

SUBCOMMITTEE ON TACTICAL AIR AND LAND FORCES EN BLOC #1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
2356	1	Kelly, Trent	TAL	Directs the Secretary of the Air Force to provide a report to the House Committee on Armed Services regarding the use of tail numbers on aircraft with respect to tracking age, completed upgrades, and utilization of each aircraft within the Air Force and Air National Guard.	EB 1
2161	1	Horsford, Steven	TAL	Requires a report on the Air Force strategy to develop and field unmanned adversary emulator aircraft and related propulsion systems.	EB 1
1933	2	Larsen, Rick	TAL	DRL reviewing the carbon fiber material source(s) for development of Navy's 6th Gen F/A-XX aircraft.	EB 1
1832	1	Jackson, Ronny	TAL	Requires an annual report from the Air Force, with a 5 year sunset, reviewing the T-7A acquisition program.	EB 1
1615	2	Luria, Elaine G.	TAL	Directs a report on the Air Force's plan for basing 186 F-22 aircraft and reestablishing an F-22 formal training unit location.	EB 1
1626	1	Crow, Jason	TAL	Requires SecDef to submit a report prior to the relocation or elimination of any CONUS or U.S. territory flying mission describing how the decision supports the NDS, NMS, and other relevant COCOM strategies.	EB 1
1665	1	Jackson, Ronny	TAL	GAO report on acquisition and fielding of the Medium Caliber Weapon System of the Army.	EB 1
1718	1	Veasey, Marc	TAL	DRL directing the SecNav to give a briefing on the ALaMo program and efforts to bring the program to full rate production	EB 1
1745	1	Stefanik, Elise	TAL	Requires a briefing related to autonomous and dual-use small unmanned aircraft systems (sUAS).	EB 1
1785	1	Jackson, Ronny	TAL	Amends Section 132 to include the tiltrotor aircraft industrial base.	EB 1
1866	1	Wittman, Robert	TAL	Strategy for fielding high power microwave systems to counter small unmanned aerial systems	EB 1
1886	0	Jackson, Ronny	TAL	Adds an additional issue to the existing report on plans for reduction of Air Force fixed-wing advanced training aircraft to evaluate support from Euro-NATO Joint Jet Pilot Training Program partners.	EB 1
1929	0	Scott, Austin	TAL	Adds an assessment of the MQ-1C Gray Eagle Extended Range (GE-ER) to the annual National Guard and reserve equipment report.	EB 1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
1949	1	Fallon, Pat	TAL	Assistant Secretary of the Army for Acquisition, Logistics, and Technology to provide a report on Directed Energy Maneuverable Short Range Air Defense.	EB 1
1952	1	Jackson, Ronny	TAL	Briefing on legacy ground vehicle autonomous systems upgrades.	EB 1
1955	1	Larsen, Rick	TAL	Airborne Electronic Attack Aircraft Force Requirements	EB 1
1974	1	Bergman, Jack	TAL	Expediting Marine Corps Air Defense Capabilities	EB 1
2001	1	McClain, Lisa C.	TAL	DRL on Air Force A-10 divestment plans contained in the future years defense plan.	EB 1
2020	1	Slotkin, Elissa	TAL	Requires a briefing on management of risk in the armored vehicle track-shoe industrial base.	EB 1
2074	0	Bice, Stephanie I.	TAL	This amendment would add a paragraph to existing DRL to express support for the Navy's interest in assuming ownership of the Autonomous Maritime Patrol Aircraft (AMPA) Joint Capability Technology Demonstration (JCTD).	EB 1
2080	0	Turner, Michael	TAL	Requires the Secretary of Defense to provide a briefing that assesses the current ability of the F-35 aircraft to intercept inter-continental ballistic missile threats during initial boost phase of missile launch.	EB 1
2109	1	Sherrill, Mikie	TAL	Requires the Secretary of the Army to submit to the House and Senate Armed Services Committees a plan that comprehensively defines roles and responsibilities of officials and organizations of the Army Futures Command, Army acquisitions enterprise, and Modernization Enterprise	EB 1
2123	1	Kelly, Trent	TAL	Directs the Assistant Secretary of the Army for Acquisition, Logistics, and Technology to prepare a report on its current capabilities and future plans to field wheeled vehicle platforms with options for armor to units that may face a near-peer adversary in ground combat	EB 1
2231	2	DesJarlais, Scott	TAL	Directs the Under Secretary of Defense for Research and Engineering to engage with industry to initiate the requirements development process for a large scale, runway launched, high Mach aircraft capable of Mach 5+ flight, with the objective of entering prototyping competition.	EB 1
2363	0	Courtney, Joe	TAL	Prohibition on FY23 funding being used to terminate operations or prepare to terminate options of a production line for Air Force HH-60W Combat Rescue Helicopters.	EB 1
2415	1	Crow, Jason	TAL	Requires a report on Integrated Floor System Upgrades for H-60 Variants.	EB 1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
2432	3	Wilson, Joe	TAL	Directs the Secretary of the Army to provide a report and briefing on the Extended Range Cannon Artillery (ERCA) program.	EB 1
2436	0	Brown, Anthony G.	TAL	Longer-Range Munitions for the AH-64 Apache Helicopter	EB 1
2448	2	Norcross, Donald	TAL	Would require the F-35 JPO to provide the congressional defense committees a briefing with the results of the completed cost-benefit analysis reviewing options to upgrade the F-35 propulsion and/or power thermal management systems.	EB 1

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: MR. TRENT KELLY

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Retaining Tail Numbers on United States Air Force and Air National Guard
Aircraft

The committee is aware that the United States Air Force has used tail numbers to identify and track individual aircraft since 1993. Typically, these tail numbers denote the aircraft's home unit, the fiscal year in which the aircraft was ordered, and the last three digits of the aircraft's serial number. The committee believes that tail numbers are a transparent and simple way to track the utilization, age, repairs, and upgrades provided to individual aircraft across the Air Force and Air National Guard. The committee also believes that tail numbers on aircraft should not be removed, modified, or changed once an aircraft is fielded. Therefore, the committee directs the Secretary of the Air Force to provide a report to the House Committee on Armed Services no later than February 1, 2023, regarding the current use of tail numbers on aircraft within the Air Force and Air National Guard. The report should analyze if tail numbers could successfully be used to determine:

- (1) the assignment and maintenance history of an aircraft;
- (2) if tail numbers are currently changed when aircraft switch from Active Component to Reserve Component;
- (3) the Air Force's methodology for determining the average age, model number, utilization, and completed repairs and upgrades, within each unit in both the Active and Reserve components; and
- (4) if there are significant disparities between the average age, model number, utilization, and completed repairs and upgrades for aircraft within the Active Component versus the Reserve Component.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: MR. HORSFORD

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Adversary Air Cost Reducing Technologies

The committee is concerned that the emulation of highly advanced adversary aircraft currently requires the usage of organically owned fifth-generation aircraft to serve the role of aggressor during aerial combat training, due to the limited capabilities of existing commercial adversary air platforms to replicate the advanced threat adversary. Given the limited quantity of advanced fifth-generation fighter aircraft fielded by the Department of Defense, this strategy incurs high operating expenses and opportunity costs. Seeking a more sustainable long-term training solution for U.S. combat air forces aircraft, the committee is encouraged by the development of advanced unmanned emulator aircraft through the Air Force Research Laboratory BANDIT program. The low operating cost and open architecture of these aircraft could allow the Department to modify systems at unprecedented pace, enabling better threat replication.

In parallel to the BANDIT program aircraft development, the committee acknowledges the Air Force Research Laboratory is developing enhanced propulsion capabilities for advanced unmanned combat systems under the Attritable Cost-Optimized Limited-Life Engine Technology (ACOLLET) Program. Recognizing the potential benefits these propulsion advances offer to the adversary air emulation mission, the committee directs the Deputy Assistant Secretary of the Air Force for Science, Technology, and Engineering to provide a report, that includes a roadmap, to the House and Senate Committees on Armed Services by June 30th, 2023, outlining the steps to integrate ACOLLET propulsion capabilities into BANDIT aircraft. This roadmap should be accompanied by a broader explanation on the status of the BANDIT program, including analysis comparing estimated adversary air mission cost per flight-hour operating costs between the F-35A and applicable BANDIT program aircraft. The briefing should also detail plans to incorporate unmanned adversary emulator aircraft into training ranges with Air Combat Command threat matrix framework level four capability.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Larsen

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Domestic Carbon Fiber Source for U.S. Navy Sixth Generation Fighter

The committee is concerned if any defense contractors are relying on carbon fiber from companies that conduct their material research and development activities and manage their intellectual property in countries outside of the United States of America for the Department of the Navy's plan to develop the F/A-XX sixth generation fighter.

This issue is critical to examine since the defense contractors bidding for this program may be currently making decisions on carbon fiber material that could be difficult to exchange at a future point in time. It is imperative to U.S. national security interests that the F/A-XX is not reliant upon a single foreign-controlled company that could potentially add uncertainty and instability to the security of the supply chain for this critical material.

The committee directs the Secretary of the Navy to submit a report to the congressional defense committees by June 1, 2023, on the Navy's F/A-XX to identify if any defense contractors are relying upon carbon fiber from companies that conduct their material research and development activities and manage their intellectual property in countries outside of the United States. The report should include a plan to develop, promote, and fund qualification projects for domestic alternatives to carbon fiber-based products using carbon fiber from companies that conduct their material research and development activities and manage their intellectual property outside the United States. The report should be submitted in unclassified format, but may contain a classified annex.

AMENDMENT TO H.R. 7900
OFFERED BY MR. JACKSON OF TEXAS

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

1 **SEC. 1___ . ANNUAL REPORT ON T-7A ADVANCED PILOT**
2 **TRAINING SYSTEM.**

3 (a) ANNUAL REPORT.—Not later than March 1,
4 2023, and annually thereafter for 5 years, the Assistant
5 Secretary of the Air Force for Acquisition, Technology,
6 and Logistics shall submit to the Committees on Armed
7 Services of the Senate and the House of Representatives
8 a report on the acquisition efforts of the Department of
9 Defense with respect to the T-7A Advanced Pilot Train-
10 ing System (including any associated aircraft and ground
11 training systems).

12 (b) ELEMENTS.—Each report under subsection (a)
13 shall include the following:

14 (1) An overview of the Assistant Secretary's ac-
15 quisition strategy for the T-7 Advanced Pilot Train-
16 ing System, including the current status of the ac-
17 quisition strategy as of the date of the report.

18 (2) The cost and schedule estimates for the pro-
19 gram.

1 (3) In the case of the initial report under this
2 section, the key performance parameters or the
3 equivalent requirements for the program. In the case
4 of subsequent reports, any key performance param-
5 eters or the equivalent requirements for the program
6 that have changed since the submission of the pre-
7 vious report under this section.

8 (4) The test and evaluation strategy and execu-
9 tion date of the testing program, including any re-
10 sults, and a summary of testing points closed per-
11 taining to the testing program.

12 (5) The logistics and sustainment strategy of
13 the program, and the planning, execution, and im-
14 plementation that has occurred related to that strat-
15 egy as of the date of the report.

16 (6) An explanation of the causes related to any
17 engineering, manufacturing, development, testing,
18 production, delivery, acceptance, and fielding delays
19 incurred by the program as of the date of the report
20 and any associated impacts and subsequent efforts
21 to address such delays.

22 (7) The post-production fielding strategy for
23 the program.

24 (8) Any other matters regarding the acquisition
25 of the T-7 Advanced Pilot Training System that the

- 1 Assistant Secretary determines to be of critical im-
- 2 portance to the long-term viability of the program.



AMENDMENT TO H.R. 7900
OFFERED BY MRS. LURIA OF VIRGINIA

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

1 SEC. 1. REPORT ON F-22 AIRCRAFT FORCE LAYDOWN.

2 Not later than April 30, 2023, the Secretary of the
3 Air Force shall submit to the Committees on Armed Serv-
4 ices of the Senate and the House of Representatives a re-
5 port on—

6 (1) the proposed plan of the Air Force for the
7 movement and basing of 186 F-22 aircraft; and

8 (2) the establishment of a new F-22 formal
9 training unit, including—

10 (A) the anticipated location of such unit;

11 (B) the anticipated schedule for the estab-
12 lishment of such unit; and

13 (C) the number of aircraft that are ex-
14 pected to be transferred to such unit.



AMENDMENT TO H.R. 7900
OFFERED BY MR. CROW OF COLORADO

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

1 **SEC. 10___ . JUSTIFICATION FOR TRANSFER OR ELIMI-**
2 **NATION OF FLYING MISSIONS.**

3 (a) IN GENERAL.—Prior to the relocation or elimi-
4 nation of any flying mission, either with respect to an ac-
5 tive or reserve component of a covered Armed Force, the
6 Secretary of Defense shall submit to the congressional de-
7 fense committees a report describing the justification of
8 the Secretary for the decision to relocate or eliminate such
9 mission. Such report shall include each of the following:

10 (1) A description of how the decision supports
11 the national defense strategy, the national military
12 strategy, the North American Aerospace Defense
13 Command strategy, and other relevant strategies.

14 (2) A specific analysis and metrics supporting
15 such decision.

16 (3) An analysis and metrics to show that the
17 elimination or relocation of the flying mission would
18 not negatively affect the homeland defense mission.

1 (4) A plan for how the Department of Defense
2 intends to fulfill or continue the mission require-
3 ments of the eliminated or relocated flying mission.

4 (5) An assessment of the effect of the elimi-
5 nation or relocation on the national defense strategy,
6 the national military strategy, the North American
7 Aerospace Defense Command strategy, and the
8 homeland defense mission.

9 (6) An analysis and metrics to show that the
10 elimination or relocation of the flying mission and its
11 secondary and tertiary impacts would not degrade
12 capabilities and readiness of the Joint Force.

13 (7) An analysis and metrics to show that the
14 elimination or relocation of the flying mission would
15 not negatively affect the national military airspace
16 system.

17 (b) COVERED ARMED FORCE.—In this section, the
18 term “covered Armed Force” means—

19 (1) The Army.

20 (2) The Navy.

21 (3) The Air Force.



Amendment to H.R. 7900

National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Jackson of Texas

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Comptroller General Review of Army Medium Caliber Weapon System

The committee recognizes the efforts of the Army to upgrade and improve the lethality of the Stryker Infantry Carrier Vehicle with an unmanned turreted auto-cannon, known as the Medium Caliber Weapons System (MCWS). The committee notes, however, that questions have been raised about the Army's requirements for the system related to lethality and survivability during the acquisition process. Therefore, the committee directs the Comptroller General of the United States to submit a report to the House Committee on Armed Services not later than April 1, 2023 on the Medium Caliber Weapon System (MCWS). The report shall include the following:

- (1) an assessment of the requirements determination and acquisition process throughout technology research, development, testing, and procurement of the MCWS;
- (2) a review of actions coordinated and taken by acquisition program officials and the Army Futures Command's Cross Functional Team regarding the requirements determination and acquisition processes, including those related to integration of the MCWS into the Stryker Infantry Carrier Vehicle;
- (3) an assessment of MCWS requirements determination, technology research, development, testing, and procurement schedule and funding profiles including operational needs statements or other requests originating from Army deployed or forward stationed units;
- (4) an analysis of MCWS program costs, including a comparison of MCWS costs to those for similar combat systems in the Army and Marine Corps;
- (5) an assessment of lessons learned, if any, by acquisition program and Cross Functional Team officials, how those lessons were distributed, and actions taken by officials relative to those lessons for the improvement of requirements determination, technology development, testing, and production; and
- (6) an assessment of safety risks and mitigation procedures implemented by testing, acquisition program, and Cross Functional Team officials throughout MCWS program technology development and testing.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Veasey

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Advanced Low-Cost Munitions Ordnance

The committee continues to support the development and production of the Advanced Low-Cost Munitions Ordnance (ALaMO), a guided 57mm projectile with fire-and-forget capability. This projectile has the potential to counter the growing threats posed by small boat swarms, unmanned aerial systems, and other emerging threats. The Committee is also aware that the ALaMO round has been tested to confirm its effectiveness, providing confidence that the munition program is ready to enter full rate production in 2023. Furthermore, the Navy's affordability objective for the ALaMO round has faced an unstable production profile throughout its low-rate initial production phase. Therefore, the committee directs the Secretary of the Navy to provide a briefing to House Committee on Armed Services by March 31, 2023 on the ALaMO inventory objective, an assessment of the most efficient procurement rate to meet the inventory objective, and savings, if any, that could be achieved through multiyear procurement.

Amendment to H.R. 7900 National Defense Authorization Act for Fiscal Year 2023

Offered by: Ms. Stefanik

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Autonomous and Dual-Use Small Unmanned Aircraft Systems

The committee continues to support Department of Defense efforts to increase domestic commercial small unmanned aircraft system (sUAS) production capability. Section 848 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116-92) and the Defense Innovation Unit's Blue UAS program are advancing that objective, but given the rapid pace of UAS technology development, the committee believes the Department should continue to update and refine its standards to deploy state-of-the-art technology for the warfighter. The committee notes that prioritizing proven dual-use sUAS and successful incorporation of artificial intelligence could help achieve this goal. The committee further understands that dual-use products have the potential to offer lower costs, higher levels of reliability, faster iteration cycles, and larger levels of scale.

Therefore, the committee directs the Secretary of Defense to provide a briefing to the House Committee on Armed Services by March 31, 2023, that addresses the following matters related to sUAS:

- 1) The Department's plan over the Future Years Defense Program to field sUAS at the unit level with the most advanced levels of artificial intelligence and autonomy technology, including comprehensive, 360-degree obstacle avoidance, subject tracking, and autonomous navigation and flight;
- 2) The Department's plan to maximize the acquisition and employment of domestic dual-use sUAS and bolster the domestic sUAS supply chain; and
- 3) Any other matters the Secretary deems relevant.

AMENDMENT TO H.R. 7900
OFFERED BY MR. JACKSON OF TEXAS

At the end of section ____ (Log 75361), add the following:

- 1 (d) ROTARY WING AIRCRAFT DEFINED.—In this sec-
- 2 tion, the term “rotary wing aircraft” includes rotary wing
- 3 and tiltrotor aircraft.



Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Wittman

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Strategy for fielding high power microwave systems to counter small unmanned aerial systems

The committee is encouraged by the Army's Directed Energy efforts, particularly those related to the Indirect Fire Protection Capability-High Power Microwave (IFPC-HPM) program. The committee understands the Army's Rapid Capabilities and Critical Technologies Office (RCCTO) and the Joint Counter small Unmanned Aerial Systems Office (JCO) tested multiple HPM systems against swarming small unmanned aerial systems (sUAS) threats at Yuma Proving Ground in April 2022 with mixed success. The threat posed by swarming sUAS grows alongside the need to improve system dependability and defensive networking capabilities. The committee encourages the Army to ensure full consideration of HPM systems as part of a layered defense for protection of fixed and semi-fixed sites. The committee further encourages the Army to include requirements for scalability and modularity in development of such systems.

Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services no later than February 1, 2023, on a strategy to develop and test scalable, modular High Power Microwave systems that can be integrated into the Army's air defense battle command system, as well as detect, track, identify, engage, and defeat sUAS swarms. The briefing should also include plans, if any, to produce and field this capability to equip forward deployed or expeditionary units.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Jackson

In the portion of the report to accompany H.R. 7900 titled “Report on plans for reduction of Air Force fixed-wing advanced training aircraft”, insert at the end of the provision, the following new text: “(7) the efforts made to incorporate all parties of the Euro-NATO Joint Jet Pilot Training Program into the T-7 training aircraft program.”

AMENDMENT TO H.R. 7900
OFFERED BY MR. AUSTIN SCOTT OF GEORGIA

At the appropriate place in the bill, insert the following:

1 **SEC. ____ . EQUIPMENT OF ARMY RESERVE COMPONENTS:**

2 **ANNUAL REPORT TO CONGRESS.**

3 Section 10541(b)(10) of title 10, United States Code,
4 is amended—

5 (1) in subparagraph (E), by striking “and”;

6 (2) by redesignating subparagraph (F) as sub-
7 paragraph (G); and

8 (3) by inserting, after subparagraph (E), the
9 following new subparagraph (F):

10 “(F) MQ-1C Gray Eagle Extended Range;
11 and”.



Amendment to H.R. 7900 National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Fallon

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Directed Energy Maneuverable Short-Range Air Defense

The U.S. Army Rapid Capabilities and Critical Technologies Office (RCCTO) is prototyping capabilities that address the need for protection against group one, two, and three unmanned aerial systems (UAS). Included in this effort is development of a directed energy system to protect maneuvering forces from rocket, artillery, and mortar (RAM), as well as rotary and UAS threats. The Committee is aware of the recent testing with the Directed Energy Maneuverable Short-Range Air Defense (DE M-SHORAD) prototype, including the successful defeat of threat UAS and mortar rounds. The Committee urges the Army to continue its testing and delivery of system prototypes in order to provide an effective and cost-efficient counter-UAS and counter-RAM capability.

Accordingly, 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 no later than February 1, 2023, on an acquisition strategy for DE M-SHORAD. The briefing shall include the following:

- (1) the strategy, including development, testing, and production schedule and funding profile, for transition of DE M-SHORAD to a Program of Record;
- (2) plans for the integration of directed energy counter-UAS and RAM systems into the Integrated Battle Command Systems networking and command and control system for target detection, identification, targeting, and engagement of threats; and
- (3) the potential applicability and interest, if any, in acquiring defensive directed energy counter UAS and RAM capabilities among other Department of Defense military departments and agencies.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Jackson of Texas

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Briefing on Legacy Ground Vehicle Autonomous Systems Upgrades

The committee supports the Army's interest and investment in artificial intelligence and autonomous operating capabilities associated with the development of next generation combat and tactical vehicles. However, the committee is also interested in the Army's assessment of the feasibility, cost, and potential benefits of integrating autonomous operating capability into its current combat and tactical vehicle fleets. Accordingly, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services no later than March 1, 2023, on its assessment of the feasibility, suitability, and advisability of developing and fielding upgrades for current combat and tactical vehicle fleets that would allow them to operate autonomously both effectively and safely. The briefing shall include at a minimum:

- (1) a review of current combat and tactical vehicles, their expected fleet service life, their eligibility for autonomous system upgrades, and any future plans and schedules to replace these vehicles with next generation ground vehicles;
- (2) a cost estimate for developing, producing, and fielding autonomous system upgrades for each eligible fleet of current combat and tactical vehicles;
- (3) the current and planned autonomous systems upgrades, if any, to combat and tactical vehicles; and
- (4) an estimated schedule to develop, produce, and field autonomous systems upgrades for each fleet of combat and tactical ground vehicles.

Amendment to H.R. 7900 National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Larsen

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Airborne Electronic Attack Aircraft Force Requirements

The committee is concerned that Department of the Navy plans to divest all expeditionary electronic attack aircraft squadrons will create a capability gap in Department of Defense ability to effectively execute its electronic warfare mission under the National Defense Strategy.

Therefore, the committee directs the Secretary of Defense, in coordination with the Secretary of the Navy and the Secretary of the Air Force, to submit a report to the House Committee on Armed Services, not later than May 1, 2023, with recommendations for the required airborne electronic attack aircraft force structure.

The study should include, at a minimum:

- 1) The airborne electronic attack aircraft force structure of the Department of the Navy and the Department of the Air Force necessary to meet the requirements of the Department of Defense airborne electronic attack aircraft mission under the National Defense Strategy, in low, medium, and high risk force structure options, including— A) the total minimum number of the airborne electronic attack aircraft; B) the minimum number of primary mission aircraft; C) the total minimum number of airborne electronic warfare aircraft with electronic attack capabilities; and D) the minimum number of primary mission airborne electronic warfare aircraft with electronic attack capabilities.
- 2) An explanation of how the force structure described under (1) supports operations between military services to include – A) description of joint electromagnetic spectrum operations; B) the area of responsibility for services when operating in a joint theater; C) The joint integration concept for operational employment of airborne electronic attack aircraft operated by the Department of the Navy and the Department of the Air Force; and D) any redundancy in capabilities among services.
- 3) A roadmap outlining how the Department of Defense plans to reach the force structure described including an established goal date for achieving the minimum number of airborne electronic attack aircraft.

The report should be submitted in unclassified form but may include a classified annex.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Bergman

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Expediting Marine Corps Air Defense Capabilities

The committee remains concerned about increased cruise missile, artillery, and other rocket attacks on United States' personnel, bases, and allies in the Middle East, including Israel, Saudi Arabia, and Ukraine. The committee notes the work of the United States Marine Corps to rapidly field a Medium Range Interceptor Capability (MRIC) to provide expeditionary cruise missile defense capability. The committee further notes the work by the Marine Corps to expedite and ensure robust oversight of both the program and its testing.

Therefore, the committee directs the Commandant of the Marine Corps, to provide a briefing to the House Committee on Armed Services not later than November 31, 2022, on the cost, schedule, and performance of the MRIC program and what steps, if any, can be taken to accelerate the program.

Amendment to H.R. 7900 National Defense Authorization Act for Fiscal Year 2023

Offered by: Mrs. McClain

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

REPORT ON A-10 DIVESTMENT

The committee notes that the authority to transition the A-10 unit at Fort Wayne Air National Guard Base, Indiana, to an F-16 unit was provided over five years ago in the National Defense Authorization Act for Fiscal Year 2017 (P.L. 114-328). The request to transition the same unit in the fiscal year 2023 budget request does not constitute a full divestment strategy, nor does it give the committee confidence that operational missions unfilled by the divestment of future A-10 aircraft will be effectively recovered. Placing the future A-10 fleet at risk in the name of cost savings without regard to operational requirements or identification of meeting specific metrics for current and future weapon systems is hasty and shortsighted and could prove costlier in future budgets as the Air Force attempts to quickly reconstitute those lost mission sets.

The committee notes the Secretary of the Air Force has failed to fully comply with the requirement in the Consolidated Appropriations Act, 2022 (P.L. 117-103) to submit a report on any proposed divestments of the A-10 aircraft during the fiscal year 2023 future years defense plan (FYDP). The interim report attempts to explain a divestment strategy for a single fiscal year, but does not discuss a full FYDP plan, which the committee expected to be fully developed given the numerous years the Air Force has attempted to divest the A-10 platform.

Therefore, the committee directs the Secretary of the Air Force to provide to the congressional defense committees no later than August 19, 2022, the complete report required in the fiscal year 2022, Consolidated Appropriations Act. In addition, the Secretary of the Air Force should include in that report a detailed plan of how remaining A-10 aircraft in service over the next 5 years will be sufficiently modernized to meet mission requirements. If a complete report is not submitted by August 19, 2022, the committee will take this lack of information into account when considering future requests from the Department for divestment of A-10 aircraft.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Ms. Slotkin

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Acquisition of Armored Vehicle Track Shoes and Pads

The Committee is aware of the Army's efforts to manage strategic risk in the armored vehicle industrial base including its emphasis on the importance of the transparency and access to data on capabilities and capacities throughout the relevant supply chains necessary for realistic and timely risk assessment. The management challenges faced by the Army when confronted with evidence of risk in the armored vehicle industrial base and supply chains are compounded by instability in demand or unreliable investment over time to procure the types and quantities of components, parts, or supplies for such vehicles.

The committee notes that sometimes overlooked for track-laying armored vehicles are the track shoes and pads necessary for their combat and training readiness. Accordingly, the committee directs the Secretary of the Army to provide a briefing to the House Armed Services Committee not later than March 15, 2023, on its assessment and plans for the management of risk in the armored vehicle track industrial base. This assessment and plan shall include:

1. An identification and assessment of track on-hand inventories and for how long current inventories will meet estimated requirements;
2. An identification and assessment of track production sources, capabilities, and capacities to sustain inventories required for current and future demand through 2027; and,
3. An identification of planned schedule and funding profiles for each type of armored vehicle track required.

**Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023**

Offered by: Mrs. Bice of Oklahoma

In the portion of the report under to accompany H.R. 7900 titled “Persistent, ultra-long endurance airborne intelligence, surveillance, and reconnaissance”, insert at the end of the first paragraph, the following new text:

“The committee is also aware that Naval Aviation Systems Command, the transition partner for the Autonomous Maritime Patrol Aircraft (AMPA) Joint Capability Technology Demonstration (JCTD), is interested in transitioning the AMPA asset to U.S. Navy ownership in order to enhance mission-specific development, testing and eventual fielding. The committee supports this decision.”

**Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023**

Offered by: Mr. Turner

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Briefing on Advanced F-35 Launch Intercept Capabilities

The committee is aware that the F-35 provides unprecedented capability, survivability and connectivity in today's complex threat environment. Further, the committee notes that the F-35 aircraft has served as an effective deterrent to Russia in Eastern Europe and increases interoperability among the United States and North-Atlantic Treaty Organization partners. Moreover, the committee notes that adversaries continue developing and testing advanced missile launch capabilities that threaten the safety and security of the United States, U.S. territories, and foreign partners and allies. The committee is interested in additional capabilities the F-35 aircraft may support.

Therefore, the committee directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services no later than February 1, 2023, that assesses the current ability of the F-35 aircraft to effectively detect, engage, and employ existing, or planned, air-to-air intercept weapons against an inter-continental ballistic missile threat during the initial boost phase of missile launch.

AMENDMENT TO H.R. 7900
OFFERED BY MS. SHERRILL OF NEW JERSEY

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

1 **SEC. 9 ____ . CLARIFICATION OF ROLES AND RESPONSIBILITIES FOR FORCE MODERNIZATION EFFORTS OF THE ARMY.**

2
3
4 (a) **PLAN REQUIRED.**—Not later than 180 days after
5 the date of the enactment of this Act, the Secretary of
6 the Army shall submit to the Committees on Armed Services of the Senate and the House of Representatives a plan
7 that comprehensively defines the roles and responsibilities
8 of officials and organizations of the Army with respect to
9 the force modernization efforts of the Army.
10

11 (b) **ELEMENTS.**—The plan under subsection (a)
12 shall—

13 (1) identify the official within the Army who
14 shall have primary responsibility for the force modernization efforts of the Army, and specify the roles,
15 responsibilities, and authorities of that official;

16
17 (2) clearly define the roles, responsibilities, and
18 authorities of the Army Futures Command and the

1 Assistant Secretary of the Army for Acquisition, Lo-
2 gistics, and Technology with respect to such efforts;

3 (3) clarify the roles, responsibilities, and au-
4 thorities of officials and organizations of the Army
5 with respect to acquisition in support of such efforts;
6 and

7 (4) include such other information as the Sec-
8 retary of the Army determines appropriate.

9 (c) ROLE OF ARMY FUTURES COMMAND.—In the
10 event the Secretary of the Army does not submit the plan
11 required under subsection (a) by the expiration of the 180
12 day period specified in such subsection, then beginning at
13 the expiration of such period—

14 (1) the Commanding General of the Army Fu-
15 tures Command shall have the roles, responsibilities,
16 and authorities assigned to the Commanding Gen-
17 eral pursuant to Army Directive 2020–15 (“Achiev-
18 ing Persistent Modernization”) as in effect on No-
19 vember 16, 2020; and

20 (2) any provision of Army Directive 2022–07
21 (“Army Modernization Roles and Responsibilities”),
22 or any successor directive, that modifies or con-
23 travenes a provision of the directive specified in
24 paragraph (1) shall have no force or effect.



Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: MR. TRENT KELLY

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Survivability and Protection Upgrades for Tactical Wheeled Vehicles

The committee recognizes the need for the Army to establish and maintain a tactical wheeled vehicle fleet that is ready and safe for combat operations. Tactical wheeled vehicles are commonly used by maneuver and supporting units in combat zones for the transportation of troops, equipment, and supplies. The committee notes that tactical wheeled vehicles transporting troops should be equipped with additional protection, including armor, based on the threat and operating environment. Such protection should be tailored subject to the capability and required performance of the vehicle to carry any additional load, and modular for configuration in expeditionary kits for relatively rapid installation or removal in the field by operators. Therefore, the committee directs the Assistant Secretary of the Army for Acquisition, Logistics, and Technology to submit a briefing not later than April 1st, 2023, to the House Committee on Armed Services on its current capabilities and plans to develop, test, produce, and field additional modular and expeditionary protection or armor for each of its tactical wheeled vehicle fleets.

Amendment to H.R. 7900

National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. DesJarlais

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

High Mach Aircraft Technology Development

The committee recalls over the last two years the committee has required the Office of the Secretary of Defense to report on potential missions and capability gaps to be filled by a reusable high-Mach airspeed aircraft and to release a roadmap for such development. The committee notes these reports provided significant data illustrating potential applications to critical intelligence, surveillance and reconnaissance, space launch, and strike missions, particularly in exclusion areas in the Indo-Pacific theater of operations.

The committee supports the recommended development timetables and encourages continued investment to achieve prototype delivery goals in 2030. However, the committee is concerned by the lack of corresponding funding for propulsion and thermal management, which are necessary to inform capability attributes and requirements. Investing in propulsion with integrated thermal management solutions is necessary to optimize size, weight, and performance as well as cope with the extreme temperature volatility and variations these systems will be required to operationally endure in flight. The committee notes a recent ground-based test recently conducted in industry and in conjunction with the Defense Advanced Research Project Agency and the Air Force Research Laboratory successfully demonstrating operations at temperatures and pressures analogous to hypersonic conditions, validating the ability to design, manufacture and operate a flight-representative heat exchanger and thermal management system that could enable air breathing flight at full-threat hypersonic conditions and temperatures of approximately 1800 degrees Fahrenheit. The committee encourages this research to continue.

The committee expects the Under Secretary of Defense for Research and Engineering to engage with industry to initiate the requirements development process for a large scale, runway launched, aircraft capable of Mach five or greater airspeed flight, with an objective of entering prototyping competition for aircraft of this nature by 2024. The committee encourages utilization of discretionary funds in fiscal year 2023 to support development activities for critical subsystems, including propulsion and integrated thermal management solutions, as well as inclusion within a unique budget program element in future budget submissions. The committee directs the Undersecretary to provide a report to the congressional defense committees by May 1, 2023, on the status of budgeting for future development, as well as, requirements development and key technology activities determined necessary to meet timetables described in the previously submitted hypersonic flight roadmap. The report should be submitted in unclassified format, but may contain a classified annex.

AMENDMENT TO H.R. 7900
OFFERED BY MR. COURTNEY OF CONNECTICUT

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

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

4 None of the funds authorized to be appropriated by
5 this Act or otherwise made available for fiscal year 2023
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. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Crow

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Integrated Floor System Upgrades for H-60 Variants

The committee notes that the UH-60 Black Hawk is the U.S. Army's primary medium lift helicopter, estimated to remain in the Army fleet for at least 25 more years. The committee understands that the Utility Helicopter Program Office (UHPO) has acquired a limited number of Medical Interior Upgrades (MIU) palletized floor overlays for the HH-60M Medical Evacuation variant that addresses capability gaps and design deficiencies of the current floor, but that also adds significant weight to the aircraft, particularly when configured with armor. The committee is aware that the UHPO is working with industry to develop the technology for a Seat Track Integrated Replaceable/Upgradable Protection System (STIRUPS) to replace the current three-floor system (the Black Hawk floor, armor, and the medical palletized floor) with a single integrated system which will reduce the cost of aircraft modification and integration, reduce the weight of the aircraft, and extend the service life of the aircraft. The committee recognizes that an integrated floor could provide benefits for other variants of the H-60 and encourages the Army to consider adoption of such a system across the fleet.

Accordingly, the committee directs the Assistant Secretary of the Army for Acquisition, Logistics and Technology to provide a briefing to the House Armed Services Committee by March 1, 2023, on the seat track integrated replaceable/upgradeable protection system and the next generation of Medical Interior Upgrades for H-60 Black Hawk helicopters, to include an assessment of the functionality and maturity of the program, the estimated weight reductions, costs to produce, field, and integrate the system, and the schedule for fielding the system to all components.

Amendment to H.R. 7900

National Defense Authorization Act for Fiscal Year 2023

Offered by: Mr. Wilson of South Carolina

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Extended Range Cannon Artillery Program

The committee is aware of and supports the Army's programs oriented on the rapid development and fielding of long-range surface-to-surface precision fires, both missile and cannon artillery, to meet current and anticipated requirements for successful operations against potential peer and near-peer adversaries. The committee understands the Army's development efforts include an Extended Range Cannon Artillery (ERCA) system that would nearly double the range of its current M109A7 Paladin self-propelled howitzer and notes that last year an ERCA test prototype successfully demonstrated a firing range in excess of 60 kilometers. However, the Government Accountability Office's (GAO) 2022 Weapons Systems Annual Assessment notes that ERCA was experiencing challenges with technical maturity, schedule delay, and that program cost estimation has not been formalized. The committee further understands that the Army's current program plans call for an open competition acquisition strategy for the ERCA system when ready for full rate production.

Given that GAO reported potential cost, performance, and schedule risk, the committee requires an update on the ERCA program's status and plans. Accordingly, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services not later than March 1, 2023 on the ERCA program's research, development, and testing progress and plans. The briefing required shall include:

- (1) an updated and consolidated list and funding profile through 2028 for the research, development, test, evaluation (RDTE), and procurement appropriation accounts that support the ERCA program;
- (2) the Technology Readiness Level (TRL) of each research and development effort and the schedule at which those efforts will progress from current levels to the readiness level required for a production decision;
- (3) the funding profile necessary to accomplish the required qualification test of the new gun, breech, propellants, and projectiles to meet documented requirements;
- (4) the status of and plans for achieving required safety certifications for fielding of the ERCA system; and

(5) a total cost estimate and plan to complete development and operational testing and for the full rate production of the ERCA system.

The committee further directs the Secretary of the Army to submit a report not later than April 1, 2023, to the Senate Committee on Armed Services and the House Committee on Armed Services detailing the business case analysis for the ERCA acquisition strategy with production and fielding plans.

Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023

Offered by: MR. BROWN OF MARYLAND

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

Longer-Range Munitions for the AH-64 Apache Helicopter

The committee supports the Army's interim long-range precision munition program to field a longer-range munition on the AH-64 Apache attack helicopter. The committee understands that, to date, this capability has been added to only two of the Army's Combat Aviation Brigades. The committee further notes that the Army's enduring program to field a future long-range precision munition will not provide operational capability until the end of this decade to the Future Attack Reconnaissance Aircraft. Given that the Army expects to fly the Apache until at least 2050, the Army should consider additional options to enhance the lethality and survivability of its Combat Aviation Brigades.

Accordingly, the committee directs the Secretary of the Army to provide a briefing to the House Armed Services Committee by February 15, 2023, on options to field longer-range precision munitions to the AH-64 Apache helicopter fleet. The briefing should include, at a minimum: the Army's current plan for fielding additional long-range munitions to the Apache, or a schedule for developing such a plan; the annual costs of upgrading the fleet using a federated model over the next 5-7 years; and opportunities for expediting fielding to a majority of its Combat Aviation Brigades by 2027.

**Amendment to H.R. 7900
National Defense Authorization Act for Fiscal Year 2023**

Offered by: Mr. Norcross

In the appropriate place in the report to accompany H.R. 7900, insert the following new Directive Report Language:

F-35 Joint Program Office Cost-Benefit Analysis

The committee understands that the F-35 Joint Program Office, in consultation with the United States Air Force and the Department of the Navy, is conducting a detailed cost-benefit analysis to evaluate cost, schedule, risk, and operational mission capability enhancements that could be achieved by modernizing, upgrading, or replacing the existing F-35 propulsion system and/or power thermal management system for all aircraft variants of the F-35 weapon system. The committee notes that the F-35 Joint Program Office plans to complete the cost-benefit analysis in August 2022 and then subsequently present the results of the analysis to the military services and the F-35 Joint Executive Steering Board soon thereafter.

Therefore, the committee directs the Director, F-35 Joint Program Office, alongside relevant Department of Defense officials, to provide a thorough and detailed briefing to the congressional defense committees by September 20, 2022, and not later than October 4, 2022, that includes the complete results of the aforementioned cost-benefit analysis. The briefing should also include how any available and pertinent operational analyses performed by the United States Air Force or Department of the Navy informed the results of the cost-benefit analysis.