

En Bloc Amendments to H.R. 4909

April 27, 2016

| Subcommittee on Tactical Air and Land Forces | | |
|---|----------------|---|
| En Bloc #1 | | |
| Log # | Sponsor | Description |
| 016 | Larsen | SecNav briefing re: advanced flight control software (Magic Carpet) development for carrier landings |
| 043r1 | Jones | Expresses the sense of Congress regarding the reporting of the MV-22 crash in Marana, Arizona on April 8, 2000 |
| 055 | Duckworth | Requires the SECDEF to enter into a contract with a federally funded research and development center to conduct a study on technologies with the potential to prevent and mitigate helicopter crashes |
| 110r2 | Smith | Report language regarding future Air Force C2ISR recapitalization programs. |
| 220r1 | Sanchez | Requires the Army and Marine Corps to develop a joint acquisition strategy to provide more effective personal protective equipment and organizational clothing and equipment to meet the specific and unique requirements for female marines and soldiers |
| 241 | Gibson | Modifies log 63461 in TAL Mark. Requests further information from Defense Technology Security Administration's (DTSA) consideration of policies that could further regulate the export of software defined radios |
| 247 | Bishop | Directs the SECDEF to brief HASC on progress it has made in meeting the congressionally mandated goal requiring that one-third of all operational ground combat vehicles would be unmanned, as required by NDAA FY01 (P.L. 106-398) |
| 296r1 | Hartzler | Modifies Log 63648 in TAL Mark, and would specify the requirements for a briefing from SECAF, to include plans to fairly evaluate the Advanced Pilot Training design solutions based off existing aircraft and new aircraft |
| 300r1 | Scott | Would prohibit retirement of JSTARS aircraft in FY18 |

Amendment to H.R. 4909 National Defense Authorization Act for Fiscal Year 2017

Offered by: Rep. Larsen

In the appropriate place in the report to accompany H.R. 4909, insert the following new Directive Report Language:

Briefing on advanced flight control software for carrier landings

The committee is aware that the Department of the Navy has performed flight tests with advanced flight control software for the F-35, F/A-18 E/F Super Hornet and E/A-18G Growler. This software, Maritime Augmented Guidance with Integrated Controls for Carrier Approach and Recovery Precision Enabling Techniques (MAGIC CARPET) will help aviators maintain constant guide slope throughout approach. The committee is supportive of the Navy's efforts to reduce the workload on pilots and LSOs associated with performing a carrier landing. And by increasing the automation of these operations, MAGIC CARPET could allow the Navy to achieve savings without harming readiness by safely reducing the trainings associated with certification for carrier operations. Therefore, the Committee directs the Secretary of the Navy to brief the House Committee on Armed Services no later than September 30, 2016 on MAGIC CARPET software development, flight testing, the impact on pilot and LSO workloads, potential reduction in training missions and associated savings, and a notional timeline for delivery to the fleet.

Log 04301

AMENDMENT TO H.R. 4909
OFFERED BY MR. JONES OF NORTH CAROLINA

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

1 **SEC. 10__.** **SENSE OF CONGRESS REGARDING THE RE-**
2 **PORTING OF THE MV-22 MISHAP IN MARANA,**
3 **ARIZONA, ON APRIL 8, 2000.**

4 It is the sense of Congress that—

5 (1) in the report accompanying H.R. 1735 of
6 the 114th Congress (House Report 114–102), the
7 Committee on Armed Services of the House of Rep-
8 resentatives encouraged the Secretary of Defense to
9 “publicly clarify the causes of the MV-22 mishap at
10 Marana Northwest Regional Airport, Arizona, in a
11 way consistent with the results of all investigations
12 as soon as possible”;

13 (2) the Deputy Secretary of Defense Robert O.
14 Work did an excellent job reviewing the investiga-
15 tions of such mishap and concluded that there was
16 a misrepresentation of facts by the media which in-
17 correctly identified pilot error as the cause of the
18 mishap which the Deputy Secretary publicly made
19 known in March 2016; and

1 (3) Congress is grateful for the successful con-
2 clusion to this tragic situation.



AMENDMENT TO H.R. 4909
OFFERED BY MS. DUCKWORTH OF ILLINOIS

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

1 **SEC. 2** . **STUDY ON HELICOPTER CRASH PREVENTION**
2 **AND MITIGATION TECHNOLOGY.**

3 (a) **STUDY REQUIRED.**—The Secretary of Defense
4 shall seek to enter into a contract with a federally funded
5 research and development center to conduct a study on
6 technologies with the potential to prevent and mitigate
7 helicopter crashes.

8 (b) **ELEMENTS.**—The study required under sub-
9 section (a) shall include the following:

10 (1) Identification of technologies with the po-
11 tential—

12 (A) to prevent helicopter crashes (such as
13 collision avoidance technologies and battle space
14 and terrain situational awareness technologies);
15 and

16 (B) to improve survivability among individ-
17 uals involved in such crashes (such as adaptive
18 flight control technologies and improved energy
19 absorbing technologies).

1 (2) A cost-benefit analysis of each technology
2 identified under paragraph (1) that takes into ac-
3 count the cost of developing and deploying the tech-
4 nology compared to the potential of the technology
5 to prevent casualties or injuries.

6 (3) A list that ranks the technologies identified
7 under paragraph (1) based on—

8 (A) the results of the cost-benefit analysis
9 under paragraph (2); and

10 (B) the readiness level of each technology.

11 (4) An analysis of helicopter crashes that—

12 (A) compares the casualty rates of cockpit
13 occupants to the casualty rates of occupants of
14 cargo compartments and troop seats; and

15 (B) identifies the root causes of the casual-
16 ties described in subparagraph (A).

17 (c) BRIEFING.—Not later than one year after the
18 date of the enactment of this Act, the Secretary shall pro-
19 vide to the Committees on Armed Services of the Senate
20 and House of Representatives (and other congressional de-
21 fense committees on request) a briefing that includes—

22 (1) the results of the study required under sub-
23 section (a); and

24 (2) the list described in subsection (b)(3).



Amendment to H.R. 4909
National Defense Authorization Act for Fiscal Year 2017

Offered by: Mr. Smith of Washington

In the appropriate place in the report to accompany H.R. 4909, insert the following new Directive Report Language:

*Air Force Command, Control, Intelligence, Surveillance, and Reconnaissance
[C2ISR] Fleet*

The committee is aware that the Air Force's critical manned C2ISR aircraft are high-demand assets facing low availability rates, end-of-life issues, and growing sustainment costs. The committee is supportive of the Air Force's plan to replace the JSTARS fleet with an affordable commercially available platform under a full and open competition. When recapitalizing the rest of the manned C2ISR fleet, the committee believes the Air Force should use a similar acquisition strategy as the one used with JSTARS, and consider a full and open competition. The term "C2ISR fleet" is defined as predominantly 707/C-135 platforms which are approaching end of service life. The committee directs the Secretary of the Air Force to provide a briefing not later than September 1, 2016 on the Air Force's current plans for recapitalization of these aircraft.

Log 220 Revised
Log 220R1

AMENDMENT TO H.R. 4909
OFFERED BY MS. LORETTA SANCHEZ OF
CALIFORNIA

At the end of title III, add the following new section:

1 **SEC. 3___ . DEVELOPMENT OF PERSONAL PROTECTIVE**
2 **EQUIPMENT FOR FEMALE MARINES AND SOL-**
3 **DIERS.**

4 The Secretary of the Navy and the Commandant of
5 the Marine Corps shall work in coordination with the Sec-
6 retary of the Army to develop, not later than April 1,
7 2017, a joint acquisition strategy to provide more effective
8 personal protective equipment and organizational clothing
9 and equipment to meet the specific and unique require-
10 ments for female Marines and soldiers.



Amendment to H.R. 4909
National Defense Authorization Act for Fiscal Year 2017

Offered by: Mr. Gibson of New York

In the portion of the report to accompany H.R. 4909 titled "*Army Tactical Communications Waveforms*", strike the following text:

"The committee supports the Army's Non-Developmental Item (NDI) procurement strategy for software defined radios. Furthermore, the committee recognizes the critical role radio waveforms play in battlefield communications and network capability, and how an NDI procurement approach can save money and deliver communications technology rapidly to the warfighter. The committee encourages the Army to expand its NDI procurement policy to include new software technology for innovative commercial waveforms. The committee directs the Secretary of the Army to provide a briefing to the Committee on Armed Services of the House of Representatives not later than September 30, 2016, on the potential use of new radio waveforms for tactical communications that may be available via an NDI acquisition approach;" and insert the following new text:

"The committee supports the Army's Non-Developmental Item (NDI) procurement strategy for software defined radios. Furthermore, the committee recognizes the critical role radio waveforms play in battlefield communications and network capability, and how an NDI procurement approach can save money and deliver communications technology rapidly to the warfighter. The committee encourages the Army to expand its NDI procurement policy to include new software technology for innovative commercial waveforms. The committee is further aware and interested in seeking more information about the Defense Technology Security Administration's (DTSA) consideration of policies that could lead to additional regulations regarding the export of software defined radios. The committee believes that both of these approaches have the potential to impact the availability of radios to warfighters.

Therefore, the committee directs the Secretary of the Army and the Director of the Defense Technology Security Administration to provide a briefing to the Committee on Armed Services of the House of Representatives not later than September 30, 2016, on the potential use of new radio waveforms for tactical communications that may be available via an NDI acquisition approach and the potential effects of U.S. government policy changes on this industrial sector and on the ability of warfighters and our international partners to access innovative radio technologies.

Amendment to H.R. 49 National Defense Authorization Act for Fiscal Year 2017

Offered by: Rob Bishop (UT-01)

In the appropriate place in the report to accompany H.R. 4909, insert the following new Directive Report Language:

Unmanned Advanced Capability Combat Aircraft and Ground Combat Vehicles

Congress mandated a goal as part of the Fiscal Year 2001 Defense Authorization Act, regarding unmanned advanced capability combat aircraft and ground combat vehicles, that by the year 2010, one-third of the aircraft in the operational deep strike force fleet would be unmanned, and that by year 2005, one-third of the operational ground combat vehicles would be unmanned.

Congress subsequently requested reports outlining the Department's progress towards achieving these goals in 2006 and 2008. The committee notes that there has been no update provided by the Department since 2008.

The Secretary of Defense is directed to provide a briefing to the House Committee on Armed Services, no later than September 15, 2016, on the Department's progress in meeting the congressionally mandated goal. The briefing shall include an assessment of progress towards meeting the goals identified for the subset of unmanned air and ground systems established in section 220 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (as enacted into law by Public Law 106-398; 114 Stat.1654A-38), as well as an assessment of existing, viable unmanned ground vehicle technologies that can be economically used for making significant progress toward the achievement of the 2001 goal within the next 5 years.

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Log 29/6/1

**Amendment to H.R. 4909
National Defense Authorization Act for Fiscal Year 2017**

Offered by: Vicky Hartzler (R-MO)

In the portion of the report to accompany H.R. 4909 titled "T- X program", insert in the last sentence, the following new text: "plans to fairly evaluate the Advanced Pilot Training Family of Systems designs solutions that are based off of newly designed aircraft and existing aircraft and".

The last paragraph of the report language should read:

Accordingly, the committee recommends \$12.4 million, the full amount requested, in PE 64233F to continue the T-X program. The committee also directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services not later than November 1, 2016, on plans to fairly evaluate the Advanced Pilot Training Family of Systems designs solutions that are based off of newly designed aircraft and existing aircraft and potential options to accelerate the T-X program.

AMENDMENT TO H.R. 4909
OFFERED BY MR. AUSTIN SCOTT OF GEORGIA

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

1 **SEC. 1___ . PROHIBITION ON AVAILABILITY OF FUNDS FOR**
2 **RETIREMENT OF JOINT SURVEILLANCE TAR-**
3 **GET ATTACK RADAR SYSTEM AIRCRAFT.**

4 (a) **PROHIBITION.**—Except as provided by subsection
5 (b) and in addition to the prohibition under section 144
6 of the National Defense Authorization Act for Fiscal Year
7 2016 (Public Law 114–92; 129 Stat. 758) none of the
8 funds authorized to be appropriated or otherwise made
9 available for fiscal year 2018 for the Air Force may be
10 obligated or expended to retire, or prepare to retire, any
11 Joint Surveillance Target Attack Radar System aircraft.

12 (b) **EXCEPTION.**—The prohibition in subsection (a)
13 shall not apply to individual Joint Surveillance Target At-
14 tack Radar System aircraft that the Secretary of the Air
15 Force determines, on a case-by-case basis, to be non-oper-
16 ational because of mishaps, other damage, or being uneeco-
17 nomical to repair.

