

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
3764	1	Jackson (TX), Ronny	CIT	Directs a briefing on threats to food and agriculture and the national security implications.	EB 1
3852	4	Horsford, Steven	CIT	The report will examine the digital literacy requirements of the U.S. Army and the capabilities and content of existing training platforms in place to meet those requirements with consideration of an existing DoD solution for digital literacy training.	EB 1
3854	4	McClain, Lisa C.	CIT	This DRL directs the Chief Digital and AI Officer to submit a report regarding appropriate controls that should be placed on AI systems within the Department.	EB 1
3904	1	Jackson (TX), Ronny	CIT	DRL emphasizing the importance of hypersonics RDT&E and collaboration with university partners on hypersonics research.	EB 1
3950	0	Khanna, Ro	CIT	Would modify the National Security Commission on Emerging Biotechnology	EB 1
3974	1	Gallego, Ruben	CIT	DRL directing the Secretary of Defense to brief on efforts to further strengthen the cyber security of United States critical infrastructure from adversary disruption.	EB 1
3984	2	Scott, Austin	CIT	Directs the Secretary of Defense to provide a brief on procurement of Hardware-based Encrypted Data Storage Devices.	EB 1
4004	1	Khanna, Ro	CIT	Would require the Secretary of Defense to enter into an agreement for an assessment of biotechnology capabilities of adversaries of the United States.	EB 1
4094	2	Luttrell, Morgan	CIT	Requires a briefing on CDAO's Artificial Intelligence Hub	EB 1
4117	3	Stefanik, Elise	CIT	This DRL requires the DoD to brief HASC on ways to accelerate and broaden the use of commercially available quantum computers.	EB 1
4130	1	Stefanik, Elise	CIT	This language requires the Commander of the Air Force Research Laboratory to support testing environments to rapidly develop MDO capabilities for the Department.	EB 1
4264	1	Turner, Michael	CIT	Report language requiring the Secretary of the Air Force to provide an update on the SpaceWERX Orbital Prime Cohort Development Program.	EB 1
4349	0	Golden, Jared F.	CIT	This directs the Secretary of the Army, in coordination with the DoD Director of Operational Test and Evaluation, to brief the committee on its plans to use AI/ML to enhance the ability of weapons assessments.	EB 1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
4355	0	DesJarlais, Scott	CIT	Extends prohibition on using funds for projects by the EcoHealth Alliance.	EB 1
4366	0	Sewell, Terri A.	CIT	This amendment requests a briefing on the feasibility and resources required to expand the Department's STEM outreach activities.	EB 1
4367	0	Sewell, Terri A.	CIT	This amendment directs the Air Force to provide a briefing on the strategy to maintain Business & Enterprise Systems Product Innovation capabilities.	EB 1
4370	0	Sewell, Terri A.	CIT	This amendment directs DISA to provide a report on data center consolidation plans, including remaining capacity, future workloads, and future personnel needs.	EB 1
4374	2	Kim, Andy	CIT	This amendment would require the creation of a Department of Defense cloud computing roadmap.	EB 1
4419	1	Wittman, Robert	CIT	10 USC 4092 - PERSONNEL MANAGEMENT AUTHORITY TO ATTRACT EXPERTS IN SCIENCE AND ENGINEERING. Provides OSC, SCO, DIU, and SDA with additional personnel hiring authorities.	EB 1
4447	0	Strong, Dale W.	CIT	Directs the Secretary of the Army to provide a brief on current and future plans to develop technologies to counter high-altitude threats by December 1, 2024.	EB 1
4518	3	Wittman, Robert	CIT	NGREA Modernization Cyber Mission and Weapons Modernization. Directs a briefing on options to enhance use of the National Guard and Reserve Equipment Account (NGREA) for delivering cyber capabilities to National Guard units.	EB 1
4557	1	Norcross, Donald	CIT	Navy to provide a description of Navy plans for an AI powered unified common operating and tactical picture	EB 1
4567	0	Turner, Michael	CIT	Report language asking the Department of Defense to provide a briefing on efforts to improve data tracking of its cyber workforce.	EB 1
4571	1	Bacon, Don	CIT	Directs the establishment of the Department of Defense Hackathon program	EB 1
4574	2	Fallon, Pat	CIT	Report requiring SECNAV to conduct an assessment of the fiber optic network capabilities of naval aviation training and report to HASC.	EB 1
4583	0	Mace, Nancy	CIT	To amend Section 1511—Protective Measures for Mobile Devices within the Department of Defense by adding new text in subsection (b) to add protection against AI smishing, phishing, and text or email compromise	EB 1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
4611	1	Ryan, Patrick	CIT	Directs the Chief Digital and Artificial Intelligence Officer to provide a briefing to the committee on its fiscal year 2025 spend plan for PE0604122D8Z, including the JOS, Data Integration Layer, Global Information Dominance Experiment, and MCA projects.	EB 1

Amendment to H.R. 8070

Offered by: Mr. Jackson of Texas

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Agriculture Defense and Emerging Biotechnology Research Collaboration

The committee understands that the food and agriculture sectors are critical to the national security of the United States. As the United States' food supply system grows increasingly complex and interconnected, it becomes more susceptible to emerging zoonotic diseases, pests, and foodborne pathogens. The committee is aware that National Security Memorandum 16 (NSM-16) seeks to address strengthening the security and resilience of the United States' food and agriculture sector, and the committee is further aware that there are university partners, along with government agencies, which are best situated to support the objectives of NSM-16. The committee believes that collaboration by universities with the Federal Government can leverage unique and mission-driven expertise to address these susceptible NSM-16 concerns.

Therefore, the committee directs the Secretary of Defense, in coordination with the Secretary of Agriculture, to provide a briefing to the House Committee on Armed Services not later than April 1, 2025, on the Department of Defense and the Department of Agriculture's efforts to collaborate with university partners on the development of countermeasures for hazards deemed to be a threat to the critical infrastructure of our nation's food supply and the relevant national security concerns that are associated.

AMENDMENT TO H.R. 8070

OFFERED BY MR. HORSFORD

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Digital Literacy at Army

The committee is aware of and supports efforts undertaken by the Department of Defense in conjunction with the Air Force's Digital University platform to provide digital literacy training for servicemembers, government civilians, and contractors in advanced technologies, such as cyber, artificial intelligence and machine learning (AI/ML), and cloud computing. Given the success of these efforts, the committee encourages the Army to leverage proven government-owned training platforms and curricula informed by private sector expertise already in use to accelerate learning and career path development in critical emerging technologies, such as AI/ML. The committee believes that scarce budgetary resources should be spent on providing such training to a wider user base within the Army and not on creating new systems to duplicate the functions of existing systems already in use by the Department of Defense.

Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Armed Services Committee by March 1, 2025, on efforts the Army is taking to implement digital literacy training within the service. The briefing should include:

- 1) a list of current digital literacy requirements inclusive of cyber, AI/ML, and cloud computing;
- 2) a list of current mobile enabled digital literacy training platforms in use and the number of users enrolled within those platforms;
- 3) an explanation of the cyber, AI/ML, cloud computing and other digital literacy training courses being offered in (2) and any notable gaps the Army seeks to address;
- 4) an implementation plan for the use of a digital training platform currently in use within the Department of Defense that leverages best practices regarding proficiency assessment, customizable continuous learning, progress tracking, and curricula informed by private sector expertise.

Amendment to H.R. 8070

Offered by: Mrs. McClain

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Artificial Intelligence and the Effects to Chemical, Biological, Radiological, and Nuclear (CBRN) Threats

The committee is aware that in April 2024, the Department of Homeland Security completed an assessment that evaluated the potential for artificial intelligence to be misused to enable the development or production of CBRN threats, while also considering the benefits and applications of AI to counter these threats. The committee believes that there are unique and important considerations for the Department of Defense with regards to the intersection of AI and CBRN threats that warrant dedicated study and analysis. The committee is aware of the potential for AI to have both beneficial and detrimental effects to the ability to manage CBRN threats. Responsible use of AI can have dramatic and positive impacts, such as enabling advanced technologies to mitigate and monitor CBRN threats, but the misuse of AI can lower the barriers for adversaries to develop and deploy CBRN capabilities. The committee therefore directs the Secretary of Defense to brief the committee not later than April 1st, 2025 on the potential impact of artificial intelligence on CBRN threats and threat mitigations.

Amendment to H.R. 8070

National Defense Authorization Act for Fiscal Year 2025

Offered by: Mr. Jackson of Texas

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Improvements in Hypersonics Test Infrastructure

The committee notes with concern the advancements in hypersonics capabilities made by peer and near-peer adversaries, and recognizes the resulting need to develop and deploy hypersonic technologies. The committee believes adequate investment must be made in hypersonics research, development, test, and evaluation (RDT&E) infrastructure in order to enable this goal. The committee therefore supports efforts to collaborate with university partners in conducting relevant RDT&E, and in particular notes the utility of university facilities that operate large-scale, fully-enclosed multi-disciplinary research and development infrastructure suitable for integrated testing of hypersonics, laser and radiofrequency propagation, and aerothermodynamics.

The committee believes it essential to ensure that adequate infrastructure exists to help bridge the gap between lab-scale experiments and open range flight tests. The committee therefore directs the Under Secretary of Defense for Research and Engineering, in coordination with the Director, Test Resource Management Center, to provide a briefing to the House Committee on Armed Services not later than March 1, 2025, on the Department's hypersonics test infrastructure improvement plans. This briefing shall include:

- (1) an inventory of current hypersonics test infrastructure, including relevant infrastructure at industry and academic institutions;
- (2) an inventory and the status of relevant hypersonics test infrastructure planned or under construction, including at industry and academic institutions;
- (3) an assessment of the current backlog of relevant hypersonics test infrastructure planned or under construction; and
- (4) such other information as the Secretary deems appropriate.

AMENDMENT TO H.R. 8070
OFFERED BY MR. KHANNA OF CALIFORNIA

At the appropriate place in title X, insert the following:

1 **SEC. 10 ____. MODIFICATION OF NATIONAL SECURITY COM-**
2 **MISSION ON EMERGING BIOTECHNOLOGY.**

3 Section 1091 of the National Defense Authorization
4 Act for Fiscal Year 2022 (Public Law 117–81) is amend-
5 ed—

6 (1) in subsection (b)(3) by striking “the author-
7 ity to make such appointment or appointments shall
8 expire, and the number of members of the Commis-
9 sion shall be reduced by the number equal to the
10 number of appointments so not made” and inserting
11 “such appointments shall nevertheless be considered
12 valid”;

13 (2) in subsection (g)(1), by inserting “and 6
14 months” after “3 years”; and

15 (3) in subsection (r), by striking “18 months
16 after the date on which it submits the final report
17 required by subsection (g)” and inserting “on De-
18 cember 31, 2026”.



Amendment to H.R. 8070

Offered by: Mr. Gallego

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Briefing on Cybersecurity Threats to Water Infrastructure

The Committee is concerned by the increasing threats to critical infrastructure from malicious actors and potential adversaries in cyberspace. The Committee recognizes the importance of critical infrastructure to economic and national security, and notes in particular the importance of water infrastructure in the context of a historic, long-term drought in the American West. The Committee believes that efforts to deter and respond to such malign actions in cyberspace are of critical importance.

The Committee therefore directs the Secretary of Defense to provide a briefing not later than January 15, 2025 to the House Committee on Armed Services describing the Department of Defense's efforts to deter and respond to malicious cyber activities, and the role of the Department in efforts to further strengthen the cyber security of critical infrastructure from adversary disruption. The briefing shall include:

1. An overview of Department of Defense efforts to deter and respond to cyberattacks against domestic critical infrastructure from malicious actors and potential adversaries.
2. A description of ongoing and planned Department of Defense coordination and cooperation efforts with appropriate executive agencies in order to assist in securing domestic critical infrastructure, as such activities are described in the National Cybersecurity Strategy Implementation Plan, version 2, dated May 2024.
3. Such other information as the Secretary of Defense deems appropriate.

Amendment to H.R. 8070

Offered by: Mr. Austin Scott of Georgia

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Hardware-based Encrypted Data Storage Devices

The committee notes that all agencies of the Department of Defense procure hardware-based encrypted data storage devices either independently, or as components of independent systems. The committee is aware of no specific domestic sourcing requirements associated with the procurement, engineering, development, modification, maturation of technology, or production associated with the hardware based encrypted data storage devices.

Furthermore, the committee is aware that absent of legislation the Department's Chief Information Officer intends to "assess overall supplier and technology risks and apply a variety of risk management tools". The committee is concerned that this approach may not mitigate the risks associated with the storage of classified and other sensitive material, given the People's Republic of China's intrusive requirements for encryption.

Therefore, the committee directs the Secretary of Defense to provide a briefing to the House Committee on Armed Services not later than March 1, 2025, that:

- (1) lists all regulations that require modification to be able to assess the presence of these compromised products in the Department's supply chain;
- (2) provides an in-depth examination of the risk management tools currently used by the Department; and
- (3) reports on those hardware-based encrypted data storage products that have been excluded from procurement within the last 5 years.

AMENDMENT TO H.R. 8070
OFFERED BY MR. KHANNA OF CALIFORNIA

At the appropriate place in title II, insert the following:

1 **SEC. 2 ____ . AUTHORITY FOR SECRETARY OF DEFENSE TO**
2 **ENTER INTO AN AGREEMENT FOR AN ASSESS-**
3 **MENT OF BIOTECHNOLOGY CAPABILITIES OF**
4 **ADVERSARIES OF THE UNITED STATES.**

5 (a) IN GENERAL.—Not later than 120 days after the
6 date of the enactment of this Act, the Secretary of Defense
7 shall seek to enter into an agreement with a federally
8 funded research and development center to conduct an as-
9 sessment related to biotechnology and provide rec-
10 ommendations to the Secretary.

11 (b) AGREEMENT ELEMENTS.—Under an agreement
12 between the Secretary and a federally funded research and
13 development center under this section, the center shall
14 agree to—

15 (1) conduct an assessment of—

16 (A) scientific topics related to bio-
17 technology;

18 (B) scientific capabilities of potential ad-
19 versaries of the United States, such as China,

1 Iran, and the Russian Federation, related to
2 biotechnology; and

3 (C) the current gaps and future scientific
4 and technological needs for adversaries of the
5 United States to be successful with respect to
6 biotechnology capabilities; and

7 (2) develop recommendations with respect to
8 useful indications of any advancement of such adver-
9 saries regarding such capabilities.

10 (c) RESPONSIBILITIES OF SECRETARY.—Under an
11 agreement between the Secretary and a federally funded
12 research and development center under this section, the
13 Secretary shall agree to—

14 (1) appoint appropriate Department of Defense
15 employees as liaisons to the center to support the
16 timely conduct of the assessment described in sub-
17 section (b)(1);

18 (2) provide the center with access to materials
19 relevant to the conduct of such assessment, con-
20 sistent with the protection of sources and methods
21 and other critically sensitive information; and

22 (3) ensure that appropriate members and staff
23 of the center have the necessary clearances, obtained
24 in an expedited manner, to conduct such assessment.

25 (d) REPORT.—

1 (1) IN GENERAL.—If the Secretary enters into
2 an agreement with a federally funded research and
3 development center under this section, not later than
4 October 1, 2025, the Secretary shall submit to the
5 congressional defense committees and the National
6 Security Commission on Emerging Biotechnology a
7 report that includes the findings and recommenda-
8 tions of the center developed pursuant to the assess-
9 ment described in subsection (b)(1).

10 (2) FORM OF REPORT.—The report under para-
11 graph (1) shall be submitted in unclassified form,
12 but may contain a classified annex.

13 (3) TRANSMITTAL TO OTHER DEPARTMENT EN-
14 TITIES.—The Secretary shall transmit to relevant of-
15 fices of the Department of Defense, including the of-
16 fices of the Under Secretary of Defense for Acquisi-
17 tion and Sustainment, the Under Secretary of De-
18 fense for Research and Engineering, the Under Sec-
19 retary of Defense for Policy, the Under Secretary of
20 Defense for Intelligence and Security, and the Office
21 of Net Assessment, a copy of the report under para-
22 graph (1).



Amendment to H.R. 8070

Offered by: Mr. Luttrell of Texas

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Chief Digital and AI Office Data and Artificial Intelligence Hub Briefing

The committee supports the Chief Digital and AI Officer's (CDAO) role as the data and Artificial Intelligence (AI) hub for the Replicator Initiative to provide the end-to-end Development, Security, Operations scaffolding necessary for sustainment of autonomy software. The committee understands this work may necessitate a platform for continuous development and virtual testing and evaluation of multiple vendors' software algorithms, a critical piece to ensuring interoperability and effectiveness on the ever-changing battlefield. To that end, the committee directs the Chief Digital & Artificial Intelligence Officer provide a briefing to the House Committee on Armed Services no later than April 1, 2025 on the CDAO's efforts in support of Replicator.

Amendment to H.R. 8070

Offered by: Ms. Stefanik

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Accelerating Quantum Cloud-Enabled Solutions and Applications for the Department of Defense

The committee is aware of several commercially available quantum computers that show promise in advancing algorithm development for chemistry, object detection, route optimization, quantum machine learning, and several other areas. While most of these specific applications and advances have been commercially developed for industry-specific use, the committee notes that these advancements could have direct application towards solving defense requirements, and that such applications and efforts could expand beyond the existing Quantum Information Science (QIS) research and development lines of effort and into mission-focused and operational use cases.

The committee notes that several quantum computing systems are available directly via private cloud or through commercial cloud providers. The committee is aware that such systems may also include robust software development kits that would enable a broader user base to experiment with algorithm development, optimization solutions, applications use cases, and resource estimation across classical and quantum computing platforms. The committee believes that many of the Department of Defense's software factory environments could benefit from access to advanced quantum algorithms, including quantum machine learning applications. The committee likewise believes that increased availability and broader use of quantum computing capabilities could accelerate workforce development efforts and help to ensure that the Department is able to take full advantage of quantum technologies and applications.

Therefore, the committee directs the Chief Information Officer, in consultation with the Chief Digital and Artificial Intelligence Officer and the Under Secretary of Defense for Research and Engineering, to brief the House Committee on Armed Services not later than December 1, 2024 on potential means to accelerate and broaden the use of commercially available quantum computers, including those available via private cloud and cloud service providers, to support current DoD missions and requirements. Such briefing should include:

- How existing cloud contracts could leverage available quantum computing;
- How quantum computing capabilities could be incorporated into the Department's Software Factory environments, including through the use of existing cloud contracts;

- Describe any additional resources required to accelerate quantum compute use across a broader user-community in support of Department of Defense missions and requirements; and
- Such other information as the Chief Information Officer deems appropriate.

AMENDMENT TO H.R. 8070
OFFERED BY MS. STEFANIK OF NEW YORK

At the appropriate place in title II, insert the following new section:

1 **SEC. 2 ____ . PROGRAM ON LIMITED OBJECTIVE EXPERIMEN-**
2 **TATION IN SUPPORT OF AIR FORCE OPER-**
3 **ATIONS.**

4 (a) IN GENERAL.—The Commander of the Air Force
5 Research Laboratory, acting through a partnership inter-
6 mediary, shall establish a program—

7 (1) to carry out limited objective experiments in
8 operationally relevant environments;

9 (2) to develop persistent instrumentation and
10 infrastructure for field experimentation and other in-
11 novation activities supporting the Air Force and
12 joint service multi-domain mission set; and

13 (3) to identify capabilities for the Air Force
14 multi-domain operations enterprise that have the po-
15 tential to generate life-cycle cost savings and provide
16 data-driven approaches to resource allocation.

17 (b) PARTNERSHIP INTERMEDIARY DEFINED.—In
18 this section, term “partnership intermediary” has the
19 meaning given that term in section 23(c) of the Stevenson-

2

1 Wydler Technology Innovation Act of 1980 (15 U.S.C.
2 3715(c)).



Amendment to H.R. 8070

Offered by: Mr. Turner

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

SpaceWERX Orbital Prime Cohort Development Program

The committee understands that the SpaceWERX Orbital Prime Cohort Development Program (CDP) is working to accelerate the Nation's space logistics capability while preserving the global commons in space. Specifically, SpaceWERX is diligently creating an economically viable market for in-space servicing, assembly, and manufacturing (ISAM) and active debris removal (ADR), including related robotics, advanced sensors, and debris-capture devices.

The committee understands the CDP consists of 41 promising companies that SpaceWERX Orbital Prime invested in through Phase 2 SBIR contracts. These companies and projects are continuously evaluated, including technology readiness, supply chain resiliency, and ability to scale, while receiving tailored coaching and mentorship. This ensures the government can reap the benefits of commercial innovation and stay ahead of near-peer competitors.

The CDP is a new model for supporting SBIR recipients, and SpaceWERX deserves recognition for taking a new approach to increase the probability that commercial innovation will be ready at the speed of mission. With continued support, this cohort will move the Nation closer to an on-orbit demonstration of various capabilities in the near future. Therefore, the committee directs the Secretary of the Air Force to submit a briefing to the House Armed Services Committee not later than December 1, 2024 on how the CDP model can be used to support other Prime programs.

Amendment to H.R. 8070

Offered by: Mr. Jared Golden

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Assessing the Army's Capabilities for Automating Data Collection in Arena Testing

The committee understands and recognizes the importance of accelerating the development of next-generation defense technologies to retain tactical and strategic overmatch. Currently, the testing regimes of major defense programs have largely not been automated and are plagued by time-intensive manual assessments. The need for the Army to upgrade its existing arena testing capabilities for Long Range Precision Fires mission is evident.

The committee, therefore, directs the Secretary of Army in coordination with the Department of Defense's Director of Operational Test and Evaluation to brief the House Committee on Armed Services not later than December 31, 2024, on its plans to utilize advancements in artificial intelligence/machine learning (AI/ML) and software to enhance the ability to accurately verify, validate, and accredit all modeling and simulation tools intended to better enable weapons assessments. This briefing should include, but is not limited to:

- 1) a description of the current development status of the Fragmentation Rapid Analysis Generator using Computed Tomography (FRAG-CT) program, including demonstrated capabilities and performance metrics;
- 2) the potential for emerging technologies to enhance lethality and modeling and simulation capabilities for fragmentation characteristics;
- 3) any current or planned research, development, test, and evaluation initiatives to further develop FRAG-CT capabilities; and
- 4) any potential software solutions currently available to mitigate the testing delays.

AMENDMENT TO H.R. 8070
OFFERED BY MR. DESJARLAIS OF TENNESSEE

At the appropriate place in title X, insert the following:

1 **SEC. 10 ____ . PROHIBITION ON USE OF FUNDS FOR WORK**
2 **PERFORMED BY ECOHEALTH ALLIANCE, INC.,**
3 **IN CHINA ON RESEARCH SUPPORTED BY THE**
4 **GOVERNMENT OF CHINA.**

5 (a) IN GENERAL.—Except as provided under sub-
6 section (b), none of the funds authorized to be appro-
7 priated by this Act or otherwise made available for fiscal
8 year 2025 for the Department of Defense may be used
9 to fund any work to be performed by EcoHealth Alliance,
10 Inc., in China on research supported by the government
11 of China, including to provide any grants for such pur-
12 pose.

13 (b) WAIVER.—The Secretary of Defense may waive
14 the prohibition under subsection (a) if the Secretary deter-
15 mines that such a waiver is in the national security inter-
16 ests of the United States and, not later than 14 days after
17 granting such a waiver, submits to the congressional de-
18 fense committees a detailed justification for the waiver,
19 including—

- 1 (1) an identification of the Department of De-
- 2 fense entity obligating or expending the funds;
- 3 (2) an identification of the amount of such
- 4 funds;
- 5 (3) an identification of the intended purpose of
- 6 such funds;
- 7 (4) an identification of the recipient or prospec-
- 8 tive recipient of such funds (including any third-
- 9 party entity recipient, as applicable);
- 10 (5) an explanation for how the waiver is in the
- 11 national security interests of the United States; and
- 12 (6) any other information the Secretary deter-
- 13 mines appropriate.



AMENDMENT TO H.R. 8070
National Defense Authorization Act for Fiscal Year 2025

Offered by: Ms. Sewell

In the appropriate place in the report to accompany H.R. 8070, insert the following Directive Report Language:

STEM Outreach Footprint

The committee supports the Department of Defense's efforts to conduct science, technology, engineering, and math (STEM) outreach to middle and high school students across the country to engage the next generation of department and industry leaders. However, the committee is concerned that existing STEM outreach efforts may be geographically constrained to areas of existing Department of Defense research infrastructure.

The committee directs the Secretary of Defense to provide a briefing to the House Committee on Armed Services not later than December 1, 2024 on:

- 1) the feasibility and advisability of expanding the Department's STEM outreach activities;
- 2) the resources required to expand the Department's current STEM outreach footprint;
- 3) the Department's efforts to reach historically underserved communities with STEM outreach activities; and
- 4) such other information as the Secretary deems appropriate.

AMENDMENT TO H.R. 8070
National Defense Authorization Act for Fiscal Year 2025

Offered by: Ms. Sewell

In the appropriate place in the report to accompany H.R. 8070, insert the following Directive Report Language:

Business & Enterprise Systems Product Innovation

The committee is encouraged by the progress made by the Air Force's only mobile application software factory, Business & Enterprise Systems Product Innovation (BESPIN), and its development and deployment of software products and upgrades that keep Air Force applications secure from cyber threats. Since fiscal year 2021, Congress has provided \$31 million to BESPIN. The committee is concerned that the Air Force did not request funding to continue the work being done at BESPIN in the fiscal years 2024 and 2025 budget requests.

Therefore, the committee directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services not later than December 1, 2024 explaining the Air Force's strategy to maintain the capabilities provided by BESPIN in the future.

AMENDMENT TO H.R. 8070

National Defense Authorization Act for Fiscal Year 2025

Offered by: Ms. Sewell

In the appropriate place in the report to accompany H.R. 8070, insert the following Directive Report Language:

Defense Information Systems Agency Closures

The committee is aware of the Defense Information Systems Agency's (DISA) plan to consolidate server rooms of the data centers at Maxwell Air Force Base and Tinker Air Force Base. While the committee understands DISA's need to optimize data centers to take advantage of technological advancements and cost-effectiveness measures in a budget restrained environment, the committee is concerned about the timing, communication, and plan for these closures and how these closures will affect DISA's missions at these bases. Therefore, the committee directs the Director of DISA to submit a report to the House Committee on Armed Services no later than December 1, 2024. At minimum, the report should include the following:

- 1) the data center capacity remaining in operation at Maxwell and Tinker Air Force Bases;
- 2) the plans for the future workloads for the data centers at Maxwell and Tinker Air Force Bases; and
- 3) an analysis for future personnel needs for DISA-Montgomery.

AMENDMENT TO H.R. 8070
OFFERED BY MR. KIM OF NEW JERSEY

At the appropriate place in subtitle A of title XV,
insert the following:

1 **SEC. 15__ . ACCOUNTING OF CLOUD COMPUTING CAPA-**
2 **BILITIES OF THE DEPARTMENT OF DEFENSE.**

3 (a) IN GENERAL.—Not later than October 15, 2025,
4 and every six months thereafter, the Chief Information Of-
5 fice of the Department, in coordination with the Chief
6 Data and Artificial Intelligence Officer of the Department,
7 shall provide to the congressional defense committees a re-
8 port listing the current and planned cloud elements of the
9 Department and containing the roadmap required under
10 subsection (b).

11 (b) ACCOUNTING CONTENTS.—Each report under
12 subsection (a) shall include for each current or planned
13 cloud element of the Department a detailed roadmap that
14 includes the following:

15 (1) The dates for any planned or ongoing re-
16 placement, update, modification, or retirement of the
17 cloud element, including—

18 (A) specific dates for—

1 (i) any planned or ongoing major up-
2 dates or upgrades of such cloud element;
3 and

4 (ii) the use of interim capabilities by
5 or in place of such cloud element; and

6 (B) dates for such other activities with re-
7 spect to such cloud element as determined ap-
8 propriate by the Chief Information Officer of
9 the Department.

10 (2) Relevant cost metrics for the cloud element,
11 including the current program cost, cost-to-complete,
12 and incremental costs.

13 (3) The contracting method used, being used,
14 or planned to be used, as applicable, to acquire the
15 cloud element, and in the case of a contractor resell-
16 ing the cloud element of another entity to the De-
17 partment, from whom such contractor is obtaining
18 such cloud element.

19 (4) The element of the Department responsible
20 for managing the cloud element, the users of such
21 cloud element, and such other information regarding
22 the management of such cloud element as the Chief
23 Information Officer of the Department determines
24 appropriate..

1 (5) Relevant metrics regarding the interoper-
2 ability, accessibility, and usability of such cloud ele-
3 ment, as determined by Chief Information Officer of
4 the Department.

5 (6) An assessment of the compliance of the
6 cloud element with the applicable information tech-
7 nology principles and standards of the Department.

8 (7) An assessment of any unique attributes of
9 the cloud element that may inhibit the introduction,
10 replacement, update, modification, or retirement of
11 such cloud element.

12 (8) An assessment of the dependencies, if any,
13 between the cloud element and the introduction, re-
14 placement, update, modification, and retirement of
15 any other cloud element of the Department.

16 (c) REPORT.—At the same time the budget of the
17 President is submitted to Congress pursuant to section
18 1105 of title 31, United States Code, for fiscal year 2027
19 and for each fiscal year thereafter, the Secretary of De-
20 fense shall submit to Congress a report on any changes
21 to the roadmap required under subsection (b), including,
22 for each such change, a description and the detailed budg-
23 etary effects.

24 (d) SUNSET.—This section shall terminate on De-
25 cember 31, 2030.

1 (e) DEFINITIONS.—In this section—

2 (1) the term “cloud element” means a cloud
3 computing capability, environment, architecture, or
4 system; and

5 (2) the term “Department” means the Depart-
6 ment of Defense.



AMENDMENT TO H.R. 8070
OFFERED BY MR. WITTMAN OF VIRGINIA

Strike section 213 (log 80169) and insert the following:

1 **SEC. 2 ____. MODIFICATION TO PERSONNEL MANAGEMENT**
2 **AUTHORITY TO ATTRACT EXPERTS IN**
3 **SCIENCE AND ENGINEERING.**

4 Section 4092 of title 10, United States Code, is
5 amended—

6 (1) in subsection (a), by adding at the end the
7 following new paragraph:

8 “(11) OFFICE OF STRATEGIC CAPITAL.—The
9 Director of the Office of Strategic Capital may carry
10 out a program of personnel management authority
11 provided in subsection (b) in order to facilitate re-
12 cruitment of eminent experts in science or engineer-
13 ing for the Unit.”; and

14 (2) in subsection (b)—

15 (A) in paragraph (1)—

16 (i) in subparagraph (D), by striking
17 “5 scientific and engineering positions in
18 the Office” and inserting “20 scientific
19 and engineering positions in the Office, of

1 which not more than 5 such positions may
2 be positions of administration or manage-
3 ment of the Office”;

4 (ii) in subparagraph (E) by striking
5 “5 scientific and engineering positions in
6 the Unit” and inserting “35 scientific and
7 engineering positions in the Unit, of which
8 not more than 5 such positions may be po-
9 sitions of administration or management of
10 the Unit’ ”; and

11 (iii) in subparagraph (H), by striking
12 “15” and inserting “25”;

13 (iv) in subparagraph (I), by striking
14 “and” at the end;

15 (v) in subparagraph (J), by adding
16 “and” at the end; and

17 (vi) by adding at the end the following
18 new subparagraph:

19 “(K) in the case of the Office of Strategic
20 Capital, appoint and rescind appointments of
21 individuals to a total of not more than 30 posi-
22 tions in the Office;”

23 (3) in paragraph (2), by amending subpara-
24 graph (A) to read as follows:

1 “(A) in the case of employees appointed
2 pursuant to subparagraphs (B), (D), (E), (H),
3 and (K) of paragraph (1), at a rate to be deter-
4 mined by the head of the organization con-
5 cerned up to the amount of annual compensa-
6 tion specified in section 102 of title 3;”.



Amendment to H.R. 8070

Offered by: Mr. Strong

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Countering High-Altitude Surveillance Threats

The committee is aware of ongoing efforts at the U.S. Army's Space and Missile Defense Command (SMDC) to develop transportable or palletized directed energy systems that are low-cost and self-sustaining. These systems could be employed as a counter-surveillance capability for deploying and deployed ground forces against high-altitude threats such as drones, balloons, and satellites at a lower cost per shot than kinetic solutions.

Given the important role these capabilities could bring to the Army in protecting ground forces from surveillance threats including drones, balloons, and satellites, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services not later than December 1, 2024, on current and future plans to develop technologies to counter high-altitude surveillance threats. The briefing shall also include:

- (1) An assessment of current and emerging threat capabilities as well as options to counter these threats in the next 2-4 years, 5-8 years and beyond;
- (2) plans to develop options for a family of systems with escalating levels of effects that are optimized to protect deploying and deployed forces, temporary bases, and fixed sites, including the capability to permanently disable or destroy threat systems, while retaining the capacity to blind or dazzle neutral observation systems; and
- (3) an estimate of the funding required over the Future Years Defense Program to enable SMDC to rapidly develop, demonstrate, test, and deploy these capabilities.

Amendment to H.R. 8070

National Defense Authorization Act for Fiscal Year 2025

Offered by: Mr. Wittman

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

National Guard Cyber Capability Modernization

The committee is aware of concerns that cyber capability modernization is not adequately resourced throughout the Army and Air National Guard, and not at a level commensurate with investments by the active components. The committee is likewise aware that certain constraints exist within the National Guard and Reserve Equipment Account (NGREA) that prevent the Army and Air National Guard from modernizing cyber capabilities in isolation from the active components. The committee is concerned by any imbalance or disparity in modernization, given the importance of the total force in potential near-peer conflict.

Therefore, the committee directs the Chief Information Officer of the Department of the Air Force, in coordination with the Chief Information Officer of the Department of the Army, to provide a briefing to the House Committee on Armed Services not later than April 30, 2025, on the modernization efforts underway for cloud capabilities and cybersecurity solutions in the Army and Air National Guard. The briefing will include, at a minimum, the following:

- (1) an assessment of current cloud capabilities of the Army and Air National Guard and how those capabilities compare to those of the Active Components of the Army and Air Force;
- (2) an assessment of coverage of the Army and Air Force Cyber Security Service Providers (CSSPs) for those portions of the Department of Defense in use by the Army and Air National Guard;
- (3) an identification of any additional funding required to modernize the cyber capabilities of the Army and Air National Guard;
- (4) an assessment of the sustainment costs for the cyber capabilities of the Army and Air National Guard; and
- (5) recommendations for any changes necessary to how cyber modernization and cyber capabilities are funded, acquired, and sustained for the Army and Air National Guard.

Amendment to H.R. 8070

Offered by: Mr. Norcross

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Integrated combat system track management capability

The committee is aware that the Navy is developing a network-centric, joint-tracking capability that could achieve full integration of sensors, intelligence, communications, command and control, and weapons systems. The committee also notes that artificial intelligence (AI) has the potential to significantly contribute to the achievement and operational value of such a system. Accordingly, the committee directs the Assistant Secretary of the Navy for Research, Development, and Acquisition to provide a briefing not later than March 31, 2025, to the House Committee on Armed Services that includes a description of current Navy plans for the development and implementation of a government owned, non-proprietary AI-powered software solution that addresses and fulfills the Navy's requirements.

Amendment to H.R. 8070

Offered by: Mr. Turner

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

DOD Cyber Workforce Framework

The Department needs a cyber workforce that is ready, qualified, and accurately identified in personnel systems across all components of the enterprise to defend our national security assets from escalating cyber threats. The Department of Defense Chief Information Officer (CIO) issued DoD Manual 8140.03 last year to instruct components on responsibilities and procedures for the qualification of the cyber workforce to accomplish this. The committee believes that its workforce efforts could benefit from persistent, live information about the skills, certifications, and status of its military, civilian, and contractor personnel. To that end, the committee directs the Chief Information Officer of the Department of Defense to present a briefing to the committee no later than May 1, 2025 on the exploration of efforts to improve the data tracking of its workforce.

AMENDMENT TO H.R. 8070
OFFERED BY MR. BACON OF NEBRASKA

At the appropriate place in subtitle A of title XV,
insert the following:

1 **SEC. 15 ____ . ESTABLISHMENT OF THE DEPARTMENT OF DE-**
2 **FENSE HACKATHON PROGRAM.**

3 (a) IN GENERAL.—Not later than 180 days after the
4 enactment of this Act, the Chief Digital and Artificial In-
5 telligence Officer of the Department of Defense, in coordi-
6 nation with the Chairman of the Joint Chiefs of Staff and
7 the Chief Information Officer of the Department of De-
8 fense, shall establish a program (to be known as the “De-
9 partment of Defense Hackathon Program”) under which
10 the commanders of combatant commands and the Secre-
11 taries of the military departments shall carry out not
12 fewer than four Hackathons each year.

13 (b) PROGRAM MANAGEMENT.—The Chief Digital and
14 Artificial Intelligence Officer of the Department of De-
15 fense shall develop and implement standards for carrying
16 out Hackathons, provide supporting technical infrastruc-
17 ture to the host of each Hackathon, and determine the
18 hosts each year under subsection (c)(1).

19 (c) HOSTS.—

1 (1)(A) Each year, two commanders of combat-
2 ant commands shall each carry out a Hackathon and
3 two Secretaries of a military department shall each
4 carry out a Hackathon, as determined by the Chief
5 Digital and Artificial Intelligence Officer of the De-
6 partment of Defense in accordance with this sub-
7 section.

8 (B) The commanders of combatant commands
9 and the Secretaries of military departments carrying
10 out Hackathons pursuant to subparagraph (A) shall
11 change each year.

12 (C) Each host of a Hackathon shall—

13 (i) provide to the participants invited to
14 participate in such Hackathon a per diem al-
15 lowance in accordance with section 5702 of title
16 5, United States Code, or section 452 of title
17 37, United States Code, as applicable; and

18 (ii) not later than 60 days after the com-
19 pletion of such Hackathon, make available to
20 the Department of Defense a report on such
21 Hackathon.

22 (2) Any commander of a combatant command
23 or Secretary of a military department may carry out
24 a Hackathon in addition to the Hackathons required
25 under paragraph (1).

1 (d) HACKATHON OBJECTIVES.—

2 (1) The host of each Hackathon shall establish
3 objectives for the Hackathon that address a critical,
4 technical challenge of the combatant command or
5 military department of the host, as applicable,
6 through the use of individuals with specialized and
7 relevant skills, including data scientists, developers,
8 software engineers, and other specialists as deter-
9 mined appropriate by the Chief Digital and Artificial
10 Intelligence Officer of the Department of Defense or
11 the host.

12 (2) In addition to the objectives established by
13 the host of a Hackathon under subparagraph (A),
14 the objectives for each Hackathon shall include—

15 (A) fostering innovation across the Depart-
16 ment of Defense, including in military depart-
17 ments and the combatant commands;

18 (B) creating repeatable processes enabling
19 the commanders of combatant commands and
20 the Secretaries of the military departments to
21 more rapidly identify and develop solutions to
22 critical, technical challenges across the Depart-
23 ment of Defense.

24 (e) DEFINITIONS.—In this section—

1 (1) the term “Hackathon” means an event car-
2 ried out under the Program at which employees
3 across the Department of Defense meet to collabo-
4 ratively attempt to develop functional software or
5 hardware solutions during the event to solve a crit-
6 ical, technical challenge determined by the host;

7 (2) the term “host”, with respect to a
8 Hackathon, means the commander of the combatant
9 command or the Secretary of the military depart-
10 ment carrying out the Hackathon;

11 (3) the term “military department” has the
12 meaning given such term in section 101(a) of title
13 10, United States Code; and

14 (4) the term “Program” means the program es-
15 tablished under subsection (a).



Amendment to H.R. 8070

Offered by: Mr. Pat Fallon

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

Fiber Optic Network Capabilities in Support of Naval Aviation

To ensure military dominance, the Navy will require access to a robust fiber optic network architecture that necessitates security, resilience, and capacity. The committee seeks to ensure that the Navy's aviation components in particular are afforded the requisite bandwidth. To that end, the committee directs the Secretary of the Navy in coordination with the Director of the Defense Information Systems Agency to provide a briefing to the House Committee on Armed Services no later than March 1, 2025 on fiber optic requirements to support Naval Aviation, the security measures toward the current fiber optic network, and the current and planned resiliency measures for the fiber optic network.

AMENDMENT TO H.R. 8070
OFFERED BY MS. MACE OF SOUTH CAROLINA

In subsection (b) of **section 1511 (Log 80271)**,
after paragraph (6), insert the following new paragraph
(and redesignate accordingly):

- 1 (7) Smishing, phishing, and business text or
- 2 email compromise protection leveraging generative
- 3 artificial intelligence.



Amendment to H.R. 8070

Offered by: Mr. Ryan

In the appropriate place in the report to accompany H.R. 8070, insert the following new Directive Report Language:

The Joint Operating System

In the committee report accompanying the National Defense Authorization Act for Fiscal Year 2024 (H. Rept. 118-125), the committee recognized and supported “CDAO’s role as the lead office to develop a joint data integration layer for JADC2,” and directed the Chief Digital and Artificial Intelligence Officer (CDAO) to provide “a report detailing efforts related to the Joint Data Integration Layer, its resourcing, timelines, coordination with relevant stakeholders such as United States Indo-Pacific Command, and demonstration opportunities.”

The committee supports the establishment of the Joint Operating System (JOS) and encourages CDAO to procure and field an operationally deployable, production-quality capability which can enable low-latency data integrations for use cases, such as time-sensitive targeting. The committee understands that JOS and related activities are re-aligned in the FY2025 budget request to PE0604122D8Z. Accordingly, the committee directs the Chief Digital and Artificial Intelligence Officer to provide a briefing to the committee by March 1, 2025 on its fiscal year 2025 spend plan for PE0604122D8Z, including the JOS, Data Integration Layer, Global Information Dominance Experiment, and MCA projects, to include information related to the production transition for and additional fielding of JOS in support of other budgeted activities