

En Bloc Amendments to H.R. 2500

Subcommittee on Tactical Air and Land Forces En Bloc #1

Log #	Sponsor	Description
028	Speier	Directs the Under Secretary of Defense for Research and Engineering to provide a report on existing efforts to prototype unmanned aircraft systems for distributed military logistics.
052r1	Bacon	Directs USAF to provide Congress a report, after consultation with SECDEF, CJCS, and the services, detailing the support requirements (infrastructure, personnel, etc.) needed to reach its goal of 386 operational squadrons.
111r1	Brown	Directs the Department to provide a briefing on real time transmissions of weapons data.
137r1	Golden	Directs the Secretary of the Army to provide Congress with a brief concerning the capabilities and logistical requirements of military shelter systems.
181r1	Gaetz	Directs the Secretary of the Air Force to provide a briefing on the acquisition strategy for the Distributed Common Ground System-Air Force and assess the applicability of commercial technologies to the program requirements.
198	Mitchell	Requires a briefing from the Secretary of the Army on the development of technologies that will protect the control of remotely-piloted and unmanned ground combat vehicles and other Army communications.
270	Sherrill	Directs the Secretary of the Army to provide a briefing on plans for management of the Ammunition industrial base.
279	Waltz	GAO report on DOD efforts to better synchronize the development and fielding of close air support friendly-force identification technologies.
294r1	Bergman	To receive a briefing on the current plans and potential opportunities to improve ground combat vehicle assured mobility in extreme cold weather conditions and regions.

Amendment to H.R. 2500 National Defense Authorization Act for Fiscal Year 2020

Offered by: Speier

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

AUTONOMOUS DISTRIBUTION FOR CRITICAL SUPPLIES

The committee is aware that the 2015 Joint Concept for Logistics 2.0 highlighted the growing gap between increasing logistics requirements and constrained logistics resources in the context of globally integrated operations. To close this gap, the Department of Defense is investigating advanced technologies suitable for distributed logistics. The committee understands that the Defense Innovation Unit has been prototyping commercial, autonomous drone services to deliver critical, life-saving supplies like blood and medical products to military units in combat zones. The committee supports the continued development and expansion of autonomous distribution systems for these efforts to move faster, reduce costs, and ultimately save lives. Therefore, the committee directs the Under Secretary of Defense for Research and Engineering to provide a report to the congressional defense committees by February 15, 2020, on efforts to modernize logistical operations since the publication of the 2015 Joint Concept for Logistics 2.0. The report shall include a summary of any prototyping efforts and an assessment of all missions and requirements that could be met through autonomous distribution technologies.

Revised - LOG 052rd

**Amendment to H.R. 2500
National Defense Authorization Act for Fiscal Year 2020**

Offered by Mr. Bacon of Nebraska

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

Report on supporting requirements for the Air Force's proposed increase in force structure

The committee is concerned that the current size and structure of the Air Force does not support the National Defense Strategy. The committee acknowledges the Air Force's recent force structure assessment, called "The Air Force We Need", which provides a case and framework that would, if adopted and resourced, grow the Air Force from 312 to 386 operational squadrons. While the committee understands the assessment's analysis and conclusions and the case it makes to grow the size of the Air Force, it also notes the limitations associated with an analysis of operational squadrons only. Further, the committee is concerned that the requirement for 386 operational squadrons as illustrated in the assessment will only be realized through the alignment of resources to these requirements through future Air Force budgets and encourages the Air Force to develop a more comprehensive analysis that would fully integrate planning for 386 operational squadrons into future budgets.

Therefore, the committee directs the Secretary of the Air Force, in consultation with the Secretary of Defense, Chairman of the Joint Chiefs of Staff, and the secretaries of the other military departments to provide a report to the congressional defense committees not later than March 1, 2020 that builds on the analysis completed in the "Air Force We Need" assessment, and details the supporting resources and support personnel requirements necessary to execute a force sized at 386 operational squadrons. This analysis and report should include associated, realigned, or additional infrastructure requirements, maintenance and other supporting personnel requirements, depot production, industrial base support, and additional details the Secretary feels necessary to fully identify, evaluate, and estimate the costs of the changes required within the larger Air Force enterprise to meet the requirements of the National Defense Strategy.

Log 111 r7

**Amendment to H.R. 2500
National Defense Authorization Act for Fiscal Year 2020**

Offered by: Mr. Brown of Maryland

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

Real Time Transmission of Weapons Usage Data

The committee recognizes the importance of the Next Generation Squad Weapon program and notes the potential of new technology involving smart weapons capable of real time transmission of weapons usage data. The committee directs the Assistant Secretary of the Army for Acquisition to provide a briefing to the House Committee on Armed Services no later than November 1, 2019 on the utility of real time transmission of squad level weapons usage data for training and combat operations, logistics, and maintenance, to include potential or existing technology.

**Amendment to H.R. 2500
National Defense Authorization Act for Fiscal Year 2020**

Offered by Mr. Golden of Maine

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

Requirements and Capabilities for Military Shelter Systems Ballistic Protection

The committee notes that in forward deployed environments, service members must often work, eat, and rest in military shelter systems. The committee further notes the importance of providing service members with military shelter systems that, under certain threat conditions, offer protection against small arms fire and fragmentation. Under such operational conditions, military shelter systems may require ballistic protection that can be quickly transported, assembled, and disassembled as required to meet mission requirements.

The committee directs the Secretary of the Army to provide the House Committee on Armed Services, no later than December 1, 2019, with a briefing on the requirements for and capabilities of the Army's expeditionary military shelter systems. The briefing shall include an analysis of the ballistic protection capabilities and transportation requirements of such military shelter systems.

Amendment to H.R. 2500

Log 18/1/1

DRL Concerning Distributed Common Ground System and 10 U.S.C. 2377

An amendment by Mr. Gaetz of Florida:

The committee notes the significant progress that the Army has made in deploying the distributed common ground system of the Army. The transition to “Capability Drops” and the increased use of readily available technology integration have improved program outcomes and accelerated deployment timelines.

The committee encourages the other military services and agencies of the Department of Defense to review the Army’s approach to determine whether that approach would improve outcomes for their own distributed common ground system programs. In particular, the committee urges program managers for the other distributed common ground system programs to learn more about the Army’s approach to the requirements of 10 U.S.C. § 2377 and directs the Secretary of the Air Force to brief the committee on the acquisition strategy for the distributed common ground system of the Air Force, with particular attention to the process used to determine whether commercial technologies can meet requirements pursuant to 10 U.S.C. §2377, not later than September 30, 2019.

Amendment to H.R. 2500 National Defense Authorization Act for Fiscal Year 2020

Offered by: Mr. Mitchell of Michigan

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

Briefing on Secure Communications with Remote-Piloted and Unmanned Ground Vehicles

The Committee is aware that the Army is developing new ground combat vehicles that can be operated remotely or unmanned. At the same time, potential adversaries continue to develop capabilities that may compromise control of these remotely operated systems, as well as other components of the Army's communications networks.

The committee notes the Army is researching technologies that will protect and harden communication networks in contested environments, but is concerned about the integration of these systems relative to the maturity of remotely-piloted vehicles like the Optionally Manned Fighting Vehicle and the Robotic Combat Vehicle.

Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by September 30, 2019, on the Army's efforts to develop technologies that will protect control of remotely-piloted or unmanned vehicles, as well as other communications technologies, while operating in contested environments.

**Amendment to H.R. 2500
National Defense Authorization Act for Fiscal Year 2020**

Offered by: Ms. Sherrill of New Jersey

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

Management of the Ammunition Industrial Base

The Committee recognizes the critically important responsibility and authority of the Joint Program Executive Office for Armaments and Ammunition (JPEO A&A) for comprehensive life-cycle assessment, planning, and management of our ammunition industrial base ensuring that our warfighters are appropriately equipped and supplied to meet ammunition readiness and mission requirements.

The Committee is concerned, however, that potential changes to the existing distribution of responsibility and authority for the life-cycle management of our ammunition enterprise, including the government-owned and contractor-operated industrial base, risks unnecessarily undermining unity of command and effort, complicating command and support relationships, contributing to inefficiency, and increasing cost.

The committee is aware that the recent report, "DoD Ammunition Enterprise Organizational Assessment," dated March 7, 2019, evaluated various options for realignment of responsibility and authority for management of the ammunition industrial base. Included in that report was a recommendation for a "thorough legal review" of statutory and regulatory changes that could impact readiness responsibilities for all agencies considered.

Therefore, the Committee directs the Secretary of the Army, prior to deciding on any changes currently under consideration, to conduct an audit of all laws, policies and procedures related to proposed changes and, if needed, identify legislative or regulatory changes required to implement such management changes. The Committee further directs the Secretary of the Army to provide to the House Committee on Armed Services a briefing on the results of this audit, as well as plans to mitigate risk to the industrial base, risk to unity of command and effort, complications between command and support relationships, inefficiencies, or increased costs, not less than 60 days prior to implementing any changes to the distribution of authority or responsibility for the management of the ammunition industrial base.

Amendment to H.R. 2500 National Defense Authorization Act for Fiscal Year 2020

Offered by:

Michael Waltz (Florida)

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

DOD Efforts to Improve Friendly Force Identification in Close Air Support

The committee notes that the tragic loss of military personnel to friendly-fire is a historical and unfortunate reality of military operations. While the Department of Defense has applied lessons learned and made marked progress in coordination processes between friendly forces, and has developed technologies to mitigate risk for distinguishing friendly and adversary forces, incidents of friendly-fire have not been eliminated.

The committee recognizes that tactical air controllers employ a variety of friendly force identification systems in close air support operations and that the Department continues to seek improvements in its ability to identify friendly forces during military operations. However, the committee is concerned that ongoing efforts to upgrade critical identification capabilities are not sufficiently coordinated or synchronized within the Department to ensure expeditious integration and interoperability of advanced technologies as systems are developed, tested, and fielded.

Therefore, the committee directs the Comptroller General of the United States to provide a report not later than September 30, 2020, that assesses the following issues:

1. What actions has the Department taken to ensure a common understanding of requirements and challenges related to friendly force identification by close air support aircraft, including visibility of ongoing efforts to meet requirements;
2. What efforts does the Department have underway to enhance friendly force identification capabilities, to include efforts to identify, evaluate, and incorporate new technologies in a rapid and effective manner;
3. To what extent does the Department coordinate and communicate friendly force identification requirements and evaluations across the Department to ensure that military services are developing complimentary requirements and interoperable technologies for ground combat personnel and aircraft platforms;
4. To what extent the Department has reviewed close air support training curriculum to determine sufficiency and effectiveness for those forces assigned to provide close air support capabilities; and,
5. Any other issues the Comptroller General determines appropriate with respect to efforts to improve the Department's ability to identify friendly forces and minimize friendly fire incidents.

Log #294
Revised
Log 294r1

**Amendment to H.R. 2500
National Defense Authorization Act for Fiscal Year 2020**

Offered by: Mr. Bergman of Michigan

In the appropriate place in the report to accompany H.R. 2500, insert the following new Directive Report Language:

BRIEFING ON IMPROVING GROUND COMBAT VEHICLE ASSURED MOBILITY IN NORTHERN REGIONS

The committee continues to have concerns regarding the cold weather capabilities and readiness of the military services. Specifically, the committee has concerns regarding the training and equipment limitations that may exist that could effectively limit operations and ground combat maneuver against peer competitors in northern and arctic regions. The committee also notes that near-peer and peer competitors such as North Korea, Russia, and China have well-known ground mobility capabilities in northern and arctic regions. The committee encourages the Army to consider the advisability and feasibility of implementing a task force to assess the current status of assured mobility in northern regions utilizing Army and civilian subject matter experts in northern military ground maneuver operations to assist in identifying science and technology gaps, as well as inform any modeling and simulation efforts required for the improvements to legacy and next generation ground combat vehicles.

Therefore, the committee directs the Chairman of the Joint Chiefs of Staff, in consultation with the Chiefs of Staffs of the military services to provide a briefing to the House Committee on Armed Services by March 1, 2020 that includes current plans and potential opportunities to improve ground combat vehicle assured mobility in extreme cold weather conditions and regions.

The briefing should also include:

- (1) A description and evaluation of current joint force requirements and capabilities for ground mobility to support military operations in extreme cold climates;
- (2) A description and evaluation of requirements for extreme cold weather ground mobility in the Arctic, Northeast Asia, and Northern and Eastern Europe;
- (3) A description and evaluation of the current joint force ground mobility readiness and training, and any equipment, infrastructure, personnel, or resource limitations or gaps that may exist;

- (4) An analysis of opportunities to expand tactical ground mobility development and testing for extreme cold weather and the resources or infrastructure required for such expansion; and
- (6) A description and evaluation of manned and unmanned ground systems for operations in extreme cold weather environments.