

119TH CONGRESS
1ST SESSION

H. R. 3848

To direct the Secretary of Defense to conduct a study on the feasibility of, and cost associated with, equipping all fixed wing and rotary wing aircraft of the Department of Defense that operate in highly trafficked domestic airspaces with air-to-air and air-to-ground collision detection systems, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 9, 2025

Mr. MILLS (for himself, Mr. McCORMICK, Mr. VINDMAN, Mr. LUCAS, and Mrs. KIGGANS of Virginia) introduced the following bill; which was referred to the Committee on Armed Services

A BILL

To direct the Secretary of Defense to conduct a study on the feasibility of, and cost associated with, equipping all fixed wing and rotary wing aircraft of the Department of Defense that operate in highly trafficked domestic airspaces with air-to-air and air-to-ground collision detection systems, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Collision-Limiting
3 Operational Upgrade for DOD Aircraft Act” or the
4 “CLOUD Aircraft Act”.

5 **SEC. 2. DEPARTMENT OF DEFENSE STUDY ON FEASIBILITY**
6 **OF EQUIPPING ALL MILITARY FIXED WING**
7 **AND ROTARY WING AIRCRAFT WITH AIR-TO-**
8 **AIR AND AIR-TO-GROUND COLLISION DETEC-**
9 **TION SYSTEMS.**

10 (a) **FEASIBILITY STUDY REQUIRED.**—The Secretary
11 of Defense, in coordination with the Administrator of the
12 Federal Aviation Administration, shall conduct a study on
13 the feasibility of, and cost associated with, equipping all
14 fixed wing and rotary wing aircraft of the Department of
15 Defense that operate in highly trafficked domestic air-
16 spaces with air-to-air collision detection systems.

17 (b) **REPORT.**—Not later than 180 days after the date
18 of the enactment of this Act, the Secretary shall submit
19 to the appropriate committees of Congress a report on the
20 results of the feasibility study required under subsection
21 (a). Such report shall include the recommendations of the
22 Secretary with respect to such results and a timeline for
23 carrying out any such recommendations.

24 (c) **DEFINITIONS.**—In this section:

25 (1) The term “air-to-air collision detection sys-
26 tem”—

1 (A) means an airborne system designed to
2 detect and warn pilots of potential mid-air colli-
3 sions with other aircraft equipped with tran-
4 sponders, allowing them to take evasive maneu-
5 vers to avoid a crash; and

6 (B) is compatible with the system used by
7 commercial aircraft that is commonly referred
8 to as a “traffic alert and collision avoidance
9 system” of a “TCAS”.

10 (2) The term “air-to-ground collision detection
11 system” means a system that uses radar, digital ter-
12 rain maps, and other sensors to warn pilots of po-
13 tential collisions, and if a collision is likely, to notify
14 the pilot through a series of alarms or to automati-
15 cally take control of the aircraft to avoid the colli-
16 sion.

17 (3) The term “appropriate committees of Con-
18 gress” means the Committee on Armed Services and
19 the Committee on Transportation and Infrastructure
20 of the House of Representatives.

21 (4) The term “commercial service airport” has
22 the meaning given the term in section 47102 of title
23 49, United States Code.

24 (5) The term “operate in highly trafficked do-
25 mestic airspaces” means, with respect to aircraft of

1 the Department of Defense, that such aircraft are
2 stationed on or near, and operate regular flight pat-
3 terns within the surrounding class B, C, or D air-
4 space of a commercial service airport.

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