

En Bloc Amendments to H.R. 5515

Subcommittee on Emerging Threats and Capabilities En Bloc #1

Log #	Sponsor	Description
007	Banks	Directs the Secretary of Defense to report to Congress on the international proliferation of autonomous weapons and the use of autonomous intelligence, cyber weapons, and machine learning in cyber operations.
021r1	Gabbard	Requires a report from SECDEF on chemical weapons and precursors in the aftermath of the U.S. strikes on facilities in Syria.
052	Hice	Directs the Secretary of Defense to submit a plan to the defense committees on how the Department of Defense will partner with universities and private industry on cyber education.
066	Larsen	Requires a briefing on DTRA status of implementing recommendations made in a Joint Staff analysis of Operation United Assistance.
067	Larsen	Directs ONR to brief on initiatives which support university research into autonomous systems.
094r1	Thornberry	Modifications to the Global Engagement Center.
143	Gabbard	Directs the DoD to provide a report on its preparedness to provide noncontiguous states with temporary relief and emergency work in the aftermath of an emergency incident.
147	Cheney	Amends the National Hypersonics Initiative directive report language in the ETC mark to include information on impacts the INF Treaty has on the research, development, prototyping, testing, or employment of hypersonic vehicle technology.

**Amendment to H.R. 5515
National Defense Authorization Act for Fi**

Log 007

Offered by: Rep. Banks of Indiana

In the appropriate place in the report to accompany H.R. 5515, insert the following new Directive Report Language:

[Autonomous Capabilities]

Not later than April 1, 2019, the Secretary of Defense shall submit to the committee on Armed Services an assessment on the consequences of the international proliferation of autonomous weapons, including those utilizing artificial intelligence and machine learning, and a strategy for U.S. engagement in international discussions. In conducting such an assessment, the Secretary of Defense shall consider each of the following:

- An evaluation of the consequences of an arms race in autonomous weapons, cyber weapons, artificial intelligence and machine learning, both from the domestic and competitor point of views.
- An explanation of the of the concept of “appropriate human judgement” and how it differs from “meaningful human control”
- An explanation of the U.S. strategy towards influencing how other nations approach autonomous weapons, including human judgement, national safety review processes, and stability concerns.

Further, the study should include an assessment of the current policy guidelines with respect to the role of autonomy in offensive and defensive cyberspace operations, and a discussion of how artificial intelligence and machine learning could impact current policy and doctrine. In conducting such an assessment, the Secretary of Defense shall evaluate the sufficiency of Department of Defense policies governing autonomy in cyberspace.

~~REVISED~~ → 21
Log 02/1/1

AMENDMENT TO H.R. 5515

OFFERED BY MS. GABBARD OF HAWAII

At the end of subtitle C of title XII, add the following new section:

1 **SEC. 12 . REPORT ON POTENTIAL RELEASE OF CHEMICAL**
2 **WEAPONS OR CHEMICAL WEAPONS PRECUR-**
3 **SORS FROM BARZEH RESEARCH AND DEVEL-**
4 **OPMENT CENTER AND HIM SHINSHAR CHEM-**
5 **ICAL WEAPONS STORAGE AND BUNKER FA-**
6 **CILITIES IN HOMS PROVINCE OF SYRIA.**

7 (a) IN GENERAL.—Not later than 30 days after the
8 date of the enactment of this Act, the Secretary of Defense
9 shall submit to the congressional defense committees a re-
10 port that contains a review and analysis of the potential
11 for release of chemical weapons or chemical weapons pre-
12 cursors from the Barzeh Research and Development Cen-
13 ter and the Him Shinshar chemical weapons storage and
14 bunker facilities in Homs province of Syria that were tar-
15 gets of strikes by the United States and partner forces
16 on April 13, 2018.

17 (b) REQUIREMENTS RELATING TO REVIEW AND
18 ANALYSIS.—The review and analysis described in sub-
19 section (a) shall include the following:

1 (1) The methodology the Secretary of Defense
2 used prior to such strikes to determine the likelihood
3 of a release of chemical weapons or chemical weap-
4 ons precursors affecting local residents.

5 (2) The methodology the Secretary of Defense
6 used prior to such strikes to determine the potential
7 for chemical agents to enter into the aquifer, air,
8 soil, or other aspects of the environment.

9 (c) FORM.—The report required under this section
10 shall be submitted in unclassified form, but may contain
11 a classified annex.



**Amendment to H.R. 5515
National Defense Authorization Act for Fiscal Year 2019**

Offered by: Mr. Hice of Georgia

In the appropriate place in the report to accompany H.R. 5515, insert the following new Directive Report Language:

Plan to Enhance Coordination with Universities and Industry on Cyber Education

The committee notes that universities and private industry will continue to be critical partners in the education and training of our future cyber force. Traditional academic approaches to cyber training and cyber certifications such as Security + and CISSP are based on preventing vulnerabilities, attacks, and gaps that have been identified in the past. The committee is concerned that the relevance of the training content of academic institutions could be immaterial depending on when the courseware was updated. Bridging the gap in cyber training between curriculum that has been built on legacy data versus training built on current real world cyberattacks is a meaningful area of cyber training research, curriculum development, and instruction delivery that must be addressed. Therefore, the committee directs the Secretary of Defense to present to the defense committees a plan on how the Department of Defense can leverage and partner with universities and industry on cyber education and training that addresses this gap by November 1, 2018. This plan shall include: current partnerships and ability to expand and leverage those partnerships; existing curriculum and recommended changes needed to ensure relevance to future threats; joint development of curriculum, courseware and research projects; availability and joint use of university facilities; and recommended changes to legislation to improve cyber education and training partnerships.

**Amendment to H.R. 5515
National Defense Authorization Act for**

Log 066

Offered by: Rep. Larsen

In the appropriate place in the report to accompany H.R. 5515, insert the following new Directive Report Language:

Support for Global Health Security Agenda and Briefing on Joint Staff Recommendations

The Committee is supportive of the Department of Defense contributions to biosecurity and the Global Health Security Agenda (GHSA). The DoD possesses unique capabilities that contribute to interagency efforts to prevent, detect, and respond to outbreaks of infectious disease worldwide, as demonstrated by the response to Ebola in West Africa.

As the Ebola response required in excess of \$600 million in DoD funding, the Committee is supportive of ensuring that the DoD learns lessons that can be applied to future pandemic prevention and response efforts. Therefore, the committee directs the Director of the Defense Threat Reduction Agency to provide a briefing to the House Committee on Armed Services not later than October 31, 2018 on implementation of recommendations made by the Joint Staff in its 2016 analysis of Operation United Assistance. The briefing shall include, but not be limited to, the status of implementation of the following recommendations:

- A. Participate in or facilitate interagency meetings to synchronize the GHSA plans and activities. Support GHSA initiatives in partner countries
- B. Conduct a capability based assessment to identify gaps in DoD's ability to respond to infectious disease outbreaks, both domestically and internationally
- C. Sustain, and expand if possible public health-related capacity building for the full range of infectious diseases with partner countries as conditions allow
- D. Work with CDC and other stakeholders to develop a strategic plan for a global laboratory network and improved information sharing
- E. Identify and leverage opportunities to expand sampling programs to enhance OCONUS disease surveillance and gain an improved understanding of disease prevalence in different geographic areas
- F. Support the continued development of USG strategic plans that increase the public health and bio-surveillance capacities of partner nations

**Amendment to H.R. 5515
National Defense Authorization Act for Fiscal Year 2017**

Offered by: Rep. Larsen

In the appropriate place in the report to accompany H.R. 5515, insert the following new Directive Report Language:

Briefing on Navy Support for Research into Autonomous Systems

The committee is aware of the Robotarium, a laboratory hosted at the Georgia Institute of Technology, sponsored by the Office of Naval Research (ONR), where researchers conduct experiments with interconnected, heterogeneous unmanned ground and aerial systems. The committee is supportive of competitively awarded grant programs that enhance academia's ability to conduct complex experiments with autonomous systems. As the role of autonomous systems in operations is expected to grow, the Committee believes it will be increasingly important for ONR to continue to fund initiatives that prepare future engineers to conduct cutting edge research in this discipline, especially with different classes of autonomous systems including UUVs, USVs, and UAVs operating simultaneously across multiple domains. Therefore, the committee directs the Director of ONR to brief the House Committee on Armed Services by November 1, 2018, on initiatives that enhance the ability of academia to conduct complex experiments with autonomous systems.

Log 094-1

AMENDMENT TO H.R. 5515

**OFFERED BY MR. THORNBERRY OF TEXAS, Mr. Smith of Washington,
Ms. Stefanik of New York, and Mr. Langerin of Rhode Island.**
At the appropriate place in title XII, insert the fol-

lowing new section:

1 **SEC. ____ . MODIFICATIONS TO GLOBAL ENGAGEMENT CEN-**
2 **TER.**

3 Section 1287 of the National Defense Authorization
4 Act for Fiscal Year 2017 (22 U.S.C. 2656 note) is amend-
5 ed—

6 (1) by amending paragraph (2) of subsection
7 (a) to read as follows:

8 “(2) PURPOSE.—The purpose of the Center
9 shall be to direct, lead, synchronize, integrate, and
10 coordinate efforts of the Federal Government to rec-
11 ognize, understand, expose, and counter foreign
12 state and non-state propaganda and disinformation
13 efforts aimed at undermining or influencing the poli-
14 cies, security, or stability of the United States and
15 United States allies and partner nations.”;

16 (2) in subsection (b)—

17 (A) by amending paragraph (1) to read as
18 follows:

1 “(1) Direct, lead, synchronize, integrate, and
2 coordinate interagency and international efforts to
3 track and evaluate counterfactual narratives abroad
4 that threaten the policies, security, or stability of the
5 United States and United States allies and partner
6 nations.”;

7 (B) by amending paragraph (4) to read as
8 follows:

9 “(4) Identify current and emerging trends in
10 foreign propaganda and disinformation in order to
11 coordinate and shape the development of tactics,
12 techniques, and procedures to expose and refute for-
13 eign propaganda and disinformation, and pro-ac-
14 tively support the promotion of credible, fact-based
15 narratives and policies to audiences outside the
16 United States.”;

17 (C) by redesignating paragraphs (6)
18 through (10) as paragraphs (7) through (11),
19 respectively;

20 (D) by inserting after paragraph (5) the
21 following new paragraph:

22 “(6) Measure and evaluate the activities of the
23 Center, including the outcomes of such activities,
24 and implement mechanisms to ensure that the activi-

1 ties of the Center are updated to reflect the results
2 of such measurement and evaluation.”; and

3 (E) by amending paragraph (8), as so re-
4 designated, to read as follows:

5 “(8) Use information from appropriate inter-
6 agency entities to identify the countries, geographic
7 areas, and populations most susceptible to propa-
8 ganda and disinformation, as well as the countries,
9 geographic areas, and populations in which such
10 propaganda and disinformation is likely to cause the
11 most harm.”;

12 (3) in subsection (d), by amending paragraphs
13 (1) and (2) to read as follows:

14 “(1) DETAILEES AND ASSIGNEES.—Any Fed-
15 eral Government employee may be detailed or as-
16 signed to the Center with or without reimbursement,
17 consistent with applicable laws and regulations re-
18 garding such employee, and such detail or assign-
19 ment shall be without interruption or loss of status
20 or privilege.

21 “(2) OTHER PERSONNEL.—The Secretary of
22 State should, when hiring additional United States
23 citizen personnel, preference use of Foreign Service
24 limited appointments in accordance with section 309
25 of the Foreign Service Act of 1980 (22 U.S.C.

1 3949). The Secretary may hire United States citi-
2 zens or aliens, as appropriate, including as personal
3 services contractors, for purposes of personnel re-
4 sources of the Center, if—

5 “(A) the Secretary determines that exist-
6 ing personnel resources or expertise are insuffi-
7 cient;

8 “(B) the period in which services are pro-
9 vided by a personal services contractor, includ-
10 ing options, does not exceed 3 years, unless the
11 Secretary determines that exceptional cir-
12 cumstances justify an extension of up to one
13 additional year;

14 “(C) not more than 50 United States citi-
15 zens or aliens are employed as personal services
16 contractors under the authority of this para-
17 graph at any time; and

18 “(D) the authority of this paragraph is
19 only used to obtain specialized skills or experi-
20 ence or to respond to urgent needs.”;

21 (4) in subsection (e), by amending paragraphs
22 (1) and (2) to read as follows:

23 “(1) IN GENERAL.—For each of fiscal years
24 2019 and 2020, the Secretary of Defense is author-
25 ized to transfer, from amounts appropriated to the

1 Secretary pursuant to the authorization under this
2 Act, to the Secretary of State not more than
3 \$60,000,000, to carry out the functions of the Cen-
4 ter.

5 “(2) NOTICE REQUIREMENT.—The Secretary of
6 Defense shall notify the Committee on Armed Serv-
7 ices, the Committee on Appropriations, and the
8 Committee on Foreign Relations of the Senate and
9 the Committee on Armed Services, the Committee
10 on Appropriations, the Committee on Foreign Af-
11 fairs, and the Committee on Oversight and Govern-
12 ment Reform of the House of Representatives of a
13 proposed transfer under paragraph (1) not less than
14 15 days prior to making such transfer.”;

15 (5) in subsection (f), by amending paragraphs
16 (1) and (2) to read as follows:

17 “(1) AUTHORITY FOR GRANTS.—The Center is
18 authorized to provide grants or contracts of financial
19 support to civil society groups, media content pro-
20 viders, nongovernmental organizations, federally
21 funded research and development centers, private
22 companies, or academic institutions for the following
23 purposes:

24 “(A) To support local entities and linkages
25 among such entities, including independent

1 media entities, that are best positioned to refute
2 foreign propaganda and disinformation in af-
3 fected communities.

4 “(B) To collect and store examples of
5 print, online, and social media disinformation
6 and propaganda directed at the United States
7 or United States allies and partner nations.

8 “(C) To analyze and report on tactics,
9 techniques, and procedures of foreign informa-
10 tion warfare and other efforts with respect to
11 disinformation and propaganda.

12 “(D) To support efforts by the Center to
13 counter efforts by foreign entities to use
14 disinformation and propaganda to undermine or
15 influence the policies, security, and social and
16 political stability of the United States and
17 United States allies and partner nations.

18 “(2) FUNDING AVAILABILITY AND LIMITA-
19 TIONS.—The Secretary of State shall provide that
20 each entity that receives funds under this subsection
21 is selected in accordance with the relevant existing
22 regulations through a process that ensures such en-
23 tity has the credibility and capability to carry out ef-
24 fectively and in accordance with United States inter-
25 ests and objectives the purposes specified in para-

1 graph (1) for which such entity received such fund-
2 ing.”;

3 (6) by redesignating subsections (h) and (i) as
4 subsections (i) and (j), respectively; and

5 (7) by inserting after subsection (g) the fol-
6 lowing new subsection:

7 “(h) CONGRESSIONAL BRIEFINGS.—The Secretary of
8 State, together with the heads of other relevant Federal
9 departments and agencies, shall provide a briefing to the
10 Committee on Armed Services, the Committee on Appro-
11 priations, and the Committee on Foreign Relations of the
12 Senate and the Committee on Armed Services, the Com-
13 mittee on Appropriations, the Committee on Foreign Af-
14 fairs, and the Committee on Oversight and Government
15 Reform of the House of Representatives not less often
16 than annually regarding the activities of the Global En-
17 gagement Center. The briefings required under this sub-
18 section shall terminate on the date specified in subsection
19 (j).”.



AMENDMENT TO H.R. 5515
OFFERED BY MS. GABBARD OF HAWAII

At the appropriate place in the bill insert the following:

1 **SEC. ____ REPORT ON SUPPORT FOR NON-CONTIGUOUS**
2 **STATES AND TERRITORIES IN THE EVENT OF**
3 **THREATS AND INCIDENTS.**

4 (a) **REPORT REQUIRED.**—Not later than February 1,
5 2019, the Secretary of Defense shall submit to the Com-
6 mittees on Armed Services of the Senate and House of
7 Representatives a report on the preparedness of the De-
8 partment of Defense in providing support to non-contig-
9 uous States and territories in the aftermath of a natural
10 or manmade incident that warrants the Department to as-
11 sist the State and civil entities with the protection of life
12 and to provide emergency work.

13 (b) **CONTENTS OF REPORT.**—For purposes of the re-
14 port under subsection (a)—

15 (1) the support covered by the report may in-
16 clude support provided under section 403(c) of the
17 Robert T. Stafford Disaster Relief and Emergency
18 Assistance Act (42 U.S.C. 5170b(c)); and

1 (2) the incidents covered by the report shall in-
2 clude natural disasters, acts of terrorism, and indus-
3 trial accidents.

4 (c) FORM OF REPORT.—The report required by sub-
5 section (a) shall be submitted in unclassified form, but
6 may contain a classified annex.



**Amendment to H.R. 5515
National Defense Authorization Act for Fiscal Year 2019**

Offered by: Ms. Cheney of Wyoming

In the portion of the report to accompany H.R. 5515 titled "*National Hypersonics Initiative*", insert at the end of the first paragraph, the following new text: "*The committee is interested in any impact that the Treaty Between the United States of America and The Union of the Soviet Socialist Republics on the Elimination of Their Intermediate-Range And Shorter-Range Missiles, signed in 1987 and commonly referred to as the INF Treaty, is having on the research and development of hypersonic vehicle technology. The committee understands there is concern that the INF treaty obligations may limit the Department of Defense's ability to flight-test and operationally employ hypersonic vehicles*", and at the end of the second paragraph before the period insert the following new text: "*and any impacts of the INF Treaty obligations on the research, development, prototyping, testing, or employment of hypersonic vehicle technology*".