of the National Defense Au24 thorization Act for Fiscal Year 2018 (Public Law
25 115–91) states that "Director of the Missile Defense

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Agency should continue to focus testing campaigns 1 2 on delivering increased capabilities to the Armed 3 Forces as quickly as possible and . . . should seek 4 to establish a more prudent balance between risk 5 mitigation and the more rapid testing pace needed 6 to quickly develop and deliver new capabilities to the 7 Armed Forces.".

8 (6) Regarding a needed shift to a less-risk ad-9 verse missile defense testing culture, Under Sec-10 retary of Defense John Rood stated, "I think in 11 some ways when we look at our allies like Israel and 12 their test regimen, they're much more willing to go 13 back out to the test range, begin a flight test regi-14 men, work through their issues, understanding there 15 are going to be bumps in the road . . . I certainly 16 second the approach of a less-risk adverse testing 17 culture].".

18 (b) SENSE OF THE SENATE.—It is the sense of the 19 Senate that—

20 (1) tests carried out by the Missile Defense 21 Agency, which do not achieve an intercept or the 22 main objective, should not be considered failures if 23 they contribute to the advancement of the capability; 24 (2) the Missile Defense Agency—in an effort to 25 deliver capabilities at the speed of relevance—should

2	ments made by all test events, rather than viewing
3	any total outcome as an indication of the reliability
4	of entire missile defense systems;
5	(3) the Missile Defense Agency should, as part
6	of its test program, continue to build an independ-
7	ently accredited modeling and simulation element to
8	better inform missile defense performance assess-
9	ments and test criteria; and
10	(4) the Missile Defense Agency should continue
11	to pursue an increasingly rigorous testing regime, in
12	coordination with the Office of the Director, Oper-
13	ational Test and Evaluation, to more rapidly deliver
14	concluiting to the monfighton of the threat analyse
14	capabilities to the warfighter as the threat evolves.
14	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR
15	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR
15 16	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR MISSILE DEFENSE.
15 16 17	 SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR MISSILE DEFENSE. (a) FINDINGS.—Congress makes the following find-
15 16 17 18	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR MISSILE DEFENSE. (a) FINDINGS.—Congress makes the following find- ings:
15 16 17 18 19	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR MISSILE DEFENSE. (a) FINDINGS.—Congress makes the following find- ings: (1) General Lori Robinson, Commander of
15 16 17 18 19 20	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR MISSILE DEFENSE. (a) FINDINGS.—Congress makes the following find- ings: (1) General Lori Robinson, Commander of United States Northern Command
15 16 17 18 19 20 21	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR MISSILE DEFENSE. (a) FINDINGS.—Congress makes the following find- ings: (1) General Lori Robinson, Commander of United States Northern Command (USNORTHCOM), stated, "I continue to prioritize
 15 16 17 18 19 20 21 22 	SEC. 8. SENSE OF THE SENATE ON DISCRIMINATION FOR MISSILE DEFENSE. (a) FINDINGS.—Congress makes the following find- ings: (1) General Lori Robinson, Commander of United States Northern Command (USNORTHCOM), stated, "I continue to prioritize improvements to the intercontinental ballistic missile

recognize the learning value of individual advance-

continental ballistic missiles, improved target dis crimination will improve the likelihood of a success ful engagement.".

4 (2) General Robinson also stated, "Improved 5 discrimination capability will increase the likelihood 6 of a successful intercept, and the Missile Defense 7 Agency is developing additional radars such as the 8 Long Range Discrimination Radar in Alaska and a 9 persistent radar on Hawaii, both of which will pro-10 vide improved target discrimination and a more sur-11 vivable sensor network.".

12 (3) General Samuel Greaves, the Director of 13 the Missile Defense Agency, stated, "In addition, 14 improvements in sensor coverage to include the long-15 range discrimination radar in Clear, Alaska, the ad-16 dition of homeland defense radar in Hawaii, if it's 17 approved, and planning for a homeland defense 18 radar in the Pacific, as well as advanced discrimina-19 tion improvements, will enable the United States to 20 improve protection of the homeland.".

(4) In the President's proposed budget for fiscal year 2019, the Missile Defense Agency requested
the following:

24 (A) \$220,900,000 to continue the develop25 ment of advanced discrimination for the AN/

TPY-2, Sea-Based X-band (SBX) radar, and the Upgraded Early Warning Radars (UEWRs) to counter evolving threats.

4 (B) \$164,600,000 to continue development 5 of Long Range Discrimination Radar the 6 (LRDR) and \$174,000,000 for additional mili-7 tary construction for the Long Range Discrimi-8 nation Radar to provide persistent long-range 9 midcourse discrimination, precision tracking, 10 and hit assessment and improve ballistic missile 11 defense system target discrimination capability 12 while supporting a more efficient utilization of 13 the ground-based midcourse defense interceptor 14 inventory.

15 (C) \$62,200,000 in fiscal year 2019 for 16 the Homeland Defense Radar-Hawaii (HDR-H) 17 and \$33.500,000 on for the Homeland Defense 18 Radar-Pacific (HDR-P) to close coverage gaps 19 in the Pacific architecture and provide per-20 sistent long-range acquisition and midcourse 21 discrimination, precision tracking, and hit as-22 sessment to support the defense of the home-23 land against long-range missile threats.

24 (5) As a part of its Fiscal Year 2019 Unfunded
25 Priorities List submitted to Congress, the Missile

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1 Defense also additional Agency requested an 2 \$126,000,000 to develop advanced discrimination capabilities and high-fidelity digital modeling and sim-3 4 ulation enhancements. 5 (b) SENSE OF THE SENATE.—It is the sense of the Senate that prioritizing discrimination capabilities to im-6 7 prove missile defense effectiveness against current and fu-8 ture threats is critically important. 9 (c) REPORT.— 10 (1) IN GENERAL.—Not later than 90 days after 11 the date of the enactment of this Act, the Director 12 of the Missile Defense Agency shall submit to the 13 congressional defense committees a report on the fol-14 lowing: 15 (A) Needed discrimination improvements within the missile defense architecture. 16 17 (B) The Missile Defense Agency's plan to 18 rapidly field advanced discrimination capabili-19 ties. 20 (C) An analysis of efforts to address dis-21 crimination challenges against emerging adver-22 sary threats, including hypersonic and cruise 23 missiles.

(2) FORM.—The report required by paragraph
 (1) shall be submitted in unclassified form, but may
 include a classified annex.

4 SEC. 9. CONGRESSIONAL DEFENSE COMMITTEES DEFINED.

5 In this Act, the term "congressional defense commit6 tees" has the meaning given such term in section 101 of
7 title 10, United States Code.

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