

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
2646	1	Wittman, Robert	TAL	Brief on the potential expansion of the Army's High-Accuracy Detection and Exploitation System (HADES) across the services to enhance theater ISR, command and control, mission planning, and other requirements.	EB 1
2660	2	Wittman, Robert	TAL	Directs the Secretary of the Army to report on the service's research and development and fielding efforts to acquire a production-ready, shoulder-launched munition system.	EB 1
2688	3	Wittman, Robert	TAL	Report on the future funding and acquisition strategy of the family of affordable, conventional weapons known as the Rapidly Adaptable Affordable Cruise Missile (RAACM) program.	EB 1
2698	0	Courtney, Joe	TAL	Would prohibit Fiscal Year 2024 Air Force funds from being used for termination, or planned termination, activities of a HH-60W Combat Rescue Helicopter production line.	EB 1
2719	0	Jackson (TX), Ronny	TAL	Modification of the annual report on the T-7A Advanced Pilot Training System.	EB 1
2759	1	Bacon, Don	TAL	Report on EC-37B Compass Call Force Requirements	EB 1
2778	1	Gimenez, Carlos A.	TAL	The provision would prohibit the divestment of F-16 aircraft until the Secretary of the Air Force provides Congress a plan for recapitalizing the capability and the capacity of the F-16 aircraft planned for divestment beginning in FY25.	EB 1
2780	1	Jackson (TX), Ronny	TAL	DRL regarding T-7 program delays and T-38 engine shortage issues.	EB 1
2849	0	Wilson, Joe	TAL	DESIGNATION OF EXPLOSIVE ORDNANCE DISPOSAL CORPS AS A BASIC BRANCH OF THE ARMY.	EB 1
2857	2	Wittman, Robert	TAL	The provision would require the Secretary of Defense to provide a report on the plan to more rapidly develop and acquire air-to-air missiles.	EB 1
2859	2	McCormick, Richard	TAL	Brief regarding the status of the Medium Range Reconnaissance program within the Army's Family of Small Unmanned Aircraft Systems.	EB 1
2901	2	Strong, Dale W.	TAL	Brief on the ability of the DOD to increase fixed-wing High Altitude Pseudo-Satellites (HAPS) secure payload data-backhaul capacity, required interoperability with Department of Defense networks, and the schedule and costs for fielding HAPS in the 2025 timeframe.	EB 1
2925	0	Strickland, Marilyn	TAL	A report from the Secretary of the Navy regarding E/A-18G Growler aircraft noise reduction research.	EB 1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
2935	2	Courtney, Joe	TAL	Directive report language that would require the Secretary of the Army to submit a report on funding for the Future Attack Reconnaissance Aircraft (FARA) and the program's FYDP funding, acquisition strategy, and funding gaps.	EB 1
2960	0	Gallagher, Mike	TAL	Requires an evaluation and update on the Deployable Air Base System (DABS) program, as well as, any plans for its development and fielding in the INDOPACOM AOR.	EB 1
2969	0	Bacon, Don	TAL	Directive language requiring the the Secretary of the Air Force, in coordination with the Commander, Air Combat Command, the Director of the Air National Guard, and the Chief, Air Force Reserve Command, to provide a report on Air Force fighter future force structure.	EB 1
2971	0	Strong, Dale W.	TAL	Limits funding for the Army Trackless Moving Target-Infantry Variant until the Army (1) conducts an live fire assessment performance comparison, (2) obtains direct soldier feedback, (3) certifies the program meets current requirements, and (4) submits a findings report.	EB 1
2987	0	Golden, Jared F.	TAL	DRL directing SECARMY to submit a report to HASC regarding the Product Improved Combat Vehicle Crewman (PICVC) headsets use in tracked armored vehicles.	EB 1
3025	1	McCormick, Richard	TAL	Directs SecArmy to on plans to provide improved upper receivers for M4A1 carbines used by select Army units. This DRL takes no umbrage with fielding NGAW - Rifle but notes the need to continue upgrading currently fielded M4A1's over the next decade.	EB 1
3046	1	McCormick, Richard	TAL	Directs the Department of Defense to report on the future integration of hypersonic capable aircraft into the strike-aircraft inventory.	EB 1
3051	3	Veasey, Marc	TAL	Support from the Army's RCV program is vital as it enables the adoption of innovative acquisition strategies and dual-use commercial technology. This not only optimizes value for taxpayers but also drives future autonomous development.	EB 1
3153	0	Veasey, Marc	TAL	DRL requesting a briefing on Advanced Low-Cost Munitions Ordnance and its procurement outlook, as well as potential efficiency improvements.	EB 1
3200	1	Golden, Jared F.	TAL	DRL directing SECARMY to provide a report to HASC regarding the Army's plans to upgrade its Mk-93 inventory, including projected funding and fielding timelines.	EB 1
3224	2	Wilson, Joe	TAL	Directs the Assistant Secretary of the Army for Acquisition, Logistics and Technology to provide a briefing on engine competition in current combat vehicle development programs.	EB 1
3248	1	Sherrill, Mikie	TAL	Requires a briefing on the Army's efforts to develop next-generation propellants with increased capabilities and decreased safety risks and cost.	EB 1
3279	1	Horsford, Steven	TAL	Report on All Domain Multisensor Data Fusion and Integration Capabilities in the Air Force	EB 1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
3282	1	Turner, Michael	TAL	Report language directing the Army to brief the House Armed Services Committee on efforts to adapt and test proven integrated vehicle and stall-based micro-grid charging systems using related commercial electric vehicles for nontactical applications.	EB 1
3304	4	Strong, Dale W.	TAL	Directs the SECARMY to establish the Additive Manufacturing - Aviation and Missile Capability Development Consortium to collaborate with various U.S. Army commands, aviation and FVL programs, and industry and academic partners.	EB 1
3319	0	Jackson (TX), Ronny	TAL	Requires a briefing on an acceleration roadmap for the T-7A Advanced Pilot Training System.	EB 1
3373	3	Wilson, Joe	TAL	Directs the Secretary of the Army to provide a brief on the Army's roadmap for modernizing its modeling and simulation infrastructure as it relates to evaluating acquisition programs.	EB 1
3417	2	Bacon, Don	TAL	Brief on soldier tactical awareness and signature management.	EB 1
3429	3	Bergman, Jack	TAL	Brief from the Army on of the experimentation and the roles that the Maneuverable Lightweight Electric Weight Reducer may play in soldier load management.	EB 1
3513	4	Gallagher, Mike	TAL	DRL: The committee directs the DOD to provide a briefing on top-attack armor defense options and related threats	EB 1
3524	4	Wilson, Joe	TAL	Report on the status of personal protective equipment modernization.	EB 1
3534	0	Bergman, Jack	TAL	Pilot Program between U.S. Army Ground Vehicle Systems Center and a non-profit research institute operating a Contested Logistics Research Center	EB 1
3584	0	Wittman, Robert	TAL	In the portion of the report to accompany H.R. 2670 titled "Long Range Precision Fires", strike all the text and insert the following new text "Long Range Precision Fires" to amend the date of the final report.	EB 1
3586	0	Wittman, Robert	TAL	In the portion of the report to accompany H.R. 2670 titled "Air and Missile Defense", strike all the text and insert the following new text "Air and Missile Defense".	EB 1
3590	0	Jackson (TX), Ronny	TAL	Brief on the use of VTOL aircraft for heavy-payload, medium-range logistical support.	EB 1

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Wittman**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Inter-Service Application of Fixed-Wing Intelligence, Surveillance, and Reconnaissance**

The committee notes the successful evolution of the Army's multi-domain sensing system and High-Accuracy Detection and Exploitation System (HADES) program capabilities. The committee also notes the ever-increasing demand for advanced sensing, intelligence, surveillance, and reconnaissance (ISR) assets to be deployed and employable world-wide, and particularly in the Indo-Pacific and Europe. Therefore, the committee directs the Secretary of Defense to provide a briefing to the House Committee on Armed Services, no later than February 1, 2024, on the potential expanded application of HADES to support Department of Defense command and control, mission planning, intelligence, theater battle control, joint operations and force application planning, and force protection requirements. The briefing shall, at minimum, address:

- (1) a consolidated list of theater commander ISR capabilities and requirements,
- (2) highlight shortfalls in service plans to meet theater commander requirements, and
- (3) interim options to close the requirements gap.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Wittman**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Shoulder Launched Munitions Acquisition**

The Committee is aware that the US Army is pursuing a single-shot, disposable, shoulder-launched weapon, known as the XM919 Individual Assault Munition (IAM). The program seeks a mature, production-ready, Shoulder-Launched Munition (SLM) system capable of engaging multiple target configurations from open and confined spaces.

The committee notes that both the United States Marine Corps and United States Special Operations Command have adopted a Family of Munitions strategy to satisfy target engagement requirements.

Therefore, the committee directs the Secretary of the Army to submit a report to the congressional defense committees, no later than December 1, 2023, evaluating the Army's Individual Assault Munition acquisition strategy, including information on necessary research and development investments, and an analysis of the program's potential weight and ability to defeat multiple targets, including a comparison to a notional Family of Munitions strategy.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Wittman**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Development of the Rapidly Adaptable Affordable Cruise Missile**

The committee continues to support the expansion of the cruise missile production industrial base. The committee is encouraged by the Air Force's use of the Small Business Innovative Research (SBIR) program to contract with a small business to design an innovative Rapidly Adaptable Affordable Cruise Missile (RAACM). The RAACM will be a Weapon Open System Architecture design, Government Reference Architecture compliant family of weapon systems developed in parallel with a digital model. This use of digital engineering technologies and fasttrack to production concepts like determinant manufacturing allows for the rapid development and production of cost-effective, air-launched cruise missiles. This speed to field a family of affordable weapons capacity is required to deter peer and near-peer threats now, by providing aircrews a capable weapon in the quantities needed to overwhelm an enemy's defenses.

The committee notes that RAACM does not have an identified future funding path in fiscal year 2024, or in the Future Years Defense Program (FYDP). Without a defined plan, it is challenging to quickly execute this vision of providing affordable capacity in time to deter peer threats. For small businesses investing in the people, parts, and test equipment needed to develop, test, fly and ultimately produce at rate a weapon like RAACM, instability in future funding is a risk that makes development inefficient, slow, and more expensive.

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, 2023, that explains in detail the Air Force's RAACM development and acquisition strategy to include:

- (1) threshold and objective performance characteristics provided in the initial System Performance Specification delivered by the contractor;
- (2) draft schedule for future production and how that will increase the draft schedule for future production and how that will increase the missile industrial base;
- (3) streamlined test and evaluation plan that takes into account commercial-off-the-shelf and previously developed SBIR technology;
- (4) proposed funding profile across the FYDP; and,
- (5) issues for consideration and planning related to transitioning the program from prototype to production activities.

**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. COURTNEY OF CONNECTICUT**

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

1 **SEC. \_\_\_\_\_. PROHIBITION ON AVAILABILITY OF FUNDS**  
2 **FOR TERMINATION OF PRODUCTION LINES**  
3 **FOR THE HH-60W AIRCRAFT.**

4 None of the funds authorized to be appropriated by  
5 this Act or otherwise made available for fiscal year 2024  
6 for the Air Force may be obligated or expended to termi-  
7 nate the operations of, or to prepare to terminate the oper-  
8 ations of, a production line for HH-60W Combat Rescue  
9 Helicopters.



**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. JACKSON OF TEXAS**

At the appropriate place in title I, insert the following new section

**1 SEC. 1 \_\_\_\_ . MODIFICATION OF ANNUAL REPORTS ON T-7A**  
**2 ADVANCED PILOT TRAINING SYSTEM.**

3 Section 156 of the James M. Inhofe National Defense  
4 Authorization Act for Fiscal Year 2023 (Public Law 117–  
5 263; 136 Stat. 2460) is amended—

6 (1) in subsection (a), by striking “through  
7 2028” and inserting “through 2033”; and

8 (2) in subsection (b)—

9 (A) by redesignating paragraph (9) as  
10 paragraph (11); and

11 (B) by inserting after paragraph (8) the  
12 following new paragraphs:

13 “(9) A review of a schedule risk assessment  
14 conducted by the Secretary of the Air Force that in-  
15 cludes risks associated with the overlap of develop-  
16 ment, testing, and production phases of the program  
17 and risks related to contractor management.

18 “(10) A plan for determining the conditions  
19 under which the Secretary of the Air Force may ac-



1        cept production work on the T-7A Advanced Pilot  
2        Training System that was completed by the con-  
3        tractor for the program in anticipation of the Air  
4        Force ordering additional systems, but which was  
5        not subject to typical production oversight because  
6        there was no contract for the procurement of such  
7        additional systems in effect when such worked was  
8        performed.”.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by Mr. Bacon of Nebraska**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **EC-37B Compass Call Force Requirements**

The committee is concerned that the current programmed fleet size of 10 EC-37B Compass Call aircraft is insufficient to meet Combatant Command contingency requirements in a contested electromagnetic spectrum environment. The committee notes that EC-37B is the only dedicated airborne electronic attack platform in the Air Force inventory and is designed to provide the joint force with a significant tactical advantage in a potential conflict against a peer competitor. However, the committee is concerned that an insufficient fleet size will leave the joint force vulnerable in the electromagnetic spectrum during a potential conflict. Therefore, the committee directs the Secretary of the Air Force, in coordination with the Chairman of the Joint Chiefs of Staff, and the Commander, Air Combat Command to provide a report to the House Committee on Armed Services not later than March 1, 2024 on the Air Force's plan to meet Combatant Command EC-37B capacity requirements. The report should include:

- (1) the number of EC-37B Compass Call aircraft required to meet contingency capacity requirements for the Combatant Commands;
- (2) a procurement strategy that would allow the Air Force to meet these requirements by 2027;
- (3) additional resources that would be required to support the number of aircraft required; and
- (4) equivalent partner nation capabilities that can be leveraged to meet Combatant Command capacity requirements.

**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. GIMENEZ OF FLORIDA**

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

**1 SEC. 1\_\_\_\_. LIMITATION ON DIVESTMENT OF F-16 AIR-**  
**2 CRAFT.**

**3 (a) LIMITATION.**—Beginning on January 1, 2024,  
**4 the Secretary of the Air Force may not divest, or prepare**  
**5 to divest, any covered F-16 aircraft until a period of 180**  
**6 days has elapsed following the date on which the Secretary**  
**7 submits the report required under subsection (b).**

**8 (b) REPORT REQUIRED.**—The Secretary of the Air  
**9 Force shall submit to the congressional defense commit-**  
**10 tees a report on the following:**

**11 (1) Any plans of the Secretary to divest covered**  
**12 F-16 aircraft during the period covered by the most**  
**13 recent future-years defense program submitted to**  
**14 Congress under section 221 of title 10, United**  
**15 States Code, including—**

**16 (A) a description of each proposed divest-**  
**17 ment by fiscal year and location;**

**18 (B) an explanation of the anticipated ef-**  
**19 fects of such divestments on the missions, per-**

1 sonnel, force structure, and budgeting of the  
2 Air Force;

3 (C) a description of the actions the Sec-  
4 retary intends to carry out—

5 (i) to mitigate any negative effects  
6 identified under subparagraph (B); and

7 (ii) to modify or replace the missions  
8 and capabilities of any units and military  
9 installations affected by such divestments;  
10 and

11 (D) an assessment of how such divest-  
12 ments may affect the ability of the Air Force to  
13 maintain minimum tactical aircraft inventories.

14 (2) Any plans of the Secretary to procure cov-  
15 ered F-16 aircraft.

16 (c) COVERED F-16 AIRCRAFT DEFINED.—In this  
17 section, the term “covered F-16 aircraft” means F-16C/  
18 D aircraft.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Jackson of Texas**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **T-38 Engine Availability Shortage**

The Air Force's fighter and bomber pilot training program depends on the T-38 Talon, an aircraft training platform that has been in service for over 60 years. The T-38's aging airframe, especially its General Electric J85 turbojet engines, requires significant maintenance, and spare parts are becoming increasingly difficult to procure. The committee notes that in May, 2020, the Air Force switched from performing organically sourced engine maintenance on T-38 engines to relying upon contractor logistics and maintenance support for performing full overhauls.

The committee is concerned that in recent years T-38 sorties have declined due to a lack of serviceable J85 engines. Problems with spare parts and limited fiscal resources have created a maintenance backlog preventing aircraft from flying, thereby constraining the number of pilots the Air Force can produce, and thus exacerbating its current pilot shortage.

Three years of delays for procurement of the Air Force's new fighter trainer, the T-7 Red Hawk, amplifies the impact of the J85 engine shortage as the Air Force is compelled to continue to rely upon the T-38 as the Air Force awaits the arrival of the new training aircraft. Consequently with the T-7's expected delivery rate, the Air Force will continue reliance upon the T-38 in pilot training for the foreseeable future.

In order to ensure airworthy T-38 aircraft and continued Air Force pilot production capability and capacity, the committee directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services not later than January 31, 2024 on the status of the T-38 fleet and its J85 engine availability. The briefing should include:

- (1) an overview of the T-38 fleet, including airworthiness and readiness rates;
- (2) the strategic maintenance plan for the T-38;
- (3) J85 engine readiness and availability rates;
- (4) impacts of the T-7 program's delays on the lifespan of the T-38 fleet;
- (5) an analysis of canceled or curtailed sorties caused by T-38 engine availability and performance, and T-7 program delays; and,
- (6) the Secretary's plan to increase T-38 sortie generation rates to increase pilot production capacity.

**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. WILSON OF South Carolina**

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

1 **SEC. 9 \_\_\_\_ . DESIGNATION OF EXPLOSIVE ORDNANCE DIS-**  
2 **POSAL CORPS AS A BASIC BRANCH OF THE**  
3 **ARMY.**

4 (a) DESIGNATION AS BASIC BRANCH.—Section  
5 7063(a) of title 10, United States Code, is amended—

6 (1) in paragraph (12), by striking “and” at the  
7 end;

8 (2) by redesignating paragraph (13) as para-  
9 graph (14); and

10 (3) by inserting after paragraph (12) the fol-  
11 lowing new paragraph:

12 “(13) Explosive Ordnance Disposal Corps;  
13 and”.

14 (b) ORGANIZATION AND FUNCTIONS.—Chapter 707  
15 of title 10, United States Code, is amended by adding at  
16 the end the following new section:

1 **“§ 7085. Explosive Ordnance Disposal Corps: organi-**  
2 **zation and functions**

3 “(a) CHIEF OF CORPS.—There is a Chief of the Ex-  
4 plosive Ordnance Disposal Corps of the Army. The Sec-  
5 retary of the Army shall appoint the Chief from among  
6 general officers of the Army who are Explosive Ordnance  
7 Disposal qualified and are serving in the Logistics Corps  
8 as of the time of the appointment. The Secretary of the  
9 Army shall not assign any officer who has not served as  
10 an officer in the Explosive Ordnance Disposal Corps as  
11 the Chief of the Explosive Ordnance Disposal Corps.

12 “(b) FUNCTIONS.—The Explosive Ordnance Disposal  
13 Corps shall, at a minimum, perform functions relating  
14 to—

15 “(1) the disposal of explosive ordnance and mu-  
16 nitions management; and

17 “(2) ensuring the safety of explosives.”.

18 (c) CONFORMING REPEAL.—Section 582 of the Na-  
19 tional Defense Authorization Act for Fiscal Year 2018  
20 (Public Law 115–91; 131 Stat. 1415) is repealed.

21 (d) EFFECTIVE DATE.—The amendments and repeal  
22 made by subsections (a) through (c) shall take effect 180  
23 days after the date of the enactment of this Act.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Wittman**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Air to Air Missiles**

The committee supports the Air Force's work on modernizing its arsenal of air-to-air missiles, acknowledges their criticality to effective deterrence, and if necessary, combat operations. The committee recognizes that work is currently underway to replace the AIM-120 Advanced Medium Range Air to Air Missile with the AIM-260 Joint Air Tactical Missile but notes that the AIM-260 is yet to be fielded. The committee notes that a more comprehensive and integrated approach to air-to-air missile development is needed to remain competitive against strategic competitors as it reduces the time between capability improvements, fosters increased competition, builds a stronger and more resilient defense industrial base, and improves production capacity. The committee also recognizes that improvements to requirements, integration, and testing are required to support more rapid development and fielding of air-to-air weapons.

Therefore, the committee directs the Secretary of Defense to provide a briefing to the House Armed Services Committee, not later than February 1, 2024, on a plan to execute a more comprehensive, integrated, and rapid approach to air-to-air missile acquisition and development to include:

(1) strategies and policies for executing air-to-air weapons missile programs that provides more integrated and rapid capability advances while strengthening the defense industrial base;

(2) plans to streamline and accelerate the integration and testing of multiple air-to-air munitions across weapon systems to include an evaluation of whether weapons open system architecture is being implemented;

(3) strategies to ensure effective coordination and collaboration across military services to leverage cross-service development and testing efficiencies;

(4) an evaluation of whether additional infrastructure, and any resources required in such case to support air-to-air weapons evaluations at open-air testing ranges, would support acceleration of air-to-air missile development programs;

(5) an evaluation of whether the use of unmanned aircraft as a launch platform for early air to air missile development would enable accelerated development at lower risk;

(6) and, a list of any additional resources or authorities required to execute the Department's strategy.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. McCormick**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Medium-Range Reconnaissance Unmanned Aircraft System Modernization**

The committee is aware of the Army's efforts to modernize its Family of Small Unmanned Aircraft Systems through its Short, Medium, and Long-Range Reconnaissance programs. While the Army is moving forward with the Short- and Long-Range Reconnaissance programs, the committee observes that competitive prototyping for the Medium-Range Reconnaissance (MRR) program appears to be moving more slowly, which could compromise the effectiveness of company-level maneuver as threats rapidly evolve. The committee also notes the significant advances in commercial unmanned aircraft systems (UAS) technology that have occurred since the current company-level capability was first fielded in the early 2000s and supports incorporation of those advances into the competitive prototyping for the MRR program. Further, the committee is aware of the critical role that small and medium-range vertical take-off and landing UAS have played in enhancing reconnaissance, targeting, survivability, and lethality, as the current conflict in Ukraine has highlighted.

The committee encourages the Army to move forward with the MRR program expeditiously. The committee directs the Assistant Secretary of the Army for Acquisition, Logistics and Technology to provide a briefing to the House Committee on Armed Services not later than April 1, 2024, that includes the following information:

- (1) a summary of the most important advances in commercial UAS capabilities that have occurred since the current program of record was established;
- (2) a description of any potential capability gaps for company-level UAS missions, including those beyond electro-optical/infrared-based surveillance, in light of those advancements;
- (3) actions, with an associated timeline, to address such gaps through the MRR program; and
- (4) any other relevant material the Assistant Secretary deems appropriate.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Strong**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Ultra-Long Endurance High Altitude Pseudo-Satellites (HAPS)**

The committee is aware of Department of Defense efforts to operationalize the stratosphere with its recent investments in testing and demonstration of ultra-long endurance fixed-wing High Altitude Pseudo-Satellites (HAPS) that demonstrated stratospheric operations of over 60 days and 30,000 miles endurance.

The committee believes the stratosphere is an important domain and that ultra-long endurance fixed-wing HAPS may offer a low-risk, cost-effective solution to operationalize the stratosphere. Moreover, the committee notes that fixed-wing HAPS are highly maneuverable and are less susceptible to winds aloft dictating their flight path which may provide additional capability at high altitudes.

The committee notes that HAPS may benefit combatant commands by providing an extension of resilient networks and enhancing the ability to sense and deliver critical information in crisis or conflict.

The committee believes that HAPS are relevant and useful for operationalizing the stratospheric domain for national security and encourages Department of Defense efforts to use highly maneuverable, ultra-long endurance HAPS capable of hosting a wide variety of sensors and communications payloads.

Therefore, the committee directs the Secretary of Defense to submit a briefing to the House Committee on Armed Services by March 1, 2024, on the ability to increase fixed-wing HAPS secure payload data-backhaul capacity and interoperability with Department of Defense networks. The briefing should include, at minimum, a schedule and costs for fielding HAPS in the 2025 timeframe.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Ms. Strickland**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **E/A-18G Growler Noise Reduction Research**

The Fiscal Year 2022 and 2023 National Defense Authorization Acts authorized \$2 million for the E/A-18G Growler Noise Reduction program. The committee is concerned with the progress and status of the Department of the Navy's Noise Reduction program for the E/A-18G.

Therefore, the committee directs the Secretary of the Navy to submit a report to the House Committee on Armed Services, not later than September 30, 2023, on resultant findings and recommendations for jet noise reduction.

The report shall include:

1) Technical findings to include:

- A) the sound level of the E/A-18G without noise reduction modifications;
- B) the sound level of the E/A-18G with noise reduction modifications; and
- C) the impact noise reduction modifications have on conducting training events including Field Carrier Landing Practice.

2) Recommendations to include:

- A) whether to continue the current Noise Reduction Research program, with justification; and
- B) whether to continue investments in projects to reduce E/A-18G noise levels during training events, with justification.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Courtney**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Future Attack Reconnaissance Aircraft**

The committee notes the Army consistently identifies the Future Attack Reconnaissance Aircraft (FARA) as its highest aviation modernization priority. In fiscal year 2024, the Army again states: “FARA is the Army’s number one aviation modernization priority to restore attack/reconnaissance dominance by mitigating enemy long-range capabilities by creating lethal effects from outside enemy sensor/weapons range and allowing joint force commanders to maneuver from relative sanctuary.” The committee is encouraged by the Army’s continued prioritization of the program and urges the Army to uphold a program timetable that facilitates expeditious development of the platform and associated systems while avoiding additional setbacks. However, the committee further notes the Army has had considerable difficulty fielding this requirement and has failed to bring forth an aircraft to fill this light attack and reconnaissance mission.

Therefore, the committee directs the Secretary of the Army to submit a report to the Congressional Defense Committees by March 1, 2024, on the FARA program. The report should include, at a minimum, the following information:

- (1) an update on program requirements; and
- (2) an update on the program’s acquisition strategy including detailed procurement fielding timelines; and estimated outyear funding.

## **Amendment to H.R. 2670 National Defense Authorization Act for Fiscal Year 2024**

### **Offered by: Mr. Gallagher**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Deployable Air Base System**

The Committee understands that the United States Air Force's Agile Combat Employment (ACE) concept is critical to support a resilient and dispersed posture, both in Europe and in the Indo-Pacific. Central to the success of this initiative is the Deployable Air Base System (DABS), which includes culpabilities such as basic expeditionary airfield resources, fuels support equipment, expeditionary airfield and ground logistics equipment, and rapid airfield damage recovery machinery. Unfortunately, delivery of this critical capability has faced consistent challenges, many of which were detailed in Department of Defense Inspector General Report 2019-040. In light of the importance of a dispersed and resilient posture, particularly in the U.S. Indo-Pacific Command (USINDOPACOM) area of operations, the committee directs the Secretary of the Air Force to provide a briefing to the House Armed Services Committee not later than January 1, 2024 on each of the following:

- (1) A list of actions taken pursuant to the DoD Inspector General Report 2019-040, along with the status of those actions.
- (2) A comprehensive assessment of the status of DABS, including an inventory of complete deployable air base systems, industrial base capacity, readiness rates, and total cost per system.
- (3) An overview of the training programs and deployment exercises associated with DABS, including any identified challenges or opportunities for improvement.
- (4) A detailed review of the funding allocated to DABS relative to operational requirements.
- (5) An examination of potential enhancements or modifications to improve the system's flexibility, responsiveness, or capability, particularly in the USINDOPACOM area of operations.
- (6) An update on any technological innovations or upgrades implemented or planned within the DABS program.
- (7) A detailed breakdown of the USINDOPACOM requirement for DABS to facilitate ACE.
- (8) An analysis of the optimal DABS pre-positioned deployment posture, in particular between USINDOPACOM and U.S. European Command.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by Mr. Bacon of Nebraska**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Air Force Fighter Force Structure**

The committee is concerned that the Air Force fighter fleet has declined by nearly 60 percent since the 1991 Gulf War and is projected to lose approximately 400 additional fighter aircraft by the end of fiscal year 2029. The committee notes with concern that the fighter fleet is the now smallest in Air Force history and lacks sufficient capacity to meet combatant command requirements today. In this context, the committee believes that further reductions will significantly increase operational demands on a diminishing inventory of fighter aircraft and personnel and create conditions for an impending readiness crisis. The committee acknowledges the Department of the Air Force's stated intent to modernize the fighter fleet but concludes that its current procurement plan is insufficient and will fail to deliver the fighter capacity and capability required by the National Defense Strategy. Finally, the committee is concerned that without procurement of additional fighter aircraft in the near term, fighter squadrons in the Total Force will soon be deactivated or re-missioned, resulting in the permanent loss of experienced fighter pilots and maintenance personnel.

Therefore, the committee directs the Secretary of the Air Force, in coordination with the Commander, Air Combat Command, the Director of the Air National Guard, and the Chief, Air Force Reserve Command to provide a report to the House Committee on Armed Services not later than January 19, 2024, with a plan to meet Air Force fighter capacity requirements. The report should include:

- (1) the number of Total Force fighter squadrons required to meet steady-state and war-time capacity requirements;
- (2) how the Air Force plans to modernize and recapitalize the active, reserve, and guard fighter fleets to achieve the required number of Total Force squadrons;
- (3) authorities and resource requirements necessary to provide sufficient demand to industry to increase fighter aircraft production to prevent the closure or re-missioning of Total Force fighter squadrons;
- (4) an explanation of how collaborative combat aircraft (CCA) are accounted for in capacity analysis; and
- (5) an explanation of how the Air Force will meet fighter capacity requirements should CCA operational fielding be cancelled or delayed.

**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. STRONG OF ALABAMA**

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

**1 SEC. 1 \_\_\_\_ . LIMITATION ON AVAILABILITY OF FUNDS PEND-**  
**2                                   ING ASSESSMENT OF ARMY TRACKLESS MOV-**  
**3                                   ING TARGET SYSTEMS.**

**4           (a) IN GENERAL.**—Of the funds authorized to be ap-  
**5** propriated by this Act or otherwise made available for fis-  
**6** cal year 2024 for the Trackless Moving Target program  
**7** of the Army, not more than 50 percent may be obligated  
**8** or expended to procure or further develop the Trackless  
**9** Moving Target—Infantry variant until the Secretary of the  
**10** Army—

**11                   (1)** acting through the Commanding General of  
**12** the Army Test and Evaluation Command, conducts  
**13** an assessment, which shall include a live fire per-  
**14** formance comparison, of commercially available  
**15** trackless infantry targets to determine if any such  
**16** solutions meet the program requirements for the  
**17** Trackless Moving Target—Infantry variant;

**18                   (2)** obtains direct soldier feedback on the cur-  
**19** rent Trackless Moving Target program, as compared

1 to other commercially available and operationally de-  
2 ployed trackless infantry targets;

3 (3) certifies to the congressional defense com-  
4 mittees that the acquisition strategy of the Army for  
5 the Trackless Moving Target–Infantry variant meets  
6 the current program requirements as set forth in the  
7 report of Secretary of the Army titled “Autonomous  
8 Robotic Targets for Small Arms Range Training”,  
9 as submitted to Congress in March 2023; and

10 (4) submits to the congressional defense com-  
11 mittees the report required under subsection (b).

12 (b) REPORT REQUIRED.—Not later than 30 days  
13 after the date of the completion of the assessment and  
14 soldier feedback required under paragraphs (1) and (2)  
15 of subsection (a), the Secretary of the Army shall submit  
16 to the congressional defense committees a report that in-  
17 cludes—

18 (1) detailed results of the assessment conducted  
19 under subsection (a)(1), including a comparison of  
20 the Trackless Moving Target–Infantry variant under  
21 development by the Army to other operationally de-  
22 ployed, commercially available targets in use by  
23 other armed forces;



1           (2) the unaltered results of the direct soldier  
2       feedback obtained under subsection (a)(2) and a  
3       summary of such results; and  
4           (3) a certification that the development of the  
5       Trackless Moving Target–Infantry variant is in com-  
6       pliance with the requirements of section 4061 of title  
7       10, United States Code.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Golden of Maine**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Combat Vehicle Crewman Headset**

The committee is concerned with the prevalence of acoustic trauma, hearing loss, and tinnitus amongst military service members. Hearing acuity is a key component affecting combat performance. The committee is aware of the Product Improved Combat Vehicle Crewman (PICVC) Headset's use on tracked armored vehicles such as the M1 Abrams Tank, the Bradley Fighting Vehicle, and the Paladin vehicle, providing an operational intercom and hearing protection. The committee is encouraged by the PICVC's ability to provide full communication capability, as well as active and passive noise reduction.

The committee is aware of the Army's final purchase of approximately 50,000 PICVC headsets and is concerned with the availability of replacement components, which would extend the service life of these headsets until a replacement has been developed, procured, and fielded to the force. Therefore, the committee directs the Secretary of the Army to provide a report to the House Committee on Armed Services by December 31, 2023 regarding the PICVC headsets used in tracked armored vehicles. The report shall address the following issues:

- (1) identification of replaceable headset components;
- (2) supply chain availability of replaceable components across the Defense Logistics Enterprise as of the report date;
- (3) assessment of supply chain's ability to ensure PICVC relevancy, functionality, and sustainability for the remainder of its service life or until initial fielding of replacement; and
- (4) comprehensive plan to ensure sufficient stock of replaceable components is available until a replacement has been fielded to the force.

**Amendment to H.R. 2670**  
**National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. McCormick**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

Report on M4 Carbine Mod Program

The committee applauds Army efforts to field the Next Generation Soldier Weapon – Rifle program. Given this program’s procurement timeline, it is critical to make modest, necessary improvements to the M4A1 in the short term. The fiscal year 2024 President’s Budget included no funding for the M4 Carbine Mod Program although the M4A1 will remain in service with a majority of the total force for at least the next 10 years. While the Army has made some recent upgrades to the M4A1, it has not modernized the legacy Picatinny rail or adopted cold hammered forged barrels, both validated requirements by USSOCOM. Formal Army testing shows SOCOM rails are significantly more accurate than Army rails and SOCOM testing shows that SOCOM barrels last four to five times longer. Therefore, the committee directs the Secretary of the Army to provide a briefing to House Committee on Armed Services by December 1, 2023 on plans to provide improved upper receivers to select Army units.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. McCormick**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Report on Integrating Hypersonic Aircraft into the Global Strike Force**

The committee is encouraged by the Department of Defense's partnering with non-traditional industry in the rapid prototyping of hypersonic aircraft in response to the Joint Force's rapid strike capability needs.

The committee notes that, per previous congressional direction, the Department was to establish a timeline for incorporating hypersonic flight research and development into the Fiscal Year 2023 budget and that there continues to be no clear development requirements or transition plan. Accordingly, the committee directs the Secretary of Defense in consultation with the Secretary of the Air Force to submit a report to the Committee on Armed Services of the House of Representatives not later than April 1, 2024 on integrating high-Mach and hypersonic aircraft into the global strike force and determining the appropriate payload configuration. The report shall include, at a minimum:

1. An overview of how a program office would develop program requirements in consultation with the user community.
2. An overview of remaining technical challenges associated with demonstrating and producing high-Mach and hypersonic aircraft.
3. An assessment of the currently available domestic commercial and non-traditional capabilities that can accelerate the development and production of a hypersonic aircraft.
4. An assessment of the personnel, training, and logistical support requirements high Mach and hypersonic aircraft would generate.
5. Other information as the Secretary deems appropriate.

**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. VEASEY OF TEXAS**

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

**1 SEC. 2\_\_\_\_. SENSE OF CONGRESS ON DUAL USE INNOVA-**  
**2 TIVE TECHNOLOGY FOR THE ROBOTIC COM-**  
**3 BAT VEHICLE OF THE ARMY.**

**4 (a) FINDINGS.**—Congress finds the following:

**5 (1)** The Army is developing the Robotic Combat  
**6 Vehicle** using a sound and innovative acquisition  
**7 strategy.** The Robotic Combat Vehicle program is  
**8 leveraging** dual-use commercial innovation for its au-  
**9 tonomous** driving system.

**10 (2)** The Army’s Robotic Combat Vehicle Soft-  
**11 ware** Pathways program will take an agile and  
**12 phased** approach to the ultimate solution, which is  
**13 an** autonomous, artificial intelligence-based naviga-  
**14 tion** software. The technical focus will be on devel-  
**15 oping** robust software pathways for the Army to con-  
**16 duct** vehicle navigation in increasingly complex ter-  
**17 rain,** diverse operational conditions, and GPS-chal-  
**18 lenged** environments, while still providing the ability  
**19 to** remotely operate the vehicle.

1           (3) The Army's acquisition strategy for the  
2     Robotic Combat Vehicle is smartly separating the  
3     platform ground combat vehicle prototypes from the  
4     autonomous software system. This approach is  
5     standard in the private sector and modern product  
6     development. With this approach, the Robotic Com-  
7     bat Vehicle program is establishing a blueprint for  
8     future autonomous development programs of the De-  
9     partment of Defense.

10          (4) By using this dual acquisition approach, the  
11     Army will receive the best value for the taxpayer as  
12     it will leverage private sector investments made on  
13     autonomous software and create an interoperable  
14     software stack for use on future applications.

15     (b) SENSE OF CONGRESS.—It is the sense of Con-  
16     gress that—

17           (1) the Army should continue to use the soft-  
18     ware acquisition pathway approach and leverage  
19     dual-use, innovative commercial technology for the  
20     Robotic Combat Vehicle program;

21           (2) the Army should consider a similar frame-  
22     work for future ground vehicle programs, such as  
23     the Optionally Manned Fighting Vehicle program  
24     and the Common Tactical Truck program; and

1           (3) the other Armed Forces should consider  
2           using a similar dual acquisition approach for their  
3           autonomous ground vehicle programs.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Veasey**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Advanced Low-Cost Munitions Ordnance**

The committee continues to support the accelerated development, deployment, and production of the Advanced Low-Cost Munitions Ordnance (ALaMO), a guided 57mm projectile, with fire-and-forget capability. This projectile is designed to counter the growing threats posed by small boat swarms, unmanned aerial systems, and other emerging threats. The Committee is aware that the ALaMO round has been tested to confirm its effectiveness and that initial lot 1 LRIP deliveries have occurred to the Navy, providing confidence that Full Rate Production should continue. The Committee also recognizes that supply chains for national defense items are under stress and that component lead times for items critical to ALaMO production have grown, eclipsing the annual government fiscal year cycle. Therefore, the committee directs the Secretary of the Navy to provide a briefing to House Committee on Armed Services by March 31, 2024. The briefing should include an assessment of the benefits that could be achieved by ensuring the continuity of orders and economic order quantity efficiencies that could be achieved through multiyear procurement.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Golden of Maine**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Mk-93 Machine Gun Mount Upgrades**

The committee is aware that the conflict in Ukraine has demonstrated the importance of heavy weapons in modern warfare. The committee urges the Army to continue its efforts to ensure that its infantry units receive the upgrades necessary to maintain overmatch against peer competitors through the upgrade of its inventory of Mk-93 machine gun mounts. The committee believes that the enhancements to stability and reduction in user fatigue enabled by the upgraded Mk-93 mount are critical to realizing lethality improvements to the Army's crew-served weapon platforms such as the M2 .50 caliber machine gun and Mk-19 40mm grenade launcher. Moreover, the committee is concerned that despite millions of dollars spent on development of the mount upgrade, the Army has yet to fully capitalize on the investment by rapidly moving to procurement.

Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services, not later than December 31, 2023, on the Army's plans to upgrade its Mk-93 inventory, including projected funding and fielding timelines.

**Amendment to H.R. 2670**  
**National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Wilson**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

**Combat Vehicle Propulsion**

The committee directs the Assistant Secretary of the Army for Acquisition, Logistics and Technology to provide a briefing to the House Committee on Armed Services not later than June 1, 2024, on combat vehicle propulsion in current combat vehicle development programs and detail its plans to maintain a robust combat engine industrial base.

**Amendment to H.R. 2670**  
**National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Ms. Sherrill**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

**Advanced Process Technology for Energetics**

The committee is aware of the Army's ammunition enterprise modernization efforts and has supported for the last several years its emphasis to mature research and development of safe and clean ammunition manufacturing technology and novel materials such as Next Generation propellant energetics and nitrocellulose manufacturing in Army ammunition plants. To that end, the committee authorized a \$5 million increase to Research, Development, Test, and Evaluation, Army, Line 028, Program Element 0603000D8Z, for Advanced Process for Technology for Energetics. The Committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services, not later than January 1, 2024, on the Army's planned efforts in Fiscal Year 2024 to mature technologies related to next generation propellant energetics and nitrocellulose manufacturing, and any expected future lines of effort related to these innovative challenges.

**Amendment to H.R. 2670**  
**National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Horsford**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

Report Assessing All Domain Multisensor Data Fusion and Integration Capabilities  
in the Air Force

The Committee believes there is an urgent need for sensor-to-sensor distributed learning across a broad array of platforms. While the committee believes that capabilities exist for sensor fusion on single platforms, the committee is concerned that there may not currently be an effective way to apply insights from one platform to accelerate learnings on other platforms, irrespective of the specific platform or their sensing capabilities. The committee believes that such capability would accelerate model retraining in combat situations, avoiding the need to independently train each platform to recognize new threats.

Therefore, the committee directs the Secretary of the Air Force to submit to a report to the House Committee on Armed Services, not later than February 1, 2024, describing the Department's current and future efforts to develop, test, and deploy on-platform skills capabilities and the capabilities needed to enable a sensor-to-sensor distributed learning architecture that can support accelerated model retraining across not-like-in-kind air platforms, without the need for external communication.

**Amendment to H.R. 2670**  
**National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Turner**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

**Micro-Grid Charging Systems**

The committee directs the Secretary of the Army to provide to the House Armed Services Committee, a briefing, not later than February 1, 2024, on efforts to adapt and test proven integrated vehicle and stall-based micro-grid charging systems using appropriate electric vehicles for nontactical applications.

**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. STRONG OF ALABAMA**

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

**1 SEC. 2 \_\_\_\_ . CONSORTIUM ON USE OF ADDITIVE MANUFAC-**  
**2 TURING FOR ARMY AVIATION AND MISSILE**  
**3 CAPABILITY DEVELOPMENT.**

**4** (a) ESTABLISHMENT.—Not later than 180 days after  
**5** the date of the enactment of this Act, the Secretary of  
**6** the Army shall establish a consortium to facilitate the use  
**7** of additive manufacturing for the development of aviation  
**8** and missile capabilities for the Army. The consortium  
**9** shall be known as the “Consortium on Additive Manufac-  
**10** turing for Aviation and Missile Capability Development”  
**11** (referred to in this section as the “Consortium”).

**12** (b) COMPOSITION.—The Consortium shall be com-  
**13** posed of qualified organizations, selected by the Secretary  
**14** of the Army, that have functions and expertise relevant  
**15** to additive manufacturing and aviation and missile pro-  
**16** grams of the Army. At a minimum, the consortium shall  
**17** include—

**18** (1) the Army Aviation and Missile Command;

1 (2) the Army Combat Capabilities Development  
2 Command Aviation & Missile Center;

3 (3) the Army Space and Missile Defense Com-  
4 mand;

5 (4) one or more organizations from private sec-  
6 tor industry;

7 (5) one or more institutions of higher education  
8 or other research institutions; and

9 (6) departments and agencies of the Federal  
10 Government with demonstrated expertise in the use  
11 of additive manufacturing in space flight.

12 (c) ACTIVITIES.—The Consortium shall—

13 (1) facilitate the use of additive manufacturing  
14 for the aviation and missile programs of the Army  
15 to significantly reduce logistic footprints, material  
16 costs, delivery lead-times, and extended logistical  
17 supply chain dependencies that often challenge  
18 weapon system readiness for forward deployed  
19 warfighters;

20 (2) develop standards and a certification proc-  
21 ess for the use of additive manufacturing in aviation  
22 and missile programs of the Army, including addi-  
23 tive material and part certification requirements for  
24 additive manufactured items intended for use in  
25 military aircraft and missiles; and

1           (3) explore ways to adapt and apply the stand-  
2       ards developed under paragraph (2) across other  
3       aviation and missile programs of the Department of  
4       Defense to enhance efficiency, cost savings, readi-  
5       ness levels, and safety.





## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Jackson of Texas**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **T-7 Advanced Trainer Procurement Acceleration Roadmap**

Fielding the T-7 Redhawk is critical to improving the safety, quality, and throughput of Air Force pilot training. The committee is concerned about schedule delays to the T-7 program, particularly given the rapid deterioration of the T-38 fleet and the urgent need for a more relevant trainer for pilots of next generation aircraft.

Therefore, the committee directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services not later than March 1, 2024 on options to expedite procurement and fielding of the T-7 aircraft and associated ground-based training systems. The briefing shall include:

- (1) options for program acceleration with the identification of any additional authorities or resources required;
- (2) consideration of expediting Milestone C for the aircraft or ground-based training systems and increasing the pace of procurement and deliveries;
- (3) an update on other requirements for successful fielding and operations, such as facilities, spare parts availability, necessary ground support equipment, sufficient manpower, and relevant training for personnel; and
- (4) a summary of primary limiting factors preventing the timeline from being accelerated beyond what the Air Force believes feasible.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Wilson**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Army Modeling and Simulation Modernization**

The committee is concerned that without increased investment the Army's modeling and simulation infrastructure may be unable to evaluate modernization programs most accurately. Many acquisition programs within the Department of Defense rely upon modeling and simulation during key development milestones. However, the committee is concerned that the Army may be struggling with the capability to capture, curate, and reuse modeling and simulation data generated during the acquisition process.

The committee is aware of and encourages the Army's efforts to modernize its modeling and simulation enterprise in order to provide better decision-ready data to its senior leaders. The committee encourages the Army to accelerate these efforts. Therefore, the committee directs the Secretary of the Army, to provide a briefing to the House Committee on Armed Services, not later than February 1, 2024, on the Army's roadmap for modernizing its modeling and simulation infrastructure as it relates to evaluating acquisition programs.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by Mr. Bacon of Nebraska**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Soldier Tactical Awareness and Signature Management**

The committee is aware of Army efforts to develop enhanced situational awareness capabilities for the individual soldier and understands that signature management will be increasingly important in high threat environments. The committee sees promise in distributed mission command systems such as Nett Warrior and Integrated Tactical Network that can improve soldier situational awareness with hardware-agnostic three-dimensional mapping while managing tactical signatures. Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by February 1, 2024, on the status of integrating commercial, hard-ware agnostic three-dimensional mapping software capabilities into the Nett Warrior and Integrated Tactical Network system. This briefing should address how the Army intends to update software regularly to prevent obsolescence and upgrade or provision new software when units are deployed. Additionally, this briefing should describe capabilities to provide individual soldiers with a real-time common operating picture enabled by three-dimensional mapping and analytics in environments where cloud server access is either not possible or unreliable.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Bergman**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Soldier Load Reduction Efforts**

The committee recognizes that reducing soldier load is a priority for the Army and that reducing soldier load will help increase performance of soldiers on the battlefield and reduce musculoskeletal injuries. Despite the ongoing interest by the Army, the committee remains concerned about the impact of soldier load. The committee notes and encourages the Army's ongoing experimentation with the Maneuverable Lightweight Electric Weight Reducer to increase the operational effectiveness of our soldiers and reduce the long-term injuries caused from overloading.

Therefore, the committee directs the Secretary of the Army to submit a briefing to the House Committee on Armed Services by March 1, 2024, that summarizes the findings of the experimentation and the roles that the Maneuverable Lightweight Electric Weight Reducer may play in increasing overall mission effectiveness, lethality, and increased survivability of soldiers.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Gallagher**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

##### **Ground Vehicle Threat Assessment**

The committee is concerned about the development of so-called suicide drones, glide munitions and top attack tactics, techniques and procedures that have been evident in Russia's unprovoked attack on Ukraine. As the rest of the world watches the conflict, our adversaries are also gaining valuable insight as to how to defeat NATO provided equipment to Ukraine. To date, western planners have not adequately prepared for an attack from above ("top-attack") delivered from a suicide drone, glide-type munition, or pop-up mines to our armored vehicles and tanks.

The Committee is adamant about staying ahead of the threat and need for protecting deployed US forces. The Committee believes that the Department should be developing solutions to protect US forces in today's threat environment from attacks, specifically from small, fast suicide drones and glide munitions that would attack directly and quickly from above. The Committee is aware of at least one composite "add-on" armor solution already tested by the Army at Aberdeen and demonstrating protection from the highest-level threats. This composite armor solution has been adapted to selected ground combat vehicles and could quickly be retrofit into U.S. ground combat systems.

The Committee directs the Director of the U.S. Army Ground Combat Capabilities Development Command's Ground Vehicle Systems Center to provide a briefing to the House Committee on Armed Services, no later than March 31, 2024, on the specific threats seen in Ukraine as it pertains to attacks from above, as well as the immediately available top-attack armor defense options. The briefing should define the specific threats that US forces would encounter for armored, mechanized, and wheeled forces maneuvering against an enemy with suicide, glide and pop-up mine capabilities attacking from above. The briefing should detail service requirements as well as provide possible Commercial Off the Shelf options to quickly integrate into DoD inventories to add another layer of protection against such top-type attacks. This briefing shall include an unclassified threat assessment with a classified annex, if necessary.

## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Wilson**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

#### **Protective Equipment Modernization**

The committee understands the importance of service members being given the appropriate equipment to be able to perform at a peak performance. Female service members and small-stature male service members require additional measures to modernize their personal protective equipment to ensure they are protected appropriately. These members of the Armed Forces suffer from preventable injuries attributable to ill-fitting or malfunctioning personal protective equipment. The committee directs the Secretary of the Defense to provide a report to the House Committee on Armed Services not later than March 1st, 2024, on the status of personal protective equipment modernization. The report shall include:

- (1) efforts to share best practices and research efforts across the services;
- (2) efforts to expand research on body type specific equipment as well as smaller sizes;
- (3) an assessment of need for additional funding for continued research on the full compliment of female and small-stature male personal protective equipment; and
- (4) an assessment of need for additional funding for the expedited personal protective equipment to ensure equipment and proper sizes are available when needed, including for non-combat units.

**AMENDMENT TO H.R. 2670**  
**OFFERED BY MR. BERGMAN OF MICHIGAN**

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

**1 SEC. 2\_\_\_\_. PILOT PROGRAM ON ACCESS TO SMALL BUSI-**  
**2                   NESS ADVANCED TECHNOLOGY FOR ARMY**  
**3                   GROUND VEHICLE SYSTEMS.**

**4       (a) PROGRAM REQUIRED.**—Beginning not later than  
**5 90 days after the date of the enactment of this Act, the**  
**6 Secretary of the Army shall carry out a pilot program**  
**7 under which the Secretary seeks to establish an arrange-**  
**8 ment between the U.S. Army Ground Vehicle Systems**  
**9 Center and a non-profit research institute operating a con-**  
**10 tested logistics research center to enhance access to small**  
**11 business advanced technology through a Defense Commer-**  
**12 cial Solutions Opening contract entered into under section**  
**13 3458 of title 10, United States Code.**

**14       (b) TERMINATION.**—The authority to carry out the  
**15 pilot program under this section shall terminate five years**  
**16 after the date of the enactment of this Act.**



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Wittman**

In the portion of the report to accompany H.R. 2670 titled “Long Range Precision Fires”, strike all the text and insert the following new text “Long Range Precision Fires”.

#### **Long Range Precision Fires**

In 2017, the Chief of Staff of the Army announced a new effort to modernize Army capabilities in six priority areas to close perceived gaps in competitive advantage against emerging near-peer adversaries. The top priority within these six capabilities was long range precision fires. The Army is currently considering a wide range of options to modernize its fires capabilities including new missiles and launchers, extended range cannon munitions, and hypersonic weapons. Achieving both the range and precision desired by the Army for these capabilities will be challenging and requires considerable development of both requirements and technologies. Failure to achieve these goals could leave future soldiers outgunned and outranged by potential adversaries.

Therefore, the committee directs the Comptroller General of the United States to provide a briefing to the congressional defense committees not later than March 1, 2024, on the Department of the Army's Long Range Precision Fires program and present the final report in a format and timeframe agreed to at the time of the briefing. At a minimum, the final report should address the following elements:

- (1) the Army's overall acquisition strategy for the systems or technologies it seeks in the near- and long-term to improve its long range precision fires;
- (2) analyses the Army has performed to determine these needs;
- (3) to what extent the Army has applied leading practices for acquisitions in its Long Range Precision Fires Program;
- (4) the applicability of long range precision fires in U.S. Indo-Pacific Command operational plans; and
- (5) how the Army has positioned itself with research and development resources, in terms of both funding and personnel, to develop these technologies.



## **Amendment to H.R. 2670**

### **National Defense Authorization Act for Fiscal Year 2024**

#### **Offered by: Mr. Wittman**

In the portion of the report to accompany H.R. 2670 titled “Air and Missile Defense”, strike all the text and insert the following new text “Air and Missile Defense”.

#### **Air and Missile Defense**

Critical to the Army's vision for future warfare is the ability to protect its combat formations from modern and advanced air- and missile-delivered fires, including drones. Events in the current conflict in Ukraine underscore the need for such capabilities. Providing these capabilities could be challenging as the Army has not focused on the need for air and missile defense in its recent conflicts in Iraq and Afghanistan. Given the emerging tactics of near-peer competitors, however, it is vital that the Army secure these capabilities or risk failing in any future conflict.

Therefore, the committee directs the Comptroller General of the United States to provide a briefing to the congressional defense committees not later than June 28, 2024, on the Department of the Army's air and missile defense program and present the final report in a format and timeframe agreed to at the time of the briefing. At a minimum, the report should address the following elements:

- (1) systems or technologies the Army seeks in the near, mid, and long term to improve air and missile defense;
- (2) analyses the Army has performed to determine these needs, to include an assessment of the joint force;
- (3) to what extent the Army has applied leading practices for acquisitions in air and missile defense programs;
- (4) to what extent lessons learned from the Ukrainian conflict have been incorporated into the air and missile defense portfolio; and (5) how the Army has positioned itself with research and development resources, in terms of both funding and personnel, to develop these technologies.

**Amendment to H.R. 2670**  
**National Defense Authorization Act for Fiscal Year 2024**

**Offered by: Mr. Jackson of Texas**

In the appropriate place in the report to accompany H.R. 2670, insert the following new Directive Report Language:

Heavy-Payload Medium-Range VTOL Aircraft Logistical Support

The committee believes that reliable logistics chains are an operational imperative, and near-peer adversaries currently pose a significant risk to the reliable distribution of essential resources for the Department of Defense. The committee understands that unmanned vertical takeoff and landing (VTOL) aircraft can be utilized to reduce the Department's logistics capability shortfall while also supporting reconnaissance or humanitarian missions. Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services not later than June 1, 2024, on current and future efforts to utilize unmanned VTOL aircraft to provide low-cost, heavy-payload, medium-range, logistical support in both contested and permissive environments.