

En Bloc Amendments to H.R. 2500

**Subcommittee on Tactical Air and Land Forces
En Bloc #2**

Log #	Sponsor	Description
053	Bacon	Directs SECDEF to provide a briefing to HASC on the near and long-term acquisition and development strategy to provide radio frequency countermeasure protection for current and future rotary-wing aircraft for each military service.
112r1	Brown	Revise the directive report language on IFPC to include the radar as a component of the development and evaluation.
121	Brown	Requires the Air Force to report on their plan for modernizing Air National Guard F-16 aircraft with AESA radar technology
206r1	Slotkin	Adds to DRL already included in TAL mark requesting a strategy for the development of Vehicle Active Protection Systems.
271r1	Sherrill	Report on efforts to develop, demonstrate, manufacture and deploy advanced multi-functional materials and technologies that can be combined for customizable asset protection systems and increased weapon system capabilities.
280	Waltz	Require briefing on active, advanced hearing protection and how combat earplugs will provide same protection TCAPS could. Also encourage DoD-developed list of approved COTS devices authorized for use.
273r1	Sherrill	Encourage the development and testing of lightweight small arms and medium caliber ammunition to reduce the burden on the warfighter.

**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:

Radio Frequency Countermeasures for Rotary Wing Aircraft

The committee supports the Department's commitment to modernizing the vertical lift and rotary-wing capabilities across the services. The committee also notes with concern the rapid development and proliferation of advanced radio frequency threat systems that would possess the ability to engage rotary-wing aircraft currently operated by the Army, Navy, Marine Corps and Air Force. Therefore, the committee directs the Secretary of Defense to provide a briefing to the House Armed Services Committee, no later than January 31, 2020, that includes: a near and long-term acquisition and development strategy to provide radio frequency countermeasure (RFCM) protection for current and future rotary-wing aircraft for each of the military services. The briefing should also include all current rotary-wing RFCM production programs and address any additional applicable programs with mature technology readiness levels.

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

Offered by: Mr. Brown of Maryland

In the portion of the report to accompany H.R. 2500 titled "Indirect Fire Protection Capability Increment 2 system of systems", strike the following text: "concurrently developing and evaluating a launcher and interceptor solution" and insert the following new text "concurrently developing and evaluating a complete system solution—radar, launcher, and interceptor—".

In the portion of the report to accompany H.R. 2500 titled "*Indirect Fire Protection Capability Increment 2 system of systems*", strike the following text:

"The committee supports the Army's IFPC system acquisition strategy, including the immediate procurement of two Iron Dome batteries to meet the statutory schedule requirements for an interim capability. The committee encourages the Army to continue with current experimentation plans for the enduring IFPC system to better understand the complexity of integration of potential launcher and interceptor solutions. Accordingly, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by November 1, 2019, on the progress of fielding an Iron Dome interim IFPC system for CMD, as well as an update on the status of development of an enduring capability for IFPC Inc 2."

and insert the following new text:

"The committee supports the Army's IFPC system acquisition strategy, including the immediate procurement of two Iron Dome batteries to meet the statutory schedule requirements for an interim capability, however, the committee requires additional fidelity into the acquisition strategy and plan for the enduring IFPC requirement. Accordingly, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by November 1, 2019, on the progress of fielding an Iron Dome interim IFPC system for CMD, as well as an update on the status of development of an enduring capability for IFPC Inc 2 to include the acquisition strategy for the enduring requirement with the associated funding profiles required to remain in compliance with section 112 of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115-232)."

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:

Air National Guard F-16 Radar Upgrades

The committee recognizes that F-16s will remain a critical component of the Air National Guard (ANG) inventory through the 2040s making it essential to maintain the operational viability of these aircraft. The committee further recognizes that Active Electronically Scanned Array (AESA) radar upgrades for the F-16 make the aircraft more survivable and lethal in a combat environment when deployed, provides increased capability for homeland defense and aerospace control alert missions, as well as reduces maintenance and logistics challenges.

The committee strongly supports continuing the F-16 AESA radar upgrades for both the Air Force and ANG, including the use of National Guard and Reserve Equipment Account funding referenced elsewhere in this Act. Furthermore, the committee directs the Chief of Staff of the Air Force, in coordination with the Chief of the National Guard Bureau, to provide a report to the House Armed Services Committee not later than February 1, 2020 that details an operational risk assessment, requirements determination, and acquisition and fielding strategy with associated funding profiles for upgrading the ANG's F-16s with AESA radars.

Log 2061

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

Offered by: Representative Elissa Slotkin

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

In the portion of the report to accompany H.R. 2500 titled "Title I: Procurement of Weapons and Tracked Combat Vehicles, Army, Vehicle Active Protection Systems", after, "... to better inform their long-term strategy as well as look for ways to accelerate development and procurement," insert the following new text:

"Additionally, the Committee needs to better understand if the Army is considering "hybrid" solutions that would include fielding an advanced APS, that would work in concert with passive protection technologies, such as improved armor, to deliver substantial survivability enhancements.

In the last sentence of this section, following, "options for expanding the fielding of NDI APS solutions to additional current or future combat vehicles," insert:

"a detailed summary of recent Stryker APS testing to date, and an analysis of the relative merits of hybrid protection technologies"

Log # 271 Revised

Log 271 r1

**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:

Advanced Development of Asset Protection Technologies

The Committee notes the Army's progress in developing advanced technologies for asset protection, such as Thermal Indicating Paints, Active Sensor Systems, Novel Power Solutions, Printed and Embedded Sensors for Army Weapons systems, Flexible Electronics, and others to support the warfighter. The Committee directs the Secretary of the Army to provide a briefing to the committee not later than December 1, 2019 on the Army's plans and programs, if any, to develop, demonstrate, manufacture and deploy advanced multi-functional materials and technologies that can be combined for customizable asset protection systems and increased weapon system capabilities.

**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:

Tactical Communications and Protective System

The committee is aware that the Tactical Communications and Protective System (TCAPS) and TCAPS-Lite programs provide active hearing protection simultaneously protecting servicemembers' hearing while enabling situational awareness and mission command. The Army notes in their budget justification documents that these hearing protection systems are also intended to limit lost in-service time related to hearing injuries as well as reduce post-service disability compensation. The committee understands that the TCAPS and TCAPS-Lite programs have been cancelled and that combat earplugs will be relied upon to meet hearing protection requirements. The committee is concerned that combat earplugs have had significant issues related to performance and quality control in the past that likely resulted in hearing loss to military personnel.

Considering the Army's decision to discontinue the TCAPS and TCAPS-Lite programs, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services no later than September 1, 2019, the Army's plan to provide advanced, active hearing protection with an appropriate noise reduction rating that simultaneously enables situational awareness and mission command and control. This briefing should also address the level of protection and functionality combat earplugs provide for servicemembers and how those levels of protection and functionality compare to a TCAPS headset and TCAPS-Lite active hearing devices. The committee encourages the Department of Defense to develop a list of evaluated, off-the-shelf active hearing protection devices authorized for service and review this list as part of the required briefing.

Revised Log 273

Log 273r1

**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:

Advanced Lightweight Small Arms and Medium Caliber Ammunitions

The Committee is encouraged by the Navy's progress on design, development and testing of advanced lightweight small arms and medium caliber ammunitions. The committee directs the Secretary of the Navy to report to the committee by December 1, 2019 what efforts are underway to continue to explore and refine the use of advanced lightweight polymer cased ammunition technology to reduce the weight burden, enhance operational reliability, improve mobility and enhance survivability of the warfighter.